

MoonSked by MoonBounce Software © GM4JJJ

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-01	Monday	09:00	060°	+1°	0 dB	0°	060°	+1°	125°	+21°	2.9dB	314°K	375153 +293 Hz
2029-01-01	Monday	09:30	065°	+5°	0 dB	0°	065°	+5°	132°	+21°	2.9dB	312°K	375083 +304 Hz
2029-01-01	Monday	10:00	070°	+10°	0 dB	0°	070°	+10°	139°	+21°	2.9dB	309°K	375014 +311 Hz
2029-01-01	Monday	10:30	075°	+15°	0 dB	0°	075°	+15°	147°	+21°	2.8dB	306°K	374944 +314 Hz
2029-01-01	Monday	11:00	080°	+19°	0 dB	0°	080°	+19°	154°	+21°	2.8dB	304°K	374876 +313 Hz
2029-01-01	Monday	11:30	085°	+24°	0 dB	0°	085°	+24°	161°	+21°	2.7dB	300°K	374807 +307 Hz
2029-01-01	Monday	12:00	090°	+29°	0 dB	0°	090°	+29°	168°	+21°	2.7dB	297°K	374739 +297 Hz
2029-01-01	Monday	12:30	096°	+34°	0 dB	0°	096°	+34°	175°	+21°	2.7dB	294°K	374671 +282 Hz
2029-01-01	Monday	13:00	102°	+39°	0 dB	0°	102°	+39°	183°	+21°	2.6dB	291°K	374604 +263 Hz
2029-01-01	Monday	13:30	108°	+44°	0 dB	0°	108°	+44°	190°	+21°	2.6dB	288°K	374537 +241 Hz
2029-01-01	Monday	14:00	116°	+49°	0 dB	0°	116°	+49°	197°	+21°	2.5dB	285°K	374470 +214 Hz
2029-01-01	Monday	14:30	124°	+53°	0 dB	0°	124°	+53°	204°	+21°	2.5dB	282°K	374404 +185 Hz
2029-01-01	Monday	15:00	134°	+57°	0 dB	0°	134°	+57°	212°	+21°	2.4dB	278°K	374338 +153 Hz
2029-01-01	Monday	15:30	145°	+60°	0 dB	0°	145°	+60°	219°	+21°	2.4dB	275°K	374273 +119 Hz
2029-01-01	Monday	16:00	159°	+63°	0 dB	0°	159°	+63°	226°	+20°	2.4dB	272°K	374208 +83 Hz
2029-01-01	Monday	16:30	174°	+64°	0 dB	0°	174°	+64°	233°	+20°	2.3dB	269°K	374143 +47 Hz
2029-01-01	Monday	17:00	189°	+63°	0 dB	0°	189°	+63°	240°	+20°	2.3dB	266°K	374079 +10 Hz
2029-01-01	Monday	17:30	204°	+62°	0 dB	0°	204°	+62°	248°	+20°	2.2dB	263°K	374015 -27 Hz
2029-01-01	Monday	18:00	217°	+59°	0 dB	0°	217°	+59°	255°	+20°	2.2dB	260°K	373951 -63 Hz
2029-01-01	Monday	18:30	228°	+56°	0 dB	0°	228°	+56°	262°	+20°	2.2dB	257°K	373888 -97 Hz
2029-01-01	Monday	19:00	237°	+52°	0 dB	0°	237°	+52°	269°	+20°	2.1dB	253°K	373825 -129 Hz
2029-01-01	Monday	19:30	245°	+47°	0 dB	0°	245°	+47°	277°	+20°	2.0dB	250°K	373763 -158 Hz
2029-01-01	Monday	20:00	252°	+42°	0 dB	0°	252°	+42°	284°	+20°	2.0dB	247°K	373701 -184 Hz
2029-01-01	Monday	20:30	259°	+37°	0 dB	0°	259°	+37°	291°	+20°	2.0dB	244°K	373639 -206 Hz
2029-01-01	Monday	21:00	264°	+32°	0 dB	0°	264°	+32°	298°	+20°	1.9dB	241°K	373578 -225 Hz
2029-01-01	Monday	21:30	270°	+27°	0 dB	0°	270°	+27°	305°	+20°	1.9dB	238°K	373517 -239 Hz
2029-01-01	Monday	22:00	275°	+22°	0 dB	0°	275°	+22°	313°	+19°	1.8dB	235°K	373457 -249 Hz
2029-01-01	Monday	22:30	280°	+17°	0 dB	0°	280°	+17°	320°	+19°	1.8dB	232°K	373397 -254 Hz
2029-01-01	Monday	23:00	284°	+12°	0 dB	0°	284°	+12°	327°	+19°	1.7dB	229°K	373337 -255 Hz
2029-01-01	Monday	23:30	289°	+7°	0 dB	0°	289°	+7°	334°	+19°	1.7dB	226°K	373278 -252 Hz
2029-01-02	Tuesday	00:00	294°	+3°	0 dB	0°	294°	+3°	342°	+19°	1.7dB	225°K	373219 -244 Hz
2029-01-02	Tuesday	10:30	069°	+3°	0 dB	0°	069°	+3°	133°	+17°	1.3dB	203°K	372075 +301 Hz
2029-01-02	Tuesday	11:00	074°	+8°	0 dB	0°	074°	+8°	141°	+17°	1.2dB	202°K	372025 +307 Hz
2029-01-02	Tuesday	11:30	079°	+13°	0 dB	0°	079°	+13°	148°	+17°	1.2dB	201°K	371975 +310 Hz
2029-01-02	Tuesday	12:00	084°	+17°	0 dB	0°	084°	+17°	155°	+17°	1.2dB	200°K	371926 +308 Hz
2029-01-02	Tuesday	12:30	089°	+22°	0 dB	0°	089°	+22°	162°	+17°	1.2dB	199°K	371877 +301 Hz
2029-01-02	Tuesday	13:00	095°	+27°	0 dB	0°	095°	+27°	170°	+17°	1.2dB	198°K	371829 +290 Hz
2029-01-02	Tuesday	13:30	101°	+32°	0 dB	0°	101°	+32°	177°	+17°	1.1dB	197°K	371781 +274 Hz
2029-01-02	Tuesday	14:00	107°	+37°	0 dB	0°	107°	+37°	184°	+17°	1.1dB	196°K	371733 +254 Hz
2029-01-02	Tuesday	14:30	113°	+42°	0 dB	0°	113°	+42°	191°	+17°	1.1dB	195°K	371686 +230 Hz
2029-01-02	Tuesday	15:00	121°	+46°	0 dB	0°	121°	+46°	198°	+16°	1.1dB	194°K	371639 +202 Hz
2029-01-02	Tuesday	15:30	130°	+50°	0 dB	0°	130°	+50°	206°	+16°	1.1dB	193°K	371593 +172 Hz
2029-01-02	Tuesday	16:00	140°	+54°	0 dB	0°	140°	+54°	213°	+16°	1.0dB	192°K	371547 +138 Hz
2029-01-02	Tuesday	16:30	151°	+57°	0 dB	0°	151°	+57°	220°	+16°	1.0dB	191°K	371501 +103 Hz
2029-01-02	Tuesday	17:00	164°	+58°	0 dB	0°	164°	+58°	227°	+16°	1.0dB	190°K	371456 +66 Hz
2029-01-02	Tuesday	17:30	177°	+59°	0 dB	0°	177°	+59°	235°	+16°	1.0dB	189°K	371412 +28 Hz
2029-01-02	Tuesday	18:00	191°	+59°	0 dB	0°	191°	+59°	242°	+16°	1.0dB	188°K	371367 -10 Hz
2029-01-02	Tuesday	18:30	204°	+57°	0 dB	0°	204°	+57°	249°	+16°	0.9dB	187°K	371323 -47 Hz
2029-01-02	Tuesday	19:00	216°	+55°	0 dB	0°	216°	+55°	256°	+16°	0.9dB	186°K	371280 -84 Hz
2029-01-02	Tuesday	19:30	226°	+51°	0 dB	0°	226°	+51°	264°	+16°	0.9dB	185°K	371237 -118 Hz
2029-01-02	Tuesday	20:00	235°	+47°	0 dB	0°	235°	+47°	271°	+15°	0.9dB	184°K	371194 -150 Hz
2029-01-02	Tuesday	20:30	243°	+43°	0 dB	0°	243°	+43°	278°	+15°	0.9dB	183°K	371152 -180 Hz
2029-01-02	Tuesday	21:00	249°	+38°	0 dB	0°	249°	+38°	285°	+15°	0.8dB	182°K	371110 -206 Hz
2029-01-02	Tuesday	21:30	256°	+33°	0 dB	0°	256°	+33°	292°	+15°	0.8dB	181°K	371069 -228 Hz
2029-01-02	Tuesday	22:00	261°	+28°	0 dB	0°	261°	+28°	300°	+15°	0.8dB	180°K	371028 -246 Hz
2029-01-02	Tuesday	22:30	267°	+23°	0 dB	0°	267°	+23°	307°	+15°	0.8dB	179°K	370987 -260 Hz
2029-01-02	Tuesday	23:00	272°	+18°	0 dB	0°	272°	+18°	314°	+15°	0.8dB	178°K	370947 -269 Hz
2029-01-02	Tuesday	23:30	277°	+13°	0 dB	0°	277°	+13°	321°	+15°	0.7dB	177°K	370907 -274 Hz
2029-01-03	wednesday	00:00	282°	+8°	0 dB	0°	282°	+8°	329°	+15°	0.7dB	176°K	370868 -273 Hz
2029-01-03	wednesday	00:30	287°	+3°	0 dB	0°	287°	+3°	336°	+15°	0.7dB	175°K	370829 -269 Hz
2029-01-03	wednesday	11:30	074°	+0°	0 dB	0°	074°	+0°	135°	+12°	0.8dB	180°K	370075 +297 Hz
2029-01-03	wednesday	12:00	079°	+5°	0 dB	0°	079°	+5°	142°	+12°	0.8dB	181°K	370046 +303 Hz
2029-01-03	wednesday	12:30	084°	+10°	0 dB	0°	084°	+10°	150°	+12°	0.8dB	181°K	370016 +304 Hz
2029-01-03	wednesday	13:00	089°	+15°	0 dB	0°	089°	+15°	157°	+12°	0.8dB	181°K	369988 +301 Hz
2029-01-03	wednesday	13:30	095°	+20°	0 dB	0°	095°	+20°	164°	+12°	0.8dB	181°K	369959 +293 Hz
2029-01-03	wednesday	14:00	100°	+25°	0 dB	0°	100°	+25°	171°	+12°	0.8dB	182°K	369931 +280 Hz

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Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-03	wednesday14:30	106°	+30°	0 dB	0°	106°	+30°	179°	+11°	0.8dB	182°K	369904	+263 Hz
2029-01-03	wednesday15:00	113°	+34°	0 dB	0°	113°	+34°	186°	+11°	0.8dB	182°K	369876	+241 Hz
2029-01-03	wednesday15:30	120°	+39°	0 dB	0°	120°	+39°	193°	+11°	0.8dB	182°K	369850	+216 Hz
2029-01-03	wednesday16:00	128°	+43°	0 dB	0°	128°	+43°	200°	+11°	0.8dB	183°K	369823	+187 Hz
2029-01-03	wednesday16:30	136°	+47°	0 dB	0°	136°	+47°	208°	+11°	0.8dB	183°K	369797	+155 Hz
2029-01-03	wednesday17:00	146°	+50°	0 dB	0°	146°	+50°	215°	+11°	0.8dB	183°K	369771	+120 Hz
2029-01-03	wednesday17:30	157°	+52°	0 dB	0°	157°	+52°	222°	+11°	0.8dB	183°K	369746	+83 Hz
2029-01-03	wednesday18:00	169°	+53°	0 dB	0°	169°	+53°	229°	+11°	0.8dB	183°K	369721	+45 Hz
2029-01-03	wednesday18:30	181°	+54°	0 dB	0°	181°	+54°	236°	+11°	0.8dB	183°K	369697	+6 Hz
2029-01-03	wednesday19:00	193°	+53°	0 dB	0°	193°	+53°	244°	+10°	0.8dB	184°K	369673	-32 Hz
2029-01-03	wednesday19:30	204°	+51°	0 dB	0°	204°	+51°	251°	+10°	0.8dB	184°K	369649	-70 Hz
2029-01-03	wednesday20:00	215°	+49°	0 dB	0°	215°	+49°	258°	+10°	0.8dB	184°K	369626	-107 Hz
2029-01-03	wednesday20:30	224°	+45°	0 dB	0°	224°	+45°	265°	+10°	0.8dB	184°K	369603	-142 Hz
2029-01-03	wednesday21:00	233°	+41°	0 dB	0°	233°	+41°	273°	+10°	0.8dB	184°K	369581	-174 Hz
2029-01-03	wednesday21:30	240°	+37°	0 dB	0°	240°	+37°	280°	+10°	0.8dB	184°K	369559	-203 Hz
2029-01-03	wednesday22:00	247°	+33°	0 dB	0°	247°	+33°	287°	+10°	0.8dB	185°K	369537	-228 Hz
2029-01-03	wednesday22:30	253°	+28°	0 dB	0°	253°	+28°	294°	+10°	0.8dB	185°K	369516	-250 Hz
2029-01-03	wednesday23:00	259°	+23°	0 dB	0°	259°	+23°	302°	+9°	0.8dB	185°K	369495	-267 Hz
2029-01-03	wednesday23:30	264°	+18°	0 dB	0°	264°	+18°	309°	+9°	0.8dB	185°K	369474	-280 Hz
2029-01-04	Thursday 00:00	269°	+13°	0 dB	0°	269°	+13°	316°	+9°	0.8dB	185°K	369454	-287 Hz
2029-01-04	Thursday 00:30	274°	+7°	0 dB	0°	274°	+7°	323°	+9°	0.8dB	185°K	369434	-291 Hz
2029-01-04	Thursday 01:00	280°	+2°	0 dB	0°	280°	+2°	331°	+9°	0.8dB	186°K	369415	-289 Hz
2029-01-04	Thursday 13:00	085°	+2°	0 dB	0°	085°	+2°	145°	+6°	0.9dB	192°K	369061	+297 Hz
2029-01-04	Thursday 13:30	090°	+7°	0 dB	0°	090°	+7°	152°	+6°	0.9dB	192°K	369051	+297 Hz
2029-01-04	Thursday 14:00	095°	+12°	0 dB	0°	095°	+12°	159°	+6°	0.9dB	193°K	369041	+292 Hz
2029-01-04	Thursday 14:30	101°	+17°	0 dB	0°	101°	+17°	166°	+6°	0.9dB	193°K	369032	+282 Hz
2029-01-04	Thursday 15:00	107°	+22°	0 dB	0°	107°	+22°	174°	+6°	0.9dB	193°K	369023	+268 Hz
2029-01-04	Thursday 15:30	113°	+27°	0 dB	0°	113°	+27°	181°	+5°	1.0dB	194°K	369014	+249 Hz
2029-01-04	Thursday 16:00	119°	+31°	0 dB	0°	119°	+31°	188°	+5°	1.0dB	194°K	369005	+226 Hz
2029-01-04	Thursday 16:30	127°	+35°	0 dB	0°	127°	+35°	195°	+5°	1.0dB	194°K	368997	+199 Hz
2029-01-04	Thursday 17:00	134°	+39°	0 dB	0°	134°	+39°	203°	+5°	1.0dB	195°K	368990	+168 Hz
2029-01-04	Thursday 17:30	143°	+42°	0 dB	0°	143°	+42°	210°	+5°	1.0dB	195°K	368982	+135 Hz
2029-01-04	Thursday 18:00	152°	+45°	0 dB	0°	152°	+45°	217°	+5°	1.0dB	195°K	368975	+99 Hz
2029-01-04	Thursday 18:30	163°	+47°	0 dB	0°	163°	+47°	224°	+5°	1.0dB	196°K	368969	+61 Hz
2029-01-04	Thursday 19:00	173°	+48°	0 dB	0°	173°	+48°	232°	+5°	1.0dB	196°K	368962	+22 Hz
2029-01-04	Thursday 19:30	184°	+48°	0 dB	0°	184°	+48°	239°	+4°	1.0dB	196°K	368956	-17 Hz
2029-01-04	Thursday 20:00	195°	+47°	0 dB	0°	195°	+47°	246°	+4°	1.0dB	197°K	368951	-56 Hz
2029-01-04	Thursday 20:30	205°	+45°	0 dB	0°	205°	+45°	253°	+4°	1.0dB	197°K	368945	-94 Hz
2029-01-04	Thursday 21:00	214°	+42°	0 dB	0°	214°	+42°	261°	+4°	1.0dB	197°K	368940	-131 Hz
2029-01-04	Thursday 21:30	223°	+39°	0 dB	0°	223°	+39°	268°	+4°	1.0dB	198°K	368936	-165 Hz
2029-01-04	Thursday 22:00	231°	+35°	0 dB	0°	231°	+35°	275°	+4°	1.0dB	198°K	368931	-196 Hz
2029-01-04	Thursday 22:30	238°	+31°	0 dB	0°	238°	+31°	282°	+4°	1.0dB	198°K	368927	-224 Hz
2029-01-04	Thursday 23:00	244°	+26°	0 dB	0°	244°	+26°	290°	+4°	1.0dB	198°K	368924	-248 Hz
2029-01-04	Thursday 23:30	250°	+21°	0 dB	0°	250°	+21°	297°	+3°	1.0dB	199°K	368920	-269 Hz
2029-01-05	Friday 00:00	256°	+17°	0 dB	0°	256°	+17°	304°	+3°	1.0dB	199°K	368917	-284 Hz
2029-01-05	Friday 00:30	261°	+12°	0 dB	0°	261°	+12°	311°	+3°	1.0dB	199°K	368915	-295 Hz
2029-01-05	Friday 01:00	267°	+6°	0 dB	0°	267°	+6°	319°	+3°	1.1dB	200°K	368912	-301 Hz
2029-01-05	Friday 01:30	272°	+1°	0 dB	0°	272°	+1°	326°	+3°	1.1dB	200°K	368910	-303 Hz
2029-01-05	Friday 14:00	091°	-0°	0 dB	0°	091°	-0°	147°	-0°	1.2dB	208°K	368962	+290 Hz
2029-01-05	Friday 14:30	096°	+5°	0 dB	0°	096°	+5°	154°	-0°	1.2dB	208°K	368968	+288 Hz
2029-01-05	Friday 15:00	102°	+9°	0 dB	0°	102°	+9°	162°	-0°	1.2dB	208°K	368975	+281 Hz
2029-01-05	Friday 15:30	107°	+14°	0 dB	0°	107°	+14°	169°	-1°	1.2dB	209°K	368981	+269 Hz
2029-01-05	Friday 16:00	113°	+19°	0 dB	0°	113°	+19°	176°	-1°	1.2dB	209°K	368988	+253 Hz
2029-01-05	Friday 16:30	119°	+23°	0 dB	0°	119°	+23°	183°	-1°	1.2dB	209°K	368995	+233 Hz
2029-01-05	Friday 17:00	126°	+27°	0 dB	0°	126°	+27°	191°	-1°	1.2dB	210°K	369003	+208 Hz
2029-01-05	Friday 17:30	133°	+31°	0 dB	0°	133°	+31°	198°	-1°	1.2dB	210°K	369010	+180 Hz
2029-01-05	Friday 18:00	141°	+35°	0 dB	0°	141°	+35°	205°	-1°	1.2dB	210°K	369018	+148 Hz
2029-01-05	Friday 18:30	149°	+37°	0 dB	0°	149°	+37°	212°	-1°	1.2dB	211°K	369027	+113 Hz
2029-01-05	Friday 19:00	158°	+39°	0 dB	0°	158°	+39°	220°	-1°	1.2dB	211°K	369035	+77 Hz
2029-01-05	Friday 19:30	168°	+41°	0 dB	0°	168°	+41°	227°	-2°	1.2dB	211°K	369044	+39 Hz
2029-01-05	Friday 20:00	177°	+41°	0 dB	0°	177°	+41°	234°	-2°	1.3dB	212°K	369053	0 Hz
2029-01-05	Friday 20:30	187°	+41°	0 dB	0°	187°	+41°	241°	-2°	1.3dB	212°K	369063	-40 Hz
2029-01-05	Friday 21:00	197°	+40°	0 dB	0°	197°	+40°	249°	-2°	1.3dB	212°K	369072	-78 Hz
2029-01-05	Friday 21:30	206°	+38°	0 dB	0°	206°	+38°	256°	-2°	1.3dB	212°K	369082	-116 Hz
2029-01-05	Friday 22:00	214°	+35°	0 dB	0°	214°	+35°	263°	-2°	1.3dB	214°K	369092	-151 Hz
2029-01-05	Friday 22:30	222°	+32°	0 dB	0°	222°	+32°	270°	-2°	1.3dB	215°K	369103	-184 Hz

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Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-05	Friday	23:00	229°	+28°	0 dB	0°	229°	+28°	278°	-2°	1.3dB	217°K	369114	-214 Hz
2029-01-05	Friday	23:30	236°	+24°	0 dB	0°	236°	+24°	285°	-3°	1.4dB	219°K	369125	-241 Hz
2029-01-06	Saturday	00:00	242°	+20°	0 dB	0°	242°	+20°	292°	-3°	1.4dB	220°K	369136	-263 Hz
2029-01-06	Saturday	00:30	248°	+15°	0 dB	0°	248°	+15°	299°	-3°	1.4dB	222°K	369148	-282 Hz
2029-01-06	Saturday	01:00	254°	+10°	0 dB	0°	254°	+10°	307°	-3°	1.5dB	224°K	369159	-296 Hz
2029-01-06	Saturday	01:30	259°	+5°	0 dB	0°	259°	+5°	314°	-3°	1.5dB	226°K	369171	-305 Hz
2029-01-06	Saturday	02:00	264°	+0°	0 dB	0°	264°	+0°	321°	-3°	1.5dB	227°K	369184	-309 Hz
2029-01-06	Saturday	15:30	102°	+2°	0 dB	0°	102°	+2°	157°	-7°	2.2dB	275°K	369610	+276 Hz
2029-01-06	Saturday	16:00	108°	+6°	0 dB	0°	108°	+6°	164°	-7°	2.2dB	277°K	369629	+268 Hz
2029-01-06	Saturday	16:30	113°	+11°	0 dB	0°	113°	+11°	171°	-7°	2.2dB	279°K	369649	+254 Hz
2029-01-06	Saturday	17:00	119°	+16°	0 dB	0°	119°	+16°	179°	-7°	2.3dB	281°K	369668	+237 Hz
2029-01-06	Saturday	17:30	126°	+20°	0 dB	0°	126°	+20°	186°	-7°	2.3dB	283°K	369688	+215 Hz
2029-01-06	Saturday	18:00	132°	+23°	0 dB	0°	132°	+23°	193°	-7°	2.3dB	284°K	369708	+189 Hz
2029-01-06	Saturday	18:30	139°	+27°	0 dB	0°	139°	+27°	200°	-7°	2.3dB	286°K	369728	+160 Hz
2029-01-06	Saturday	19:00	147°	+30°	0 dB	0°	147°	+30°	208°	-7°	2.4dB	288°K	369749	+127 Hz
2029-01-06	Saturday	19:30	155°	+32°	0 dB	0°	155°	+32°	215°	-8°	2.4dB	290°K	369769	+93 Hz
2029-01-06	Saturday	20:00	163°	+34°	0 dB	0°	163°	+34°	222°	-8°	2.4dB	292°K	369790	+56 Hz
2029-01-06	Saturday	20:30	172°	+35°	0 dB	0°	172°	+35°	229°	-8°	2.4dB	294°K	369811	+18 Hz
2029-01-06	Saturday	21:00	181°	+35°	0 dB	0°	181°	+35°	237°	-8°	2.5dB	296°K	369833	-21 Hz
2029-01-06	Saturday	21:30	190°	+35°	0 dB	0°	190°	+35°	244°	-8°	2.5dB	298°K	369854	-59 Hz
2029-01-06	Saturday	22:00	198°	+33°	0 dB	0°	198°	+33°	251°	-8°	2.5dB	300°K	369876	-97 Hz
2029-01-06	Saturday	22:30	206°	+31°	0 dB	0°	206°	+31°	258°	-8°	2.5dB	301°K	369898	-133 Hz
2029-01-06	Saturday	23:00	214°	+28°	0 dB	0°	214°	+28°	266°	-8°	2.6dB	303°K	369920	-167 Hz
2029-01-06	Saturday	23:30	221°	+25°	0 dB	0°	221°	+25°	273°	-9°	2.6dB	305°K	369942	-199 Hz
2029-01-07	Sunday	00:00	228°	+22°	0 dB	0°	228°	+22°	280°	-9°	2.6dB	307°K	369965	-227 Hz
2029-01-07	Sunday	00:30	234°	+18°	0 dB	0°	234°	+18°	287°	-9°	2.6dB	309°K	369988	-252 Hz
2029-01-07	Sunday	01:00	240°	+13°	0 dB	0°	240°	+13°	295°	-9°	2.7dB	311°K	370011	-272 Hz
2029-01-07	Sunday	01:30	246°	+9°	0 dB	0°	246°	+9°	302°	-9°	2.7dB	313°K	370034	-289 Hz
2029-01-07	Sunday	02:00	251°	+4°	0 dB	0°	251°	+4°	309°	-9°	2.7dB	313°K	370057	-301 Hz
2029-01-07	Sunday	17:00	113°	+4°	0 dB	0°	113°	+4°	166°	-13°	2.7dB	311°K	370849	+253 Hz
2029-01-07	Sunday	17:30	119°	+8°	0 dB	0°	119°	+8°	174°	-13°	2.7dB	311°K	370879	+239 Hz
2029-01-07	Sunday	18:00	125°	+12°	0 dB	0°	125°	+12°	181°	-13°	2.7dB	311°K	370908	+220 Hz
2029-01-07	Sunday	18:30	131°	+16°	0 dB	0°	131°	+16°	188°	-13°	2.7dB	310°K	370938	+197 Hz
2029-01-07	Sunday	19:00	137°	+20°	0 dB	0°	137°	+20°	195°	-13°	2.7dB	310°K	370967	+171 Hz
2029-01-07	Sunday	19:30	144°	+23°	0 dB	0°	144°	+23°	203°	-13°	2.7dB	310°K	370997	+141 Hz
2029-01-07	Sunday	20:00	151°	+25°	0 dB	0°	151°	+25°	210°	-13°	2.7dB	310°K	371028	+109 Hz
2029-01-07	Sunday	20:30	159°	+27°	0 dB	0°	159°	+27°	217°	-13°	2.7dB	309°K	371058	+74 Hz
2029-01-07	Sunday	21:00	167°	+29°	0 dB	0°	167°	+29°	224°	-13°	2.7dB	309°K	371088	+38 Hz
2029-01-07	Sunday	21:30	175°	+29°	0 dB	0°	175°	+29°	232°	-14°	2.7dB	309°K	371119	+1 Hz
2029-01-07	Sunday	22:00	183°	+29°	0 dB	0°	183°	+29°	239°	-14°	2.7dB	308°K	371150	-37 Hz
2029-01-07	Sunday	22:30	191°	+29°	0 dB	0°	191°	+29°	246°	-14°	2.7dB	308°K	371181	-74 Hz
2029-01-07	Sunday	23:00	199°	+27°	0 dB	0°	199°	+27°	253°	-14°	2.7dB	308°K	371212	-110 Hz
2029-01-07	Sunday	23:30	207°	+25°	0 dB	0°	207°	+25°	261°	-14°	2.7dB	307°K	371243	-145 Hz
2029-01-08	Monday	00:00	214°	+22°	0 dB	0°	214°	+22°	268°	-14°	2.7dB	307°K	371275	-178 Hz
2029-01-08	Monday	00:30	221°	+19°	0 dB	0°	221°	+19°	275°	-14°	2.7dB	307°K	371307	-207 Hz
2029-01-08	Monday	01:00	227°	+16°	0 dB	0°	227°	+16°	282°	-14°	2.7dB	306°K	371339	-234 Hz
2029-01-08	Monday	01:30	233°	+12°	0 dB	0°	233°	+12°	290°	-14°	2.7dB	306°K	371371	-257 Hz
2029-01-08	Monday	02:00	239°	+7°	0 dB	0°	239°	+7°	297°	-14°	2.7dB	306°K	371403	-275 Hz
2029-01-08	Monday	02:30	244°	+3°	0 dB	0°	244°	+3°	304°	-15°	2.6dB	305°K	371435	-290 Hz
2029-01-08	Monday	18:00	118°	+1°	0 dB	0°	118°	+1°	168°	-18°	3.0dB	327°K	372519	+239 Hz
2029-01-08	Monday	18:30	123°	+5°	0 dB	0°	123°	+5°	176°	-18°	3.0dB	328°K	372556	+224 Hz
2029-01-08	Monday	19:00	129°	+9°	0 dB	0°	129°	+9°	183°	-18°	3.0dB	330°K	372594	+204 Hz
2029-01-08	Monday	19:30	135°	+13°	0 dB	0°	135°	+13°	190°	-18°	3.0dB	331°K	372632	+181 Hz
2029-01-08	Monday	20:00	141°	+16°	0 dB	0°	141°	+16°	197°	-18°	3.0dB	332°K	372669	+155 Hz
2029-01-08	Monday	20:30	148°	+19°	0 dB	0°	148°	+19°	204°	-18°	3.0dB	334°K	372708	+126 Hz
2029-01-08	Monday	21:00	155°	+21°	0 dB	0°	155°	+21°	212°	-18°	3.1dB	335°K	372746	+94 Hz
2029-01-08	Monday	21:30	162°	+23°	0 dB	0°	162°	+23°	219°	-18°	3.1dB	336°K	372784	+60 Hz
2029-01-08	Monday	22:00	170°	+24°	0 dB	0°	170°	+24°	226°	-18°	3.1dB	338°K	372823	+24 Hz
2029-01-08	Monday	22:30	177°	+24°	0 dB	0°	177°	+24°	233°	-18°	3.1dB	339°K	372861	-12 Hz
2029-01-08	Monday	23:00	185°	+24°	0 dB	0°	185°	+24°	241°	-19°	3.1dB	341°K	372900	-48 Hz
2029-01-08	Monday	23:30	192°	+23°	0 dB	0°	192°	+23°	248°	-19°	3.1dB	342°K	372939	-84 Hz
2029-01-09	Tuesday	00:00	200°	+22°	0 dB	0°	200°	+22°	255°	-19°	3.2dB	343°K	372978	-119 Hz
2029-01-09	Tuesday	00:30	207°	+20°	0 dB	0°	207°	+20°	262°	-19°	3.2dB	345°K	373018	-152 Hz
2029-01-09	Tuesday	01:00	213°	+17°	0 dB	0°	213°	+17°	269°	-19°	3.2dB	346°K	373057	-183 Hz
2029-01-09	Tuesday	01:30	220°	+14°	0 dB	0°	220°	+14°	277°	-19°	3.2dB	347°K	373097	-211 Hz
2029-01-09	Tuesday	02:00	226°	+11°	0 dB	0°	226°	+11°	284°	-19°	3.2dB	349°K	373137	-236 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-09	Tuesday	02:30	232°	+7°	0 dB	0°	232°	+7°	291°	-19°	3.2dB	350°K	373177	-257 Hz
2029-01-09	Tuesday	03:00	237°	+3°	0 dB	0°	237°	+3°	298°	-19°	3.2dB	351°K	373217	-275 Hz
2029-01-09	Tuesday	19:30	127°	+3°	0 dB	0°	127°	+3°	177°	-22°	3.7dB	392°K	374624	+211 Hz
2029-01-09	Tuesday	20:00	132°	+6°	0 dB	0°	132°	+6°	184°	-22°	3.7dB	393°K	374669	+192 Hz
2029-01-09	Tuesday	20:30	138°	+10°	0 dB	0°	138°	+10°	191°	-22°	3.7dB	394°K	374714	+169 Hz
2029-01-09	Tuesday	21:00	144°	+13°	0 dB	0°	144°	+13°	198°	-22°	3.8dB	395°K	374760	+143 Hz
2029-01-09	Tuesday	21:30	151°	+16°	0 dB	0°	151°	+16°	206°	-22°	3.8dB	397°K	374805	+114 Hz
2029-01-09	Tuesday	22:00	157°	+18°	0 dB	0°	157°	+18°	213°	-22°	3.8dB	398°K	374851	+82 Hz
2029-01-09	Tuesday	22:30	164°	+19°	0 dB	0°	164°	+19°	220°	-22°	3.8dB	399°K	374897	+49 Hz
2029-01-09	Tuesday	23:00	171°	+20°	0 dB	0°	171°	+20°	227°	-22°	3.8dB	400°K	374943	+15 Hz
2029-01-09	Tuesday	23:30	178°	+21°	0 dB	0°	178°	+21°	234°	-22°	3.8dB	401°K	374990	-21 Hz
2029-01-10	wednesday	00:00	186°	+20°	0 dB	0°	186°	+20°	242°	-22°	3.8dB	402°K	375036	-56 Hz
2029-01-10	wednesday	00:30	193°	+20°	0 dB	0°	193°	+20°	249°	-22°	3.9dB	403°K	375083	-91 Hz
2029-01-10	wednesday	01:00	200°	+18°	0 dB	0°	200°	+18°	256°	-22°	3.9dB	404°K	375129	-124 Hz
2029-01-10	wednesday	01:30	206°	+16°	0 dB	0°	206°	+16°	263°	-22°	3.9dB	405°K	375176	-156 Hz
2029-01-10	wednesday	02:00	213°	+14°	0 dB	0°	213°	+14°	271°	-22°	3.9dB	406°K	375223	-186 Hz
2029-01-10	wednesday	02:30	219°	+11°	0 dB	0°	219°	+11°	278°	-23°	3.9dB	407°K	375270	-213 Hz
2029-01-10	wednesday	03:00	225°	+7°	0 dB	0°	225°	+7°	285°	-23°	3.9dB	408°K	375318	-236 Hz
2029-01-10	wednesday	03:30	230°	+3°	0 dB	0°	230°	+3°	292°	-23°	3.9dB	409°K	375365	-257 Hz
2029-01-10	wednesday	20:30	129°	+1°	0 dB	0°	129°	+1°	177°	-24°	4.7dB	490°K	377072	+201 Hz
2029-01-10	wednesday	21:00	134°	+5°	0 dB	0°	134°	+5°	185°	-24°	4.7dB	495°K	377125	+182 Hz
2029-01-10	wednesday	21:30	140°	+8°	0 dB	0°	140°	+8°	192°	-24°	4.8dB	501°K	377178	+160 Hz
2029-01-10	wednesday	22:00	146°	+11°	0 dB	0°	146°	+11°	199°	-24°	4.8dB	506°K	377231	+134 Hz
2029-01-10	wednesday	22:30	152°	+14°	0 dB	0°	152°	+14°	206°	-24°	4.9dB	512°K	377284	+105 Hz
2029-01-10	wednesday	23:00	159°	+16°	0 dB	0°	159°	+16°	213°	-24°	4.9dB	517°K	377338	+75 Hz
2029-01-10	wednesday	23:30	165°	+17°	0 dB	0°	165°	+17°	221°	-24°	5.0dB	522°K	377392	+42 Hz
2029-01-11	Thursday	00:00	172°	+18°	0 dB	0°	172°	+18°	228°	-24°	5.0dB	528°K	377446	+8 Hz
2029-01-11	Thursday	00:30	179°	+18°	0 dB	0°	179°	+18°	235°	-24°	5.0dB	533°K	377500	-26 Hz
2029-01-11	Thursday	01:00	186°	+18°	0 dB	0°	186°	+18°	242°	-25°	5.1dB	539°K	377554	-61 Hz
2029-01-11	Thursday	01:30	193°	+17°	0 dB	0°	193°	+17°	250°	-25°	5.1dB	544°K	377608	-95 Hz
2029-01-11	Thursday	02:00	200°	+16°	0 dB	0°	200°	+16°	257°	-25°	5.2dB	550°K	377663	-128 Hz
2029-01-11	Thursday	02:30	206°	+14°	0 dB	0°	206°	+14°	264°	-25°	5.2dB	555°K	377717	-159 Hz
2029-01-11	Thursday	03:00	212°	+11°	0 dB	0°	212°	+11°	271°	-25°	5.2dB	560°K	377772	-188 Hz
2029-01-11	Thursday	03:30	218°	+8°	0 dB	0°	218°	+8°	278°	-25°	5.3dB	566°K	377827	-214 Hz
2029-01-11	Thursday	04:00	224°	+5°	0 dB	0°	224°	+5°	286°	-25°	5.3dB	571°K	377882	-237 Hz
2029-01-11	Thursday	04:30	230°	+1°	0 dB	0°	230°	+1°	293°	-25°	5.4dB	577°K	377938	-257 Hz
2029-01-11	Thursday	21:30	130°	+0°	0 dB	0°	130°	+0°	178°	-25°	7.6dB	993°K	379913	+195 Hz
2029-01-11	Thursday	22:00	135°	+4°	0 dB	0°	135°	+4°	185°	-25°	7.8dB	1024°K	379973	+176 Hz
2029-01-11	Thursday	22:30	141°	+7°	0 dB	0°	141°	+7°	192°	-25°	7.9dB	1055°K	380034	+154 Hz
2029-01-11	Thursday	23:00	147°	+10°	0 dB	0°	147°	+10°	200°	-25°	8.0dB	1085°K	380096	+128 Hz
2029-01-11	Thursday	23:30	153°	+13°	0 dB	0°	153°	+13°	207°	-25°	8.1dB	1116°K	380157	+100 Hz
2029-01-12	Friday	00:00	159°	+15°	0 dB	0°	159°	+15°	214°	-25°	8.2dB	1146°K	380218	+69 Hz
2029-01-12	Friday	00:30	166°	+16°	0 dB	0°	166°	+16°	221°	-25°	8.4dB	1177°K	380280	+37 Hz
2029-01-12	Friday	01:00	173°	+17°	0 dB	0°	173°	+17°	228°	-25°	8.5dB	1208°K	380342	+3 Hz
2029-01-12	Friday	01:30	180°	+18°	0 dB	0°	180°	+18°	236°	-25°	8.6dB	1238°K	380404	-31 Hz
2029-01-12	Friday	02:00	186°	+17°	0 dB	0°	186°	+17°	243°	-25°	8.7dB	1269°K	380466	-65 Hz
2029-01-12	Friday	02:30	193°	+17°	0 dB	0°	193°	+17°	250°	-25°	8.8dB	1299°K	380528	-99 Hz
2029-01-12	Friday	03:00	200°	+15°	0 dB	0°	200°	+15°	257°	-25°	8.9dB	1330°K	380591	-131 Hz
2029-01-12	Friday	03:30	206°	+13°	0 dB	0°	206°	+13°	264°	-25°	9.0dB	1361°K	380653	-162 Hz
2029-01-12	Friday	04:00	213°	+11°	0 dB	0°	213°	+11°	272°	-25°	9.1dB	1391°K	380716	-191 Hz
2029-01-12	Friday	04:30	218°	+8°	0 dB	0°	218°	+8°	279°	-25°	9.2dB	1422°K	380779	-217 Hz
2029-01-12	Friday	05:00	224°	+5°	0 dB	0°	224°	+5°	286°	-25°	9.3dB	1452°K	380842	-240 Hz
2029-01-12	Friday	05:30	230°	+1°	0 dB	0°	230°	+1°	293°	-25°	9.3dB	1483°K	380905	-259 Hz
2029-01-12	Friday	22:30	130°	+1°	0 dB	0°	130°	+1°	179°	-25°	12.5dB	3039°K	383144	+193 Hz
2029-01-12	Friday	23:00	135°	+5°	0 dB	0°	135°	+5°	186°	-25°	12.4dB	2990°K	383212	+174 Hz
2029-01-12	Friday	23:30	141°	+8°	0 dB	0°	141°	+8°	193°	-25°	12.3dB	2940°K	383281	+151 Hz
2029-01-13	Saturday	00:00	147°	+11°	0 dB	0°	147°	+11°	200°	-24°	12.3dB	2891°K	383349	+125 Hz
2029-01-13	Saturday	00:30	153°	+14°	0 dB	0°	153°	+14°	207°	-24°	12.2dB	2842°K	383418	+96 Hz
2029-01-13	Saturday	01:00	160°	+16°	0 dB	0°	160°	+16°	215°	-24°	12.1dB	2793°K	383487	+65 Hz
2029-01-13	Saturday	01:30	166°	+17°	0 dB	0°	166°	+17°	222°	-24°	12.1dB	2744°K	383556	+32 Hz
2029-01-13	Saturday	02:00	173°	+18°	0 dB	0°	173°	+18°	229°	-24°	12.0dB	2695°K	383625	-2 Hz
2029-01-13	Saturday	02:30	180°	+19°	0 dB	0°	180°	+19°	236°	-24°	11.9dB	2646°K	383695	-36 Hz
2029-01-13	Saturday	03:00	187°	+18°	0 dB	0°	187°	+18°	244°	-24°	11.8dB	2597°K	383764	-71 Hz
2029-01-13	Saturday	03:30	194°	+17°	0 dB	0°	194°	+17°	251°	-24°	11.8dB	2548°K	383834	-105 Hz
2029-01-13	Saturday	04:00	201°	+16°	0 dB	0°	201°	+16°	258°	-24°	11.7dB	2500°K	383903	-138 Hz
2029-01-13	Saturday	04:30	207°	+14°	0 dB	0°	207°	+14°	265°	-24°	11.6dB	2451°K	383973	-169 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-13	Saturday	05:00	214°	+11°	0 dB	0°	214°	+11°	272°	-24°	11.5dB	2402°K	384043 -198 Hz
2029-01-13	Saturday	05:30	220°	+8°	0 dB	0°	220°	+8°	280°	-24°	11.4dB	2353°K	384113 -224 Hz
2029-01-13	Saturday	06:00	225°	+5°	0 dB	0°	225°	+5°	287°	-24°	11.3dB	2305°K	384184 -247 Hz
2029-01-13	Saturday	06:30	231°	+1°	0 dB	0°	231°	+1°	294°	-24°	11.3dB	2256°K	384254 -266 Hz
2029-01-13	Saturday	23:00	124°	-0°	0 dB	0°	124°	-0°	173°	-23°	7.1dB	815°K	386643 +209 Hz
2029-01-13	Saturday	23:30	130°	+4°	0 dB	0°	130°	+4°	180°	-22°	7.1dB	802°K	386717 +193 Hz
2029-01-14	Sunday	00:00	135°	+7°	0 dB	0°	135°	+7°	187°	-22°	7.0dB	789°K	386791 +172 Hz
2029-01-14	Sunday	00:30	141°	+11°	0 dB	0°	141°	+11°	194°	-22°	6.9dB	775°K	386866 +148 Hz
2029-01-14	Sunday	01:00	147°	+14°	0 dB	0°	147°	+14°	201°	-22°	6.9dB	762°K	386940 +121 Hz
2029-01-14	Sunday	01:30	154°	+16°	0 dB	0°	154°	+16°	209°	-22°	6.8dB	748°K	387015 +92 Hz
2029-01-14	Sunday	02:00	160°	+18°	0 dB	0°	160°	+18°	216°	-22°	6.7dB	735°K	387090 +60 Hz
2029-01-14	Sunday	02:30	167°	+20°	0 dB	0°	167°	+20°	223°	-22°	6.7dB	SUN!	387164 +26 Hz
2029-01-14	Sunday	03:00	174°	+21°	0 dB	0°	174°	+21°	230°	-22°	6.6dB	SUN!	387239 -9 Hz
2029-01-14	Sunday	03:30	182°	+21°	0 dB	0°	182°	+21°	238°	-22°	6.5dB	SUN!	387314 -44 Hz
2029-01-14	Sunday	04:00	189°	+21°	0 dB	0°	189°	+21°	245°	-22°	6.5dB	SUN!	387389 -80 Hz
2029-01-14	Sunday	04:30	196°	+19°	0 dB	0°	196°	+19°	252°	-22°	6.4dB	SUN!	387464 -114 Hz
2029-01-14	Sunday	05:00	203°	+18°	0 dB	0°	203°	+18°	259°	-22°	6.3dB	SUN!	387539 -148 Hz
2029-01-14	Sunday	05:30	209°	+16°	0 dB	0°	209°	+16°	267°	-22°	6.2dB	SUN!	387614 -179 Hz
2029-01-14	Sunday	06:00	216°	+13°	0 dB	0°	216°	+13°	274°	-22°	6.2dB	SUN!	387690 -208 Hz
2029-01-14	Sunday	06:30	222°	+10°	0 dB	0°	222°	+10°	281°	-22°	6.1dB	SUN!	387765 -235 Hz
2029-01-14	Sunday	07:00	228°	+6°	0 dB	0°	228°	+6°	288°	-22°	6.0dB	SUN!	387840 -257 Hz
2029-01-14	Sunday	07:30	233°	+3°	0 dB	0°	233°	+3°	296°	-22°	5.9dB	SUN!	387916 -277 Hz
2029-01-15	Monday	00:00	124°	+3°	0 dB	0°	124°	+3°	175°	-19°	4.2dB	SUN!	390439 +211 Hz
2029-01-15	Monday	00:30	129°	+7°	0 dB	0°	129°	+7°	182°	-19°	4.2dB	SUN!	390517 +193 Hz
2029-01-15	Monday	01:00	135°	+11°	0 dB	0°	135°	+11°	189°	-19°	4.2dB	SUN!	390594 +171 Hz
2029-01-15	Monday	01:30	141°	+15°	0 dB	0°	141°	+15°	196°	-19°	4.2dB	SUN!	390671 +145 Hz
2029-01-15	Monday	02:00	148°	+18°	0 dB	0°	148°	+18°	204°	-19°	4.2dB	SUN!	390748 +117 Hz
2029-01-15	Monday	02:30	154°	+20°	0 dB	0°	154°	+20°	211°	-19°	4.1dB	SUN!	390825 +85 Hz
2029-01-15	Monday	03:00	161°	+22°	0 dB	0°	161°	+22°	218°	-19°	4.1dB	SUN!	390902 +52 Hz
2029-01-15	Monday	03:30	169°	+24°	0 dB	0°	169°	+24°	225°	-19°	4.1dB	SUN!	390979 +17 Hz
2029-01-15	Monday	04:00	176°	+24°	0 dB	0°	176°	+24°	233°	-19°	4.1dB	SUN!	391057 -19 Hz
2029-01-15	Monday	04:30	184°	+24°	0 dB	0°	184°	+24°	240°	-19°	4.1dB	SUN!	391134 -56 Hz
2029-01-15	Monday	05:00	192°	+24°	0 dB	0°	192°	+24°	247°	-18°	4.1dB	SUN!	391211 -92 Hz
2029-01-15	Monday	05:30	199°	+23°	0 dB	0°	199°	+23°	254°	-18°	4.1dB	SUN!	391288 -127 Hz
2029-01-15	Monday	06:00	206°	+21°	0 dB	0°	206°	+21°	262°	-18°	4.1dB	SUN!	391365 -161 Hz
2029-01-15	Monday	06:30	213°	+18°	0 dB	0°	213°	+18°	269°	-18°	4.0dB	SUN!	391442 -193 Hz
2029-01-15	Monday	07:00	220°	+15°	0 dB	0°	220°	+15°	276°	-18°	4.0dB	SUN!	391520 -222 Hz
2029-01-15	Monday	07:30	226°	+12°	0 dB	0°	226°	+12°	283°	-18°	4.0dB	SUN!	391597 -248 Hz
2029-01-15	Monday	08:00	232°	+8°	0 dB	0°	232°	+8°	291°	-18°	4.0dB	SUN!	391674 -270 Hz
2029-01-15	Monday	08:30	237°	+4°	0 dB	0°	237°	+4°	298°	-18°	4.0dB	SUN!	391751 -289 Hz
2029-01-15	Monday	09:00	243°	-0°	0 dB	0°	243°	-0°	305°	-18°	4.0dB	SUN!	391828 -303 Hz
2029-01-16	Tuesday	00:30	118°	+4°	0 dB	0°	118°	+4°	170°	-15°	3.9dB	326°K	394202 +228 Hz
2029-01-16	Tuesday	01:00	123°	+8°	0 dB	0°	123°	+8°	177°	-15°	3.9dB	326°K	394277 +212 Hz
2029-01-16	Tuesday	01:30	129°	+13°	0 dB	0°	129°	+13°	185°	-15°	3.9dB	326°K	394353 +192 Hz
2029-01-16	Tuesday	02:00	135°	+16°	0 dB	0°	135°	+16°	192°	-15°	3.9dB	326°K	394428 +168 Hz
2029-01-16	Tuesday	02:30	142°	+20°	0 dB	0°	142°	+20°	199°	-15°	3.9dB	326°K	394504 +141 Hz
2029-01-16	Tuesday	03:00	149°	+23°	0 dB	0°	149°	+23°	207°	-15°	3.9dB	326°K	394579 +110 Hz
2029-01-16	Tuesday	03:30	156°	+25°	0 dB	0°	156°	+25°	214°	-15°	3.9dB	326°K	394654 +77 Hz
2029-01-16	Tuesday	04:00	164°	+27°	0 dB	0°	164°	+27°	221°	-14°	3.9dB	326°K	394729 +41 Hz
2029-01-16	Tuesday	04:30	171°	+28°	0 dB	0°	171°	+28°	228°	-14°	4.0dB	326°K	394804 +5 Hz
2029-01-16	Tuesday	05:00	180°	+29°	0 dB	0°	180°	+29°	236°	-14°	4.0dB	326°K	394879 -33 Hz
2029-01-16	Tuesday	05:30	188°	+29°	0 dB	0°	188°	+29°	243°	-14°	4.0dB	326°K	394954 -70 Hz
2029-01-16	Tuesday	06:00	196°	+28°	0 dB	0°	196°	+28°	250°	-14°	4.0dB	326°K	395029 -107 Hz
2029-01-16	Tuesday	06:30	203°	+26°	0 dB	0°	203°	+26°	257°	-14°	4.0dB	326°K	395103 -143 Hz
2029-01-16	Tuesday	07:00	211°	+24°	0 dB	0°	211°	+24°	265°	-14°	4.0dB	326°K	395178 -177 Hz
2029-01-16	Tuesday	07:30	218°	+21°	0 dB	0°	218°	+21°	272°	-14°	4.0dB	326°K	395252 -208 Hz
2029-01-16	Tuesday	08:00	225°	+18°	0 dB	0°	225°	+18°	279°	-14°	4.0dB	326°K	395327 -237 Hz
2029-01-16	Tuesday	08:30	231°	+14°	0 dB	0°	231°	+14°	287°	-14°	4.0dB	326°K	395401 -262 Hz
2029-01-16	Tuesday	09:00	237°	+10°	0 dB	0°	237°	+10°	294°	-13°	4.0dB	326°K	395475 -283 Hz
2029-01-16	Tuesday	09:30	243°	+6°	0 dB	0°	243°	+6°	301°	-13°	4.0dB	326°K	395549 -300 Hz
2029-01-16	Tuesday	10:00	248°	+1°	0 dB	0°	248°	+1°	308°	-13°	4.0dB	326°K	395622 -313 Hz
2029-01-17	wednesday	00:30	107°	+1°	0 dB	0°	107°	+1°	159°	-10°	4.0dB	316°K	397700 +254 Hz
2029-01-17	wednesday	01:00	112°	+5°	0 dB	0°	112°	+5°	167°	-10°	4.0dB	315°K	397769 +245 Hz
2029-01-17	wednesday	01:30	118°	+10°	0 dB	0°	118°	+10°	174°	-10°	3.9dB	314°K	397838 +231 Hz
2029-01-17	wednesday	02:00	123°	+14°	0 dB	0°	123°	+14°	181°	-10°	3.9dB	313°K	397907 +212 Hz
2029-01-17	wednesday	02:30	130°	+19°	0 dB	0°	130°	+19°	188°	-10°	3.9dB	312°K	397976 +190 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-17	wednesday03:00	136°	+22°	0 dB	0°	136°	+22°	196°	-10°	3.9dB	311°K	398044	+163 Hz
2029-01-17	wednesday03:30	143°	+26°	0 dB	0°	143°	+26°	203°	-10°	3.9dB	310°K	398112	+133 Hz
2029-01-17	wednesday04:00	151°	+29°	0 dB	0°	151°	+29°	210°	-10°	3.9dB	309°K	398180	+100 Hz
2029-01-17	wednesday04:30	158°	+31°	0 dB	0°	158°	+31°	218°	-10°	3.9dB	308°K	398248	+65 Hz
2029-01-17	wednesday05:00	167°	+33°	0 dB	0°	167°	+33°	225°	-10°	3.9dB	307°K	398315	+28 Hz
2029-01-17	wednesday05:30	175°	+34°	0 dB	0°	175°	+34°	232°	-9°	3.9dB	306°K	398382	-10 Hz
2029-01-17	wednesday06:00	184°	+34°	0 dB	0°	184°	+34°	239°	-9°	3.9dB	305°K	398450	-49 Hz
2029-01-17	wednesday06:30	193°	+33°	0 dB	0°	193°	+33°	247°	-9°	3.9dB	304°K	398516	-87 Hz
2029-01-17	wednesday07:00	201°	+32°	0 dB	0°	201°	+32°	254°	-9°	3.8dB	303°K	398583	-124 Hz
2029-01-17	wednesday07:30	209°	+30°	0 dB	0°	209°	+30°	261°	-9°	3.8dB	302°K	398649	-160 Hz
2029-01-17	wednesday08:00	217°	+27°	0 dB	0°	217°	+27°	269°	-9°	3.8dB	302°K	398716	-193 Hz
2029-01-17	wednesday08:30	224°	+24°	0 dB	0°	224°	+24°	276°	-9°	3.8dB	301°K	398782	-224 Hz
2029-01-17	wednesday09:00	231°	+20°	0 dB	0°	231°	+20°	283°	-9°	3.8dB	300°K	398847	-251 Hz
2029-01-17	wednesday09:30	237°	+16°	0 dB	0°	237°	+16°	290°	-9°	3.8dB	299°K	398913	-274 Hz
2029-01-17	wednesday10:00	243°	+12°	0 dB	0°	243°	+12°	298°	-9°	3.8dB	298°K	398978	-294 Hz
2029-01-17	wednesday10:30	249°	+7°	0 dB	0°	249°	+7°	305°	-8°	3.8dB	297°K	399043	-308 Hz
2029-01-17	wednesday11:00	254°	+2°	0 dB	0°	254°	+2°	312°	-8°	3.8dB	296°K	399108	-319 Hz
2029-01-18	Thursday 01:00	101°	+2°	0 dB	0°	101°	+2°	156°	-5°	3.3dB	251°K	400816	+269 Hz
2029-01-18	Thursday 01:30	106°	+7°	0 dB	0°	106°	+7°	164°	-5°	3.2dB	249°K	400872	+261 Hz
2029-01-18	Thursday 02:00	112°	+12°	0 dB	0°	112°	+12°	171°	-5°	3.2dB	248°K	400929	+248 Hz
2029-01-18	Thursday 02:30	118°	+17°	0 dB	0°	118°	+17°	178°	-5°	3.2dB	246°K	400985	+231 Hz
2029-01-18	Thursday 03:00	124°	+21°	0 dB	0°	124°	+21°	185°	-5°	3.2dB	244°K	401041	+210 Hz
2029-01-18	Thursday 03:30	130°	+25°	0 dB	0°	130°	+25°	193°	-5°	3.2dB	243°K	401097	+184 Hz
2029-01-18	Thursday 04:00	138°	+29°	0 dB	0°	138°	+29°	200°	-5°	3.2dB	243°K	401152	+155 Hz
2029-01-18	Thursday 04:30	145°	+32°	0 dB	0°	145°	+32°	207°	-5°	3.2dB	243°K	401207	+123 Hz
2029-01-18	Thursday 05:00	153°	+35°	0 dB	0°	153°	+35°	215°	-5°	3.2dB	243°K	401262	+88 Hz
2029-01-18	Thursday 05:30	162°	+37°	0 dB	0°	162°	+37°	222°	-4°	3.2dB	243°K	401316	+51 Hz
2029-01-18	Thursday 06:00	171°	+38°	0 dB	0°	171°	+38°	229°	-4°	3.2dB	243°K	401370	+13 Hz
2029-01-18	Thursday 06:30	181°	+39°	0 dB	0°	181°	+39°	237°	-4°	3.2dB	243°K	401423	-26 Hz
2029-01-18	Thursday 07:00	190°	+39°	0 dB	0°	190°	+39°	244°	-4°	3.2dB	243°K	401477	-65 Hz
2029-01-18	Thursday 07:30	199°	+37°	0 dB	0°	199°	+37°	251°	-4°	3.2dB	243°K	401530	-103 Hz
2029-01-18	Thursday 08:00	208°	+35°	0 dB	0°	208°	+35°	258°	-4°	3.2dB	243°K	401582	-140 Hz
2029-01-18	Thursday 08:30	216°	+33°	0 dB	0°	216°	+33°	266°	-4°	3.2dB	243°K	401635	-175 Hz
2029-01-18	Thursday 09:00	224°	+30°	0 dB	0°	224°	+30°	273°	-4°	3.2dB	243°K	401687	-207 Hz
2029-01-18	Thursday 09:30	231°	+26°	0 dB	0°	231°	+26°	280°	-4°	3.2dB	243°K	401738	-236 Hz
2029-01-18	Thursday 10:00	238°	+22°	0 dB	0°	238°	+22°	288°	-3°	3.2dB	243°K	401789	-261 Hz
2029-01-18	Thursday 10:30	244°	+18°	0 dB	0°	244°	+18°	295°	-3°	3.2dB	243°K	401840	-282 Hz
2029-01-18	Thursday 11:00	250°	+13°	0 dB	0°	250°	+13°	302°	-3°	3.2dB	243°K	401891	-299 Hz
2029-01-18	Thursday 11:30	256°	+8°	0 dB	0°	256°	+8°	309°	-3°	3.2dB	243°K	401941	-311 Hz
2029-01-18	Thursday 12:00	261°	+3°	0 dB	0°	261°	+3°	317°	-3°	3.2dB	243°K	401991	-318 Hz
2029-01-19	Friday 01:30	096°	+4°	0 dB	0°	096°	+4°	154°	-0°	3.3dB	242°K	403195	+282 Hz
2029-01-19	Friday 02:00	101°	+9°	0 dB	0°	101°	+9°	161°	-0°	3.2dB	241°K	403234	+276 Hz
2029-01-19	Friday 02:30	106°	+14°	0 dB	0°	106°	+14°	168°	+0°	3.2dB	241°K	403273	+265 Hz
2029-01-19	Friday 03:00	112°	+19°	0 dB	0°	112°	+19°	176°	+0°	3.2dB	241°K	403311	+250 Hz
2029-01-19	Friday 03:30	118°	+24°	0 dB	0°	118°	+24°	183°	+0°	3.2dB	241°K	403349	+230 Hz
2029-01-19	Friday 04:00	125°	+28°	0 dB	0°	125°	+28°	190°	+0°	3.2dB	241°K	403386	+205 Hz
2029-01-19	Friday 04:30	132°	+32°	0 dB	0°	132°	+32°	197°	+0°	3.2dB	241°K	403423	+177 Hz
2029-01-19	Friday 05:00	140°	+36°	0 dB	0°	140°	+36°	205°	+1°	3.2dB	241°K	403460	+146 Hz
2029-01-19	Friday 05:30	148°	+39°	0 dB	0°	148°	+39°	212°	+1°	3.2dB	241°K	403496	+111 Hz
2029-01-19	Friday 06:00	157°	+42°	0 dB	0°	157°	+42°	219°	+1°	3.2dB	240°K	403531	+75 Hz
2029-01-19	Friday 06:30	167°	+43°	0 dB	0°	167°	+43°	227°	+1°	3.2dB	240°K	403567	+37 Hz
2029-01-19	Friday 07:00	177°	+44°	0 dB	0°	177°	+44°	234°	+1°	3.2dB	240°K	403601	-2 Hz
2029-01-19	Friday 07:30	187°	+44°	0 dB	0°	187°	+44°	241°	+1°	3.2dB	240°K	403636	-42 Hz
2029-01-19	Friday 08:00	197°	+43°	0 dB	0°	197°	+43°	249°	+1°	3.2dB	240°K	403670	-80 Hz
2029-01-19	Friday 08:30	207°	+41°	0 dB	0°	207°	+41°	256°	+1°	3.2dB	240°K	403703	-118 Hz
2029-01-19	Friday 09:00	216°	+39°	0 dB	0°	216°	+39°	263°	+1°	3.2dB	240°K	403736	-154 Hz
2029-01-19	Friday 09:30	224°	+35°	0 dB	0°	224°	+35°	270°	+2°	3.2dB	240°K	403769	-187 Hz
2029-01-19	Friday 10:00	232°	+32°	0 dB	0°	232°	+32°	278°	+2°	3.2dB	239°K	403801	-217 Hz
2029-01-19	Friday 10:30	239°	+28°	0 dB	0°	239°	+28°	285°	+2°	3.2dB	239°K	403833	-244 Hz
2029-01-19	Friday 11:00	246°	+23°	0 dB	0°	246°	+23°	292°	+2°	3.2dB	239°K	403864	-266 Hz
2029-01-19	Friday 11:30	252°	+19°	0 dB	0°	252°	+19°	300°	+2°	3.2dB	239°K	403895	-285 Hz
2029-01-19	Friday 12:00	257°	+14°	0 dB	0°	257°	+14°	307°	+2°	3.2dB	239°K	403925	-298 Hz
2029-01-19	Friday 12:30	263°	+9°	0 dB	0°	263°	+9°	314°	+2°	3.2dB	239°K	403955	-307 Hz
2029-01-19	Friday 13:00	268°	+4°	0 dB	0°	268°	+4°	321°	+2°	3.2dB	239°K	403985	-311 Hz
2029-01-20	Saturday 01:30	085°	+1°	0 dB	0°	085°	+1°	144°	+5°	3.3dB	239°K	404568	+294 Hz
2029-01-20	Saturday 02:00	090°	+6°	0 dB	0°	090°	+6°	151°	+5°	3.3dB	239°K	404585	+295 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-20	Saturday	02:30	096°	+11°	0 dB	0°	096°	+11°	158°	+5°	3.3dB	239°K	404602 +290 Hz
2029-01-20	Saturday	03:00	101°	+16°	0 dB	0°	101°	+16°	166°	+5°	3.3dB	239°K	404618 +281 Hz
2029-01-20	Saturday	03:30	107°	+21°	0 dB	0°	107°	+21°	173°	+5°	3.3dB	239°K	404634 +267 Hz
2029-01-20	Saturday	04:00	112°	+26°	0 dB	0°	112°	+26°	180°	+5°	3.3dB	239°K	404649 +248 Hz
2029-01-20	Saturday	04:30	119°	+31°	0 dB	0°	119°	+31°	188°	+5°	3.3dB	239°K	404663 +225 Hz
2029-01-20	Saturday	05:00	126°	+35°	0 dB	0°	126°	+35°	195°	+6°	3.3dB	239°K	404677 +199 Hz
2029-01-20	Saturday	05:30	134°	+39°	0 dB	0°	134°	+39°	202°	+6°	3.3dB	243°K	404691 +168 Hz
2029-01-20	Saturday	06:00	142°	+43°	0 dB	0°	142°	+43°	210°	+6°	3.3dB	244°K	404704 +135 Hz
2029-01-20	Saturday	06:30	152°	+46°	0 dB	0°	152°	+46°	217°	+6°	3.3dB	244°K	404716 +99 Hz
2029-01-20	Saturday	07:00	162°	+48°	0 dB	0°	162°	+48°	224°	+6°	3.4dB	245°K	404728 +62 Hz
2029-01-20	Saturday	07:30	173°	+49°	0 dB	0°	173°	+49°	231°	+6°	3.4dB	246°K	404740 +23 Hz
2029-01-20	Saturday	08:00	184°	+49°	0 dB	0°	184°	+49°	239°	+6°	3.4dB	246°K	404751 -16 Hz
2029-01-20	Saturday	08:30	195°	+49°	0 dB	0°	195°	+49°	246°	+6°	3.4dB	247°K	404761 -55 Hz
2029-01-20	Saturday	09:00	206°	+47°	0 dB	0°	206°	+47°	253°	+6°	3.4dB	247°K	404771 -93 Hz
2029-01-20	Saturday	09:30	216°	+44°	0 dB	0°	216°	+44°	261°	+6°	3.4dB	248°K	404781 -129 Hz
2029-01-20	Saturday	10:00	225°	+41°	0 dB	0°	225°	+41°	268°	+7°	3.4dB	248°K	404790 -163 Hz
2029-01-20	Saturday	10:30	233°	+37°	0 dB	0°	233°	+37°	275°	+7°	3.4dB	249°K	404798 -194 Hz
2029-01-20	Saturday	11:00	240°	+33°	0 dB	0°	240°	+33°	282°	+7°	3.4dB	249°K	404806 -222 Hz
2029-01-20	Saturday	11:30	247°	+29°	0 dB	0°	247°	+29°	290°	+7°	3.4dB	250°K	404813 -245 Hz
2029-01-20	Saturday	12:00	253°	+24°	0 dB	0°	253°	+24°	297°	+7°	3.4dB	250°K	404820 -265 Hz
2029-01-20	Saturday	12:30	259°	+19°	0 dB	0°	259°	+19°	304°	+7°	3.4dB	251°K	404826 -280 Hz
2029-01-20	Saturday	13:00	265°	+14°	0 dB	0°	265°	+14°	312°	+7°	3.4dB	251°K	404832 -291 Hz
2029-01-20	Saturday	13:30	270°	+9°	0 dB	0°	270°	+9°	319°	+7°	3.5dB	252°K	404838 -296 Hz
2029-01-20	Saturday	14:00	275°	+4°	0 dB	0°	275°	+4°	326°	+7°	3.5dB	252°K	404842 -297 Hz
2029-01-21	Sunday	02:00	080°	+3°	0 dB	0°	080°	+3°	141°	+10°	3.6dB	265°K	404795 +304 Hz
2029-01-21	Sunday	02:30	085°	+8°	0 dB	0°	085°	+8°	149°	+10°	3.7dB	266°K	404787 +306 Hz
2029-01-21	Sunday	03:00	090°	+13°	0 dB	0°	090°	+13°	156°	+10°	3.7dB	266°K	404777 +303 Hz
2029-01-21	Sunday	03:30	095°	+18°	0 dB	0°	095°	+18°	163°	+10°	3.7dB	267°K	404768 +296 Hz
2029-01-21	Sunday	04:00	101°	+23°	0 dB	0°	101°	+23°	170°	+10°	3.7dB	267°K	404757 +284 Hz
2029-01-21	Sunday	04:30	107°	+28°	0 dB	0°	107°	+28°	178°	+10°	3.7dB	268°K	404746 +267 Hz
2029-01-21	Sunday	05:00	113°	+33°	0 dB	0°	113°	+33°	185°	+10°	3.7dB	268°K	404735 +245 Hz
2029-01-21	Sunday	05:30	120°	+38°	0 dB	0°	120°	+38°	192°	+10°	3.7dB	269°K	404723 +220 Hz
2029-01-21	Sunday	06:00	127°	+42°	0 dB	0°	127°	+42°	200°	+11°	3.7dB	269°K	404710 +191 Hz
2029-01-21	Sunday	06:30	136°	+46°	0 dB	0°	136°	+46°	207°	+11°	3.7dB	270°K	404697 +159 Hz
2029-01-21	Sunday	07:00	145°	+49°	0 dB	0°	145°	+49°	214°	+11°	3.7dB	270°K	404683 +125 Hz
2029-01-21	Sunday	07:30	156°	+52°	0 dB	0°	156°	+52°	221°	+11°	3.7dB	271°K	404669 +88 Hz
2029-01-21	Sunday	08:00	168°	+54°	0 dB	0°	168°	+54°	229°	+11°	3.7dB	271°K	404654 +50 Hz
2029-01-21	Sunday	08:30	180°	+54°	0 dB	0°	180°	+54°	236°	+11°	3.7dB	272°K	404639 +12 Hz
2029-01-21	Sunday	09:00	192°	+54°	0 dB	0°	192°	+54°	243°	+11°	3.7dB	272°K	404623 -27 Hz
2029-01-21	Sunday	09:30	204°	+52°	0 dB	0°	204°	+52°	251°	+11°	3.7dB	273°K	404606 -65 Hz
2029-01-21	Sunday	10:00	215°	+50°	0 dB	0°	215°	+50°	258°	+11°	3.7dB	274°K	404589 -101 Hz
2029-01-21	Sunday	10:30	225°	+47°	0 dB	0°	225°	+47°	265°	+11°	3.7dB	274°K	404572 -135 Hz
2029-01-21	Sunday	11:00	234°	+43°	0 dB	0°	234°	+43°	273°	+12°	3.8dB	275°K	404554 -167 Hz
2029-01-21	Sunday	11:30	241°	+39°	0 dB	0°	241°	+39°	280°	+12°	3.8dB	275°K	404535 -196 Hz
2029-01-21	Sunday	12:00	248°	+34°	0 dB	0°	248°	+34°	287°	+12°	3.8dB	276°K	404516 -220 Hz
2029-01-21	Sunday	12:30	255°	+29°	0 dB	0°	255°	+29°	294°	+12°	3.8dB	276°K	404496 -241 Hz
2029-01-21	Sunday	13:00	261°	+25°	0 dB	0°	261°	+25°	302°	+12°	3.8dB	277°K	404475 -258 Hz
2029-01-21	Sunday	13:30	266°	+20°	0 dB	0°	266°	+20°	309°	+12°	3.8dB	277°K	404454 -270 Hz
2029-01-21	Sunday	14:00	271°	+15°	0 dB	0°	271°	+15°	316°	+12°	3.8dB	278°K	404433 -277 Hz
2029-01-21	Sunday	14:30	277°	+10°	0 dB	0°	277°	+10°	324°	+12°	3.8dB	278°K	404411 -279 Hz
2029-01-21	Sunday	15:00	282°	+5°	0 dB	0°	282°	+5°	331°	+12°	3.8dB	279°K	404388 -277 Hz
2029-01-21	Sunday	15:30	287°	-0°	0 dB	0°	287°	-0°	338°	+12°	3.8dB	279°K	404365 -270 Hz
2029-01-22	Monday	02:30	075°	+4°	0 dB	0°	075°	+4°	138°	+14°	3.9dB	292°K	403712 +312 Hz
2029-01-22	Monday	03:00	080°	+9°	0 dB	0°	080°	+9°	146°	+14°	3.9dB	292°K	403676 +316 Hz
2029-01-22	Monday	03:30	085°	+14°	0 dB	0°	085°	+14°	153°	+15°	3.9dB	293°K	403640 +315 Hz
2029-01-22	Monday	04:00	090°	+19°	0 dB	0°	090°	+19°	160°	+15°	3.9dB	293°K	403602 +309 Hz
2029-01-22	Monday	04:30	095°	+25°	0 dB	0°	095°	+25°	167°	+15°	4.0dB	294°K	403565 +299 Hz
2029-01-22	Monday	05:00	101°	+30°	0 dB	0°	101°	+30°	175°	+15°	4.0dB	294°K	403526 +284 Hz
2029-01-22	Monday	05:30	107°	+35°	0 dB	0°	107°	+35°	182°	+15°	4.0dB	295°K	403487 +265 Hz
2029-01-22	Monday	06:00	113°	+39°	0 dB	0°	113°	+39°	189°	+15°	4.0dB	295°K	403448 +241 Hz
2029-01-22	Monday	06:30	120°	+44°	0 dB	0°	120°	+44°	197°	+15°	4.0dB	296°K	403408 +214 Hz
2029-01-22	Monday	07:00	129°	+48°	0 dB	0°	129°	+48°	204°	+15°	4.0dB	296°K	403367 +184 Hz
2029-01-22	Monday	07:30	138°	+52°	0 dB	0°	138°	+52°	211°	+15°	4.0dB	296°K	403326 +151 Hz
2029-01-22	Monday	08:00	149°	+55°	0 dB	0°	149°	+55°	218°	+15°	4.0dB	296°K	403284 +116 Hz
2029-01-22	Monday	08:30	161°	+58°	0 dB	0°	161°	+58°	226°	+15°	4.0dB	297°K	403242 +79 Hz
2029-01-22	Monday	09:00	174°	+59°	0 dB	0°	174°	+59°	233°	+15°	4.0dB	297°K	403199 +42 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-22	Monday	09:30	188°	+59°	0 dB	0°	188°	+59°	240°	+16°	4.0dB	297°K	403156 +4 Hz
2029-01-22	Monday	10:00	201°	+57°	0 dB	0°	201°	+57°	248°	+16°	4.0dB	298°K	403112 -34 Hz
2029-01-22	Monday	10:30	213°	+55°	0 dB	0°	213°	+55°	255°	+16°	4.0dB	298°K	403067 -70 Hz
2029-01-22	Monday	11:00	224°	+52°	0 dB	0°	224°	+52°	262°	+16°	4.0dB	298°K	403022 -105 Hz
2029-01-22	Monday	11:30	234°	+48°	0 dB	0°	234°	+48°	269°	+16°	4.0dB	298°K	402977 -137 Hz
2029-01-22	Monday	12:00	242°	+44°	0 dB	0°	242°	+44°	277°	+16°	4.0dB	299°K	402931 -166 Hz
2029-01-22	Monday	12:30	249°	+40°	0 dB	0°	249°	+40°	284°	+16°	4.0dB	299°K	402884 -192 Hz
2029-01-22	Monday	13:00	256°	+35°	0 dB	0°	256°	+35°	291°	+16°	4.0dB	299°K	402837 -214 Hz
2029-01-22	Monday	13:30	262°	+30°	0 dB	0°	262°	+30°	299°	+16°	4.0dB	300°K	402789 -232 Hz
2029-01-22	Monday	14:00	267°	+25°	0 dB	0°	267°	+25°	306°	+16°	4.0dB	300°K	402740 -246 Hz
2029-01-22	Monday	14:30	272°	+20°	0 dB	0°	272°	+20°	313°	+16°	4.0dB	300°K	402691 -255 Hz
2029-01-22	Monday	15:00	278°	+15°	0 dB	0°	278°	+15°	320°	+16°	4.0dB	300°K	402642 -259 Hz
2029-01-22	Monday	15:30	283°	+10°	0 dB	0°	283°	+10°	328°	+17°	4.0dB	301°K	402592 -259 Hz
2029-01-22	Monday	16:00	288°	+5°	0 dB	0°	288°	+5°	335°	+17°	4.0dB	301°K	402541 -254 Hz
2029-01-22	Monday	16:30	293°	+0°	0 dB	0°	293°	+0°	342°	+17°	4.0dB	301°K	402490 -245 Hz
2029-01-23	Tuesday	02:30	064°	+0°	0 dB	0°	064°	+0°	128°	+18°	4.2dB	319°K	401354 +306 Hz
2029-01-23	Tuesday	03:00	069°	+5°	0 dB	0°	069°	+5°	135°	+18°	4.2dB	321°K	401291 +316 Hz
2029-01-23	Tuesday	03:30	074°	+10°	0 dB	0°	074°	+10°	142°	+18°	4.2dB	322°K	401229 +322 Hz
2029-01-23	Tuesday	04:00	079°	+15°	0 dB	0°	079°	+15°	149°	+19°	4.2dB	323°K	401165 +324 Hz
2029-01-23	Tuesday	04:30	084°	+20°	0 dB	0°	084°	+20°	157°	+19°	4.2dB	325°K	401101 +320 Hz
2029-01-23	Tuesday	05:00	089°	+25°	0 dB	0°	089°	+25°	164°	+19°	4.2dB	326°K	401036 +312 Hz
2029-01-23	Tuesday	05:30	095°	+30°	0 dB	0°	095°	+30°	171°	+19°	4.2dB	328°K	400971 +300 Hz
2029-01-23	Tuesday	06:00	100°	+35°	0 dB	0°	100°	+35°	178°	+19°	4.3dB	329°K	400906 +283 Hz
2029-01-23	Tuesday	06:30	106°	+40°	0 dB	0°	106°	+40°	186°	+19°	4.3dB	331°K	400840 +262 Hz
2029-01-23	Tuesday	07:00	113°	+45°	0 dB	0°	113°	+45°	193°	+19°	4.3dB	332°K	400773 +237 Hz
2029-01-23	Tuesday	07:30	121°	+49°	0 dB	0°	121°	+49°	200°	+19°	4.3dB	334°K	400706 +209 Hz
2029-01-23	Tuesday	08:00	130°	+54°	0 dB	0°	130°	+54°	208°	+19°	4.3dB	335°K	400638 +178 Hz
2029-01-23	Tuesday	08:30	140°	+57°	0 dB	0°	140°	+57°	215°	+19°	4.3dB	337°K	400570 +145 Hz
2029-01-23	Tuesday	09:00	152°	+60°	0 dB	0°	152°	+60°	222°	+19°	4.3dB	338°K	400502 +110 Hz
2029-01-23	Tuesday	09:30	166°	+62°	0 dB	0°	166°	+62°	229°	+19°	4.4dB	340°K	400432 +73 Hz
2029-01-23	Tuesday	10:00	181°	+63°	0 dB	0°	181°	+63°	237°	+19°	4.4dB	341°K	400363 +36 Hz
2029-01-23	Tuesday	10:30	196°	+62°	0 dB	0°	196°	+62°	244°	+19°	4.4dB	343°K	400292 -1 Hz
2029-01-23	Tuesday	11:00	210°	+60°	0 dB	0°	210°	+60°	251°	+20°	4.4dB	344°K	400222 -37 Hz
2029-01-23	Tuesday	11:30	222°	+57°	0 dB	0°	222°	+57°	258°	+20°	4.4dB	346°K	400150 -71 Hz
2029-01-23	Tuesday	12:00	232°	+54°	0 dB	0°	232°	+54°	266°	+20°	4.4dB	347°K	400079 -104 Hz
2029-01-23	Tuesday	12:30	241°	+49°	0 dB	0°	241°	+49°	273°	+20°	4.4dB	348°K	400007 -134 Hz
2029-01-23	Tuesday	13:00	249°	+45°	0 dB	0°	249°	+45°	280°	+20°	4.4dB	349°K	399934 -161 Hz
2029-01-23	Tuesday	13:30	256°	+40°	0 dB	0°	256°	+40°	287°	+20°	4.4dB	350°K	399861 -185 Hz
2029-01-23	Tuesday	14:00	262°	+35°	0 dB	0°	262°	+35°	295°	+20°	4.4dB	350°K	399787 -205 Hz
2029-01-23	Tuesday	14:30	267°	+30°	0 dB	0°	267°	+30°	302°	+20°	4.4dB	351°K	399713 -220 Hz
2029-01-23	Tuesday	15:00	273°	+25°	0 dB	0°	273°	+25°	309°	+20°	4.4dB	352°K	399638 -232 Hz
2029-01-23	Tuesday	15:30	278°	+20°	0 dB	0°	278°	+20°	317°	+20°	4.5dB	353°K	399563 -238 Hz
2029-01-23	Tuesday	16:00	283°	+15°	0 dB	0°	283°	+15°	324°	+20°	4.4dB	353°K	399487 -240 Hz
2029-01-23	Tuesday	16:30	288°	+10°	0 dB	0°	288°	+10°	331°	+20°	4.5dB	354°K	399411 -238 Hz
2029-01-23	Tuesday	17:00	293°	+6°	0 dB	0°	293°	+6°	338°	+20°	4.5dB	355°K	399334 -231 Hz
2029-01-23	Tuesday	17:30	298°	+1°	0 dB	0°	298°	+1°	346°	+20°	4.5dB	356°K	399257 -220 Hz
2029-01-24	wednesday	03:00	059°	+0°	0 dB	0°	059°	+0°	123°	+22°	4.5dB	368°K	397701 +305 Hz
2029-01-24	wednesday	03:30	064°	+5°	0 dB	0°	064°	+5°	131°	+22°	4.5dB	368°K	397615 +317 Hz
2029-01-24	wednesday	04:00	069°	+9°	0 dB	0°	069°	+9°	138°	+22°	4.5dB	367°K	397528 +326 Hz
2029-01-24	wednesday	04:30	074°	+14°	0 dB	0°	074°	+14°	145°	+22°	4.5dB	366°K	397440 +329 Hz
2029-01-24	wednesday	05:00	079°	+19°	0 dB	0°	079°	+19°	152°	+22°	4.5dB	365°K	397353 +329 Hz
2029-01-24	wednesday	05:30	084°	+24°	0 dB	0°	084°	+24°	160°	+22°	4.5dB	365°K	397264 +324 Hz
2029-01-24	wednesday	06:00	089°	+29°	0 dB	0°	089°	+29°	167°	+22°	4.5dB	364°K	397176 +314 Hz
2029-01-24	wednesday	06:30	094°	+34°	0 dB	0°	094°	+34°	174°	+22°	4.4dB	363°K	397087 +300 Hz
2029-01-24	wednesday	07:00	100°	+39°	0 dB	0°	100°	+39°	181°	+22°	4.4dB	362°K	396997 +282 Hz
2029-01-24	wednesday	07:30	106°	+44°	0 dB	0°	106°	+44°	189°	+22°	4.4dB	361°K	396907 +260 Hz
2029-01-24	wednesday	08:00	113°	+49°	0 dB	0°	113°	+49°	196°	+22°	4.4dB	361°K	396817 +234 Hz
2029-01-24	wednesday	08:30	121°	+54°	0 dB	0°	121°	+54°	203°	+22°	4.4dB	360°K	396726 +206 Hz
2029-01-24	wednesday	09:00	130°	+58°	0 dB	0°	130°	+58°	210°	+22°	4.4dB	359°K	396635 +174 Hz
2029-01-24	wednesday	09:30	142°	+61°	0 dB	0°	142°	+61°	218°	+22°	4.4dB	358°K	396543 +141 Hz
2029-01-24	wednesday	10:00	156°	+64°	0 dB	0°	156°	+64°	225°	+22°	4.4dB	358°K	396451 +106 Hz
2029-01-24	wednesday	10:30	171°	+66°	0 dB	0°	171°	+66°	232°	+22°	4.4dB	357°K	396359 +70 Hz
2029-01-24	wednesday	11:00	188°	+66°	0 dB	0°	188°	+66°	239°	+22°	4.3dB	356°K	396266 +34 Hz
2029-01-24	wednesday	11:30	204°	+64°	0 dB	0°	204°	+64°	247°	+23°	4.3dB	355°K	396172 -2 Hz
2029-01-24	wednesday	12:00	218°	+62°	0 dB	0°	218°	+62°	254°	+23°	4.3dB	354°K	396079 -37 Hz
2029-01-24	wednesday	12:30	229°	+58°	0 dB	0°	229°	+58°	261°	+23°	4.3dB	354°K	395985 -70 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-24	wednesday13:00	239°	+54°	0 dB	0°	239°	+54°	268°	+23°	4.3dB	353°K	395890	-101 Hz
2029-01-24	wednesday13:30	247°	+50°	0 dB	0°	247°	+50°	276°	+23°	4.3dB	352°K	395795	-130 Hz
2029-01-24	wednesday14:00	255°	+45°	0 dB	0°	255°	+45°	283°	+23°	4.3dB	351°K	395700	-155 Hz
2029-01-24	wednesday14:30	261°	+40°	0 dB	0°	261°	+40°	290°	+23°	4.2dB	350°K	395604	-177 Hz
2029-01-24	wednesday15:00	267°	+35°	0 dB	0°	267°	+35°	297°	+23°	4.2dB	350°K	395508	-195 Hz
2029-01-24	wednesday15:30	272°	+30°	0 dB	0°	272°	+30°	305°	+23°	4.2dB	349°K	395412	-209 Hz
2029-01-24	wednesday16:00	277°	+25°	0 dB	0°	277°	+25°	312°	+23°	4.2dB	348°K	395315	-218 Hz
2029-01-24	wednesday16:30	282°	+20°	0 dB	0°	282°	+20°	319°	+23°	4.2dB	348°K	395218	-223 Hz
2029-01-24	wednesday17:00	287°	+15°	0 dB	0°	287°	+15°	326°	+23°	4.2dB	349°K	395120	-224 Hz
2029-01-24	wednesday17:30	292°	+11°	0 dB	0°	292°	+11°	334°	+23°	4.2dB	349°K	395022	-220 Hz
2029-01-24	wednesday18:00	296°	+6°	0 dB	0°	296°	+6°	341°	+23°	4.2dB	350°K	394924	-212 Hz
2029-01-24	wednesday18:30	302°	+2°	0 dB	0°	302°	+2°	348°	+23°	4.2dB	351°K	394825	-199 Hz
2029-01-25	Thursday 04:00	059°	+3°	0 dB	0°	059°	+3°	126°	+24°	4.3dB	366°K	392882	+314 Hz
2029-01-25	Thursday 04:30	064°	+8°	0 dB	0°	064°	+8°	133°	+24°	4.3dB	367°K	392776	+325 Hz
2029-01-25	Thursday 05:00	069°	+12°	0 dB	0°	069°	+12°	140°	+24°	4.3dB	368°K	392671	+331 Hz
2029-01-25	Thursday 05:30	074°	+17°	0 dB	0°	074°	+17°	147°	+24°	4.3dB	369°K	392564	+334 Hz
2029-01-25	Thursday 06:00	078°	+22°	0 dB	0°	078°	+22°	155°	+24°	4.3dB	370°K	392458	+332 Hz
2029-01-25	Thursday 06:30	083°	+27°	0 dB	0°	083°	+27°	162°	+24°	4.3dB	371°K	392351	+325 Hz
2029-01-25	Thursday 07:00	088°	+32°	0 dB	0°	088°	+32°	169°	+24°	4.3dB	372°K	392244	+315 Hz
2029-01-25	Thursday 07:30	093°	+37°	0 dB	0°	093°	+37°	176°	+24°	4.3dB	373°K	392137	+300 Hz
2029-01-25	Thursday 08:00	099°	+42°	0 dB	0°	099°	+42°	184°	+24°	4.3dB	375°K	392029	+281 Hz
2029-01-25	Thursday 08:30	105°	+47°	0 dB	0°	105°	+47°	191°	+24°	4.4dB	376°K	391921	+258 Hz
2029-01-25	Thursday 09:00	113°	+52°	0 dB	0°	113°	+52°	198°	+24°	4.4dB	377°K	391813	+232 Hz
2029-01-25	Thursday 09:30	121°	+57°	0 dB	0°	121°	+57°	205°	+24°	4.4dB	378°K	391704	+203 Hz
2029-01-25	Thursday 10:00	131°	+61°	0 dB	0°	131°	+61°	213°	+24°	4.4dB	379°K	391596	+172 Hz
2029-01-25	Thursday 10:30	143°	+64°	0 dB	0°	143°	+64°	220°	+24°	4.4dB	380°K	391486	+138 Hz
2029-01-25	Thursday 11:00	158°	+67°	0 dB	0°	158°	+67°	227°	+24°	4.4dB	382°K	391377	+104 Hz
2029-01-25	Thursday 11:30	176°	+68°	0 dB	0°	176°	+68°	234°	+24°	4.4dB	383°K	391268	+68 Hz
2029-01-25	Thursday 12:00	193°	+68°	0 dB	0°	193°	+68°	241°	+25°	4.4dB	384°K	391158	+33 Hz
2029-01-25	Thursday 12:30	209°	+66°	0 dB	0°	209°	+66°	249°	+25°	4.4dB	385°K	391048	-3 Hz
2029-01-25	Thursday 13:00	223°	+63°	0 dB	0°	223°	+63°	256°	+25°	4.4dB	386°K	390937	-37 Hz
2029-01-25	Thursday 13:30	234°	+59°	0 dB	0°	234°	+59°	263°	+25°	4.4dB	387°K	390827	-69 Hz
2029-01-25	Thursday 14:00	244°	+55°	0 dB	0°	244°	+55°	270°	+25°	4.4dB	389°K	390716	-99 Hz
2029-01-25	Thursday 14:30	251°	+50°	0 dB	0°	251°	+50°	278°	+25°	4.4dB	390°K	390605	-126 Hz
2029-01-25	Thursday 15:00	258°	+45°	0 dB	0°	258°	+45°	285°	+25°	4.4dB	391°K	390493	-150 Hz
2029-01-25	Thursday 15:30	264°	+40°	0 dB	0°	264°	+40°	292°	+25°	4.4dB	392°K	390382	-171 Hz
2029-01-25	Thursday 16:00	270°	+35°	0 dB	0°	270°	+35°	299°	+25°	4.4dB	393°K	390270	-188 Hz
2029-01-25	Thursday 16:30	275°	+30°	0 dB	0°	275°	+30°	307°	+25°	4.5dB	395°K	390158	-200 Hz
2029-01-25	Thursday 17:00	280°	+25°	0 dB	0°	280°	+25°	314°	+25°	4.5dB	396°K	390045	-209 Hz
2029-01-25	Thursday 17:30	284°	+20°	0 dB	0°	284°	+20°	321°	+25°	4.5dB	397°K	389933	-213 Hz
2029-01-25	Thursday 18:00	289°	+15°	0 dB	0°	289°	+15°	328°	+25°	4.5dB	398°K	389820	-212 Hz
2029-01-25	Thursday 18:30	294°	+11°	0 dB	0°	294°	+11°	335°	+25°	4.5dB	399°K	389707	-208 Hz
2029-01-25	Thursday 19:00	299°	+6°	0 dB	0°	299°	+6°	343°	+25°	4.5dB	401°K	389594	-199 Hz
2029-01-25	Thursday 19:30	304°	+2°	0 dB	0°	304°	+2°	350°	+25°	4.5dB	402°K	389481	-186 Hz
2029-01-26	Friday 04:30	054°	+1°	0 dB	0°	054°	+1°	120°	+25°	4.6dB	427°K	387408	+305 Hz
2029-01-26	Friday 05:00	059°	+5°	0 dB	0°	059°	+5°	127°	+25°	4.6dB	428°K	387291	+318 Hz
2029-01-26	Friday 05:30	064°	+9°	0 dB	0°	064°	+9°	134°	+25°	4.6dB	429°K	387175	+328 Hz
2029-01-26	Friday 06:00	069°	+14°	0 dB	0°	069°	+14°	142°	+25°	4.7dB	431°K	387058	+334 Hz
2029-01-26	Friday 06:30	074°	+19°	0 dB	0°	074°	+19°	149°	+25°	4.7dB	432°K	386941	+336 Hz
2029-01-26	Friday 07:00	079°	+24°	0 dB	0°	079°	+24°	156°	+25°	4.7dB	433°K	386823	+333 Hz
2029-01-26	Friday 07:30	083°	+29°	0 dB	0°	083°	+29°	163°	+25°	4.7dB	435°K	386706	+326 Hz
2029-01-26	Friday 08:00	088°	+34°	0 dB	0°	088°	+34°	171°	+25°	4.7dB	438°K	386589	+314 Hz
2029-01-26	Friday 08:30	094°	+39°	0 dB	0°	094°	+39°	178°	+25°	4.7dB	440°K	386471	+299 Hz
2029-01-26	Friday 09:00	099°	+44°	0 dB	0°	099°	+44°	185°	+25°	4.7dB	443°K	386354	+279 Hz
2029-01-26	Friday 09:30	106°	+49°	0 dB	0°	106°	+49°	192°	+25°	4.7dB	446°K	386236	+256 Hz
2029-01-26	Friday 10:00	113°	+54°	0 dB	0°	113°	+54°	199°	+25°	4.8dB	448°K	386118	+230 Hz
2029-01-26	Friday 10:30	122°	+58°	0 dB	0°	122°	+58°	207°	+25°	4.8dB	451°K	386000	+201 Hz
2029-01-26	Friday 11:00	132°	+62°	0 dB	0°	132°	+62°	214°	+25°	4.8dB	453°K	385882	+169 Hz
2029-01-26	Friday 11:30	145°	+65°	0 dB	0°	145°	+65°	221°	+25°	4.8dB	456°K	385764	+136 Hz
2029-01-26	Friday 12:00	161°	+68°	0 dB	0°	161°	+68°	228°	+25°	4.8dB	459°K	385646	+101 Hz
2029-01-26	Friday 12:30	179°	+69°	0 dB	0°	179°	+69°	236°	+25°	4.8dB	461°K	385527	+66 Hz
2029-01-26	Friday 13:00	197°	+68°	0 dB	0°	197°	+68°	243°	+25°	4.9dB	464°K	385409	+30 Hz
2029-01-26	Friday 13:30	213°	+66°	0 dB	0°	213°	+66°	250°	+25°	4.9dB	466°K	385291	-4 Hz
2029-01-26	Friday 14:00	226°	+63°	0 dB	0°	226°	+63°	257°	+25°	4.9dB	469°K	385172	-38 Hz
2029-01-26	Friday 14:30	237°	+59°	0 dB	0°	237°	+59°	264°	+25°	4.9dB	472°K	385054	-70 Hz
2029-01-26	Friday 15:00	246°	+54°	0 dB	0°	246°	+54°	272°	+25°	4.9dB	474°K	384935	-100 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-26	Friday	15:30	253°	+49°	0 dB	0°	253°	+49°	279°	+25°	4.9dB	477°K	384816 -126 Hz
2029-01-26	Friday	16:00	260°	+45°	0 dB	0°	260°	+45°	286°	+25°	5.0dB	480°K	384698 -150 Hz
2029-01-26	Friday	16:30	266°	+40°	0 dB	0°	266°	+40°	293°	+25°	5.0dB	482°K	384579 -170 Hz
2029-01-26	Friday	17:00	271°	+34°	0 dB	0°	271°	+34°	300°	+25°	5.0dB	485°K	384460 -186 Hz
2029-01-26	Friday	17:30	276°	+29°	0 dB	0°	276°	+29°	308°	+25°	5.0dB	487°K	384341 -198 Hz
2029-01-26	Friday	18:00	281°	+24°	0 dB	0°	281°	+24°	315°	+25°	5.0dB	490°K	384222 -206 Hz
2029-01-26	Friday	18:30	285°	+20°	0 dB	0°	285°	+20°	322°	+25°	5.0dB	493°K	384103 -210 Hz
2029-01-26	Friday	19:00	290°	+15°	0 dB	0°	290°	+15°	329°	+25°	5.0dB	495°K	383984 -209 Hz
2029-01-26	Friday	19:30	295°	+10°	0 dB	0°	295°	+10°	337°	+25°	5.1dB	498°K	383866 -204 Hz
2029-01-26	Friday	20:00	300°	+6°	0 dB	0°	300°	+6°	344°	+25°	5.1dB	500°K	383747 -194 Hz
2029-01-26	Friday	20:30	305°	+1°	0 dB	0°	305°	+1°	351°	+25°	5.1dB	500°K	383628 -181 Hz
2029-01-27	Saturday	05:30	055°	+1°	0 dB	0°	055°	+1°	121°	+25°	5.0dB	500°K	381488 +306 Hz
2029-01-27	Saturday	06:00	060°	+5°	0 dB	0°	060°	+5°	128°	+25°	5.0dB	500°K	381370 +320 Hz
2029-01-27	Saturday	06:30	065°	+10°	0 dB	0°	065°	+10°	135°	+25°	5.0dB	500°K	381251 +329 Hz
2029-01-27	Saturday	07:00	070°	+14°	0 dB	0°	070°	+14°	143°	+25°	5.0dB	500°K	381133 +335 Hz
2029-01-27	Saturday	07:30	075°	+19°	0 dB	0°	075°	+19°	150°	+25°	4.9dB	500°K	381015 +336 Hz
2029-01-27	Saturday	08:00	080°	+24°	0 dB	0°	080°	+24°	157°	+25°	4.9dB	500°K	380897 +332 Hz
2029-01-27	Saturday	08:30	084°	+29°	0 dB	0°	084°	+29°	164°	+25°	4.9dB	497°K	380779 +325 Hz
2029-01-27	Saturday	09:00	089°	+34°	0 dB	0°	089°	+34°	171°	+25°	4.9dB	494°K	380661 +313 Hz
2029-01-27	Saturday	09:30	095°	+39°	0 dB	0°	095°	+39°	179°	+25°	4.8dB	490°K	380543 +297 Hz
2029-01-27	Saturday	10:00	101°	+44°	0 dB	0°	101°	+44°	186°	+25°	4.8dB	486°K	380425 +277 Hz
2029-01-27	Saturday	10:30	107°	+49°	0 dB	0°	107°	+49°	193°	+25°	4.8dB	483°K	380307 +253 Hz
2029-01-27	Saturday	11:00	115°	+54°	0 dB	0°	115°	+54°	200°	+25°	4.7dB	479°K	380190 +226 Hz
2029-01-27	Saturday	11:30	124°	+58°	0 dB	0°	124°	+58°	207°	+25°	4.7dB	476°K	380072 +197 Hz
2029-01-27	Saturday	12:00	134°	+62°	0 dB	0°	134°	+62°	215°	+24°	4.7dB	472°K	379955 +165 Hz
2029-01-27	Saturday	12:30	148°	+65°	0 dB	0°	148°	+65°	222°	+24°	4.6dB	469°K	379838 +131 Hz
2029-01-27	Saturday	13:00	163°	+67°	0 dB	0°	163°	+67°	229°	+24°	4.6dB	465°K	379721 +96 Hz
2029-01-27	Saturday	13:30	181°	+68°	0 dB	0°	181°	+68°	236°	+24°	4.6dB	461°K	379604 +60 Hz
2029-01-27	Saturday	14:00	198°	+67°	0 dB	0°	198°	+67°	244°	+24°	4.5dB	458°K	379487 +25 Hz
2029-01-27	Saturday	14:30	213°	+65°	0 dB	0°	213°	+65°	251°	+24°	4.5dB	454°K	379370 -10 Hz
2029-01-27	Saturday	15:00	226°	+61°	0 dB	0°	226°	+61°	258°	+24°	4.5dB	451°K	379254 -44 Hz
2029-01-27	Saturday	15:30	237°	+57°	0 dB	0°	237°	+57°	265°	+24°	4.4dB	447°K	379138 -76 Hz
2029-01-27	Saturday	16:00	246°	+53°	0 dB	0°	246°	+53°	272°	+24°	4.4dB	444°K	379021 -106 Hz
2029-01-27	Saturday	16:30	253°	+48°	0 dB	0°	253°	+48°	280°	+24°	4.4dB	440°K	378905 -133 Hz
2029-01-27	Saturday	17:00	259°	+43°	0 dB	0°	259°	+43°	287°	+24°	4.3dB	437°K	378789 -156 Hz
2029-01-27	Saturday	17:30	265°	+38°	0 dB	0°	265°	+38°	294°	+24°	4.3dB	433°K	378674 -176 Hz
2029-01-27	Saturday	18:00	270°	+33°	0 dB	0°	270°	+33°	301°	+24°	4.2dB	429°K	378558 -192 Hz
2029-01-27	Saturday	18:30	275°	+28°	0 dB	0°	275°	+28°	308°	+24°	4.2dB	426°K	378443 -204 Hz
2029-01-27	Saturday	19:00	280°	+23°	0 dB	0°	280°	+23°	316°	+24°	4.2dB	422°K	378327 -212 Hz
2029-01-27	Saturday	19:30	285°	+18°	0 dB	0°	285°	+18°	323°	+24°	4.1dB	419°K	378212 -215 Hz
2029-01-27	Saturday	20:00	290°	+13°	0 dB	0°	290°	+13°	330°	+24°	4.1dB	415°K	378097 -214 Hz
2029-01-27	Saturday	20:30	295°	+9°	0 dB	0°	295°	+9°	337°	+24°	4.1dB	412°K	377983 -209 Hz
2029-01-27	Saturday	21:00	299°	+4°	0 dB	0°	299°	+4°	345°	+24°	4.0dB	410°K	377868 -199 Hz
2029-01-27	Saturday	21:30	304°	-0°	0 dB	0°	304°	-0°	352°	+24°	4.0dB	409°K	377754 -186 Hz
2029-01-28	Sunday	06:30	057°	+0°	0 dB	0°	057°	+0°	122°	+23°	3.6dB	377°K	375735 +305 Hz
2029-01-28	Sunday	07:00	062°	+4°	0 dB	0°	062°	+4°	129°	+23°	3.6dB	375°K	375625 +318 Hz
2029-01-28	Sunday	07:30	067°	+9°	0 dB	0°	067°	+9°	136°	+23°	3.6dB	373°K	375516 +328 Hz
2029-01-28	Sunday	08:00	072°	+13°	0 dB	0°	072°	+13°	143°	+23°	3.6dB	371°K	375406 +333 Hz
2029-01-28	Sunday	08:30	077°	+18°	0 dB	0°	077°	+18°	150°	+23°	3.5dB	369°K	375298 +333 Hz
2029-01-28	Sunday	09:00	082°	+23°	0 dB	0°	082°	+23°	158°	+23°	3.5dB	367°K	375189 +330 Hz
2029-01-28	Sunday	09:30	087°	+28°	0 dB	0°	087°	+28°	165°	+23°	3.5dB	364°K	375081 +321 Hz
2029-01-28	Sunday	10:00	092°	+33°	0 dB	0°	092°	+33°	172°	+23°	3.4dB	362°K	374972 +309 Hz
2029-01-28	Sunday	10:30	097°	+38°	0 dB	0°	097°	+38°	179°	+23°	3.4dB	359°K	374865 +292 Hz
2029-01-28	Sunday	11:00	103°	+43°	0 dB	0°	103°	+43°	186°	+22°	3.4dB	356°K	374757 +272 Hz
2029-01-28	Sunday	11:30	110°	+48°	0 dB	0°	110°	+48°	194°	+22°	3.3dB	354°K	374650 +247 Hz
2029-01-28	Sunday	12:00	118°	+52°	0 dB	0°	118°	+52°	201°	+22°	3.3dB	351°K	374543 +220 Hz
2029-01-28	Sunday	12:30	127°	+57°	0 dB	0°	127°	+57°	208°	+22°	3.3dB	348°K	374437 +189 Hz
2029-01-28	Sunday	13:00	138°	+60°	0 dB	0°	138°	+60°	215°	+22°	3.2dB	346°K	374331 +156 Hz
2029-01-28	Sunday	13:30	151°	+63°	0 dB	0°	151°	+63°	223°	+22°	3.2dB	343°K	374225 +122 Hz
2029-01-28	Sunday	14:00	166°	+65°	0 dB	0°	166°	+65°	230°	+22°	3.2dB	340°K	374119 +86 Hz
2029-01-28	Sunday	14:30	182°	+65°	0 dB	0°	182°	+65°	237°	+22°	3.1dB	338°K	374014 +50 Hz
2029-01-28	Sunday	15:00	198°	+64°	0 dB	0°	198°	+64°	244°	+22°	3.1dB	335°K	373909 +13 Hz
2029-01-28	Sunday	15:30	212°	+62°	0 dB	0°	212°	+62°	251°	+22°	3.1dB	332°K	373805 -22 Hz
2029-01-28	Sunday	16:00	225°	+59°	0 dB	0°	225°	+59°	259°	+22°	3.0dB	330°K	373701 -57 Hz
2029-01-28	Sunday	16:30	235°	+55°	0 dB	0°	235°	+55°	266°	+22°	3.0dB	327°K	373597 -89 Hz
2029-01-28	Sunday	17:00	243°	+51°	0 dB	0°	243°	+51°	273°	+22°	3.0dB	324°K	373494 -120 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-28	Sunday	17:30	251°	+46°	0 dB	0°	251°	+46°	280°	+22°	2.9dB	322°K	373390 -147 Hz
2029-01-28	Sunday	18:00	257°	+41°	0 dB	0°	257°	+41°	287°	+22°	2.9dB	319°K	373288 -171 Hz
2029-01-28	Sunday	18:30	263°	+36°	0 dB	0°	263°	+36°	295°	+22°	2.9dB	316°K	373185 -191 Hz
2029-01-28	Sunday	19:00	269°	+31°	0 dB	0°	269°	+31°	302°	+21°	2.8dB	314°K	373083 -207 Hz
2029-01-28	Sunday	19:30	274°	+26°	0 dB	0°	274°	+26°	309°	+21°	2.8dB	311°K	372982 -219 Hz
2029-01-28	Sunday	20:00	279°	+21°	0 dB	0°	279°	+21°	316°	+21°	2.8dB	308°K	372881 -226 Hz
2029-01-28	Sunday	20:30	283°	+16°	0 dB	0°	283°	+16°	324°	+21°	2.7dB	306°K	372780 -230 Hz
2029-01-28	Sunday	21:00	288°	+11°	0 dB	0°	288°	+11°	331°	+21°	2.7dB	303°K	372679 -228 Hz
2029-01-28	Sunday	21:30	293°	+6°	0 dB	0°	293°	+6°	338°	+21°	2.6dB	300°K	372579 -222 Hz
2029-01-28	Sunday	22:00	298°	+2°	0 dB	0°	298°	+2°	345°	+21°	2.6dB	296°K	372479 -212 Hz
2029-01-29	Monday	08:00	065°	+2°	0 dB	0°	065°	+2°	130°	+19°	1.7dB	233°K	370572 +314 Hz
2029-01-29	Monday	08:30	070°	+7°	0 dB	0°	070°	+7°	137°	+19°	1.6dB	230°K	370482 +323 Hz
2029-01-29	Monday	09:00	075°	+11°	0 dB	0°	075°	+11°	144°	+19°	1.6dB	227°K	370391 +328 Hz
2029-01-29	Monday	09:30	080°	+16°	0 dB	0°	080°	+16°	151°	+19°	1.5dB	225°K	370302 +328 Hz
2029-01-29	Monday	10:00	085°	+21°	0 dB	0°	085°	+21°	158°	+19°	1.5dB	224°K	370212 +324 Hz
2029-01-29	Monday	10:30	090°	+26°	0 dB	0°	090°	+26°	166°	+19°	1.5dB	223°K	370123 +315 Hz
2029-01-29	Monday	11:00	096°	+31°	0 dB	0°	096°	+31°	173°	+19°	1.5dB	222°K	370035 +301 Hz
2029-01-29	Monday	11:30	101°	+36°	0 dB	0°	101°	+36°	180°	+19°	1.4dB	221°K	369947 +284 Hz
2029-01-29	Monday	12:00	108°	+41°	0 dB	0°	108°	+41°	187°	+19°	1.4dB	220°K	369860 +262 Hz
2029-01-29	Monday	12:30	115°	+46°	0 dB	0°	115°	+46°	195°	+19°	1.4dB	219°K	369773 +237 Hz
2029-01-29	Monday	13:00	123°	+50°	0 dB	0°	123°	+50°	202°	+19°	1.4dB	218°K	369686 +208 Hz
2029-01-29	Monday	13:30	132°	+54°	0 dB	0°	132°	+54°	209°	+19°	1.4dB	217°K	369600 +177 Hz
2029-01-29	Monday	14:00	143°	+57°	0 dB	0°	143°	+57°	216°	+18°	1.3dB	216°K	369515 +143 Hz
2029-01-29	Monday	14:30	155°	+60°	0 dB	0°	155°	+60°	223°	+18°	1.3dB	215°K	369430 +107 Hz
2029-01-29	Monday	15:00	169°	+61°	0 dB	0°	169°	+61°	231°	+18°	1.3dB	214°K	369345 +70 Hz
2029-01-29	Monday	15:30	184°	+61°	0 dB	0°	184°	+61°	238°	+18°	1.3dB	213°K	369262 +32 Hz
2029-01-29	Monday	16:00	198°	+60°	0 dB	0°	198°	+60°	245°	+18°	1.3dB	212°K	369178 -5 Hz
2029-01-29	Monday	16:30	211°	+58°	0 dB	0°	211°	+58°	252°	+18°	1.2dB	210°K	369095 -41 Hz
2029-01-29	Monday	17:00	222°	+55°	0 dB	0°	222°	+55°	260°	+18°	1.2dB	209°K	369013 -77 Hz
2029-01-29	Monday	17:30	232°	+51°	0 dB	0°	232°	+51°	267°	+18°	1.2dB	208°K	368931 -110 Hz
2029-01-29	Monday	18:00	240°	+47°	0 dB	0°	240°	+47°	274°	+18°	1.2dB	207°K	368849 -141 Hz
2029-01-29	Monday	18:30	248°	+42°	0 dB	0°	248°	+42°	281°	+18°	1.1dB	206°K	368769 -168 Hz
2029-01-29	Monday	19:00	254°	+38°	0 dB	0°	254°	+38°	288°	+18°	1.1dB	205°K	368688 -192 Hz
2029-01-29	Monday	19:30	260°	+33°	0 dB	0°	260°	+33°	296°	+17°	1.1dB	204°K	368608 -213 Hz
2029-01-29	Monday	20:00	266°	+27°	0 dB	0°	266°	+27°	303°	+17°	1.1dB	203°K	368529 -229 Hz
2029-01-29	Monday	20:30	271°	+22°	0 dB	0°	271°	+22°	310°	+17°	1.1dB	202°K	368450 -240 Hz
2029-01-29	Monday	21:00	276°	+17°	0 dB	0°	276°	+17°	317°	+17°	1.0dB	201°K	368372 -247 Hz
2029-01-29	Monday	21:30	281°	+12°	0 dB	0°	281°	+12°	325°	+17°	1.0dB	200°K	368294 -250 Hz
2029-01-29	Monday	22:00	286°	+7°	0 dB	0°	286°	+7°	332°	+17°	1.0dB	199°K	368217 -248 Hz
2029-01-29	Monday	22:30	291°	+2°	0 dB	0°	291°	+2°	339°	+17°	1.0dB	198°K	368141 -241 Hz
2029-01-30	Tuesday	09:30	074°	+4°	0 dB	0°	074°	+4°	138°	+15°	0.5dB	176°K	366596 +316 Hz
2029-01-30	Tuesday	10:00	079°	+9°	0 dB	0°	079°	+9°	145°	+14°	0.5dB	175°K	366533 +320 Hz
2029-01-30	Tuesday	10:30	084°	+14°	0 dB	0°	084°	+14°	152°	+14°	0.5dB	174°K	366470 +319 Hz
2029-01-30	Tuesday	11:00	090°	+19°	0 dB	0°	090°	+19°	160°	+14°	0.5dB	174°K	366407 +314 Hz
2029-01-30	Tuesday	11:30	095°	+24°	0 dB	0°	095°	+24°	167°	+14°	0.5dB	174°K	366345 +304 Hz
2029-01-30	Tuesday	12:00	101°	+29°	0 dB	0°	101°	+29°	174°	+14°	0.5dB	175°K	366284 +289 Hz
2029-01-30	Tuesday	12:30	107°	+33°	0 dB	0°	107°	+33°	181°	+14°	0.5dB	175°K	366224 +271 Hz
2029-01-30	Tuesday	13:00	113°	+38°	0 dB	0°	113°	+38°	189°	+14°	0.5dB	175°K	366164 +248 Hz
2029-01-30	Tuesday	13:30	121°	+42°	0 dB	0°	121°	+42°	196°	+14°	0.5dB	176°K	366104 +221 Hz
2029-01-30	Tuesday	14:00	129°	+47°	0 dB	0°	129°	+47°	203°	+14°	0.5dB	176°K	366045 +191 Hz
2029-01-30	Tuesday	14:30	138°	+50°	0 dB	0°	138°	+50°	210°	+13°	0.5dB	176°K	365987 +158 Hz
2029-01-30	Tuesday	15:00	149°	+53°	0 dB	0°	149°	+53°	218°	+13°	0.5dB	177°K	365930 +123 Hz
2029-01-30	Tuesday	15:30	160°	+55°	0 dB	0°	160°	+55°	225°	+13°	0.5dB	177°K	365873 +86 Hz
2029-01-30	Tuesday	16:00	173°	+56°	0 dB	0°	173°	+56°	232°	+13°	0.5dB	177°K	365816 +48 Hz
2029-01-30	Tuesday	16:30	186°	+56°	0 dB	0°	186°	+56°	239°	+13°	0.5dB	178°K	365761 +9 Hz
2029-01-30	Tuesday	17:00	198°	+55°	0 dB	0°	198°	+55°	246°	+13°	0.5dB	178°K	365705 -29 Hz
2029-01-30	Tuesday	17:30	210°	+53°	0 dB	0°	210°	+53°	254°	+13°	0.5dB	178°K	365651 -67 Hz
2029-01-30	Tuesday	18:00	220°	+50°	0 dB	0°	220°	+50°	261°	+13°	0.5dB	179°K	365597 -102 Hz
2029-01-30	Tuesday	18:30	229°	+46°	0 dB	0°	229°	+46°	268°	+13°	0.5dB	179°K	365544 -136 Hz
2029-01-30	Tuesday	19:00	237°	+42°	0 dB	0°	237°	+42°	275°	+12°	0.5dB	179°K	365491 -167 Hz
2029-01-30	Tuesday	19:30	245°	+38°	0 dB	0°	245°	+38°	283°	+12°	0.5dB	180°K	365439 -194 Hz
2029-01-30	Tuesday	20:00	251°	+33°	0 dB	0°	251°	+33°	290°	+12°	0.5dB	180°K	365387 -218 Hz
2029-01-30	Tuesday	20:30	257°	+28°	0 dB	0°	257°	+28°	297°	+12°	0.5dB	180°K	365337 -238 Hz
2029-01-30	Tuesday	21:00	263°	+23°	0 dB	0°	263°	+23°	304°	+12°	0.6dB	181°K	365286 -254 Hz
2029-01-30	Tuesday	21:30	268°	+18°	0 dB	0°	268°	+18°	312°	+12°	0.6dB	181°K	365237 -265 Hz
2029-01-30	Tuesday	22:00	273°	+13°	0 dB	0°	273°	+13°	319°	+12°	0.6dB	181°K	365188 -271 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-01-30	Tuesday 22:30	278°	+7°	0 dB	0°	278°	+7°	326°	+12°	0.6dB	182°K	365139	-273 Hz
2029-01-30	Tuesday 23:00	283°	+2°	0 dB	0°	283°	+2°	333°	+12°	0.6dB	182°K	365092	-270 Hz
2029-01-31	Wednesday 10:30	079°	+1°	0 dB	0°	079°	+1°	140°	+9°	0.6dB	186°K	364169	+305 Hz
2029-01-31	Wednesday 11:00	085°	+6°	0 dB	0°	085°	+6°	147°	+9°	0.6dB	186°K	364137	+308 Hz
2029-01-31	Wednesday 11:30	090°	+11°	0 dB	0°	090°	+11°	154°	+9°	0.6dB	186°K	364105	+306 Hz
2029-01-31	Wednesday 12:00	095°	+16°	0 dB	0°	095°	+16°	161°	+8°	0.6dB	186°K	364074	+300 Hz
2029-01-31	Wednesday 12:30	101°	+21°	0 dB	0°	101°	+21°	169°	+8°	0.6dB	187°K	364043	+288 Hz
2029-01-31	Wednesday 13:00	107°	+25°	0 dB	0°	107°	+25°	176°	+8°	0.6dB	187°K	364013	+273 Hz
2029-01-31	Wednesday 13:30	113°	+30°	0 dB	0°	113°	+30°	183°	+8°	0.6dB	187°K	363984	+252 Hz
2029-01-31	Wednesday 14:00	120°	+34°	0 dB	0°	120°	+34°	190°	+8°	0.6dB	187°K	363955	+228 Hz
2029-01-31	Wednesday 14:30	127°	+39°	0 dB	0°	127°	+39°	198°	+8°	0.6dB	188°K	363927	+200 Hz
2029-01-31	Wednesday 15:00	135°	+42°	0 dB	0°	135°	+42°	205°	+8°	0.6dB	188°K	363900	+168 Hz
2029-01-31	Wednesday 15:30	144°	+45°	0 dB	0°	144°	+45°	212°	+8°	0.6dB	188°K	363873	+134 Hz
2029-01-31	Wednesday 16:00	154°	+48°	0 dB	0°	154°	+48°	219°	+7°	0.6dB	189°K	363847	+98 Hz
2029-01-31	Wednesday 16:30	165°	+50°	0 dB	0°	165°	+50°	226°	+7°	0.6dB	189°K	363822	+60 Hz
2029-01-31	Wednesday 17:00	176°	+50°	0 dB	0°	176°	+50°	234°	+7°	0.6dB	189°K	363797	+21 Hz
2029-01-31	Wednesday 17:30	188°	+50°	0 dB	0°	188°	+50°	241°	+7°	0.6dB	190°K	363773	-19 Hz
2029-01-31	Wednesday 18:00	199°	+49°	0 dB	0°	199°	+49°	248°	+7°	0.6dB	190°K	363749	-57 Hz
2029-01-31	Wednesday 18:30	209°	+47°	0 dB	0°	209°	+47°	255°	+7°	0.6dB	190°K	363727	-95 Hz
2029-01-31	Wednesday 19:00	218°	+44°	0 dB	0°	218°	+44°	263°	+7°	0.7dB	191°K	363704	-131 Hz
2029-01-31	Wednesday 19:30	227°	+40°	0 dB	0°	227°	+40°	270°	+7°	0.7dB	191°K	363683	-164 Hz
2029-01-31	Wednesday 20:00	235°	+36°	0 dB	0°	235°	+36°	277°	+6°	0.7dB	191°K	363662	-195 Hz
2029-01-31	Wednesday 20:30	242°	+32°	0 dB	0°	242°	+32°	284°	+6°	0.7dB	192°K	363642	-222 Hz
2029-01-31	Wednesday 21:00	248°	+27°	0 dB	0°	248°	+27°	292°	+6°	0.7dB	192°K	363622	-245 Hz
2029-01-31	Wednesday 21:30	254°	+22°	0 dB	0°	254°	+22°	299°	+6°	0.7dB	192°K	363603	-264 Hz
2029-01-31	Wednesday 22:00	259°	+17°	0 dB	0°	259°	+17°	306°	+6°	0.7dB	193°K	363584	-279 Hz
2029-01-31	Wednesday 22:30	265°	+12°	0 dB	0°	265°	+12°	313°	+6°	0.7dB	193°K	363567	-288 Hz
2029-01-31	Wednesday 23:00	270°	+7°	0 dB	0°	270°	+7°	321°	+6°	0.7dB	193°K	363550	-293 Hz
2029-01-31	Wednesday 23:30	275°	+2°	0 dB	0°	275°	+2°	328°	+6°	0.7dB	194°K	363533	-294 Hz
2029-02-01	Thursday 12:00	090°	+3°	0 dB	0°	090°	+3°	149°	+2°	0.8dB	202°K	363326	+293 Hz
2029-02-01	Thursday 12:30	096°	+8°	0 dB	0°	096°	+8°	156°	+2°	0.8dB	202°K	363326	+290 Hz
2029-02-01	Thursday 13:00	101°	+12°	0 dB	0°	101°	+12°	163°	+2°	0.8dB	202°K	363326	+282 Hz
2029-02-01	Thursday 13:30	107°	+17°	0 dB	0°	107°	+17°	171°	+2°	0.8dB	203°K	363327	+269 Hz
2029-02-01	Thursday 14:00	113°	+22°	0 dB	0°	113°	+22°	178°	+2°	0.8dB	203°K	363329	+252 Hz
2029-02-01	Thursday 14:30	119°	+26°	0 dB	0°	119°	+26°	185°	+2°	0.8dB	203°K	363331	+230 Hz
2029-02-01	Thursday 15:00	126°	+30°	0 dB	0°	126°	+30°	192°	+2°	0.9dB	204°K	363334	+204 Hz
2029-02-01	Thursday 15:30	133°	+34°	0 dB	0°	133°	+34°	200°	+1°	0.9dB	204°K	363337	+175 Hz
2029-02-01	Thursday 16:00	141°	+37°	0 dB	0°	141°	+37°	207°	+1°	0.9dB	204°K	363341	+142 Hz
2029-02-01	Thursday 16:30	150°	+40°	0 dB	0°	150°	+40°	214°	+1°	0.9dB	205°K	363346	+107 Hz
2029-02-01	Thursday 17:00	160°	+42°	0 dB	0°	160°	+42°	221°	+1°	0.9dB	205°K	363351	+70 Hz
2029-02-01	Thursday 17:30	169°	+43°	0 dB	0°	169°	+43°	228°	+1°	0.9dB	205°K	363357	+32 Hz
2029-02-01	Thursday 18:00	180°	+44°	0 dB	0°	180°	+44°	236°	+1°	0.9dB	206°K	363363	-8 Hz
2029-02-01	Thursday 18:30	190°	+43°	0 dB	0°	190°	+43°	243°	+1°	0.9dB	206°K	363370	-47 Hz
2029-02-01	Thursday 19:00	199°	+42°	0 dB	0°	199°	+42°	250°	+0°	0.9dB	206°K	363378	-86 Hz
2029-02-01	Thursday 19:30	209°	+40°	0 dB	0°	209°	+40°	257°	+0°	0.9dB	207°K	363386	-123 Hz
2029-02-01	Thursday 20:00	217°	+37°	0 dB	0°	217°	+37°	265°	+0°	0.9dB	207°K	363395	-158 Hz
2029-02-01	Thursday 20:30	225°	+33°	0 dB	0°	225°	+33°	272°	+0°	0.9dB	207°K	363404	-191 Hz
2029-02-01	Thursday 21:00	232°	+29°	0 dB	0°	232°	+29°	279°	-0°	0.9dB	208°K	363414	-220 Hz
2029-02-01	Thursday 21:30	239°	+25°	0 dB	0°	239°	+25°	286°	-0°	0.9dB	208°K	363425	-246 Hz
2029-02-01	Thursday 22:00	245°	+21°	0 dB	0°	245°	+21°	294°	-0°	0.9dB	208°K	363436	-268 Hz
2029-02-01	Thursday 22:30	251°	+16°	0 dB	0°	251°	+16°	301°	-0°	0.9dB	209°K	363448	-286 Hz
2029-02-01	Thursday 23:00	257°	+11°	0 dB	0°	257°	+11°	308°	-1°	0.9dB	209°K	363460	-299 Hz
2029-02-01	Thursday 23:30	262°	+6°	0 dB	0°	262°	+6°	315°	-1°	0.9dB	209°K	363473	-307 Hz
2029-02-02	Friday 00:00	267°	+1°	0 dB	0°	267°	+1°	323°	-1°	1.0dB	210°K	363486	-311 Hz
2029-02-02	Friday 13:30	102°	+4°	0 dB	0°	102°	+4°	158°	-4°	1.5dB	243°K	364060	+271 Hz
2029-02-02	Friday 14:00	107°	+9°	0 dB	0°	107°	+9°	165°	-4°	1.5dB	245°K	364088	+261 Hz
2029-02-02	Friday 14:30	113°	+14°	0 dB	0°	113°	+14°	173°	-5°	1.6dB	247°K	364118	+247 Hz
2029-02-02	Friday 15:00	119°	+18°	0 dB	0°	119°	+18°	180°	-5°	1.6dB	249°K	364147	+229 Hz
2029-02-02	Friday 15:30	125°	+22°	0 dB	0°	125°	+22°	187°	-5°	1.6dB	250°K	364178	+206 Hz
2029-02-02	Friday 16:00	132°	+26°	0 dB	0°	132°	+26°	194°	-5°	1.6dB	252°K	364208	+179 Hz
2029-02-02	Friday 16:30	139°	+29°	0 dB	0°	139°	+29°	202°	-5°	1.7dB	254°K	364240	+149 Hz
2029-02-02	Friday 17:00	147°	+32°	0 dB	0°	147°	+32°	209°	-5°	1.7dB	256°K	364271	+116 Hz
2029-02-02	Friday 17:30	155°	+35°	0 dB	0°	155°	+35°	216°	-5°	1.7dB	258°K	364304	+81 Hz
2029-02-02	Friday 18:00	164°	+36°	0 dB	0°	164°	+36°	223°	-5°	1.7dB	259°K	364336	+43 Hz
2029-02-02	Friday 18:30	173°	+37°	0 dB	0°	173°	+37°	231°	-6°	1.8dB	261°K	364370	+5 Hz
2029-02-02	Friday 19:00	182°	+37°	0 dB	0°	182°	+37°	238°	-6°	1.8dB	263°K	364404	-34 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-02	Friday	19:30	191°	+37°	0 dB	0°	191°	+37°	245°	-6°	1.8dB	265°K	364438	-73 Hz
2029-02-02	Friday	20:00	200°	+35°	0 dB	0°	200°	+35°	252°	-6°	1.8dB	267°K	364473	-111 Hz
2029-02-02	Friday	20:30	209°	+33°	0 dB	0°	209°	+33°	260°	-6°	1.9dB	269°K	364508	-147 Hz
2029-02-02	Friday	21:00	216°	+30°	0 dB	0°	216°	+30°	267°	-6°	1.9dB	271°K	364543	-181 Hz
2029-02-02	Friday	21:30	224°	+27°	0 dB	0°	224°	+27°	274°	-6°	1.9dB	273°K	364580	-212 Hz
2029-02-02	Friday	22:00	230°	+23°	0 dB	0°	230°	+23°	281°	-6°	2.0dB	275°K	364616	-240 Hz
2029-02-02	Friday	22:30	237°	+19°	0 dB	0°	237°	+19°	289°	-7°	2.0dB	277°K	364653	-265 Hz
2029-02-02	Friday	23:00	243°	+14°	0 dB	0°	243°	+14°	296°	-7°	2.0dB	279°K	364691	-285 Hz
2029-02-02	Friday	23:30	248°	+10°	0 dB	0°	248°	+10°	303°	-7°	2.0dB	281°K	364729	-301 Hz
2029-02-03	Saturday	00:00	254°	+5°	0 dB	0°	254°	+5°	310°	-7°	2.1dB	283°K	364768	-312 Hz
2029-02-03	Saturday	00:30	259°	-0°	0 dB	0°	259°	-0°	318°	-7°	2.1dB	285°K	364807	-319 Hz
2029-02-03	Saturday	14:30	107°	+1°	0 dB	0°	107°	+1°	160°	-11°	2.5dB	313°K	366076	+252 Hz
2029-02-03	Saturday	15:00	113°	+6°	0 dB	0°	113°	+6°	167°	-11°	2.5dB	313°K	366127	+241 Hz
2029-02-03	Saturday	15:30	119°	+10°	0 dB	0°	119°	+10°	175°	-11°	2.5dB	313°K	366179	+226 Hz
2029-02-03	Saturday	16:00	124°	+14°	0 dB	0°	124°	+14°	182°	-11°	2.5dB	313°K	366231	+207 Hz
2029-02-03	Saturday	16:30	131°	+18°	0 dB	0°	131°	+18°	189°	-11°	2.5dB	313°K	366283	+183 Hz
2029-02-03	Saturday	17:00	137°	+22°	0 dB	0°	137°	+22°	196°	-11°	2.5dB	313°K	366336	+156 Hz
2029-02-03	Saturday	17:30	144°	+25°	0 dB	0°	144°	+25°	204°	-11°	2.5dB	313°K	366389	+126 Hz
2029-02-03	Saturday	18:00	152°	+27°	0 dB	0°	152°	+27°	211°	-11°	2.5dB	313°K	366442	+93 Hz
2029-02-03	Saturday	18:30	160°	+29°	0 dB	0°	160°	+29°	218°	-11°	2.5dB	313°K	366496	+57 Hz
2029-02-03	Saturday	19:00	168°	+31°	0 dB	0°	168°	+31°	225°	-12°	2.5dB	313°K	366550	+21 Hz
2029-02-03	Saturday	19:30	176°	+31°	0 dB	0°	176°	+31°	233°	-12°	2.5dB	313°K	366605	-17 Hz
2029-02-03	Saturday	20:00	184°	+31°	0 dB	0°	184°	+31°	240°	-12°	2.5dB	313°K	366660	-55 Hz
2029-02-03	Saturday	20:30	193°	+30°	0 dB	0°	193°	+30°	247°	-12°	2.5dB	313°K	366715	-93 Hz
2029-02-03	Saturday	21:00	201°	+29°	0 dB	0°	201°	+29°	254°	-12°	2.5dB	313°K	366771	-129 Hz
2029-02-03	Saturday	21:30	208°	+26°	0 dB	0°	208°	+26°	262°	-12°	2.5dB	312°K	366827	-164 Hz
2029-02-03	Saturday	22:00	216°	+24°	0 dB	0°	216°	+24°	269°	-12°	2.5dB	312°K	366883	-197 Hz
2029-02-03	Saturday	22:30	222°	+20°	0 dB	0°	222°	+20°	276°	-12°	2.5dB	312°K	366940	-226 Hz
2029-02-03	Saturday	23:00	229°	+17°	0 dB	0°	229°	+17°	283°	-12°	2.5dB	311°K	366997	-253 Hz
2029-02-03	Saturday	23:30	235°	+13°	0 dB	0°	235°	+13°	290°	-13°	2.5dB	311°K	367054	-275 Hz
2029-02-04	Sunday	00:00	240°	+8°	0 dB	0°	240°	+8°	298°	-13°	2.5dB	311°K	367112	-294 Hz
2029-02-04	Sunday	00:30	246°	+4°	0 dB	0°	246°	+4°	305°	-13°	2.5dB	310°K	367170	-308 Hz
2029-02-04	Sunday	16:00	118°	+3°	0 dB	0°	118°	+3°	169°	-16°	2.6dB	314°K	369115	+223 Hz
2029-02-04	Sunday	16:30	123°	+7°	0 dB	0°	123°	+7°	176°	-16°	2.7dB	315°K	369182	+208 Hz
2029-02-04	Sunday	17:00	129°	+11°	0 dB	0°	129°	+11°	184°	-16°	2.7dB	316°K	369249	+188 Hz
2029-02-04	Sunday	17:30	135°	+14°	0 dB	0°	135°	+14°	191°	-16°	2.7dB	316°K	369317	+164 Hz
2029-02-04	Sunday	18:00	142°	+18°	0 dB	0°	142°	+18°	198°	-16°	2.7dB	317°K	369385	+137 Hz
2029-02-04	Sunday	18:30	148°	+20°	0 dB	0°	148°	+20°	205°	-17°	2.7dB	318°K	369453	+107 Hz
2029-02-04	Sunday	19:00	155°	+23°	0 dB	0°	155°	+23°	213°	-17°	2.7dB	319°K	369521	+74 Hz
2029-02-04	Sunday	19:30	163°	+24°	0 dB	0°	163°	+24°	220°	-17°	2.7dB	320°K	369589	+40 Hz
2029-02-04	Sunday	20:00	170°	+26°	0 dB	0°	170°	+26°	227°	-17°	2.8dB	321°K	369658	+4 Hz
2029-02-04	Sunday	20:30	178°	+26°	0 dB	0°	178°	+26°	234°	-17°	2.8dB	322°K	369727	-33 Hz
2029-02-04	Sunday	21:00	186°	+26°	0 dB	0°	186°	+26°	241°	-17°	2.8dB	322°K	369796	-70 Hz
2029-02-04	Sunday	21:30	193°	+25°	0 dB	0°	193°	+25°	249°	-17°	2.8dB	323°K	369865	-106 Hz
2029-02-04	Sunday	22:00	201°	+23°	0 dB	0°	201°	+23°	256°	-17°	2.8dB	324°K	369935	-141 Hz
2029-02-04	Sunday	22:30	208°	+21°	0 dB	0°	208°	+21°	263°	-17°	2.8dB	325°K	370004	-174 Hz
2029-02-04	Sunday	23:00	215°	+18°	0 dB	0°	215°	+18°	270°	-17°	2.8dB	326°K	370074	-205 Hz
2029-02-04	Sunday	23:30	221°	+15°	0 dB	0°	221°	+15°	278°	-18°	2.8dB	327°K	370144	-233 Hz
2029-02-05	Monday	00:00	227°	+12°	0 dB	0°	227°	+12°	285°	-18°	2.9dB	328°K	370215	-258 Hz
2029-02-05	Monday	00:30	233°	+8°	0 dB	0°	233°	+8°	292°	-18°	2.9dB	330°K	370285	-279 Hz
2029-02-05	Monday	01:00	239°	+3°	0 dB	0°	239°	+3°	299°	-18°	2.9dB	331°K	370356	-296 Hz
2029-02-05	Monday	17:00	121°	-0°	0 dB	0°	121°	-0°	170°	-20°	3.4dB	373°K	372706	+210 Hz
2029-02-05	Monday	17:30	127°	+4°	0 dB	0°	127°	+4°	178°	-21°	3.5dB	375°K	372782	+194 Hz
2029-02-05	Monday	18:00	132°	+8°	0 dB	0°	132°	+8°	185°	-21°	3.5dB	376°K	372858	+174 Hz
2029-02-05	Monday	18:30	138°	+11°	0 dB	0°	138°	+11°	192°	-21°	3.5dB	377°K	372933	+150 Hz
2029-02-05	Monday	19:00	145°	+14°	0 dB	0°	145°	+14°	199°	-21°	3.5dB	378°K	373010	+124 Hz
2029-02-05	Monday	19:30	151°	+17°	0 dB	0°	151°	+17°	207°	-21°	3.5dB	380°K	373086	+94 Hz
2029-02-05	Monday	20:00	158°	+19°	0 dB	0°	158°	+19°	214°	-21°	3.6dB	381°K	373162	+62 Hz
2029-02-05	Monday	20:30	165°	+21°	0 dB	0°	165°	+21°	221°	-21°	3.6dB	382°K	373238	+29 Hz
2029-02-05	Monday	21:00	172°	+21°	0 dB	0°	172°	+21°	228°	-21°	3.6dB	383°K	373315	-6 Hz
2029-02-05	Monday	21:30	179°	+22°	0 dB	0°	179°	+22°	235°	-21°	3.6dB	384°K	373392	-42 Hz
2029-02-05	Monday	22:00	187°	+21°	0 dB	0°	187°	+21°	243°	-21°	3.6dB	386°K	373468	-77 Hz
2029-02-05	Monday	22:30	194°	+20°	0 dB	0°	194°	+20°	250°	-21°	3.6dB	387°K	373545	-112 Hz
2029-02-05	Monday	23:00	201°	+19°	0 dB	0°	201°	+19°	257°	-21°	3.6dB	388°K	373622	-146 Hz
2029-02-05	Monday	23:30	208°	+17°	0 dB	0°	208°	+17°	264°	-21°	3.7dB	389°K	373699	-178 Hz
2029-02-06	Tuesday	00:00	214°	+14°	0 dB	0°	214°	+14°	272°	-21°	3.7dB	391°K	373776	-207 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-06	Tuesday	00:30	220°	+11°	0 dB	0°	220°	+11°	279°	-22°	3.7dB	392°K	373853	-234 Hz
2029-02-06	Tuesday	01:00	226°	+8°	0 dB	0°	226°	+8°	286°	-22°	3.7dB	393°K	373930	-257 Hz
2029-02-06	Tuesday	01:30	232°	+4°	0 dB	0°	232°	+4°	293°	-22°	3.7dB	394°K	374008	-277 Hz
2029-02-06	Tuesday	02:00	237°	-0°	0 dB	0°	237°	-0°	300°	-22°	3.7dB	395°K	374085	-293 Hz
2029-02-06	Tuesday	18:30	129°	+2°	0 dB	0°	129°	+2°	179°	-24°	4.3dB	447°K	376673	+186 Hz
2029-02-06	Tuesday	19:00	135°	+6°	0 dB	0°	135°	+6°	186°	-24°	4.3dB	449°K	376752	+166 Hz
2029-02-06	Tuesday	19:30	141°	+9°	0 dB	0°	141°	+9°	193°	-24°	4.4dB	452°K	376831	+143 Hz
2029-02-06	Tuesday	20:00	147°	+12°	0 dB	0°	147°	+12°	200°	-24°	4.4dB	454°K	376910	+116 Hz
2029-02-06	Tuesday	20:30	153°	+14°	0 dB	0°	153°	+14°	207°	-24°	4.4dB	457°K	376989	+87 Hz
2029-02-06	Tuesday	21:00	159°	+16°	0 dB	0°	159°	+16°	215°	-24°	4.4dB	459°K	377069	+56 Hz
2029-02-06	Tuesday	21:30	166°	+18°	0 dB	0°	166°	+18°	222°	-24°	4.5dB	462°K	377148	+23 Hz
2029-02-06	Tuesday	22:00	173°	+19°	0 dB	0°	173°	+19°	229°	-24°	4.5dB	464°K	377227	-11 Hz
2029-02-06	Tuesday	22:30	180°	+19°	0 dB	0°	180°	+19°	236°	-24°	4.5dB	467°K	377306	-46 Hz
2029-02-06	Tuesday	23:00	187°	+19°	0 dB	0°	187°	+19°	243°	-24°	4.5dB	469°K	377385	-80 Hz
2029-02-06	Tuesday	23:30	194°	+18°	0 dB	0°	194°	+18°	251°	-24°	4.6dB	472°K	377465	-114 Hz
2029-02-07	wednesday	00:00	201°	+16°	0 dB	0°	201°	+16°	258°	-24°	4.6dB	474°K	377544	-147 Hz
2029-02-07	wednesday	00:30	207°	+14°	0 dB	0°	207°	+14°	265°	-24°	4.6dB	477°K	377623	-178 Hz
2029-02-07	wednesday	01:00	214°	+11°	0 dB	0°	214°	+11°	272°	-24°	4.6dB	480°K	377703	-206 Hz
2029-02-07	wednesday	01:30	220°	+8°	0 dB	0°	220°	+8°	280°	-24°	4.7dB	486°K	377782	-232 Hz
2029-02-07	wednesday	02:00	225°	+5°	0 dB	0°	225°	+5°	287°	-24°	4.7dB	491°K	377861	-255 Hz
2029-02-07	wednesday	02:30	231°	+1°	0 dB	0°	231°	+1°	294°	-24°	4.8dB	496°K	377940	-274 Hz
2029-02-07	wednesday	19:30	131°	+1°	0 dB	0°	131°	+1°	179°	-25°	6.5dB	748°K	380630	+183 Hz
2029-02-07	wednesday	20:00	136°	+5°	0 dB	0°	136°	+5°	186°	-25°	6.6dB	759°K	380709	+163 Hz
2029-02-07	wednesday	20:30	142°	+8°	0 dB	0°	142°	+8°	194°	-25°	6.6dB	769°K	380788	+140 Hz
2029-02-07	wednesday	21:00	148°	+11°	0 dB	0°	148°	+11°	201°	-25°	6.7dB	780°K	380866	+114 Hz
2029-02-07	wednesday	21:30	154°	+13°	0 dB	0°	154°	+13°	208°	-25°	6.8dB	791°K	380945	+85 Hz
2029-02-07	wednesday	22:00	160°	+15°	0 dB	0°	160°	+15°	215°	-25°	6.8dB	802°K	381024	+54 Hz
2029-02-07	wednesday	22:30	167°	+17°	0 dB	0°	167°	+17°	222°	-25°	6.9dB	812°K	381102	+22 Hz
2029-02-07	wednesday	23:00	174°	+18°	0 dB	0°	174°	+18°	230°	-25°	6.9dB	823°K	381181	-12 Hz
2029-02-07	wednesday	23:30	181°	+18°	0 dB	0°	181°	+18°	237°	-25°	7.0dB	834°K	381259	-46 Hz
2029-02-08	Thursday	00:00	188°	+17°	0 dB	0°	188°	+17°	244°	-25°	7.0dB	844°K	381338	-81 Hz
2029-02-08	Thursday	00:30	194°	+16°	0 dB	0°	194°	+16°	251°	-25°	7.1dB	855°K	381416	-114 Hz
2029-02-08	Thursday	01:00	201°	+15°	0 dB	0°	201°	+15°	259°	-25°	7.2dB	866°K	381494	-146 Hz
2029-02-08	Thursday	01:30	208°	+13°	0 dB	0°	208°	+13°	266°	-25°	7.3dB	889°K	381573	-177 Hz
2029-02-08	Thursday	02:00	214°	+10°	0 dB	0°	214°	+10°	273°	-25°	7.4dB	919°K	381651	-205 Hz
2029-02-08	Thursday	02:30	220°	+7°	0 dB	0°	220°	+7°	280°	-25°	7.5dB	949°K	381729	-230 Hz
2029-02-08	Thursday	03:00	225°	+4°	0 dB	0°	225°	+4°	287°	-25°	7.7dB	979°K	381808	-253 Hz
2029-02-08	Thursday	03:30	231°	+0°	0 dB	0°	231°	+0°	295°	-25°	7.8dB	1009°K	381886	-271 Hz
2029-02-08	Thursday	20:30	131°	+2°	0 dB	0°	131°	+2°	180°	-25°	11.8dB	2571°K	384514	+184 Hz
2029-02-08	Thursday	21:00	137°	+5°	0 dB	0°	137°	+5°	187°	-25°	11.9dB	2639°K	384590	+164 Hz
2029-02-08	Thursday	21:30	142°	+9°	0 dB	0°	142°	+9°	194°	-25°	12.1dB	2707°K	384667	+141 Hz
2029-02-08	Thursday	22:00	148°	+12°	0 dB	0°	148°	+12°	202°	-25°	12.2dB	2775°K	384743	+114 Hz
2029-02-08	Thursday	22:30	155°	+14°	0 dB	0°	155°	+14°	209°	-25°	12.3dB	2843°K	384819	+85 Hz
2029-02-08	Thursday	23:00	161°	+16°	0 dB	0°	161°	+16°	216°	-25°	12.4dB	2911°K	384895	+54 Hz
2029-02-08	Thursday	23:30	168°	+17°	0 dB	0°	168°	+17°	223°	-25°	12.5dB	2979°K	384971	+21 Hz
2029-02-09	Friday	00:00	175°	+18°	0 dB	0°	175°	+18°	231°	-25°	12.6dB	3047°K	385047	-13 Hz
2029-02-09	Friday	00:30	182°	+18°	0 dB	0°	182°	+18°	238°	-25°	12.7dB	3115°K	385123	-47 Hz
2029-02-09	Friday	01:00	189°	+18°	0 dB	0°	189°	+18°	245°	-25°	12.8dB	3182°K	385199	-82 Hz
2029-02-09	Friday	01:30	195°	+17°	0 dB	0°	195°	+17°	252°	-25°	12.9dB	3250°K	385275	-115 Hz
2029-02-09	Friday	02:00	202°	+15°	0 dB	0°	202°	+15°	259°	-25°	12.9dB	3297°K	385351	-148 Hz
2029-02-09	Friday	02:30	208°	+13°	0 dB	0°	208°	+13°	267°	-25°	12.9dB	3248°K	385426	-178 Hz
2029-02-09	Friday	03:00	215°	+10°	0 dB	0°	215°	+10°	274°	-25°	12.8dB	3200°K	385502	-206 Hz
2029-02-09	Friday	03:30	221°	+7°	0 dB	0°	221°	+7°	281°	-25°	12.7dB	3151°K	385577	-231 Hz
2029-02-09	Friday	04:00	226°	+4°	0 dB	0°	226°	+4°	288°	-25°	12.7dB	3103°K	385653	-253 Hz
2029-02-09	Friday	04:30	232°	+0°	0 dB	0°	232°	+0°	296°	-25°	12.6dB	3055°K	385728	-272 Hz
2029-02-09	Friday	21:00	126°	-0°	0 dB	0°	126°	-0°	174°	-23°	9.7dB	1481°K	388180	+204 Hz
2029-02-09	Friday	21:30	131°	+4°	0 dB	0°	131°	+4°	181°	-23°	9.5dB	1434°K	388253	+187 Hz
2029-02-09	Friday	22:00	137°	+7°	0 dB	0°	137°	+7°	188°	-23°	9.4dB	1387°K	388326	+167 Hz
2029-02-09	Friday	22:30	143°	+11°	0 dB	0°	143°	+11°	196°	-23°	9.3dB	1341°K	388399	+142 Hz
2029-02-09	Friday	23:00	149°	+14°	0 dB	0°	149°	+14°	203°	-23°	9.1dB	1294°K	388472	+115 Hz
2029-02-09	Friday	23:30	155°	+16°	0 dB	0°	155°	+16°	210°	-23°	9.0dB	1247°K	388545	+85 Hz
2029-02-10	Saturday	00:00	162°	+18°	0 dB	0°	162°	+18°	217°	-23°	8.8dB	1200°K	388618	+53 Hz
2029-02-10	Saturday	00:30	169°	+19°	0 dB	0°	169°	+19°	225°	-23°	8.7dB	1154°K	388690	+19 Hz
2029-02-10	Saturday	01:00	176°	+20°	0 dB	0°	176°	+20°	232°	-23°	8.5dB	1107°K	388763	-16 Hz
2029-02-10	Saturday	01:30	183°	+20°	0 dB	0°	183°	+20°	239°	-23°	8.3dB	1061°K	388835	-51 Hz
2029-02-10	Saturday	02:00	190°	+19°	0 dB	0°	190°	+19°	246°	-23°	8.1dB	1014°K	388908	-86 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-10	Saturday	02:30	197°	+18°	0 dB	0°	197°	+18°	254°	-23°	7.9dB	968°K	388980	-120 Hz
2029-02-10	Saturday	03:00	204°	+17°	0 dB	0°	204°	+17°	261°	-23°	7.7dB	921°K	389053	-152 Hz
2029-02-10	Saturday	03:30	210°	+14°	0 dB	0°	210°	+14°	268°	-23°	7.5dB	875°K	389125	-183 Hz
2029-02-10	Saturday	04:00	217°	+12°	0 dB	0°	217°	+12°	275°	-23°	7.5dB	858°K	389197	-211 Hz
2029-02-10	Saturday	04:30	223°	+8°	0 dB	0°	223°	+8°	283°	-23°	7.4dB	845°K	389269	-237 Hz
2029-02-10	Saturday	05:00	228°	+5°	0 dB	0°	228°	+5°	290°	-23°	7.3dB	831°K	389341	-258 Hz
2029-02-10	Saturday	05:30	234°	+1°	0 dB	0°	234°	+1°	297°	-23°	7.3dB	818°K	389413	-277 Hz
2029-02-10	Saturday	22:00	126°	+3°	0 dB	0°	126°	+3°	176°	-20°	5.2dB	465°K	391745	+209 Hz
2029-02-10	Saturday	22:30	131°	+7°	0 dB	0°	131°	+7°	183°	-20°	5.1dB	459°K	391814	+190 Hz
2029-02-10	Saturday	23:00	137°	+11°	0 dB	0°	137°	+11°	190°	-20°	5.1dB	454°K	391884	+168 Hz
2029-02-10	Saturday	23:30	143°	+14°	0 dB	0°	143°	+14°	198°	-20°	5.0dB	448°K	391953	+142 Hz
2029-02-11	Sunday	00:00	149°	+17°	0 dB	0°	149°	+17°	205°	-20°	5.0dB	443°K	392022	+113 Hz
2029-02-11	Sunday	00:30	156°	+19°	0 dB	0°	156°	+19°	212°	-20°	4.9dB	437°K	392091	+82 Hz
2029-02-11	Sunday	01:00	163°	+21°	0 dB	0°	163°	+21°	219°	-20°	4.9dB	432°K	392160	+49 Hz
2029-02-11	Sunday	01:30	170°	+22°	0 dB	0°	170°	+22°	227°	-20°	4.8dB	426°K	392229	+14 Hz
2029-02-11	Sunday	02:00	178°	+23°	0 dB	0°	178°	+23°	234°	-20°	4.8dB	421°K	392297	-22 Hz
2029-02-11	Sunday	02:30	185°	+23°	0 dB	0°	185°	+23°	241°	-20°	4.7dB	415°K	392366	-58 Hz
2029-02-11	Sunday	03:00	193°	+22°	0 dB	0°	193°	+22°	248°	-20°	4.7dB	410°K	392435	-94 Hz
2029-02-11	Sunday	03:30	200°	+21°	0 dB	0°	200°	+21°	256°	-20°	4.6dB	404°K	392503	-129 Hz
2029-02-11	Sunday	04:00	207°	+19°	0 dB	0°	207°	+19°	263°	-20°	4.6dB	399°K	392572	-162 Hz
2029-02-11	Sunday	04:30	214°	+16°	0 dB	0°	214°	+16°	270°	-20°	4.6dB	393°K	392640	-193 Hz
2029-02-11	Sunday	05:00	220°	+13°	0 dB	0°	220°	+13°	277°	-19°	4.5dB	388°K	392708	-221 Hz
2029-02-11	Sunday	05:30	226°	+10°	0 dB	0°	226°	+10°	285°	-19°	4.4dB	382°K	392776	-246 Hz
2029-02-11	Sunday	06:00	232°	+6°	0 dB	0°	232°	+6°	292°	-19°	4.4dB	377°K	392844	-267 Hz
2029-02-11	Sunday	06:30	238°	+2°	0 dB	0°	238°	+2°	299°	-19°	4.3dB	371°K	392912	-285 Hz
2029-02-11	Sunday	22:30	120°	+4°	0 dB	0°	120°	+4°	171°	-17°	4.0dB	326°K	395041	+229 Hz
2029-02-11	Sunday	23:00	125°	+8°	0 dB	0°	125°	+8°	179°	-17°	4.0dB	326°K	395106	+212 Hz
2029-02-11	Sunday	23:30	131°	+12°	0 dB	0°	131°	+12°	186°	-17°	4.0dB	326°K	395171	+191 Hz
2029-02-12	Monday	00:00	137°	+16°	0 dB	0°	137°	+16°	193°	-16°	4.0dB	326°K	395236	+167 Hz
2029-02-12	Monday	00:30	144°	+19°	0 dB	0°	144°	+19°	201°	-16°	4.0dB	326°K	395300	+139 Hz
2029-02-12	Monday	01:00	151°	+22°	0 dB	0°	151°	+22°	208°	-16°	4.0dB	326°K	395365	+108 Hz
2029-02-12	Monday	01:30	158°	+24°	0 dB	0°	158°	+24°	215°	-16°	4.0dB	326°K	395429	+75 Hz
2029-02-12	Monday	02:00	165°	+26°	0 dB	0°	165°	+26°	222°	-16°	4.0dB	326°K	395494	+40 Hz
2029-02-12	Monday	02:30	173°	+27°	0 dB	0°	173°	+27°	230°	-16°	4.0dB	326°K	395558	+3 Hz
2029-02-12	Monday	03:00	181°	+27°	0 dB	0°	181°	+27°	237°	-16°	4.0dB	326°K	395622	-34 Hz
2029-02-12	Monday	03:30	189°	+27°	0 dB	0°	189°	+27°	244°	-16°	4.0dB	326°K	395686	-71 Hz
2029-02-12	Monday	04:00	197°	+26°	0 dB	0°	197°	+26°	251°	-16°	4.0dB	326°K	395750	-107 Hz
2029-02-12	Monday	04:30	204°	+24°	0 dB	0°	204°	+24°	259°	-16°	4.0dB	326°K	395814	-142 Hz
2029-02-12	Monday	05:00	211°	+22°	0 dB	0°	211°	+22°	266°	-16°	4.0dB	326°K	395877	-175 Hz
2029-02-12	Monday	05:30	218°	+19°	0 dB	0°	218°	+19°	273°	-15°	4.0dB	326°K	395941	-206 Hz
2029-02-12	Monday	06:00	225°	+16°	0 dB	0°	225°	+16°	280°	-15°	4.0dB	326°K	396005	-234 Hz
2029-02-12	Monday	06:30	231°	+12°	0 dB	0°	231°	+12°	288°	-15°	4.0dB	326°K	396068	-258 Hz
2029-02-12	Monday	07:00	237°	+8°	0 dB	0°	237°	+8°	295°	-15°	4.0dB	326°K	396131	-278 Hz
2029-02-12	Monday	07:30	242°	+4°	0 dB	0°	242°	+4°	302°	-15°	4.0dB	326°K	396194	-295 Hz
2029-02-12	Monday	22:30	109°	-0°	0 dB	0°	109°	-0°	160°	-12°	4.1dB	SUN!	398036	+256 Hz
2029-02-12	Monday	23:00	114°	+5°	0 dB	0°	114°	+5°	168°	-12°	4.1dB	SUN!	398095	+246 Hz
2029-02-12	Monday	23:30	120°	+9°	0 dB	0°	120°	+9°	175°	-12°	4.1dB	SUN!	398155	+231 Hz
2029-02-13	Tuesday	00:00	125°	+14°	0 dB	0°	125°	+14°	182°	-12°	4.1dB	SUN!	398214	+212 Hz
2029-02-13	Tuesday	00:30	132°	+18°	0 dB	0°	132°	+18°	190°	-12°	4.1dB	SUN!	398273	+189 Hz
2029-02-13	Tuesday	01:00	138°	+21°	0 dB	0°	138°	+21°	197°	-12°	4.1dB	SUN!	398332	+162 Hz
2029-02-13	Tuesday	01:30	145°	+25°	0 dB	0°	145°	+25°	204°	-12°	4.1dB	SUN!	398390	+132 Hz
2029-02-13	Tuesday	02:00	152°	+27°	0 dB	0°	152°	+27°	211°	-12°	4.1dB	SUN!	398449	+99 Hz
2029-02-13	Tuesday	02:30	160°	+29°	0 dB	0°	160°	+29°	219°	-12°	4.1dB	SUN!	398508	+64 Hz
2029-02-13	Tuesday	03:00	168°	+31°	0 dB	0°	168°	+31°	226°	-11°	4.1dB	SUN!	398566	+27 Hz
2029-02-13	Tuesday	03:30	177°	+32°	0 dB	0°	177°	+32°	233°	-11°	4.1dB	SUN!	398624	-11 Hz
2029-02-13	Tuesday	04:00	185°	+32°	0 dB	0°	185°	+32°	240°	-11°	4.1dB	SUN!	398682	-49 Hz
2029-02-13	Tuesday	04:30	194°	+31°	0 dB	0°	194°	+31°	248°	-11°	4.1dB	SUN!	398740	-87 Hz
2029-02-13	Tuesday	05:00	202°	+29°	0 dB	0°	202°	+29°	255°	-11°	4.1dB	SUN!	398798	-124 Hz
2029-02-13	Tuesday	05:30	210°	+27°	0 dB	0°	210°	+27°	262°	-11°	4.1dB	SUN!	398856	-159 Hz
2029-02-13	Tuesday	06:00	217°	+25°	0 dB	0°	217°	+25°	270°	-11°	4.1dB	SUN!	398913	-192 Hz
2029-02-13	Tuesday	06:30	224°	+21°	0 dB	0°	224°	+21°	277°	-11°	4.1dB	SUN!	398970	-222 Hz
2029-02-13	Tuesday	07:00	231°	+18°	0 dB	0°	231°	+18°	284°	-11°	4.0dB	SUN!	399028	-248 Hz
2029-02-13	Tuesday	07:30	237°	+14°	0 dB	0°	237°	+14°	291°	-11°	4.0dB	SUN!	399085	-271 Hz
2029-02-13	Tuesday	08:00	243°	+10°	0 dB	0°	243°	+10°	299°	-10°	4.0dB	SUN!	399142	-290 Hz
2029-02-13	Tuesday	08:30	248°	+5°	0 dB	0°	248°	+5°	306°	-10°	4.0dB	SUN!	399198	-304 Hz
2029-02-13	Tuesday	09:00	254°	+0°	0 dB	0°	254°	+0°	313°	-10°	4.0dB	SUN!	399255	-313 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-13	Tuesday 23:00	103°	+1°	0 dB	0°	103°	+1°	157°	-7°	3.7dB	SUN!	400774	+269 Hz
2029-02-13	Tuesday 23:30	109°	+6°	0 dB	0°	109°	+6°	165°	-7°	3.7dB	SUN!	400826	+261 Hz
2029-02-14	wednesday00:00	114°	+11°	0 dB	0°	114°	+11°	172°	-7°	3.6dB	SUN!	400877	+248 Hz
2029-02-14	wednesday00:30	120°	+16°	0 dB	0°	120°	+16°	179°	-7°	3.6dB	SUN!	400929	+230 Hz
2029-02-14	wednesday01:00	126°	+20°	0 dB	0°	126°	+20°	186°	-7°	3.6dB	SUN!	400980	+208 Hz
2029-02-14	wednesday01:30	132°	+24°	0 dB	0°	132°	+24°	194°	-7°	3.6dB	SUN!	401031	+182 Hz
2029-02-14	wednesday02:00	140°	+28°	0 dB	0°	140°	+28°	201°	-7°	3.6dB	SUN!	401082	+153 Hz
2029-02-14	wednesday02:30	147°	+31°	0 dB	0°	147°	+31°	208°	-7°	3.5dB	SUN!	401132	+120 Hz
2029-02-14	wednesday03:00	155°	+33°	0 dB	0°	155°	+33°	216°	-7°	3.5dB	SUN!	401183	+85 Hz
2029-02-14	wednesday03:30	164°	+35°	0 dB	0°	164°	+35°	223°	-6°	3.5dB	SUN!	401233	+48 Hz
2029-02-14	wednesday04:00	173°	+36°	0 dB	0°	173°	+36°	230°	-6°	3.5dB	SUN!	401283	+10 Hz
2029-02-14	wednesday04:30	182°	+37°	0 dB	0°	182°	+37°	237°	-6°	3.5dB	SUN!	401333	-29 Hz
2029-02-14	wednesday05:00	191°	+36°	0 dB	0°	191°	+36°	245°	-6°	3.5dB	SUN!	401382	-68 Hz
2029-02-14	wednesday05:30	200°	+35°	0 dB	0°	200°	+35°	252°	-6°	3.4dB	SUN!	401432	-106 Hz
2029-02-14	wednesday06:00	208°	+33°	0 dB	0°	208°	+33°	259°	-6°	3.4dB	SUN!	401481	-142 Hz
2029-02-14	wednesday06:30	216°	+31°	0 dB	0°	216°	+31°	267°	-6°	3.4dB	SUN!	401530	-177 Hz
2029-02-14	wednesday07:00	224°	+27°	0 dB	0°	224°	+27°	274°	-6°	3.4dB	SUN!	401579	-208 Hz
2029-02-14	wednesday07:30	231°	+24°	0 dB	0°	231°	+24°	281°	-6°	3.4dB	SUN!	401627	-237 Hz
2029-02-14	wednesday08:00	237°	+20°	0 dB	0°	237°	+20°	288°	-6°	3.3dB	252°K	401676	-261 Hz
2029-02-14	wednesday08:30	244°	+15°	0 dB	0°	244°	+15°	296°	-5°	3.3dB	251°K	401724	-282 Hz
2029-02-14	wednesday09:00	249°	+11°	0 dB	0°	249°	+11°	303°	-5°	3.3dB	249°K	401772	-298 Hz
2029-02-14	wednesday09:30	255°	+6°	0 dB	0°	255°	+6°	310°	-5°	3.3dB	248°K	401820	-310 Hz
2029-02-14	wednesday10:00	260°	+1°	0 dB	0°	260°	+1°	318°	-5°	3.3dB	246°K	401867	-317 Hz
2029-02-14	wednesday23:30	098°	+3°	0 dB	0°	098°	+3°	154°	-2°	3.3dB	243°K	403067	+280 Hz
2029-02-15	Thursday 00:00	103°	+8°	0 dB	0°	103°	+8°	162°	-2°	3.3dB	243°K	403109	+273 Hz
2029-02-15	Thursday 00:30	108°	+13°	0 dB	0°	108°	+13°	169°	-2°	3.3dB	243°K	403149	+262 Hz
2029-02-15	Thursday 01:00	114°	+18°	0 dB	0°	114°	+18°	176°	-2°	3.3dB	243°K	403190	+246 Hz
2029-02-15	Thursday 01:30	120°	+23°	0 dB	0°	120°	+23°	184°	-2°	3.3dB	243°K	403230	+225 Hz
2029-02-15	Thursday 02:00	127°	+27°	0 dB	0°	127°	+27°	191°	-2°	3.3dB	243°K	403270	+200 Hz
2029-02-15	Thursday 02:30	134°	+31°	0 dB	0°	134°	+31°	198°	-2°	3.3dB	243°K	403310	+172 Hz
2029-02-15	Thursday 03:00	142°	+34°	0 dB	0°	142°	+34°	206°	-2°	3.3dB	243°K	403350	+140 Hz
2029-02-15	Thursday 03:30	150°	+37°	0 dB	0°	150°	+37°	213°	-1°	3.3dB	243°K	403389	+105 Hz
2029-02-15	Thursday 04:00	159°	+40°	0 dB	0°	159°	+40°	220°	-1°	3.3dB	243°K	403428	+69 Hz
2029-02-15	Thursday 04:30	168°	+41°	0 dB	0°	168°	+41°	227°	-1°	3.3dB	243°K	403467	+30 Hz
2029-02-15	Thursday 05:00	178°	+42°	0 dB	0°	178°	+42°	235°	-1°	3.3dB	243°K	403506	-9 Hz
2029-02-15	Thursday 05:30	188°	+42°	0 dB	0°	188°	+42°	242°	-1°	3.3dB	243°K	403544	-48 Hz
2029-02-15	Thursday 06:00	198°	+41°	0 dB	0°	198°	+41°	249°	-1°	3.3dB	242°K	403582	-87 Hz
2029-02-15	Thursday 06:30	207°	+39°	0 dB	0°	207°	+39°	257°	-1°	3.3dB	242°K	403620	-124 Hz
2029-02-15	Thursday 07:00	216°	+36°	0 dB	0°	216°	+36°	264°	-1°	3.3dB	242°K	403657	-159 Hz
2029-02-15	Thursday 07:30	224°	+33°	0 dB	0°	224°	+33°	271°	-1°	3.3dB	242°K	403694	-192 Hz
2029-02-15	Thursday 08:00	231°	+30°	0 dB	0°	231°	+30°	278°	-0°	3.3dB	242°K	403731	-222 Hz
2029-02-15	Thursday 08:30	238°	+25°	0 dB	0°	238°	+25°	286°	-0°	3.3dB	242°K	403768	-249 Hz
2029-02-15	Thursday 09:00	245°	+21°	0 dB	0°	245°	+21°	293°	-0°	3.3dB	242°K	403804	-271 Hz
2029-02-15	Thursday 09:30	251°	+16°	0 dB	0°	251°	+16°	300°	-0°	3.3dB	241°K	403840	-289 Hz
2029-02-15	Thursday 10:00	256°	+12°	0 dB	0°	256°	+12°	308°	-0°	3.3dB	241°K	403876	-302 Hz
2029-02-15	Thursday 10:30	262°	+7°	0 dB	0°	262°	+7°	315°	+0°	3.3dB	241°K	403912	-311 Hz
2029-02-15	Thursday 11:00	267°	+2°	0 dB	0°	267°	+2°	322°	+0°	3.3dB	241°K	403947	-314 Hz
2029-02-15	Thursday 23:30	087°	+0°	0 dB	0°	087°	+0°	145°	+3°	3.3dB	239°K	404731	+290 Hz
2029-02-16	Friday 00:00	092°	+5°	0 dB	0°	092°	+5°	152°	+3°	3.3dB	239°K	404758	+290 Hz
2029-02-16	Friday 00:30	098°	+10°	0 dB	0°	098°	+10°	159°	+3°	3.3dB	239°K	404785	+285 Hz
2029-02-16	Friday 01:00	103°	+15°	0 dB	0°	103°	+15°	167°	+3°	3.3dB	239°K	404812	+275 Hz
2029-02-16	Friday 01:30	109°	+20°	0 dB	0°	109°	+20°	174°	+3°	3.3dB	239°K	404838	+260 Hz
2029-02-16	Friday 02:00	115°	+25°	0 dB	0°	115°	+25°	181°	+3°	3.3dB	239°K	404864	+241 Hz
2029-02-16	Friday 02:30	121°	+30°	0 dB	0°	121°	+30°	188°	+3°	3.3dB	239°K	404890	+217 Hz
2029-02-16	Friday 03:00	128°	+34°	0 dB	0°	128°	+34°	196°	+4°	3.3dB	239°K	404915	+190 Hz
2029-02-16	Friday 03:30	136°	+38°	0 dB	0°	136°	+38°	203°	+4°	3.3dB	239°K	404940	+159 Hz
2029-02-16	Friday 04:00	144°	+41°	0 dB	0°	144°	+41°	210°	+4°	3.3dB	239°K	404965	+125 Hz
2029-02-16	Friday 04:30	154°	+44°	0 dB	0°	154°	+44°	218°	+4°	3.3dB	239°K	404989	+89 Hz
2029-02-16	Friday 05:00	164°	+46°	0 dB	0°	164°	+46°	225°	+4°	3.3dB	239°K	405013	+51 Hz
2029-02-16	Friday 05:30	174°	+47°	0 dB	0°	174°	+47°	232°	+4°	3.3dB	239°K	405037	+13 Hz
2029-02-16	Friday 06:00	185°	+47°	0 dB	0°	185°	+47°	239°	+4°	3.3dB	239°K	405060	-27 Hz
2029-02-16	Friday 06:30	196°	+46°	0 dB	0°	196°	+46°	247°	+4°	3.3dB	239°K	405083	-66 Hz
2029-02-16	Friday 07:00	206°	+45°	0 dB	0°	206°	+45°	254°	+4°	3.3dB	239°K	405106	-103 Hz
2029-02-16	Friday 07:30	216°	+42°	0 dB	0°	216°	+42°	261°	+4°	3.3dB	239°K	405128	-140 Hz
2029-02-16	Friday 08:00	224°	+39°	0 dB	0°	224°	+39°	269°	+5°	3.3dB	239°K	405150	-174 Hz
2029-02-16	Friday 08:30	232°	+35°	0 dB	0°	232°	+35°	276°	+5°	3.3dB	239°K	405171	-204 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-16	Friday	09:00	239°	+31°	0 dB	0°	239°	+31°	283°	+5°	3.3dB	239°K	405193 -232 Hz
2029-02-16	Friday	09:30	246°	+27°	0 dB	0°	246°	+27°	291°	+5°	3.3dB	239°K	405214 -255 Hz
2029-02-16	Friday	10:00	252°	+22°	0 dB	0°	252°	+22°	298°	+5°	3.3dB	239°K	405234 -275 Hz
2029-02-16	Friday	10:30	258°	+17°	0 dB	0°	258°	+17°	305°	+5°	3.3dB	239°K	405254 -290 Hz
2029-02-16	Friday	11:00	264°	+12°	0 dB	0°	264°	+12°	312°	+5°	3.3dB	239°K	405274 -300 Hz
2029-02-16	Friday	11:30	269°	+7°	0 dB	0°	269°	+7°	320°	+5°	3.3dB	239°K	405294 -305 Hz
2029-02-16	Friday	12:00	274°	+2°	0 dB	0°	274°	+2°	327°	+5°	3.3dB	239°K	405313 -305 Hz
2029-02-17	Saturday	00:00	082°	+2°	0 dB	0°	082°	+2°	142°	+8°	3.5dB	255°K	405658 +296 Hz
2029-02-17	Saturday	00:30	087°	+7°	0 dB	0°	087°	+7°	149°	+8°	3.6dB	256°K	405668 +298 Hz
2029-02-17	Saturday	01:00	092°	+12°	0 dB	0°	092°	+12°	157°	+8°	3.6dB	256°K	405677 +294 Hz
2029-02-17	Saturday	01:30	097°	+17°	0 dB	0°	097°	+17°	164°	+8°	3.6dB	257°K	405686 +286 Hz
2029-02-17	Saturday	02:00	103°	+22°	0 dB	0°	103°	+22°	171°	+8°	3.6dB	257°K	405694 +273 Hz
2029-02-17	Saturday	02:30	109°	+27°	0 dB	0°	109°	+27°	179°	+8°	3.6dB	258°K	405702 +256 Hz
2029-02-17	Saturday	03:00	115°	+32°	0 dB	0°	115°	+32°	186°	+8°	3.6dB	258°K	405710 +234 Hz
2029-02-17	Saturday	03:30	122°	+37°	0 dB	0°	122°	+37°	193°	+8°	3.6dB	259°K	405717 +208 Hz
2029-02-17	Saturday	04:00	130°	+41°	0 dB	0°	130°	+41°	200°	+9°	3.6dB	259°K	405724 +179 Hz
2029-02-17	Saturday	04:30	138°	+45°	0 dB	0°	138°	+45°	208°	+9°	3.6dB	260°K	405730 +146 Hz
2029-02-17	Saturday	05:00	148°	+48°	0 dB	0°	148°	+48°	215°	+9°	3.6dB	260°K	405736 +111 Hz
2029-02-17	Saturday	05:30	158°	+50°	0 dB	0°	158°	+50°	222°	+9°	3.6dB	261°K	405742 +74 Hz
2029-02-17	Saturday	06:00	170°	+52°	0 dB	0°	170°	+52°	230°	+9°	3.6dB	261°K	405747 +36 Hz
2029-02-17	Saturday	06:30	181°	+52°	0 dB	0°	181°	+52°	237°	+9°	3.6dB	262°K	405751 -3 Hz
2029-02-17	Saturday	07:00	193°	+52°	0 dB	0°	193°	+52°	244°	+9°	3.7dB	263°K	405756 -42 Hz
2029-02-17	Saturday	07:30	205°	+50°	0 dB	0°	205°	+50°	251°	+9°	3.7dB	263°K	405760 -80 Hz
2029-02-17	Saturday	08:00	215°	+48°	0 dB	0°	215°	+48°	259°	+9°	3.7dB	264°K	405763 -116 Hz
2029-02-17	Saturday	08:30	224°	+45°	0 dB	0°	224°	+45°	266°	+9°	3.7dB	264°K	405766 -151 Hz
2029-02-17	Saturday	09:00	233°	+41°	0 dB	0°	233°	+41°	273°	+10°	3.7dB	265°K	405769 -182 Hz
2029-02-17	Saturday	09:30	241°	+37°	0 dB	0°	241°	+37°	281°	+10°	3.7dB	265°K	405771 -211 Hz
2029-02-17	Saturday	10:00	247°	+32°	0 dB	0°	247°	+32°	288°	+10°	3.7dB	266°K	405773 -236 Hz
2029-02-17	Saturday	10:30	254°	+27°	0 dB	0°	254°	+27°	295°	+10°	3.7dB	266°K	405774 -256 Hz
2029-02-17	Saturday	11:00	260°	+23°	0 dB	0°	260°	+23°	302°	+10°	3.7dB	267°K	405775 -272 Hz
2029-02-17	Saturday	11:30	265°	+18°	0 dB	0°	265°	+18°	310°	+10°	3.7dB	267°K	405775 -284 Hz
2029-02-17	Saturday	12:00	271°	+13°	0 dB	0°	271°	+13°	317°	+10°	3.7dB	268°K	405775 -291 Hz
2029-02-17	Saturday	12:30	276°	+8°	0 dB	0°	276°	+8°	324°	+10°	3.7dB	268°K	405775 -293 Hz
2029-02-17	Saturday	13:00	281°	+3°	0 dB	0°	281°	+3°	332°	+10°	3.7dB	269°K	405774 -290 Hz
2029-02-18	Sunday	00:30	077°	+4°	0 dB	0°	077°	+4°	139°	+13°	3.9dB	281°K	405633 +302 Hz
2029-02-18	Sunday	01:00	082°	+9°	0 dB	0°	082°	+9°	147°	+13°	3.9dB	282°K	405622 +305 Hz
2029-02-18	Sunday	01:30	087°	+14°	0 dB	0°	087°	+14°	154°	+13°	3.9dB	282°K	405610 +303 Hz
2029-02-18	Sunday	02:00	092°	+19°	0 dB	0°	092°	+19°	161°	+13°	3.9dB	283°K	405597 +297 Hz
2029-02-18	Sunday	02:30	097°	+24°	0 dB	0°	097°	+24°	168°	+13°	3.9dB	283°K	405584 +286 Hz
2029-02-18	Sunday	03:00	103°	+29°	0 dB	0°	103°	+29°	176°	+13°	3.9dB	284°K	405571 +270 Hz
2029-02-18	Sunday	03:30	109°	+34°	0 dB	0°	109°	+34°	183°	+13°	3.9dB	285°K	405557 +250 Hz
2029-02-18	Sunday	04:00	116°	+39°	0 dB	0°	116°	+39°	190°	+13°	3.9dB	285°K	405543 +226 Hz
2029-02-18	Sunday	04:30	123°	+43°	0 dB	0°	123°	+43°	198°	+13°	3.9dB	286°K	405528 +199 Hz
2029-02-18	Sunday	05:00	131°	+47°	0 dB	0°	131°	+47°	205°	+13°	3.9dB	286°K	405512 +168 Hz
2029-02-18	Sunday	05:30	141°	+51°	0 dB	0°	141°	+51°	212°	+13°	4.0dB	287°K	405497 +134 Hz
2029-02-18	Sunday	06:00	151°	+54°	0 dB	0°	151°	+54°	219°	+14°	4.0dB	287°K	405480 +98 Hz
2029-02-18	Sunday	06:30	163°	+56°	0 dB	0°	163°	+56°	227°	+14°	4.0dB	288°K	405464 +61 Hz
2029-02-18	Sunday	07:00	176°	+57°	0 dB	0°	176°	+57°	234°	+14°	4.0dB	288°K	405447 +23 Hz
2029-02-18	Sunday	07:30	189°	+57°	0 dB	0°	189°	+57°	241°	+14°	4.0dB	289°K	405429 -15 Hz
2029-02-18	Sunday	08:00	202°	+55°	0 dB	0°	202°	+55°	249°	+14°	4.0dB	289°K	405411 -53 Hz
2029-02-18	Sunday	08:30	214°	+53°	0 dB	0°	214°	+53°	256°	+14°	4.0dB	290°K	405392 -89 Hz
2029-02-18	Sunday	09:00	224°	+50°	0 dB	0°	224°	+50°	263°	+14°	4.0dB	291°K	405373 -124 Hz
2029-02-18	Sunday	09:30	233°	+46°	0 dB	0°	233°	+46°	270°	+14°	4.0dB	291°K	405354 -156 Hz
2029-02-18	Sunday	10:00	241°	+42°	0 dB	0°	241°	+42°	278°	+14°	4.0dB	292°K	405334 -185 Hz
2029-02-18	Sunday	10:30	248°	+38°	0 dB	0°	248°	+38°	285°	+14°	4.0dB	292°K	405313 -211 Hz
2029-02-18	Sunday	11:00	255°	+33°	0 dB	0°	255°	+33°	292°	+14°	4.0dB	293°K	405292 -233 Hz
2029-02-18	Sunday	11:30	261°	+28°	0 dB	0°	261°	+28°	300°	+14°	4.0dB	293°K	405271 -251 Hz
2029-02-18	Sunday	12:00	267°	+23°	0 dB	0°	267°	+23°	307°	+15°	4.0dB	294°K	405249 -264 Hz
2029-02-18	Sunday	12:30	272°	+18°	0 dB	0°	272°	+18°	314°	+15°	4.0dB	294°K	405226 -272 Hz
2029-02-18	Sunday	13:00	277°	+13°	0 dB	0°	277°	+13°	321°	+15°	4.0dB	295°K	405203 -276 Hz
2029-02-18	Sunday	13:30	282°	+8°	0 dB	0°	282°	+8°	329°	+15°	4.0dB	295°K	405180 -275 Hz
2029-02-18	Sunday	14:00	287°	+3°	0 dB	0°	287°	+3°	336°	+15°	4.0dB	296°K	405156 -269 Hz
2029-02-19	Monday	00:30	066°	-0°	0 dB	0°	066°	-0°	129°	+17°	4.1dB	302°K	404541 +296 Hz
2029-02-19	Monday	01:00	071°	+4°	0 dB	0°	071°	+4°	136°	+17°	4.1dB	302°K	404506 +306 Hz
2029-02-19	Monday	01:30	076°	+9°	0 dB	0°	076°	+9°	143°	+17°	4.1dB	302°K	404471 +311 Hz
2029-02-19	Monday	02:00	081°	+14°	0 dB	0°	081°	+14°	151°	+17°	4.1dB	302°K	404435 +311 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-19	Monday	02:30	086°	+19°	0 dB	0°	086°	+19°	158°	+17°	4.1dB	303°K	404399 +307 Hz
2029-02-19	Monday	03:00	092°	+25°	0 dB	0°	092°	+25°	165°	+17°	4.1dB	303°K	404362 +298 Hz
2029-02-19	Monday	03:30	097°	+30°	0 dB	0°	097°	+30°	173°	+17°	4.1dB	303°K	404325 +285 Hz
2029-02-19	Monday	04:00	103°	+35°	0 dB	0°	103°	+35°	180°	+17°	4.1dB	304°K	404287 +267 Hz
2029-02-19	Monday	04:30	109°	+40°	0 dB	0°	109°	+40°	187°	+17°	4.1dB	304°K	404249 +245 Hz
2029-02-19	Monday	05:00	116°	+44°	0 dB	0°	116°	+44°	194°	+17°	4.1dB	305°K	404210 +220 Hz
2029-02-19	Monday	05:30	124°	+49°	0 dB	0°	124°	+49°	202°	+17°	4.1dB	306°K	404171 +191 Hz
2029-02-19	Monday	06:00	133°	+53°	0 dB	0°	133°	+53°	209°	+18°	4.1dB	307°K	404131 +159 Hz
2029-02-19	Monday	06:30	143°	+57°	0 dB	0°	143°	+57°	216°	+18°	4.2dB	309°K	404091 +125 Hz
2029-02-19	Monday	07:00	156°	+59°	0 dB	0°	156°	+59°	223°	+18°	4.2dB	310°K	404050 +89 Hz
2029-02-19	Monday	07:30	169°	+61°	0 dB	0°	169°	+61°	231°	+18°	4.2dB	312°K	404009 +52 Hz
2029-02-19	Monday	08:00	184°	+61°	0 dB	0°	184°	+61°	238°	+18°	4.2dB	313°K	403967 +15 Hz
2029-02-19	Monday	08:30	198°	+60°	0 dB	0°	198°	+60°	245°	+18°	4.2dB	315°K	403925 -23 Hz
2029-02-19	Monday	09:00	211°	+58°	0 dB	0°	211°	+58°	253°	+18°	4.2dB	316°K	403882 -59 Hz
2029-02-19	Monday	09:30	223°	+55°	0 dB	0°	223°	+55°	260°	+18°	4.2dB	317°K	403838 -94 Hz
2029-02-19	Monday	10:00	233°	+51°	0 dB	0°	233°	+51°	267°	+18°	4.3dB	319°K	403795 -126 Hz
2029-02-19	Monday	10:30	241°	+47°	0 dB	0°	241°	+47°	274°	+18°	4.3dB	320°K	403750 -156 Hz
2029-02-19	Monday	11:00	249°	+43°	0 dB	0°	249°	+43°	282°	+18°	4.3dB	322°K	403705 -183 Hz
2029-02-19	Monday	11:30	255°	+38°	0 dB	0°	255°	+38°	289°	+18°	4.3dB	323°K	403660 -206 Hz
2029-02-19	Monday	12:00	262°	+33°	0 dB	0°	262°	+33°	296°	+18°	4.3dB	325°K	403614 -225 Hz
2029-02-19	Monday	12:30	267°	+28°	0 dB	0°	267°	+28°	303°	+18°	4.3dB	326°K	403568 -240 Hz
2029-02-19	Monday	13:00	272°	+23°	0 dB	0°	272°	+23°	311°	+19°	4.4dB	328°K	403521 -251 Hz
2029-02-19	Monday	13:30	278°	+18°	0 dB	0°	278°	+18°	318°	+19°	4.4dB	329°K	403473 -257 Hz
2029-02-19	Monday	14:00	283°	+13°	0 dB	0°	283°	+13°	325°	+19°	4.4dB	330°K	403425 -258 Hz
2029-02-19	Monday	14:30	288°	+8°	0 dB	0°	288°	+8°	333°	+19°	4.4dB	332°K	403377 -254 Hz
2029-02-19	Monday	15:00	293°	+4°	0 dB	0°	293°	+4°	340°	+19°	4.4dB	333°K	403328 -246 Hz
2029-02-20	Tuesday	01:00	061°	+0°	0 dB	0°	061°	+0°	125°	+20°	4.6dB	355°K	402242 +297 Hz
2029-02-20	Tuesday	01:30	066°	+5°	0 dB	0°	066°	+5°	132°	+20°	4.6dB	356°K	402182 +308 Hz
2029-02-20	Tuesday	02:00	071°	+9°	0 dB	0°	071°	+9°	140°	+20°	4.6dB	357°K	402122 +316 Hz
2029-02-20	Tuesday	02:30	076°	+14°	0 dB	0°	076°	+14°	147°	+20°	4.6dB	357°K	402061 +319 Hz
2029-02-20	Tuesday	03:00	081°	+19°	0 dB	0°	081°	+19°	154°	+20°	4.6dB	358°K	402000 +317 Hz
2029-02-20	Tuesday	03:30	086°	+24°	0 dB	0°	086°	+24°	161°	+21°	4.6dB	359°K	401938 +311 Hz
2029-02-20	Tuesday	04:00	091°	+29°	0 dB	0°	091°	+29°	169°	+21°	4.6dB	360°K	401876 +300 Hz
2029-02-20	Tuesday	04:30	097°	+35°	0 dB	0°	097°	+35°	176°	+21°	4.6dB	360°K	401813 +285 Hz
2029-02-20	Tuesday	05:00	102°	+40°	0 dB	0°	102°	+40°	183°	+21°	4.6dB	361°K	401750 +265 Hz
2029-02-20	Tuesday	05:30	109°	+45°	0 dB	0°	109°	+45°	190°	+21°	4.6dB	362°K	401686 +242 Hz
2029-02-20	Tuesday	06:00	116°	+49°	0 dB	0°	116°	+49°	198°	+21°	4.6dB	363°K	401622 +216 Hz
2029-02-20	Tuesday	06:30	124°	+54°	0 dB	0°	124°	+54°	205°	+21°	4.6dB	363°K	401557 +186 Hz
2029-02-20	Tuesday	07:00	134°	+58°	0 dB	0°	134°	+58°	212°	+21°	4.7dB	364°K	401492 +154 Hz
2029-02-20	Tuesday	07:30	146°	+61°	0 dB	0°	146°	+61°	220°	+21°	4.7dB	365°K	401426 +119 Hz
2029-02-20	Tuesday	08:00	160°	+63°	0 dB	0°	160°	+63°	227°	+21°	4.7dB	366°K	401360 +84 Hz
2029-02-20	Tuesday	08:30	176°	+65°	0 dB	0°	176°	+65°	234°	+21°	4.7dB	366°K	401293 +47 Hz
2029-02-20	Tuesday	09:00	192°	+64°	0 dB	0°	192°	+64°	241°	+21°	4.7dB	367°K	401225 +11 Hz
2029-02-20	Tuesday	09:30	207°	+63°	0 dB	0°	207°	+63°	249°	+21°	4.7dB	368°K	401158 -25 Hz
2029-02-20	Tuesday	10:00	220°	+60°	0 dB	0°	220°	+60°	256°	+21°	4.7dB	369°K	401089 -60 Hz
2029-02-20	Tuesday	10:30	231°	+56°	0 dB	0°	231°	+56°	263°	+21°	4.7dB	369°K	401020 -93 Hz
2029-02-20	Tuesday	11:00	240°	+52°	0 dB	0°	240°	+52°	270°	+21°	4.7dB	368°K	400951 -124 Hz
2029-02-20	Tuesday	11:30	248°	+48°	0 dB	0°	248°	+48°	278°	+21°	4.7dB	368°K	400881 -152 Hz
2029-02-20	Tuesday	12:00	255°	+43°	0 dB	0°	255°	+43°	285°	+22°	4.7dB	367°K	400811 -177 Hz
2029-02-20	Tuesday	12:30	261°	+38°	0 dB	0°	261°	+38°	292°	+22°	4.6dB	366°K	400740 -197 Hz
2029-02-20	Tuesday	13:00	267°	+33°	0 dB	0°	267°	+33°	299°	+22°	4.6dB	365°K	400669 -214 Hz
2029-02-20	Tuesday	13:30	272°	+28°	0 dB	0°	272°	+28°	307°	+22°	4.6dB	365°K	400597 -227 Hz
2029-02-20	Tuesday	14:00	277°	+23°	0 dB	0°	277°	+23°	314°	+22°	4.6dB	364°K	400525 -235 Hz
2029-02-20	Tuesday	14:30	282°	+18°	0 dB	0°	282°	+18°	321°	+22°	4.6dB	363°K	400452 -239 Hz
2029-02-20	Tuesday	15:00	287°	+13°	0 dB	0°	287°	+13°	328°	+22°	4.6dB	362°K	400378 -238 Hz
2029-02-20	Tuesday	15:30	292°	+8°	0 dB	0°	292°	+8°	336°	+22°	4.6dB	361°K	400305 -233 Hz
2029-02-20	Tuesday	16:00	297°	+4°	0 dB	0°	297°	+4°	343°	+22°	4.6dB	361°K	400230 -224 Hz
2029-02-20	Tuesday	16:30	302°	-0°	0 dB	0°	302°	-0°	350°	+22°	4.6dB	360°K	400155 -210 Hz
2029-02-21	wednesday	01:30	056°	-0°	0 dB	0°	056°	-0°	121°	+23°	4.4dB	349°K	398724 +295 Hz
2029-02-21	wednesday	02:00	061°	+4°	0 dB	0°	061°	+4°	128°	+23°	4.4dB	350°K	398640 +309 Hz
2029-02-21	wednesday	02:30	066°	+8°	0 dB	0°	066°	+8°	135°	+23°	4.4dB	351°K	398555 +319 Hz
2029-02-21	wednesday	03:00	071°	+13°	0 dB	0°	071°	+13°	142°	+23°	4.4dB	351°K	398470 +324 Hz
2029-02-21	wednesday	03:30	076°	+18°	0 dB	0°	076°	+18°	150°	+23°	4.4dB	352°K	398385 +325 Hz
2029-02-21	wednesday	04:00	081°	+23°	0 dB	0°	081°	+23°	157°	+23°	4.4dB	353°K	398299 +322 Hz
2029-02-21	wednesday	04:30	086°	+28°	0 dB	0°	086°	+28°	164°	+23°	4.4dB	354°K	398212 +314 Hz
2029-02-21	wednesday	05:00	091°	+33°	0 dB	0°	091°	+33°	171°	+23°	4.4dB	355°K	398125 +302 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-21	wednesday05:30	096°	+38°	0 dB	0°	096°	+38°	179°	+23°	4.4dB	355°K	398038	+286 Hz
2029-02-21	wednesday06:00	102°	+43°	0 dB	0°	102°	+43°	186°	+23°	4.4dB	356°K	397950	+265 Hz
2029-02-21	wednesday06:30	109°	+48°	0 dB	0°	109°	+48°	193°	+23°	4.4dB	357°K	397862	+241 Hz
2029-02-21	wednesday07:00	116°	+53°	0 dB	0°	116°	+53°	200°	+23°	4.4dB	358°K	397773	+214 Hz
2029-02-21	wednesday07:30	125°	+57°	0 dB	0°	125°	+57°	208°	+23°	4.4dB	359°K	397683	+184 Hz
2029-02-21	wednesday08:00	136°	+61°	0 dB	0°	136°	+61°	215°	+23°	4.4dB	359°K	397594	+152 Hz
2029-02-21	wednesday08:30	149°	+64°	0 dB	0°	149°	+64°	222°	+24°	4.4dB	360°K	397503	+118 Hz
2029-02-21	wednesday09:00	165°	+66°	0 dB	0°	165°	+66°	229°	+24°	4.4dB	361°K	397413	+82 Hz
2029-02-21	wednesday09:30	182°	+67°	0 dB	0°	182°	+67°	237°	+24°	4.4dB	362°K	397322	+47 Hz
2029-02-21	wednesday10:00	198°	+66°	0 dB	0°	198°	+66°	244°	+24°	4.5dB	363°K	397230	+11 Hz
2029-02-21	wednesday10:30	214°	+64°	0 dB	0°	214°	+64°	251°	+24°	4.5dB	363°K	397138	-24 Hz
2029-02-21	wednesday11:00	226°	+61°	0 dB	0°	226°	+61°	258°	+24°	4.5dB	364°K	397045	-58 Hz
2029-02-21	wednesday11:30	237°	+57°	0 dB	0°	237°	+57°	266°	+24°	4.5dB	365°K	396952	-90 Hz
2029-02-21	wednesday12:00	246°	+52°	0 dB	0°	246°	+52°	273°	+24°	4.5dB	366°K	396859	-119 Hz
2029-02-21	wednesday12:30	253°	+48°	0 dB	0°	253°	+48°	280°	+24°	4.5dB	367°K	396765	-145 Hz
2029-02-21	wednesday13:00	260°	+43°	0 dB	0°	260°	+43°	287°	+24°	4.5dB	367°K	396671	-168 Hz
2029-02-21	wednesday13:30	265°	+38°	0 dB	0°	265°	+38°	295°	+24°	4.5dB	368°K	396576	-188 Hz
2029-02-21	wednesday14:00	271°	+33°	0 dB	0°	271°	+33°	302°	+24°	4.5dB	369°K	396481	-203 Hz
2029-02-21	wednesday14:30	276°	+28°	0 dB	0°	276°	+28°	309°	+24°	4.5dB	370°K	396385	-214 Hz
2029-02-21	wednesday15:00	281°	+23°	0 dB	0°	281°	+23°	316°	+24°	4.5dB	371°K	396289	-221 Hz
2029-02-21	wednesday15:30	286°	+18°	0 dB	0°	286°	+18°	324°	+24°	4.5dB	372°K	396192	-223 Hz
2029-02-21	wednesday16:00	290°	+13°	0 dB	0°	290°	+13°	331°	+24°	4.5dB	373°K	396095	-221 Hz
2029-02-21	wednesday16:30	295°	+8°	0 dB	0°	295°	+8°	338°	+24°	4.5dB	374°K	395998	-214 Hz
2029-02-21	wednesday17:00	300°	+4°	0 dB	0°	300°	+4°	345°	+24°	4.5dB	376°K	395900	-204 Hz
2029-02-21	wednesday17:30	305°	-0°	0 dB	0°	305°	-0°	353°	+24°	4.5dB	377°K	395802	-189 Hz
2029-02-22	Thursday 02:30	057°	+2°	0 dB	0°	057°	+2°	123°	+25°	4.6dB	397°K	393960	+307 Hz
2029-02-22	Thursday 03:00	062°	+6°	0 dB	0°	062°	+6°	130°	+25°	4.7dB	399°K	393854	+319 Hz
2029-02-22	Thursday 03:30	067°	+11°	0 dB	0°	067°	+11°	137°	+25°	4.7dB	400°K	393747	+328 Hz
2029-02-22	Thursday 04:00	071°	+16°	0 dB	0°	071°	+16°	145°	+25°	4.7dB	401°K	393640	+332 Hz
2029-02-22	Thursday 04:30	076°	+21°	0 dB	0°	076°	+21°	152°	+25°	4.7dB	402°K	393533	+332 Hz
2029-02-22	Thursday 05:00	081°	+25°	0 dB	0°	081°	+25°	159°	+25°	4.7dB	404°K	393425	+327 Hz
2029-02-22	Thursday 05:30	086°	+30°	0 dB	0°	086°	+30°	166°	+25°	4.7dB	405°K	393317	+318 Hz
2029-02-22	Thursday 06:00	091°	+36°	0 dB	0°	091°	+36°	174°	+25°	4.7dB	406°K	393208	+305 Hz
2029-02-22	Thursday 06:30	096°	+41°	0 dB	0°	096°	+41°	181°	+25°	4.7dB	408°K	393099	+288 Hz
2029-02-22	Thursday 07:00	102°	+46°	0 dB	0°	102°	+46°	188°	+25°	4.7dB	409°K	392990	+267 Hz
2029-02-22	Thursday 07:30	109°	+51°	0 dB	0°	109°	+51°	195°	+25°	4.7dB	410°K	392880	+242 Hz
2029-02-22	Thursday 08:00	117°	+55°	0 dB	0°	117°	+55°	202°	+25°	4.7dB	412°K	392770	+215 Hz
2029-02-22	Thursday 08:30	126°	+60°	0 dB	0°	126°	+60°	210°	+25°	4.7dB	413°K	392660	+184 Hz
2029-02-22	Thursday 09:00	138°	+63°	0 dB	0°	138°	+63°	217°	+25°	4.7dB	414°K	392549	+152 Hz
2029-02-22	Thursday 09:30	152°	+66°	0 dB	0°	152°	+66°	224°	+25°	4.8dB	416°K	392438	+118 Hz
2029-02-22	Thursday 10:00	168°	+68°	0 dB	0°	168°	+68°	231°	+25°	4.8dB	417°K	392327	+83 Hz
2029-02-22	Thursday 10:30	186°	+68°	0 dB	0°	186°	+68°	239°	+25°	4.8dB	418°K	392215	+47 Hz
2029-02-22	Thursday 11:00	204°	+67°	0 dB	0°	204°	+67°	246°	+25°	4.8dB	420°K	392103	+12 Hz
2029-02-22	Thursday 11:30	218°	+64°	0 dB	0°	218°	+64°	253°	+25°	4.8dB	421°K	391990	-22 Hz
2029-02-22	Thursday 12:00	231°	+61°	0 dB	0°	231°	+61°	260°	+25°	4.8dB	422°K	391877	-55 Hz
2029-02-22	Thursday 12:30	241°	+57°	0 dB	0°	241°	+57°	268°	+25°	4.8dB	424°K	391764	-86 Hz
2029-02-22	Thursday 13:00	249°	+52°	0 dB	0°	249°	+52°	275°	+25°	4.8dB	425°K	391650	-114 Hz
2029-02-22	Thursday 13:30	256°	+47°	0 dB	0°	256°	+47°	282°	+25°	4.8dB	426°K	391536	-140 Hz
2029-02-22	Thursday 14:00	262°	+42°	0 dB	0°	262°	+42°	289°	+25°	4.8dB	428°K	391422	-162 Hz
2029-02-22	Thursday 14:30	268°	+37°	0 dB	0°	268°	+37°	296°	+25°	4.8dB	429°K	391307	-180 Hz
2029-02-22	Thursday 15:00	273°	+32°	0 dB	0°	273°	+32°	304°	+25°	4.8dB	430°K	391192	-194 Hz
2029-02-22	Thursday 15:30	278°	+27°	0 dB	0°	278°	+27°	311°	+25°	4.8dB	432°K	391077	-204 Hz
2029-02-22	Thursday 16:00	283°	+22°	0 dB	0°	283°	+22°	318°	+25°	4.8dB	433°K	390961	-210 Hz
2029-02-22	Thursday 16:30	287°	+17°	0 dB	0°	287°	+17°	325°	+25°	4.8dB	434°K	390845	-211 Hz
2029-02-22	Thursday 17:00	292°	+13°	0 dB	0°	292°	+13°	333°	+25°	4.9dB	437°K	390729	-208 Hz
2029-02-22	Thursday 17:30	297°	+8°	0 dB	0°	297°	+8°	340°	+25°	4.9dB	439°K	390612	-201 Hz
2029-02-22	Thursday 18:00	302°	+4°	0 dB	0°	302°	+4°	347°	+25°	4.9dB	442°K	390495	-190 Hz
2029-02-22	Thursday 18:30	307°	-0°	0 dB	0°	307°	-0°	354°	+25°	4.9dB	445°K	390378	-175 Hz
2029-02-23	Friday 03:30	058°	+3°	0 dB	0°	058°	+3°	124°	+25°	5.2dB	490°K	388216	+316 Hz
2029-02-23	Friday 04:00	063°	+8°	0 dB	0°	063°	+8°	132°	+25°	5.2dB	493°K	388094	+328 Hz
2029-02-23	Friday 04:30	067°	+12°	0 dB	0°	067°	+12°	139°	+25°	5.2dB	496°K	387971	+336 Hz
2029-02-23	Friday 05:00	072°	+17°	0 dB	0°	072°	+17°	146°	+25°	5.2dB	498°K	387848	+339 Hz
2029-02-23	Friday 05:30	077°	+22°	0 dB	0°	077°	+22°	153°	+25°	5.3dB	500°K	387724	+338 Hz
2029-02-23	Friday 06:00	082°	+27°	0 dB	0°	082°	+27°	161°	+25°	5.2dB	500°K	387600	+333 Hz
2029-02-23	Friday 06:30	087°	+32°	0 dB	0°	087°	+32°	168°	+25°	5.2dB	500°K	387477	+323 Hz
2029-02-23	Friday 07:00	092°	+37°	0 dB	0°	092°	+37°	175°	+25°	5.2dB	500°K	387352	+309 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-23	Friday	07:30	097°	+42°	0 dB	0°	097°	+42°	182°	+25°	5.2dB	500°K	387228 +291 Hz
2029-02-23	Friday	08:00	103°	+47°	0 dB	0°	103°	+47°	189°	+25°	5.2dB	500°K	387103 +269 Hz
2029-02-23	Friday	08:30	110°	+52°	0 dB	0°	110°	+52°	197°	+25°	5.2dB	500°K	386978 +244 Hz
2029-02-23	Friday	09:00	119°	+56°	0 dB	0°	119°	+56°	204°	+25°	5.2dB	500°K	386853 +216 Hz
2029-02-23	Friday	09:30	128°	+60°	0 dB	0°	128°	+60°	211°	+25°	5.2dB	500°K	386728 +185 Hz
2029-02-23	Friday	10:00	140°	+64°	0 dB	0°	140°	+64°	218°	+25°	5.2dB	500°K	386602 +153 Hz
2029-02-23	Friday	10:30	155°	+67°	0 dB	0°	155°	+67°	226°	+25°	5.2dB	500°K	386477 +118 Hz
2029-02-23	Friday	11:00	172°	+68°	0 dB	0°	172°	+68°	233°	+25°	5.2dB	500°K	386351 +83 Hz
2029-02-23	Friday	11:30	190°	+68°	0 dB	0°	190°	+68°	240°	+25°	5.2dB	500°K	386225 +48 Hz
2029-02-23	Friday	12:00	206°	+66°	0 dB	0°	206°	+66°	247°	+25°	5.2dB	500°K	386098 +13 Hz
2029-02-23	Friday	12:30	221°	+64°	0 dB	0°	221°	+64°	254°	+25°	5.2dB	500°K	385972 -22 Hz
2029-02-23	Friday	13:00	233°	+60°	0 dB	0°	233°	+60°	262°	+25°	5.2dB	500°K	385845 -54 Hz
2029-02-23	Friday	13:30	242°	+56°	0 dB	0°	242°	+56°	269°	+25°	5.2dB	500°K	385718 -85 Hz
2029-02-23	Friday	14:00	250°	+51°	0 dB	0°	250°	+51°	276°	+25°	5.2dB	500°K	385591 -113 Hz
2029-02-23	Friday	14:30	257°	+46°	0 dB	0°	257°	+46°	283°	+25°	5.2dB	500°K	385464 -138 Hz
2029-02-23	Friday	15:00	263°	+41°	0 dB	0°	263°	+41°	291°	+25°	5.1dB	500°K	385336 -160 Hz
2029-02-23	Friday	15:30	268°	+36°	0 dB	0°	268°	+36°	298°	+25°	5.1dB	500°K	385209 -177 Hz
2029-02-23	Friday	16:00	274°	+31°	0 dB	0°	274°	+31°	305°	+25°	5.1dB	500°K	385081 -191 Hz
2029-02-23	Friday	16:30	278°	+26°	0 dB	0°	278°	+26°	312°	+25°	5.1dB	500°K	384953 -201 Hz
2029-02-23	Friday	17:00	283°	+21°	0 dB	0°	283°	+21°	319°	+25°	5.1dB	500°K	384825 -206 Hz
2029-02-23	Friday	17:30	288°	+16°	0 dB	0°	288°	+16°	327°	+25°	5.1dB	500°K	384696 -206 Hz
2029-02-23	Friday	18:00	293°	+11°	0 dB	0°	293°	+11°	334°	+25°	5.1dB	499°K	384568 -203 Hz
2029-02-23	Friday	18:30	298°	+7°	0 dB	0°	298°	+7°	341°	+25°	5.1dB	496°K	384439 -195 Hz
2029-02-23	Friday	19:00	302°	+3°	0 dB	0°	302°	+3°	348°	+25°	5.0dB	492°K	384310 -183 Hz
2029-02-24	Saturday	04:30	059°	+3°	0 dB	0°	059°	+3°	126°	+24°	4.4dB	426°K	381841 +323 Hz
2029-02-24	Saturday	05:00	064°	+7°	0 dB	0°	064°	+7°	133°	+24°	4.3dB	423°K	381710 +334 Hz
2029-02-24	Saturday	05:30	069°	+12°	0 dB	0°	069°	+12°	140°	+24°	4.3dB	419°K	381579 +341 Hz
2029-02-24	Saturday	06:00	074°	+17°	0 dB	0°	074°	+17°	147°	+24°	4.3dB	416°K	381448 +344 Hz
2029-02-24	Saturday	06:30	079°	+22°	0 dB	0°	079°	+22°	154°	+24°	4.2dB	413°K	381317 +343 Hz
2029-02-24	Saturday	07:00	083°	+27°	0 dB	0°	083°	+27°	162°	+24°	4.2dB	411°K	381186 +337 Hz
2029-02-24	Saturday	07:30	088°	+32°	0 dB	0°	088°	+32°	169°	+24°	4.2dB	409°K	381055 +326 Hz
2029-02-24	Saturday	08:00	094°	+37°	0 dB	0°	094°	+37°	176°	+24°	4.2dB	407°K	380924 +312 Hz
2029-02-24	Saturday	08:30	100°	+42°	0 dB	0°	100°	+42°	183°	+24°	4.1dB	406°K	380793 +293 Hz
2029-02-24	Saturday	09:00	106°	+46°	0 dB	0°	106°	+46°	190°	+24°	4.1dB	404°K	380661 +270 Hz
2029-02-24	Saturday	09:30	113°	+51°	0 dB	0°	113°	+51°	198°	+24°	4.1dB	402°K	380530 +245 Hz
2029-02-24	Saturday	10:00	122°	+56°	0 dB	0°	122°	+56°	205°	+23°	4.1dB	400°K	380399 +216 Hz
2029-02-24	Saturday	10:30	132°	+60°	0 dB	0°	132°	+60°	212°	+23°	4.1dB	399°K	380268 +184 Hz
2029-02-24	Saturday	11:00	144°	+63°	0 dB	0°	144°	+63°	219°	+23°	4.0dB	397°K	380136 +151 Hz
2029-02-24	Saturday	11:30	158°	+66°	0 dB	0°	158°	+66°	227°	+23°	4.0dB	395°K	380005 +116 Hz
2029-02-24	Saturday	12:00	175°	+67°	0 dB	0°	175°	+67°	234°	+23°	4.0dB	393°K	379874 +80 Hz
2029-02-24	Saturday	12:30	192°	+66°	0 dB	0°	192°	+66°	241°	+23°	4.0dB	392°K	379742 +44 Hz
2029-02-24	Saturday	13:00	207°	+65°	0 dB	0°	207°	+65°	248°	+23°	3.9dB	390°K	379611 -9 Hz
2029-02-24	Saturday	13:30	221°	+62°	0 dB	0°	221°	+62°	255°	+23°	3.9dB	388°K	379480 -26 Hz
2029-02-24	Saturday	14:00	232°	+58°	0 dB	0°	232°	+58°	263°	+23°	3.9dB	386°K	379348 -59 Hz
2029-02-24	Saturday	14:30	241°	+54°	0 dB	0°	241°	+54°	270°	+23°	3.9dB	385°K	379217 -90 Hz
2029-02-24	Saturday	15:00	249°	+49°	0 dB	0°	249°	+49°	277°	+23°	3.8dB	383°K	379086 -118 Hz
2029-02-24	Saturday	15:30	256°	+44°	0 dB	0°	256°	+44°	284°	+23°	3.8dB	381°K	378955 -143 Hz
2029-02-24	Saturday	16:00	262°	+39°	0 dB	0°	262°	+39°	292°	+23°	3.8dB	379°K	378823 -164 Hz
2029-02-24	Saturday	16:30	268°	+34°	0 dB	0°	268°	+34°	299°	+23°	3.8dB	378°K	378692 -182 Hz
2029-02-24	Saturday	17:00	273°	+29°	0 dB	0°	273°	+29°	306°	+23°	3.8dB	376°K	378561 -196 Hz
2029-02-24	Saturday	17:30	278°	+24°	0 dB	0°	278°	+24°	313°	+23°	3.7dB	374°K	378430 -205 Hz
2029-02-24	Saturday	18:00	282°	+19°	0 dB	0°	282°	+19°	320°	+23°	3.7dB	372°K	378299 -209 Hz
2029-02-24	Saturday	18:30	287°	+14°	0 dB	0°	287°	+14°	328°	+23°	3.7dB	371°K	378168 -210 Hz
2029-02-24	Saturday	19:00	292°	+9°	0 dB	0°	292°	+9°	335°	+23°	3.7dB	369°K	378037 -206 Hz
2029-02-24	Saturday	19:30	297°	+5°	0 dB	0°	297°	+5°	342°	+23°	3.6dB	366°K	377906 -197 Hz
2029-02-24	Saturday	20:00	302°	+0°	0 dB	0°	302°	+0°	349°	+22°	3.6dB	364°K	377776 -185 Hz
2029-02-25	Sunday	05:30	061°	+2°	0 dB	0°	061°	+2°	127°	+21°	2.9dB	314°K	375311 +327 Hz
2029-02-25	Sunday	06:00	067°	+6°	0 dB	0°	067°	+6°	134°	+21°	2.9dB	311°K	375182 +338 Hz
2029-02-25	Sunday	06:30	072°	+11°	0 dB	0°	072°	+11°	141°	+21°	2.9dB	309°K	375054 +344 Hz
2029-02-25	Sunday	07:00	076°	+16°	0 dB	0°	076°	+16°	148°	+21°	2.8dB	306°K	374926 +346 Hz
2029-02-25	Sunday	07:30	081°	+20°	0 dB	0°	081°	+20°	155°	+21°	2.8dB	303°K	374798 +344 Hz
2029-02-25	Sunday	08:00	086°	+25°	0 dB	0°	086°	+25°	163°	+21°	2.7dB	300°K	374671 +337 Hz
2029-02-25	Sunday	08:30	092°	+30°	0 dB	0°	092°	+30°	170°	+21°	2.7dB	297°K	374543 +326 Hz
2029-02-25	Sunday	09:00	097°	+35°	0 dB	0°	097°	+35°	177°	+21°	2.7dB	294°K	374416 +311 Hz
2029-02-25	Sunday	09:30	103°	+40°	0 dB	0°	103°	+40°	184°	+21°	2.6dB	291°K	374289 +291 Hz
2029-02-25	Sunday	10:00	110°	+45°	0 dB	0°	110°	+45°	191°	+21°	2.6dB	288°K	374162 +268 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-25	Sunday	10:30	117°	+50°	0 dB	0°	117°	+50°	199°	+21°	2.5dB	285°K	374035	+241 Hz
2029-02-25	Sunday	11:00	126°	+54°	0 dB	0°	126°	+54°	206°	+21°	2.5dB	282°K	373909	+211 Hz
2029-02-25	Sunday	11:30	136°	+58°	0 dB	0°	136°	+58°	213°	+20°	2.4dB	278°K	373782	+178 Hz
2029-02-25	Sunday	12:00	148°	+61°	0 dB	0°	148°	+61°	220°	+20°	2.4dB	275°K	373656	+144 Hz
2029-02-25	Sunday	12:30	162°	+63°	0 dB	0°	162°	+63°	228°	+20°	2.3dB	272°K	373531	+108 Hz
2029-02-25	Sunday	13:00	177°	+64°	0 dB	0°	177°	+64°	235°	+20°	2.3dB	269°K	373405	+71 Hz
2029-02-25	Sunday	13:30	193°	+63°	0 dB	0°	193°	+63°	242°	+20°	2.2dB	266°K	373280	+34 Hz
2029-02-25	Sunday	14:00	207°	+61°	0 dB	0°	207°	+61°	249°	+20°	2.2dB	263°K	373155	-2 Hz
2029-02-25	Sunday	14:30	220°	+58°	0 dB	0°	220°	+58°	256°	+20°	2.2dB	260°K	373030	-37 Hz
2029-02-25	Sunday	15:00	230°	+55°	0 dB	0°	230°	+55°	264°	+20°	2.1dB	257°K	372905	-71 Hz
2029-02-25	Sunday	15:30	239°	+51°	0 dB	0°	239°	+51°	271°	+20°	2.0dB	253°K	372781	-102 Hz
2029-02-25	Sunday	16:00	247°	+46°	0 dB	0°	247°	+46°	278°	+20°	2.0dB	250°K	372657	-131 Hz
2029-02-25	Sunday	16:30	254°	+41°	0 dB	0°	254°	+41°	285°	+20°	1.9dB	247°K	372533	-156 Hz
2029-02-25	Sunday	17:00	260°	+36°	0 dB	0°	260°	+36°	293°	+20°	1.9dB	244°K	372410	-178 Hz
2029-02-25	Sunday	17:30	265°	+31°	0 dB	0°	265°	+31°	300°	+20°	1.9dB	241°K	372286	-195 Hz
2029-02-25	Sunday	18:00	271°	+26°	0 dB	0°	271°	+26°	307°	+19°	1.8dB	238°K	372163	-208 Hz
2029-02-25	Sunday	18:30	276°	+21°	0 dB	0°	276°	+21°	314°	+19°	1.8dB	235°K	372041	-217 Hz
2029-02-25	Sunday	19:00	281°	+16°	0 dB	0°	281°	+16°	321°	+19°	1.7dB	232°K	371918	-222 Hz
2029-02-25	Sunday	19:30	285°	+11°	0 dB	0°	285°	+11°	329°	+19°	1.7dB	229°K	371796	-221 Hz
2029-02-25	Sunday	20:00	290°	+6°	0 dB	0°	290°	+6°	336°	+19°	1.6dB	226°K	371674	-217 Hz
2029-02-25	Sunday	20:30	295°	+2°	0 dB	0°	295°	+2°	343°	+19°	1.6dB	225°K	371553	-208 Hz
2029-02-26	Monday	07:00	070°	+4°	0 dB	0°	070°	+4°	135°	+17°	1.1dB	203°K	369080	+336 Hz
2029-02-26	Monday	07:30	075°	+9°	0 dB	0°	075°	+9°	142°	+17°	1.1dB	202°K	368966	+342 Hz
2029-02-26	Monday	08:00	080°	+13°	0 dB	0°	080°	+13°	149°	+17°	1.1dB	201°K	368853	+344 Hz
2029-02-26	Monday	08:30	085°	+18°	0 dB	0°	085°	+18°	157°	+17°	1.0dB	200°K	368740	+341 Hz
2029-02-26	Monday	09:00	091°	+23°	0 dB	0°	091°	+23°	164°	+17°	1.0dB	199°K	368628	+333 Hz
2029-02-26	Monday	09:30	096°	+28°	0 dB	0°	096°	+28°	171°	+17°	1.0dB	198°K	368516	+321 Hz
2029-02-26	Monday	10:00	102°	+33°	0 dB	0°	102°	+33°	178°	+17°	1.0dB	197°K	368404	+304 Hz
2029-02-26	Monday	10:30	108°	+38°	0 dB	0°	108°	+38°	185°	+17°	1.0dB	196°K	368293	+283 Hz
2029-02-26	Monday	11:00	115°	+43°	0 dB	0°	115°	+43°	193°	+16°	0.9dB	195°K	368183	+258 Hz
2029-02-26	Monday	11:30	123°	+47°	0 dB	0°	123°	+47°	200°	+16°	0.9dB	194°K	368072	+230 Hz
2029-02-26	Monday	12:00	132°	+51°	0 dB	0°	132°	+51°	207°	+16°	0.9dB	193°K	367963	+199 Hz
2029-02-26	Monday	12:30	142°	+54°	0 dB	0°	142°	+54°	214°	+16°	0.9dB	192°K	367853	+165 Hz
2029-02-26	Monday	13:00	153°	+57°	0 dB	0°	153°	+57°	222°	+16°	0.8dB	191°K	367745	+129 Hz
2029-02-26	Monday	13:30	166°	+59°	0 dB	0°	166°	+59°	229°	+16°	0.8dB	190°K	367636	+92 Hz
2029-02-26	Monday	14:00	180°	+59°	0 dB	0°	180°	+59°	236°	+16°	0.8dB	189°K	367528	+54 Hz
2029-02-26	Monday	14:30	194°	+58°	0 dB	0°	194°	+58°	243°	+16°	0.8dB	188°K	367421	+16 Hz
2029-02-26	Monday	15:00	206°	+57°	0 dB	0°	206°	+57°	250°	+16°	0.7dB	186°K	367314	-21 Hz
2029-02-26	Monday	15:30	218°	+54°	0 dB	0°	218°	+54°	258°	+16°	0.7dB	185°K	367207	-57 Hz
2029-02-26	Monday	16:00	228°	+50°	0 dB	0°	228°	+50°	265°	+15°	0.7dB	184°K	367101	-91 Hz
2029-02-26	Monday	16:30	236°	+46°	0 dB	0°	236°	+46°	272°	+15°	0.7dB	183°K	366996	-123 Hz
2029-02-26	Monday	17:00	244°	+42°	0 dB	0°	244°	+42°	279°	+15°	0.6dB	182°K	366891	-152 Hz
2029-02-26	Monday	17:30	251°	+37°	0 dB	0°	251°	+37°	287°	+15°	0.6dB	181°K	366786	-177 Hz
2029-02-26	Monday	18:00	257°	+32°	0 dB	0°	257°	+32°	294°	+15°	0.6dB	180°K	366682	-198 Hz
2029-02-26	Monday	18:30	262°	+27°	0 dB	0°	262°	+27°	301°	+15°	0.6dB	179°K	366579	-216 Hz
2029-02-26	Monday	19:00	268°	+22°	0 dB	0°	268°	+22°	308°	+15°	0.6dB	178°K	366476	-229 Hz
2029-02-26	Monday	19:30	273°	+17°	0 dB	0°	273°	+17°	316°	+15°	0.5dB	177°K	366373	-237 Hz
2029-02-26	Monday	20:00	278°	+12°	0 dB	0°	278°	+12°	323°	+15°	0.5dB	176°K	366271	-241 Hz
2029-02-26	Monday	20:30	283°	+7°	0 dB	0°	283°	+7°	330°	+15°	0.5dB	175°K	366170	-240 Hz
2029-02-26	Monday	21:00	288°	+2°	0 dB	0°	288°	+2°	337°	+14°	0.5dB	174°K	366069	-234 Hz
2029-02-27	Tuesday	08:00	075°	+1°	0 dB	0°	075°	+1°	136°	+12°	0.5dB	181°K	363991	+329 Hz
2029-02-27	Tuesday	08:30	080°	+6°	0 dB	0°	080°	+6°	143°	+12°	0.5dB	181°K	363903	+334 Hz
2029-02-27	Tuesday	09:00	085°	+11°	0 dB	0°	085°	+11°	151°	+12°	0.5dB	181°K	363816	+335 Hz
2029-02-27	Tuesday	09:30	090°	+16°	0 dB	0°	090°	+16°	158°	+12°	0.5dB	182°K	363729	+330 Hz
2029-02-27	Tuesday	10:00	096°	+21°	0 dB	0°	096°	+21°	165°	+11°	0.5dB	182°K	363644	+322 Hz
2029-02-27	Tuesday	10:30	101°	+25°	0 dB	0°	101°	+25°	172°	+11°	0.5dB	182°K	363558	+308 Hz
2029-02-27	Tuesday	11:00	107°	+30°	0 dB	0°	107°	+30°	180°	+11°	0.5dB	182°K	363474	+290 Hz
2029-02-27	Tuesday	11:30	114°	+35°	0 dB	0°	114°	+35°	187°	+11°	0.5dB	183°K	363390	+268 Hz
2029-02-27	Tuesday	12:00	121°	+39°	0 dB	0°	121°	+39°	194°	+11°	0.5dB	183°K	363307	+242 Hz
2029-02-27	Tuesday	12:30	129°	+43°	0 dB	0°	129°	+43°	201°	+11°	0.5dB	183°K	363224	+212 Hz
2029-02-27	Tuesday	13:00	138°	+47°	0 dB	0°	138°	+47°	209°	+11°	0.5dB	183°K	363142	+179 Hz
2029-02-27	Tuesday	13:30	148°	+50°	0 dB	0°	148°	+50°	216°	+11°	0.5dB	183°K	363061	+144 Hz
2029-02-27	Tuesday	14:00	159°	+52°	0 dB	0°	159°	+52°	223°	+11°	0.5dB	183°K	362980	+107 Hz
2029-02-27	Tuesday	14:30	170°	+53°	0 dB	0°	170°	+53°	230°	+10°	0.5dB	184°K	362900	+69 Hz
2029-02-27	Tuesday	15:00	182°	+54°	0 dB	0°	182°	+54°	237°	+10°	0.5dB	184°K	362821	+30 Hz
2029-02-27	Tuesday	15:30	194°	+53°	0 dB	0°	194°	+53°	245°	+10°	0.5dB	184°K	362742	-9 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-02-27	Tuesday	16:00	206°	+51°	0 dB	0°	206°	+51°	252°	+10°	0.5dB	184°K	362664	-47 Hz
2029-02-27	Tuesday	16:30	216°	+48°	0 dB	0°	216°	+48°	259°	+10°	0.5dB	184°K	362587	-83 Hz
2029-02-27	Tuesday	17:00	225°	+45°	0 dB	0°	225°	+45°	266°	+10°	0.5dB	184°K	362510	-118 Hz
2029-02-27	Tuesday	17:30	233°	+41°	0 dB	0°	233°	+41°	274°	+10°	0.5dB	185°K	362434	-150 Hz
2029-02-27	Tuesday	18:00	241°	+36°	0 dB	0°	241°	+36°	281°	+10°	0.5dB	185°K	362359	-178 Hz
2029-02-27	Tuesday	18:30	247°	+32°	0 dB	0°	247°	+32°	288°	+9°	0.5dB	185°K	362284	-203 Hz
2029-02-27	Tuesday	19:00	254°	+27°	0 dB	0°	254°	+27°	295°	+9°	0.5dB	185°K	362210	-224 Hz
2029-02-27	Tuesday	19:30	259°	+22°	0 dB	0°	259°	+22°	303°	+9°	0.5dB	185°K	362137	-241 Hz
2029-02-27	Tuesday	20:00	265°	+17°	0 dB	0°	265°	+17°	310°	+9°	0.5dB	185°K	362064	-253 Hz
2029-02-27	Tuesday	20:30	270°	+12°	0 dB	0°	270°	+12°	317°	+9°	0.5dB	186°K	361992	-261 Hz
2029-02-27	Tuesday	21:00	275°	+7°	0 dB	0°	275°	+7°	324°	+9°	0.5dB	186°K	361921	-263 Hz
2029-02-27	Tuesday	21:30	280°	+2°	0 dB	0°	280°	+2°	332°	+9°	0.5dB	186°K	361851	-261 Hz
2029-02-28	wednesday	09:30	085°	+2°	0 dB	0°	085°	+2°	145°	+6°	0.5dB	193°K	360376	+319 Hz
2029-02-28	wednesday	10:00	091°	+7°	0 dB	0°	091°	+7°	152°	+6°	0.5dB	194°K	360324	+319 Hz
2029-02-28	wednesday	10:30	096°	+12°	0 dB	0°	096°	+12°	160°	+5°	0.5dB	194°K	360273	+313 Hz
2029-02-28	wednesday	11:00	102°	+17°	0 dB	0°	102°	+17°	167°	+5°	0.5dB	194°K	360222	+303 Hz
2029-02-28	wednesday	11:30	107°	+22°	0 dB	0°	107°	+22°	174°	+5°	0.6dB	195°K	360172	+288 Hz
2029-02-28	wednesday	12:00	114°	+27°	0 dB	0°	114°	+27°	181°	+5°	0.6dB	195°K	360123	+269 Hz
2029-02-28	wednesday	12:30	120°	+31°	0 dB	0°	120°	+31°	189°	+5°	0.6dB	195°K	360075	+245 Hz
2029-02-28	wednesday	13:00	127°	+35°	0 dB	0°	127°	+35°	196°	+5°	0.6dB	196°K	360027	+218 Hz
2029-02-28	wednesday	13:30	135°	+39°	0 dB	0°	135°	+39°	203°	+5°	0.6dB	196°K	359981	+187 Hz
2029-02-28	wednesday	14:00	144°	+42°	0 dB	0°	144°	+42°	210°	+5°	0.6dB	196°K	359935	+153 Hz
2029-02-28	wednesday	14:30	153°	+44°	0 dB	0°	153°	+44°	217°	+4°	0.6dB	197°K	359890	+117 Hz
2029-02-28	wednesday	15:00	163°	+46°	0 dB	0°	163°	+46°	225°	+4°	0.6dB	197°K	359845	+79 Hz
2029-02-28	wednesday	15:30	174°	+47°	0 dB	0°	174°	+47°	232°	+4°	0.6dB	197°K	359801	+40 Hz
2029-02-28	wednesday	16:00	185°	+47°	0 dB	0°	185°	+47°	239°	+4°	0.6dB	198°K	359759	0 Hz
2029-02-28	wednesday	16:30	195°	+46°	0 dB	0°	195°	+46°	246°	+4°	0.6dB	198°K	359717	-39 Hz
2029-02-28	wednesday	17:00	205°	+44°	0 dB	0°	205°	+44°	254°	+4°	0.6dB	198°K	359675	-77 Hz
2029-02-28	wednesday	17:30	214°	+41°	0 dB	0°	214°	+41°	261°	+4°	0.6dB	199°K	359635	-113 Hz
2029-02-28	wednesday	18:00	223°	+38°	0 dB	0°	223°	+38°	268°	+3°	0.6dB	199°K	359595	-148 Hz
2029-02-28	wednesday	18:30	231°	+34°	0 dB	0°	231°	+34°	275°	+3°	0.6dB	199°K	359556	-179 Hz
2029-02-28	wednesday	19:00	238°	+30°	0 dB	0°	238°	+30°	283°	+3°	0.6dB	200°K	359518	-207 Hz
2029-02-28	wednesday	19:30	244°	+26°	0 dB	0°	244°	+26°	290°	+3°	0.6dB	200°K	359480	-231 Hz
2029-02-28	wednesday	20:00	250°	+21°	0 dB	0°	250°	+21°	297°	+3°	0.6dB	200°K	359444	-251 Hz
2029-02-28	wednesday	20:30	256°	+16°	0 dB	0°	256°	+16°	304°	+3°	0.6dB	201°K	359408	-267 Hz
2029-02-28	wednesday	21:00	261°	+11°	0 dB	0°	261°	+11°	312°	+3°	0.6dB	201°K	359373	-278 Hz
2029-02-28	wednesday	21:30	266°	+6°	0 dB	0°	266°	+6°	319°	+3°	0.6dB	201°K	359339	-284 Hz
2029-02-28	wednesday	22:00	272°	+1°	0 dB	0°	272°	+1°	326°	+2°	0.6dB	202°K	359306	-286 Hz
2029-03-01	Thursday	11:00	097°	+4°	0 dB	0°	097°	+4°	154°	-1°	0.7dB	210°K	358719	+297 Hz
2029-03-01	Thursday	11:30	102°	+9°	0 dB	0°	102°	+9°	161°	-1°	0.7dB	211°K	358707	+290 Hz
2029-03-01	Thursday	12:00	108°	+13°	0 dB	0°	108°	+13°	169°	-1°	0.7dB	211°K	358696	+278 Hz
2029-03-01	Thursday	12:30	113°	+18°	0 dB	0°	113°	+18°	176°	-1°	0.7dB	211°K	358686	+262 Hz
2029-03-01	Thursday	13:00	120°	+22°	0 dB	0°	120°	+22°	183°	-2°	0.8dB	212°K	358677	+241 Hz
2029-03-01	Thursday	13:30	126°	+27°	0 dB	0°	126°	+27°	190°	-2°	0.8dB	212°K	358668	+217 Hz
2029-03-01	Thursday	14:00	133°	+30°	0 dB	0°	133°	+30°	197°	-2°	0.8dB	212°K	358660	+188 Hz
2029-03-01	Thursday	14:30	141°	+34°	0 dB	0°	141°	+34°	205°	-2°	0.8dB	213°K	358654	+157 Hz
2029-03-01	Thursday	15:00	149°	+36°	0 dB	0°	149°	+36°	212°	-2°	0.8dB	214°K	358648	+122 Hz
2029-03-01	Thursday	15:30	158°	+39°	0 dB	0°	158°	+39°	219°	-2°	0.8dB	216°K	358642	+86 Hz
2029-03-01	Thursday	16:00	167°	+40°	0 dB	0°	167°	+40°	226°	-2°	0.9dB	218°K	358638	+47 Hz
2029-03-01	Thursday	16:30	177°	+40°	0 dB	0°	177°	+40°	234°	-3°	0.9dB	220°K	358634	+8 Hz
2029-03-01	Thursday	17:00	186°	+40°	0 dB	0°	186°	+40°	241°	-3°	0.9dB	221°K	358631	-31 Hz
2029-03-01	Thursday	17:30	196°	+39°	0 dB	0°	196°	+39°	248°	-3°	0.9dB	223°K	358629	-70 Hz
2029-03-01	Thursday	18:00	205°	+37°	0 dB	0°	205°	+37°	255°	-3°	1.0dB	225°K	358628	-107 Hz
2029-03-01	Thursday	18:30	213°	+35°	0 dB	0°	213°	+35°	263°	-3°	1.0dB	227°K	358628	-143 Hz
2029-03-01	Thursday	19:00	221°	+31°	0 dB	0°	221°	+31°	270°	-3°	1.0dB	229°K	358628	-176 Hz
2029-03-01	Thursday	19:30	228°	+28°	0 dB	0°	228°	+28°	277°	-3°	1.1dB	231°K	358629	-207 Hz
2029-03-01	Thursday	20:00	235°	+24°	0 dB	0°	235°	+24°	284°	-3°	1.1dB	232°K	358631	-234 Hz
2029-03-01	Thursday	20:30	241°	+19°	0 dB	0°	241°	+19°	292°	-4°	1.1dB	234°K	358634	-257 Hz
2029-03-01	Thursday	21:00	247°	+15°	0 dB	0°	247°	+15°	299°	-4°	1.1dB	236°K	358637	-276 Hz
2029-03-01	Thursday	21:30	253°	+10°	0 dB	0°	253°	+10°	306°	-4°	1.2dB	238°K	358642	-290 Hz
2029-03-01	Thursday	22:00	258°	+5°	0 dB	0°	258°	+5°	313°	-4°	1.2dB	240°K	358647	-300 Hz
2029-03-01	Thursday	22:30	263°	-0°	0 dB	0°	263°	-0°	320°	-4°	1.2dB	242°K	358653	-305 Hz
2029-03-02	Friday	12:00	102°	+0°	0 dB	0°	102°	+0°	156°	-8°	1.9dB	294°K	359108	+271 Hz
2029-03-02	Friday	12:30	108°	+5°	0 dB	0°	108°	+5°	163°	-8°	2.0dB	296°K	359136	+263 Hz
2029-03-02	Friday	13:00	113°	+9°	0 dB	0°	113°	+9°	170°	-8°	2.0dB	298°K	359164	+250 Hz
2029-03-02	Friday	13:30	119°	+14°	0 dB	0°	119°	+14°	177°	-8°	2.0dB	300°K	359193	+233 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-02	Friday	14:00	125°	+18°	0 dB	0°	125°	+18°	185°	-8°	2.0dB	302°K	359223 +212 Hz
2029-03-02	Friday	14:30	132°	+22°	0 dB	0°	132°	+22°	192°	-8°	2.1dB	304°K	359254 +187 Hz
2029-03-02	Friday	15:00	138°	+25°	0 dB	0°	138°	+25°	199°	-8°	2.1dB	306°K	359285 +158 Hz
2029-03-02	Friday	15:30	146°	+28°	0 dB	0°	146°	+28°	206°	-8°	2.1dB	308°K	359317 +126 Hz
2029-03-02	Friday	16:00	154°	+31°	0 dB	0°	154°	+31°	214°	-9°	2.1dB	310°K	359350 +92 Hz
2029-03-02	Friday	16:30	162°	+33°	0 dB	0°	162°	+33°	221°	-9°	2.2dB	312°K	359383 +55 Hz
2029-03-02	Friday	17:00	170°	+34°	0 dB	0°	170°	+34°	228°	-9°	2.2dB	313°K	359418 +17 Hz
2029-03-02	Friday	17:30	179°	+34°	0 dB	0°	179°	+34°	235°	-9°	2.2dB	313°K	359453 -21 Hz
2029-03-02	Friday	18:00	188°	+34°	0 dB	0°	188°	+34°	242°	-9°	2.2dB	313°K	359488 -59 Hz
2029-03-02	Friday	18:30	196°	+32°	0 dB	0°	196°	+32°	250°	-9°	2.2dB	313°K	359525 -97 Hz
2029-03-02	Friday	19:00	204°	+31°	0 dB	0°	204°	+31°	257°	-9°	2.2dB	313°K	359562 -134 Hz
2029-03-02	Friday	19:30	212°	+28°	0 dB	0°	212°	+28°	264°	-9°	2.2dB	313°K	359600 -168 Hz
2029-03-02	Friday	20:00	219°	+25°	0 dB	0°	219°	+25°	271°	-10°	2.2dB	313°K	359638 -200 Hz
2029-03-02	Friday	20:30	226°	+21°	0 dB	0°	226°	+21°	279°	-10°	2.2dB	313°K	359678 -229 Hz
2029-03-02	Friday	21:00	233°	+18°	0 dB	0°	233°	+18°	286°	-10°	2.2dB	313°K	359718 -255 Hz
2029-03-02	Friday	21:30	238°	+13°	0 dB	0°	238°	+13°	293°	-10°	2.2dB	313°K	359758 -276 Hz
2029-03-02	Friday	22:00	244°	+9°	0 dB	0°	244°	+9°	300°	-10°	2.2dB	313°K	359800 -294 Hz
2029-03-02	Friday	22:30	250°	+4°	0 dB	0°	250°	+4°	308°	-10°	2.2dB	313°K	359842 -307 Hz
2029-03-03	Saturday	13:30	113°	+1°	0 dB	0°	113°	+1°	164°	-14°	2.2dB	307°K	361419 +236 Hz
2029-03-03	Saturday	14:00	118°	+6°	0 dB	0°	118°	+6°	172°	-14°	2.2dB	307°K	361482 +223 Hz
2029-03-03	Saturday	14:30	124°	+10°	0 dB	0°	124°	+10°	179°	-14°	2.2dB	306°K	361545 +206 Hz
2029-03-03	Saturday	15:00	130°	+14°	0 dB	0°	130°	+14°	186°	-14°	2.2dB	306°K	361608 +184 Hz
2029-03-03	Saturday	15:30	136°	+17°	0 dB	0°	136°	+17°	193°	-14°	2.2dB	306°K	361673 +159 Hz
2029-03-03	Saturday	16:00	143°	+21°	0 dB	0°	143°	+21°	200°	-14°	2.2dB	305°K	361737 +131 Hz
2029-03-03	Saturday	16:30	150°	+23°	0 dB	0°	150°	+23°	208°	-14°	2.2dB	305°K	361803 +99 Hz
2029-03-03	Saturday	17:00	157°	+25°	0 dB	0°	157°	+25°	215°	-14°	2.2dB	305°K	361869 +65 Hz
2029-03-03	Saturday	17:30	165°	+27°	0 dB	0°	165°	+27°	222°	-15°	2.2dB	304°K	361936 +30 Hz
2029-03-03	Saturday	18:00	173°	+28°	0 dB	0°	173°	+28°	229°	-15°	2.2dB	304°K	362003 -7 Hz
2029-03-03	Saturday	18:30	181°	+28°	0 dB	0°	181°	+28°	237°	-15°	2.2dB	305°K	362071 -44 Hz
2029-03-03	Saturday	19:00	188°	+28°	0 dB	0°	188°	+28°	244°	-15°	2.2dB	306°K	362139 -82 Hz
2029-03-03	Saturday	19:30	196°	+26°	0 dB	0°	196°	+26°	251°	-15°	2.2dB	307°K	362208 -118 Hz
2029-03-03	Saturday	20:00	204°	+25°	0 dB	0°	204°	+25°	258°	-15°	2.2dB	307°K	362278 -153 Hz
2029-03-03	Saturday	20:30	211°	+22°	0 dB	0°	211°	+22°	265°	-15°	2.3dB	308°K	362348 -186 Hz
2029-03-03	Saturday	21:00	218°	+19°	0 dB	0°	218°	+19°	273°	-15°	2.3dB	309°K	362418 -217 Hz
2029-03-03	Saturday	21:30	224°	+16°	0 dB	0°	224°	+16°	280°	-15°	2.3dB	310°K	362489 -244 Hz
2029-03-03	Saturday	22:00	230°	+12°	0 dB	0°	230°	+12°	287°	-16°	2.3dB	311°K	362561 -268 Hz
2029-03-03	Saturday	22:30	236°	+8°	0 dB	0°	236°	+8°	294°	-16°	2.3dB	312°K	362633 -289 Hz
2029-03-03	Saturday	23:00	241°	+4°	0 dB	0°	241°	+4°	301°	-16°	2.3dB	313°K	362706 -305 Hz
2029-03-04	Sunday	15:00	122°	+2°	0 dB	0°	122°	+2°	172°	-19°	2.9dB	350°K	365301 +201 Hz
2029-03-04	Sunday	15:30	127°	+6°	0 dB	0°	127°	+6°	180°	-19°	2.9dB	351°K	365389 +184 Hz
2029-03-04	Sunday	16:00	133°	+10°	0 dB	0°	133°	+10°	187°	-19°	2.9dB	353°K	365478 +163 Hz
2029-03-04	Sunday	16:30	139°	+14°	0 dB	0°	139°	+14°	194°	-19°	2.9dB	354°K	365568 +138 Hz
2029-03-04	Sunday	17:00	146°	+17°	0 dB	0°	146°	+17°	201°	-19°	2.9dB	356°K	365658 +110 Hz
2029-03-04	Sunday	17:30	152°	+19°	0 dB	0°	152°	+19°	208°	-19°	3.0dB	357°K	365748 +79 Hz
2029-03-04	Sunday	18:00	159°	+21°	0 dB	0°	159°	+21°	216°	-19°	3.0dB	359°K	365838 +46 Hz
2029-03-04	Sunday	18:30	167°	+22°	0 dB	0°	167°	+22°	223°	-19°	3.0dB	360°K	365929 +12 Hz
2029-03-04	Sunday	19:00	174°	+23°	0 dB	0°	174°	+23°	230°	-19°	3.0dB	361°K	366021 -24 Hz
2029-03-04	Sunday	19:30	181°	+23°	0 dB	0°	181°	+23°	237°	-20°	3.0dB	363°K	366113 -60 Hz
2029-03-04	Sunday	20:00	189°	+23°	0 dB	0°	189°	+23°	245°	-20°	3.1dB	364°K	366205 -96 Hz
2029-03-04	Sunday	20:30	196°	+22°	0 dB	0°	196°	+22°	252°	-20°	3.1dB	365°K	366297 -131 Hz
2029-03-04	Sunday	21:00	203°	+20°	0 dB	0°	203°	+20°	259°	-20°	3.1dB	366°K	366390 -165 Hz
2029-03-04	Sunday	21:30	210°	+18°	0 dB	0°	210°	+18°	266°	-20°	3.1dB	368°K	366483 -197 Hz
2029-03-04	Sunday	22:00	216°	+15°	0 dB	0°	216°	+15°	273°	-20°	3.1dB	369°K	366577 -226 Hz
2029-03-04	Sunday	22:30	222°	+11°	0 dB	0°	222°	+11°	281°	-20°	3.1dB	370°K	366671 -252 Hz
2029-03-04	Sunday	23:00	228°	+8°	0 dB	0°	228°	+8°	288°	-20°	3.2dB	371°K	366765 -275 Hz
2029-03-04	Sunday	23:30	234°	+4°	0 dB	0°	234°	+4°	295°	-20°	3.2dB	373°K	366860 -294 Hz
2029-03-05	Monday	00:00	239°	-0°	0 dB	0°	239°	-0°	302°	-20°	3.2dB	374°K	366955 -309 Hz
2029-03-05	Monday	16:00	124°	-0°	0 dB	0°	124°	-0°	173°	-22°	3.7dB	411°K	370153 +186 Hz
2029-03-05	Monday	16:30	130°	+4°	0 dB	0°	130°	+4°	180°	-22°	3.7dB	412°K	370257 +169 Hz
2029-03-05	Monday	17:00	135°	+7°	0 dB	0°	135°	+7°	187°	-23°	3.7dB	413°K	370361 +149 Hz
2029-03-05	Monday	17:30	141°	+11°	0 dB	0°	141°	+11°	195°	-23°	3.7dB	414°K	370466 +124 Hz
2029-03-05	Monday	18:00	148°	+14°	0 dB	0°	148°	+14°	202°	-23°	3.8dB	415°K	370571 +97 Hz
2029-03-05	Monday	18:30	154°	+16°	0 dB	0°	154°	+16°	209°	-23°	3.8dB	416°K	370676 +67 Hz
2029-03-05	Monday	19:00	161°	+18°	0 dB	0°	161°	+18°	216°	-23°	3.8dB	418°K	370781 +35 Hz
2029-03-05	Monday	19:30	168°	+19°	0 dB	0°	168°	+19°	223°	-23°	3.8dB	420°K	370886 +2 Hz
2029-03-05	Monday	20:00	175°	+20°	0 dB	0°	175°	+20°	231°	-23°	3.8dB	423°K	370991 -33 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-05	Monday	20:30	182°	+20°	0 dB	0°	182°	+20°	238°	-23°	3.9dB	426°K	371097 -68 Hz
2029-03-05	Monday	21:00	189°	+19°	0 dB	0°	189°	+19°	245°	-23°	3.9dB	428°K	371203 -103 Hz
2029-03-05	Monday	21:30	196°	+18°	0 dB	0°	196°	+18°	252°	-23°	3.9dB	431°K	371309 -137 Hz
2029-03-05	Monday	22:00	203°	+17°	0 dB	0°	203°	+17°	259°	-23°	4.0dB	433°K	371415 -169 Hz
2029-03-05	Monday	22:30	209°	+14°	0 dB	0°	209°	+14°	267°	-23°	4.0dB	436°K	371522 -200 Hz
2029-03-05	Monday	23:00	215°	+12°	0 dB	0°	215°	+12°	274°	-23°	4.0dB	438°K	371628 -228 Hz
2029-03-05	Monday	23:30	221°	+9°	0 dB	0°	221°	+9°	281°	-23°	4.0dB	441°K	371735 -254 Hz
2029-03-06	Tuesday	00:00	227°	+5°	0 dB	0°	227°	+5°	288°	-23°	4.1dB	443°K	371842 -276 Hz
2029-03-06	Tuesday	00:30	232°	+1°	0 dB	0°	232°	+1°	295°	-23°	4.1dB	446°K	371949 -294 Hz
2029-03-06	Tuesday	17:30	131°	+2°	0 dB	0°	131°	+2°	181°	-25°	5.4dB	595°K	375650 +163 Hz
2029-03-06	Tuesday	18:00	137°	+6°	0 dB	0°	137°	+6°	188°	-25°	5.4dB	600°K	375760 +143 Hz
2029-03-06	Tuesday	18:30	143°	+9°	0 dB	0°	143°	+9°	195°	-25°	5.5dB	606°K	375870 +119 Hz
2029-03-06	Tuesday	19:00	149°	+12°	0 dB	0°	149°	+12°	202°	-25°	5.5dB	614°K	375981 +92 Hz
2029-03-06	Tuesday	19:30	155°	+14°	0 dB	0°	155°	+14°	209°	-25°	5.6dB	624°K	376091 +63 Hz
2029-03-06	Tuesday	20:00	162°	+16°	0 dB	0°	162°	+16°	217°	-25°	5.7dB	635°K	376201 +31 Hz
2029-03-06	Tuesday	20:30	168°	+17°	0 dB	0°	168°	+17°	224°	-25°	5.7dB	646°K	376311 -2 Hz
2029-03-06	Tuesday	21:00	175°	+18°	0 dB	0°	175°	+18°	231°	-25°	5.8dB	657°K	376421 -36 Hz
2029-03-06	Tuesday	21:30	182°	+18°	0 dB	0°	182°	+18°	238°	-25°	5.9dB	668°K	376531 -70 Hz
2029-03-06	Tuesday	22:00	189°	+18°	0 dB	0°	189°	+18°	245°	-25°	6.0dB	679°K	376641 -104 Hz
2029-03-06	Tuesday	22:30	196°	+17°	0 dB	0°	196°	+17°	253°	-25°	6.0dB	690°K	376751 -138 Hz
2029-03-06	Tuesday	23:00	202°	+15°	0 dB	0°	202°	+15°	260°	-25°	6.1dB	701°K	376862 -170 Hz
2029-03-06	Tuesday	23:30	209°	+13°	0 dB	0°	209°	+13°	267°	-25°	6.2dB	711°K	376972 -200 Hz
2029-03-07	wednesday	00:00	215°	+10°	0 dB	0°	215°	+10°	274°	-25°	6.2dB	722°K	377082 -228 Hz
2029-03-07	wednesday	00:30	221°	+7°	0 dB	0°	221°	+7°	281°	-25°	6.3dB	733°K	377192 -253 Hz
2029-03-07	wednesday	01:00	226°	+4°	0 dB	0°	226°	+4°	289°	-25°	6.3dB	744°K	377302 -274 Hz
2029-03-07	wednesday	01:30	232°	-0°	0 dB	0°	232°	-0°	296°	-25°	6.4dB	755°K	377412 -292 Hz
2029-03-07	wednesday	18:30	132°	+2°	0 dB	0°	132°	+2°	181°	-25°	9.6dB	1580°K	381126 +164 Hz
2029-03-07	wednesday	19:00	137°	+6°	0 dB	0°	137°	+6°	188°	-25°	9.7dB	1612°K	381234 +143 Hz
2029-03-07	wednesday	19:30	143°	+9°	0 dB	0°	143°	+9°	195°	-25°	9.9dB	1681°K	381342 +120 Hz
2029-03-07	wednesday	20:00	149°	+12°	0 dB	0°	149°	+12°	203°	-25°	10.1dB	1750°K	381449 +93 Hz
2029-03-07	wednesday	20:30	156°	+14°	0 dB	0°	156°	+14°	210°	-25°	10.2dB	1819°K	381557 +63 Hz
2029-03-07	wednesday	21:00	162°	+16°	0 dB	0°	162°	+16°	217°	-25°	10.4dB	1888°K	381664 +32 Hz
2029-03-07	wednesday	21:30	169°	+17°	0 dB	0°	169°	+17°	224°	-25°	10.5dB	1957°K	381771 -1 Hz
2029-03-07	wednesday	22:00	176°	+18°	0 dB	0°	176°	+18°	232°	-25°	10.7dB	2026°K	381878 -35 Hz
2029-03-07	wednesday	22:30	183°	+18°	0 dB	0°	183°	+18°	239°	-25°	10.8dB	2094°K	381985 -69 Hz
2029-03-07	wednesday	23:00	190°	+18°	0 dB	0°	190°	+18°	246°	-25°	11.0dB	2163°K	382092 -104 Hz
2029-03-07	wednesday	23:30	196°	+16°	0 dB	0°	196°	+16°	253°	-25°	11.1dB	2232°K	382199 -137 Hz
2029-03-08	Thursday	00:00	203°	+15°	0 dB	0°	203°	+15°	260°	-25°	11.3dB	2301°K	382306 -169 Hz
2029-03-08	Thursday	00:30	209°	+13°	0 dB	0°	209°	+13°	268°	-25°	11.4dB	2369°K	382412 -199 Hz
2029-03-08	Thursday	01:00	215°	+10°	0 dB	0°	215°	+10°	275°	-25°	11.5dB	2438°K	382518 -226 Hz
2029-03-08	Thursday	01:30	221°	+7°	0 dB	0°	221°	+7°	282°	-25°	11.6dB	2506°K	382625 -251 Hz
2029-03-08	Thursday	02:00	227°	+3°	0 dB	0°	227°	+3°	289°	-25°	11.8dB	2575°K	382731 -273 Hz
2029-03-08	Thursday	02:30	232°	-0°	0 dB	0°	232°	-0°	297°	-25°	11.9dB	2643°K	382837 -290 Hz
2029-03-08	Thursday	19:00	127°	-0°	0 dB	0°	127°	-0°	175°	-24°	11.2dB	2186°K	386243 +187 Hz
2029-03-08	Thursday	19:30	132°	+4°	0 dB	0°	132°	+4°	182°	-24°	11.1dB	2139°K	386343 +169 Hz
2029-03-08	Thursday	20:00	138°	+7°	0 dB	0°	138°	+7°	189°	-24°	11.0dB	2091°K	386443 +148 Hz
2029-03-08	Thursday	20:30	144°	+11°	0 dB	0°	144°	+11°	197°	-24°	10.9dB	2044°K	386543 +124 Hz
2029-03-08	Thursday	21:00	150°	+13°	0 dB	0°	150°	+13°	204°	-24°	10.9dB	1996°K	386643 +96 Hz
2029-03-08	Thursday	21:30	156°	+16°	0 dB	0°	156°	+16°	211°	-24°	10.8dB	1949°K	386742 +66 Hz
2029-03-08	Thursday	22:00	163°	+18°	0 dB	0°	163°	+18°	218°	-24°	10.7dB	1902°K	386841 +34 Hz
2029-03-08	Thursday	22:30	170°	+19°	0 dB	0°	170°	+19°	225°	-23°	10.6dB	1855°K	386940 0 Hz
2029-03-08	Thursday	23:00	177°	+19°	0 dB	0°	177°	+19°	233°	-23°	10.5dB	1807°K	387039 -34 Hz
2029-03-08	Thursday	23:30	184°	+19°	0 dB	0°	184°	+19°	240°	-23°	10.3dB	1760°K	387138 -69 Hz
2029-03-09	Friday	00:00	191°	+19°	0 dB	0°	191°	+19°	247°	-23°	10.2dB	1713°K	387236 -104 Hz
2029-03-09	Friday	00:30	198°	+18°	0 dB	0°	198°	+18°	254°	-23°	10.1dB	1666°K	387334 -137 Hz
2029-03-09	Friday	01:00	204°	+16°	0 dB	0°	204°	+16°	262°	-23°	10.0dB	1619°K	387432 -170 Hz
2029-03-09	Friday	01:30	211°	+14°	0 dB	0°	211°	+14°	269°	-23°	9.9dB	1572°K	387530 -200 Hz
2029-03-09	Friday	02:00	217°	+11°	0 dB	0°	217°	+11°	276°	-23°	9.8dB	1526°K	387627 -227 Hz
2029-03-09	Friday	02:30	223°	+8°	0 dB	0°	223°	+8°	283°	-23°	9.6dB	1479°K	387725 -252 Hz
2029-03-09	Friday	03:00	229°	+4°	0 dB	0°	229°	+4°	291°	-23°	9.5dB	1432°K	387822 -273 Hz
2029-03-09	Friday	03:30	234°	+0°	0 dB	0°	234°	+0°	298°	-23°	9.4dB	1385°K	387919 -291 Hz
2029-03-09	Friday	20:00	127°	+3°	0 dB	0°	127°	+3°	177°	-21°	6.0dB	585°K	390990 +195 Hz
2029-03-09	Friday	20:30	132°	+7°	0 dB	0°	132°	+7°	184°	-21°	5.9dB	573°K	391079 +176 Hz
2029-03-09	Friday	21:00	138°	+10°	0 dB	0°	138°	+10°	191°	-21°	5.8dB	560°K	391168 +154 Hz
2029-03-09	Friday	21:30	144°	+14°	0 dB	0°	144°	+14°	198°	-21°	5.8dB	547°K	391257 +128 Hz
2029-03-09	Friday	22:00	150°	+16°	0 dB	0°	150°	+16°	206°	-21°	5.7dB	534°K	391345 +99 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-09	Friday	22:30	157°	+19°	0 dB	0°	157°	+19°	213°	-21°	5.6dB	522°K	391433	+68 Hz
2029-03-09	Friday	23:00	164°	+20°	0 dB	0°	164°	+20°	220°	-21°	5.5dB	516°K	391521	+34 Hz
2029-03-09	Friday	23:30	171°	+22°	0 dB	0°	171°	+22°	227°	-21°	5.5dB	510°K	391609	0 Hz
2029-03-10	Saturday	00:00	179°	+22°	0 dB	0°	179°	+22°	235°	-21°	5.5dB	505°K	391696	-36 Hz
2029-03-10	Saturday	00:30	186°	+22°	0 dB	0°	186°	+22°	242°	-21°	5.4dB	499°K	391783	-72 Hz
2029-03-10	Saturday	01:00	193°	+21°	0 dB	0°	193°	+21°	249°	-21°	5.4dB	494°K	391870	-107 Hz
2029-03-10	Saturday	01:30	200°	+20°	0 dB	0°	200°	+20°	256°	-21°	5.3dB	488°K	391957	-141 Hz
2029-03-10	Saturday	02:00	207°	+18°	0 dB	0°	207°	+18°	264°	-21°	5.3dB	483°K	392043	-174 Hz
2029-03-10	Saturday	02:30	214°	+15°	0 dB	0°	214°	+15°	271°	-20°	5.3dB	477°K	392129	-204 Hz
2029-03-10	Saturday	03:00	220°	+12°	0 dB	0°	220°	+12°	278°	-20°	5.2dB	472°K	392215	-232 Hz
2029-03-10	Saturday	03:30	226°	+9°	0 dB	0°	226°	+9°	285°	-20°	5.2dB	466°K	392301	-256 Hz
2029-03-10	Saturday	04:00	232°	+5°	0 dB	0°	232°	+5°	293°	-20°	5.1dB	461°K	392386	-277 Hz
2029-03-10	Saturday	04:30	237°	+1°	0 dB	0°	237°	+1°	300°	-20°	5.1dB	455°K	392472	-294 Hz
2029-03-10	Saturday	20:30	121°	+3°	0 dB	0°	121°	+3°	172°	-18°	4.2dB	345°K	395063	+219 Hz
2029-03-10	Saturday	21:00	126°	+7°	0 dB	0°	126°	+7°	179°	-18°	4.2dB	343°K	395140	+202 Hz
2029-03-10	Saturday	21:30	132°	+11°	0 dB	0°	132°	+11°	187°	-18°	4.1dB	342°K	395216	+182 Hz
2029-03-10	Saturday	22:00	138°	+15°	0 dB	0°	138°	+15°	194°	-18°	4.1dB	340°K	395292	+157 Hz
2029-03-10	Saturday	22:30	145°	+18°	0 dB	0°	145°	+18°	201°	-18°	4.1dB	339°K	395368	+129 Hz
2029-03-10	Saturday	23:00	152°	+21°	0 dB	0°	152°	+21°	208°	-17°	4.1dB	337°K	395444	+99 Hz
2029-03-10	Saturday	23:30	159°	+23°	0 dB	0°	159°	+23°	216°	-17°	4.1dB	336°K	395520	+66 Hz
2029-03-11	Sunday	00:00	166°	+25°	0 dB	0°	166°	+25°	223°	-17°	4.1dB	334°K	395595	+31 Hz
2029-03-11	Sunday	00:30	174°	+26°	0 dB	0°	174°	+26°	230°	-17°	4.1dB	333°K	395670	-6 Hz
2029-03-11	Sunday	01:00	181°	+26°	0 dB	0°	181°	+26°	237°	-17°	4.0dB	331°K	395744	-42 Hz
2029-03-11	Sunday	01:30	189°	+25°	0 dB	0°	189°	+25°	245°	-17°	4.0dB	330°K	395819	-79 Hz
2029-03-11	Sunday	02:00	197°	+24°	0 dB	0°	197°	+24°	252°	-17°	4.0dB	328°K	395893	-115 Hz
2029-03-11	Sunday	02:30	204°	+23°	0 dB	0°	204°	+23°	259°	-17°	4.0dB	327°K	395967	-150 Hz
2029-03-11	Sunday	03:00	211°	+20°	0 dB	0°	211°	+20°	266°	-17°	4.0dB	326°K	396041	-182 Hz
2029-03-11	Sunday	03:30	218°	+18°	0 dB	0°	218°	+18°	274°	-17°	4.0dB	326°K	396114	-212 Hz
2029-03-11	Sunday	04:00	225°	+14°	0 dB	0°	225°	+14°	281°	-17°	4.0dB	326°K	396187	-240 Hz
2029-03-11	Sunday	04:30	231°	+11°	0 dB	0°	231°	+11°	288°	-17°	4.0dB	326°K	396260	-263 Hz
2029-03-11	Sunday	05:00	236°	+7°	0 dB	0°	236°	+7°	296°	-16°	4.0dB	326°K	396333	-283 Hz
2029-03-11	Sunday	05:30	242°	+2°	0 dB	0°	242°	+2°	303°	-16°	4.0dB	326°K	396405	-299 Hz
2029-03-11	Sunday	21:00	115°	+4°	0 dB	0°	115°	+4°	168°	-14°	4.1dB	326°K	398520	+240 Hz
2029-03-11	Sunday	21:30	121°	+8°	0 dB	0°	121°	+8°	175°	-14°	4.1dB	326°K	398584	+225 Hz
2029-03-11	Sunday	22:00	127°	+13°	0 dB	0°	127°	+13°	183°	-13°	4.1dB	326°K	398648	+206 Hz
2029-03-11	Sunday	22:30	133°	+17°	0 dB	0°	133°	+17°	190°	-13°	4.1dB	326°K	398712	+183 Hz
2029-03-11	Sunday	23:00	139°	+20°	0 dB	0°	139°	+20°	197°	-13°	4.1dB	326°K	398775	+156 Hz
2029-03-11	Sunday	23:30	146°	+23°	0 dB	0°	146°	+23°	205°	-13°	4.1dB	326°K	398838	+126 Hz
2029-03-12	Monday	00:00	153°	+26°	0 dB	0°	153°	+26°	212°	-13°	4.1dB	326°K	398901	+93 Hz
2029-03-12	Monday	00:30	161°	+28°	0 dB	0°	161°	+28°	219°	-13°	4.1dB	326°K	398963	+58 Hz
2029-03-12	Monday	01:00	169°	+29°	0 dB	0°	169°	+29°	226°	-13°	4.1dB	326°K	399026	+22 Hz
2029-03-12	Monday	01:30	177°	+30°	0 dB	0°	177°	+30°	234°	-13°	4.1dB	326°K	399088	-16 Hz
2029-03-12	Monday	02:00	186°	+30°	0 dB	0°	186°	+30°	241°	-13°	4.1dB	326°K	399149	-54 Hz
2029-03-12	Monday	02:30	194°	+29°	0 dB	0°	194°	+29°	248°	-13°	4.1dB	326°K	399211	-91 Hz
2029-03-12	Monday	03:00	202°	+28°	0 dB	0°	202°	+28°	256°	-13°	4.1dB	326°K	399272	-127 Hz
2029-03-12	Monday	03:30	209°	+26°	0 dB	0°	209°	+26°	263°	-12°	4.1dB	326°K	399333	-162 Hz
2029-03-12	Monday	04:00	217°	+23°	0 dB	0°	217°	+23°	270°	-12°	4.2dB	326°K	399394	-194 Hz
2029-03-12	Monday	04:30	224°	+20°	0 dB	0°	224°	+20°	277°	-12°	4.2dB	326°K	399455	-224 Hz
2029-03-12	Monday	05:00	230°	+16°	0 dB	0°	230°	+16°	285°	-12°	4.2dB	326°K	399515	-250 Hz
2029-03-12	Monday	05:30	236°	+12°	0 dB	0°	236°	+12°	292°	-12°	4.2dB	326°K	399575	-272 Hz
2029-03-12	Monday	06:00	242°	+8°	0 dB	0°	242°	+8°	299°	-12°	4.2dB	326°K	399635	-291 Hz
2029-03-12	Monday	06:30	248°	+4°	0 dB	0°	248°	+4°	306°	-12°	4.2dB	326°K	399694	-304 Hz
2029-03-12	Monday	21:00	105°	+0°	0 dB	0°	105°	+0°	158°	-9°	4.0dB	303°K	401309	+267 Hz
2029-03-12	Monday	21:30	110°	+5°	0 dB	0°	110°	+5°	165°	-9°	4.0dB	302°K	401361	+258 Hz
2029-03-12	Monday	22:00	115°	+10°	0 dB	0°	115°	+10°	172°	-9°	3.9dB	301°K	401412	+245 Hz
2029-03-12	Monday	22:30	121°	+15°	0 dB	0°	121°	+15°	180°	-9°	3.9dB	300°K	401464	+227 Hz
2029-03-12	Monday	23:00	127°	+19°	0 dB	0°	127°	+19°	187°	-9°	3.9dB	299°K	401515	+205 Hz
2029-03-12	Monday	23:30	134°	+23°	0 dB	0°	134°	+23°	194°	-9°	3.9dB	298°K	401566	+180 Hz
2029-03-13	Tuesday	00:00	141°	+26°	0 dB	0°	141°	+26°	201°	-8°	3.9dB	297°K	401616	+150 Hz
2029-03-13	Tuesday	00:30	148°	+29°	0 dB	0°	148°	+29°	209°	-8°	3.9dB	296°K	401667	+118 Hz
2029-03-13	Tuesday	01:00	156°	+32°	0 dB	0°	156°	+32°	216°	-8°	3.9dB	295°K	401717	+83 Hz
2029-03-13	Tuesday	01:30	165°	+34°	0 dB	0°	165°	+34°	223°	-8°	3.9dB	294°K	401767	+46 Hz
2029-03-13	Tuesday	02:00	173°	+35°	0 dB	0°	173°	+35°	231°	-8°	3.9dB	292°K	401816	+8 Hz
2029-03-13	Tuesday	02:30	182°	+35°	0 dB	0°	182°	+35°	238°	-8°	3.8dB	290°K	401866	-31 Hz
2029-03-13	Tuesday	03:00	191°	+35°	0 dB	0°	191°	+35°	245°	-8°	3.8dB	289°K	401915	-69 Hz
2029-03-13	Tuesday	03:30	200°	+33°	0 dB	0°	200°	+33°	252°	-8°	3.8dB	287°K	401964	-107 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-13	Tuesday	04:00	208°	+31°	0 dB	0°	208°	+31°	260°	-8°	3.8dB	286°K	402012	-143 Hz
2029-03-13	Tuesday	04:30	216°	+29°	0 dB	0°	216°	+29°	267°	-8°	3.8dB	284°K	402061	-177 Hz
2029-03-13	Tuesday	05:00	223°	+26°	0 dB	0°	223°	+26°	274°	-7°	3.7dB	282°K	402109	-209 Hz
2029-03-13	Tuesday	05:30	230°	+22°	0 dB	0°	230°	+22°	282°	-7°	3.7dB	281°K	402157	-237 Hz
2029-03-13	Tuesday	06:00	237°	+18°	0 dB	0°	237°	+18°	289°	-7°	3.7dB	279°K	402204	-261 Hz
2029-03-13	Tuesday	06:30	243°	+14°	0 dB	0°	243°	+14°	296°	-7°	3.7dB	278°K	402252	-281 Hz
2029-03-13	Tuesday	07:00	249°	+9°	0 dB	0°	249°	+9°	303°	-7°	3.7dB	276°K	402299	-297 Hz
2029-03-13	Tuesday	07:30	254°	+5°	0 dB	0°	254°	+5°	311°	-7°	3.7dB	274°K	402346	-309 Hz
2029-03-13	Tuesday	08:00	259°	-0°	0 dB	0°	259°	-0°	318°	-7°	3.6dB	273°K	402392	-315 Hz
2029-03-13	Tuesday	21:30	099°	+2°	0 dB	0°	099°	+2°	155°	-4°	3.3dB	243°K	403556	+280 Hz
2029-03-13	Tuesday	22:00	104°	+7°	0 dB	0°	104°	+7°	162°	-4°	3.3dB	243°K	403595	+273 Hz
2029-03-13	Tuesday	22:30	110°	+12°	0 dB	0°	110°	+12°	169°	-4°	3.3dB	243°K	403635	+261 Hz
2029-03-13	Tuesday	23:00	116°	+17°	0 dB	0°	116°	+17°	177°	-4°	3.3dB	243°K	403674	+245 Hz
2029-03-13	Tuesday	23:30	122°	+21°	0 dB	0°	122°	+21°	184°	-4°	3.3dB	243°K	403713	+224 Hz
2029-03-14	wednesday	00:00	128°	+26°	0 dB	0°	128°	+26°	191°	-4°	3.3dB	243°K	403751	+199 Hz
2029-03-14	wednesday	00:30	135°	+30°	0 dB	0°	135°	+30°	199°	-3°	3.3dB	243°K	403789	+171 Hz
2029-03-14	wednesday	01:00	143°	+33°	0 dB	0°	143°	+33°	206°	-3°	3.3dB	243°K	403827	+139 Hz
2029-03-14	wednesday	01:30	151°	+36°	0 dB	0°	151°	+36°	213°	-3°	3.3dB	243°K	403865	+104 Hz
2029-03-14	wednesday	02:00	160°	+38°	0 dB	0°	160°	+38°	220°	-3°	3.3dB	243°K	403903	+68 Hz
2029-03-14	wednesday	02:30	169°	+40°	0 dB	0°	169°	+40°	228°	-3°	3.3dB	243°K	403940	+29 Hz
2029-03-14	wednesday	03:00	179°	+40°	0 dB	0°	179°	+40°	235°	-3°	3.3dB	243°K	403977	-10 Hz
2029-03-14	wednesday	03:30	188°	+40°	0 dB	0°	188°	+40°	242°	-3°	3.3dB	243°K	404014	-49 Hz
2029-03-14	wednesday	04:00	198°	+39°	0 dB	0°	198°	+39°	250°	-3°	3.3dB	243°K	404051	-87 Hz
2029-03-14	wednesday	04:30	207°	+37°	0 dB	0°	207°	+37°	257°	-3°	3.3dB	243°K	404087	-125 Hz
2029-03-14	wednesday	05:00	215°	+35°	0 dB	0°	215°	+35°	264°	-2°	3.3dB	243°K	404123	-160 Hz
2029-03-14	wednesday	05:30	223°	+31°	0 dB	0°	223°	+31°	272°	-2°	3.3dB	243°K	404159	-193 Hz
2029-03-14	wednesday	06:00	231°	+28°	0 dB	0°	231°	+28°	279°	-2°	3.3dB	243°K	404194	-223 Hz
2029-03-14	wednesday	06:30	237°	+24°	0 dB	0°	237°	+24°	286°	-2°	3.3dB	243°K	404229	-249 Hz
2029-03-14	wednesday	07:00	244°	+19°	0 dB	0°	244°	+19°	293°	-2°	3.3dB	243°K	404265	-271 Hz
2029-03-14	wednesday	07:30	250°	+15°	0 dB	0°	250°	+15°	301°	-2°	3.3dB	243°K	404299	-288 Hz
2029-03-14	wednesday	08:00	256°	+10°	0 dB	0°	256°	+10°	308°	-2°	3.3dB	243°K	404334	-301 Hz
2029-03-14	wednesday	08:30	261°	+5°	0 dB	0°	261°	+5°	315°	-2°	3.3dB	243°K	404368	-310 Hz
2029-03-14	wednesday	09:00	266°	+0°	0 dB	0°	266°	+0°	323°	-2°	3.3dB	243°K	404402	-313 Hz
2029-03-14	wednesday	22:00	094°	+4°	0 dB	0°	094°	+4°	152°	+1°	3.3dB	SUN!	405196	+289 Hz
2029-03-14	wednesday	22:30	099°	+9°	0 dB	0°	099°	+9°	160°	+1°	3.3dB	SUN!	405223	+284 Hz
2029-03-14	wednesday	23:00	104°	+14°	0 dB	0°	104°	+14°	167°	+1°	3.3dB	SUN!	405250	+274 Hz
2029-03-14	wednesday	23:30	110°	+19°	0 dB	0°	110°	+19°	174°	+1°	3.3dB	SUN!	405276	+259 Hz
2029-03-15	Thursday	00:00	116°	+24°	0 dB	0°	116°	+24°	181°	+1°	3.3dB	SUN!	405303	+240 Hz
2029-03-15	Thursday	00:30	123°	+29°	0 dB	0°	123°	+29°	189°	+2°	3.3dB	SUN!	405329	+216 Hz
2029-03-15	Thursday	01:00	130°	+33°	0 dB	0°	130°	+33°	196°	+2°	3.3dB	SUN!	405354	+189 Hz
2029-03-15	Thursday	01:30	137°	+36°	0 dB	0°	137°	+36°	203°	+2°	3.3dB	SUN!	405380	+158 Hz
2029-03-15	Thursday	02:00	146°	+40°	0 dB	0°	146°	+40°	211°	+2°	3.3dB	SUN!	405405	+124 Hz
2029-03-15	Thursday	02:30	155°	+42°	0 dB	0°	155°	+42°	218°	+2°	3.3dB	SUN!	405430	+87 Hz
2029-03-15	Thursday	03:00	165°	+44°	0 dB	0°	165°	+44°	225°	+2°	3.3dB	SUN!	405454	+49 Hz
2029-03-15	Thursday	03:30	175°	+45°	0 dB	0°	175°	+45°	233°	+2°	3.3dB	SUN!	405479	+10 Hz
2029-03-15	Thursday	04:00	185°	+45°	0 dB	0°	185°	+45°	240°	+2°	3.3dB	SUN!	405503	-29 Hz
2029-03-15	Thursday	04:30	196°	+45°	0 dB	0°	196°	+45°	247°	+2°	3.3dB	SUN!	405527	-68 Hz
2029-03-15	Thursday	05:00	206°	+43°	0 dB	0°	206°	+43°	254°	+3°	3.3dB	SUN!	405550	-106 Hz
2029-03-15	Thursday	05:30	215°	+40°	0 dB	0°	215°	+40°	262°	+3°	3.3dB	SUN!	405574	-142 Hz
2029-03-15	Thursday	06:00	224°	+37°	0 dB	0°	224°	+37°	269°	+3°	3.3dB	SUN!	405597	-176 Hz
2029-03-15	Thursday	06:30	231°	+34°	0 dB	0°	231°	+34°	276°	+3°	3.3dB	SUN!	405620	-207 Hz
2029-03-15	Thursday	07:00	239°	+29°	0 dB	0°	239°	+29°	284°	+3°	3.3dB	SUN!	405642	-234 Hz
2029-03-15	Thursday	07:30	245°	+25°	0 dB	0°	245°	+25°	291°	+3°	3.3dB	SUN!	405664	-257 Hz
2029-03-15	Thursday	08:00	251°	+20°	0 dB	0°	251°	+20°	298°	+3°	3.3dB	SUN!	405686	-277 Hz
2029-03-15	Thursday	08:30	257°	+16°	0 dB	0°	257°	+16°	305°	+3°	3.3dB	SUN!	405708	-291 Hz
2029-03-15	Thursday	09:00	263°	+11°	0 dB	0°	263°	+11°	313°	+3°	3.3dB	SUN!	405729	-301 Hz
2029-03-15	Thursday	09:30	268°	+6°	0 dB	0°	268°	+6°	320°	+3°	3.3dB	SUN!	405751	-306 Hz
2029-03-15	Thursday	10:00	273°	+1°	0 dB	0°	273°	+1°	327°	+4°	3.3dB	SUN!	405771	-306 Hz
2029-03-15	Thursday	22:00	083°	+1°	0 dB	0°	083°	+1°	142°	+6°	3.4dB	SUN!	406190	+295 Hz
2029-03-15	Thursday	22:30	088°	+6°	0 dB	0°	088°	+6°	150°	+6°	3.5dB	SUN!	406204	+296 Hz
2029-03-15	Thursday	23:00	094°	+11°	0 dB	0°	094°	+11°	157°	+6°	3.5dB	SUN!	406217	+293 Hz
2029-03-15	Thursday	23:30	099°	+16°	0 dB	0°	099°	+16°	164°	+6°	3.5dB	SUN!	406231	+284 Hz
2029-03-16	Friday	00:00	105°	+21°	0 dB	0°	105°	+21°	172°	+6°	3.5dB	SUN!	406244	+271 Hz
2029-03-16	Friday	00:30	110°	+26°	0 dB	0°	110°	+26°	179°	+6°	3.5dB	SUN!	406256	+253 Hz
2029-03-16	Friday	01:00	117°	+31°	0 dB	0°	117°	+31°	186°	+7°	3.5dB	SUN!	406269	+231 Hz
2029-03-16	Friday	01:30	124°	+35°	0 dB	0°	124°	+35°	193°	+7°	3.5dB	SUN!	406281	+205 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-16	Friday	02:00	131°	+40°	0 dB	0°	131°	+40°	201°	+7°	3.5dB	SUN!	406293 +175 Hz
2029-03-16	Friday	02:30	140°	+43°	0 dB	0°	140°	+43°	208°	+7°	3.5dB	SUN!	406305 +142 Hz
2029-03-16	Friday	03:00	149°	+46°	0 dB	0°	149°	+46°	215°	+7°	3.5dB	SUN!	406316 +107 Hz
2029-03-16	Friday	03:30	159°	+49°	0 dB	0°	159°	+49°	223°	+7°	3.5dB	SUN!	406327 +69 Hz
2029-03-16	Friday	04:00	170°	+50°	0 dB	0°	170°	+50°	230°	+7°	3.5dB	SUN!	406338 +31 Hz
2029-03-16	Friday	04:30	182°	+51°	0 dB	0°	182°	+51°	237°	+7°	3.5dB	253°K	406348 -8 Hz
2029-03-16	Friday	05:00	193°	+50°	0 dB	0°	193°	+50°	245°	+7°	3.6dB	254°K	406358 -47 Hz
2029-03-16	Friday	05:30	204°	+48°	0 dB	0°	204°	+48°	252°	+7°	3.6dB	254°K	406368 -85 Hz
2029-03-16	Friday	06:00	214°	+46°	0 dB	0°	214°	+46°	259°	+8°	3.6dB	255°K	406378 -122 Hz
2029-03-16	Friday	06:30	224°	+43°	0 dB	0°	224°	+43°	266°	+8°	3.6dB	255°K	406387 -156 Hz
2029-03-16	Friday	07:00	232°	+39°	0 dB	0°	232°	+39°	274°	+8°	3.6dB	256°K	406396 -188 Hz
2029-03-16	Friday	07:30	240°	+35°	0 dB	0°	240°	+35°	281°	+8°	3.6dB	256°K	406405 -216 Hz
2029-03-16	Friday	08:00	246°	+31°	0 dB	0°	246°	+31°	288°	+8°	3.6dB	257°K	406413 -241 Hz
2029-03-16	Friday	08:30	253°	+26°	0 dB	0°	253°	+26°	296°	+8°	3.6dB	257°K	406421 -262 Hz
2029-03-16	Friday	09:00	259°	+21°	0 dB	0°	259°	+21°	303°	+8°	3.6dB	258°K	406429 -278 Hz
2029-03-16	Friday	09:30	264°	+16°	0 dB	0°	264°	+16°	310°	+8°	3.6dB	258°K	406436 -289 Hz
2029-03-16	Friday	10:00	270°	+11°	0 dB	0°	270°	+11°	317°	+8°	3.6dB	259°K	406443 -296 Hz
2029-03-16	Friday	10:30	275°	+6°	0 dB	0°	275°	+6°	325°	+8°	3.6dB	259°K	406450 -298 Hz
2029-03-16	Friday	11:00	280°	+1°	0 dB	0°	280°	+1°	332°	+9°	3.6dB	260°K	406457 -295 Hz
2029-03-16	Friday	22:30	078°	+3°	0 dB	0°	078°	+3°	140°	+11°	3.8dB	272°K	406523 +298 Hz
2029-03-16	Friday	23:00	083°	+8°	0 dB	0°	083°	+8°	147°	+11°	3.8dB	273°K	406522 +301 Hz
2029-03-16	Friday	23:30	088°	+13°	0 dB	0°	088°	+13°	154°	+11°	3.8dB	273°K	406521 +299 Hz
2029-03-17	Saturday	00:00	093°	+18°	0 dB	0°	093°	+18°	162°	+11°	3.8dB	274°K	406519 +292 Hz
2029-03-17	Saturday	00:30	099°	+23°	0 dB	0°	099°	+23°	169°	+11°	3.8dB	274°K	406517 +281 Hz
2029-03-17	Saturday	01:00	105°	+28°	0 dB	0°	105°	+28°	176°	+11°	3.8dB	275°K	406515 +265 Hz
2029-03-17	Saturday	01:30	111°	+33°	0 dB	0°	111°	+33°	183°	+11°	3.8dB	275°K	406513 +244 Hz
2029-03-17	Saturday	02:00	117°	+38°	0 dB	0°	117°	+38°	191°	+11°	3.9dB	276°K	406510 +220 Hz
2029-03-17	Saturday	02:30	125°	+42°	0 dB	0°	125°	+42°	198°	+12°	3.9dB	277°K	406507 +192 Hz
2029-03-17	Saturday	03:00	133°	+46°	0 dB	0°	133°	+46°	205°	+12°	3.9dB	277°K	406503 +160 Hz
2029-03-17	Saturday	03:30	143°	+50°	0 dB	0°	143°	+50°	213°	+12°	3.9dB	278°K	406499 +126 Hz
2029-03-17	Saturday	04:00	153°	+52°	0 dB	0°	153°	+52°	220°	+12°	3.9dB	278°K	406495 +90 Hz
2029-03-17	Saturday	04:30	165°	+54°	0 dB	0°	165°	+54°	227°	+12°	3.9dB	279°K	406491 +53 Hz
2029-03-17	Saturday	05:00	177°	+55°	0 dB	0°	177°	+55°	234°	+12°	3.9dB	279°K	406486 +14 Hz
2029-03-17	Saturday	05:30	190°	+55°	0 dB	0°	190°	+55°	242°	+12°	3.9dB	280°K	406481 -24 Hz
2029-03-17	Saturday	06:00	202°	+54°	0 dB	0°	202°	+54°	249°	+12°	3.9dB	280°K	406475 -62 Hz
2029-03-17	Saturday	06:30	213°	+51°	0 dB	0°	213°	+51°	256°	+12°	3.9dB	281°K	406470 -99 Hz
2029-03-17	Saturday	07:00	224°	+48°	0 dB	0°	224°	+48°	264°	+12°	3.9dB	281°K	406464 -134 Hz
2029-03-17	Saturday	07:30	232°	+45°	0 dB	0°	232°	+45°	271°	+12°	3.9dB	282°K	406457 -166 Hz
2029-03-17	Saturday	08:00	240°	+40°	0 dB	0°	240°	+40°	278°	+13°	3.9dB	282°K	406450 -196 Hz
2029-03-17	Saturday	08:30	248°	+36°	0 dB	0°	248°	+36°	285°	+13°	3.9dB	283°K	406443 -221 Hz
2029-03-17	Saturday	09:00	254°	+31°	0 dB	0°	254°	+31°	293°	+13°	4.0dB	284°K	406436 -243 Hz
2029-03-17	Saturday	09:30	260°	+26°	0 dB	0°	260°	+26°	300°	+13°	4.0dB	284°K	406428 -261 Hz
2029-03-17	Saturday	10:00	266°	+21°	0 dB	0°	266°	+21°	307°	+13°	4.0dB	285°K	406420 -274 Hz
2029-03-17	Saturday	10:30	271°	+16°	0 dB	0°	271°	+16°	315°	+13°	4.0dB	285°K	406411 -282 Hz
2029-03-17	Saturday	11:00	276°	+11°	0 dB	0°	276°	+11°	322°	+13°	4.0dB	286°K	406402 -285 Hz
2029-03-17	Saturday	11:30	281°	+6°	0 dB	0°	281°	+6°	329°	+13°	4.0dB	286°K	406393 -284 Hz
2029-03-17	Saturday	12:00	287°	+2°	0 dB	0°	287°	+2°	336°	+13°	4.0dB	287°K	406384 -278 Hz
2029-03-17	Saturday	23:00	073°	+4°	0 dB	0°	073°	+4°	137°	+15°	4.1dB	297°K	406087 +299 Hz
2029-03-17	Saturday	23:30	078°	+9°	0 dB	0°	078°	+9°	144°	+15°	4.1dB	297°K	406070 +304 Hz
2029-03-18	Sunday	00:00	083°	+14°	0 dB	0°	083°	+14°	151°	+15°	4.1dB	298°K	406052 +304 Hz
2029-03-18	Sunday	00:30	088°	+19°	0 dB	0°	088°	+19°	159°	+15°	4.1dB	298°K	406033 +299 Hz
2029-03-18	Sunday	01:00	093°	+24°	0 dB	0°	093°	+24°	166°	+15°	4.1dB	298°K	406015 +290 Hz
2029-03-18	Sunday	01:30	099°	+29°	0 dB	0°	099°	+29°	173°	+16°	4.1dB	299°K	405996 +276 Hz
2029-03-18	Sunday	02:00	104°	+34°	0 dB	0°	104°	+34°	180°	+16°	4.1dB	299°K	405976 +258 Hz
2029-03-18	Sunday	02:30	111°	+39°	0 dB	0°	111°	+39°	188°	+16°	4.1dB	299°K	405957 +235 Hz
2029-03-18	Sunday	03:00	118°	+44°	0 dB	0°	118°	+44°	195°	+16°	4.1dB	299°K	405936 +209 Hz
2029-03-18	Sunday	03:30	126°	+48°	0 dB	0°	126°	+48°	202°	+16°	4.1dB	300°K	405916 +180 Hz
2029-03-18	Sunday	04:00	135°	+52°	0 dB	0°	135°	+52°	210°	+16°	4.1dB	300°K	405895 +147 Hz
2029-03-18	Sunday	04:30	146°	+55°	0 dB	0°	146°	+55°	217°	+16°	4.1dB	300°K	405874 +113 Hz
2029-03-18	Sunday	05:00	158°	+58°	0 dB	0°	158°	+58°	224°	+16°	4.1dB	301°K	405852 +76 Hz
2029-03-18	Sunday	05:30	171°	+59°	0 dB	0°	171°	+59°	231°	+16°	4.1dB	301°K	405830 +39 Hz
2029-03-18	Sunday	06:00	185°	+60°	0 dB	0°	185°	+60°	239°	+16°	4.1dB	301°K	405808 +1 Hz
2029-03-18	Sunday	06:30	199°	+59°	0 dB	0°	199°	+59°	246°	+16°	4.1dB	301°K	405785 -36 Hz
2029-03-18	Sunday	07:00	211°	+57°	0 dB	0°	211°	+57°	253°	+16°	4.1dB	302°K	405762 -73 Hz
2029-03-18	Sunday	07:30	222°	+54°	0 dB	0°	222°	+54°	260°	+17°	4.1dB	302°K	405739 -108 Hz
2029-03-18	Sunday	08:00	232°	+50°	0 dB	0°	232°	+50°	268°	+17°	4.1dB	302°K	405715 -141 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-18	Sunday	08:30	241°	+46°	0 dB	0°	241°	+46°	275°	+17°	4.1dB	302°K	405691 -171 Hz
2029-03-18	Sunday	09:00	248°	+41°	0 dB	0°	248°	+41°	282°	+17°	4.2dB	303°K	405666 -198 Hz
2029-03-18	Sunday	09:30	255°	+36°	0 dB	0°	255°	+36°	290°	+17°	4.2dB	303°K	405642 -221 Hz
2029-03-18	Sunday	10:00	261°	+31°	0 dB	0°	261°	+31°	297°	+17°	4.2dB	303°K	405616 -240 Hz
2029-03-18	Sunday	10:30	266°	+26°	0 dB	0°	266°	+26°	304°	+17°	4.2dB	304°K	405591 -254 Hz
2029-03-18	Sunday	11:00	272°	+21°	0 dB	0°	272°	+21°	311°	+17°	4.2dB	304°K	405565 -265 Hz
2029-03-18	Sunday	11:30	277°	+16°	0 dB	0°	277°	+16°	319°	+17°	4.2dB	305°K	405538 -270 Hz
2029-03-18	Sunday	12:00	282°	+12°	0 dB	0°	282°	+12°	326°	+17°	4.2dB	306°K	405511 -271 Hz
2029-03-18	Sunday	12:30	287°	+7°	0 dB	0°	287°	+7°	333°	+17°	4.2dB	308°K	405484 -267 Hz
2029-03-18	Sunday	13:00	292°	+2°	0 dB	0°	292°	+2°	340°	+17°	4.2dB	309°K	405456 -259 Hz
2029-03-18	Sunday	23:00	063°	-0°	0 dB	0°	063°	-0°	126°	+19°	4.5dB	338°K	404824 +288 Hz
2029-03-18	Sunday	23:30	068°	+4°	0 dB	0°	068°	+4°	133°	+19°	4.5dB	339°K	404788 +299 Hz
2029-03-19	Monday	00:00	073°	+9°	0 dB	0°	073°	+9°	140°	+19°	4.5dB	341°K	404752 +306 Hz
2029-03-19	Monday	00:30	078°	+14°	0 dB	0°	078°	+14°	148°	+19°	4.6dB	342°K	404716 +308 Hz
2029-03-19	Monday	01:00	083°	+19°	0 dB	0°	083°	+19°	155°	+19°	4.6dB	344°K	404679 +306 Hz
2029-03-19	Monday	01:30	088°	+24°	0 dB	0°	088°	+24°	162°	+19°	4.6dB	345°K	404641 +299 Hz
2029-03-19	Monday	02:00	093°	+29°	0 dB	0°	093°	+29°	170°	+19°	4.6dB	347°K	404604 +288 Hz
2029-03-19	Monday	02:30	098°	+34°	0 dB	0°	098°	+34°	177°	+19°	4.6dB	348°K	404565 +272 Hz
2029-03-19	Monday	03:00	104°	+39°	0 dB	0°	104°	+39°	184°	+19°	4.6dB	349°K	404527 +252 Hz
2029-03-19	Monday	03:30	111°	+44°	0 dB	0°	111°	+44°	191°	+19°	4.6dB	349°K	404488 +228 Hz
2029-03-19	Monday	04:00	118°	+49°	0 dB	0°	118°	+49°	199°	+20°	4.6dB	350°K	404449 +201 Hz
2029-03-19	Monday	04:30	127°	+53°	0 dB	0°	127°	+53°	206°	+20°	4.6dB	351°K	404409 +170 Hz
2029-03-19	Monday	05:00	137°	+57°	0 dB	0°	137°	+57°	213°	+20°	4.6dB	352°K	404369 +137 Hz
2029-03-19	Monday	05:30	149°	+60°	0 dB	0°	149°	+60°	220°	+20°	4.6dB	352°K	404328 +103 Hz
2029-03-19	Monday	06:00	163°	+62°	0 dB	0°	163°	+62°	228°	+20°	4.7dB	353°K	404287 +66 Hz
2029-03-19	Monday	06:30	178°	+63°	0 dB	0°	178°	+63°	235°	+20°	4.7dB	354°K	404246 +30 Hz
2029-03-19	Monday	07:00	193°	+63°	0 dB	0°	193°	+63°	242°	+20°	4.7dB	354°K	404204 -7 Hz
2029-03-19	Monday	07:30	207°	+61°	0 dB	0°	207°	+61°	249°	+20°	4.7dB	355°K	404162 -44 Hz
2029-03-19	Monday	08:00	220°	+58°	0 dB	0°	220°	+58°	257°	+20°	4.7dB	356°K	404119 -79 Hz
2029-03-19	Monday	08:30	231°	+55°	0 dB	0°	231°	+55°	264°	+20°	4.7dB	357°K	404076 -112 Hz
2029-03-19	Monday	09:00	240°	+51°	0 dB	0°	240°	+51°	271°	+20°	4.7dB	357°K	404033 -143 Hz
2029-03-19	Monday	09:30	248°	+46°	0 dB	0°	248°	+46°	279°	+20°	4.7dB	358°K	403989 -171 Hz
2029-03-19	Monday	10:00	255°	+41°	0 dB	0°	255°	+41°	286°	+20°	4.7dB	359°K	403945 -195 Hz
2029-03-19	Monday	10:30	261°	+36°	0 dB	0°	261°	+36°	293°	+20°	4.7dB	360°K	403900 -216 Hz
2029-03-19	Monday	11:00	267°	+31°	0 dB	0°	267°	+31°	300°	+20°	4.7dB	360°K	403855 -232 Hz
2029-03-19	Monday	11:30	272°	+26°	0 dB	0°	272°	+26°	308°	+21°	4.7dB	361°K	403810 -245 Hz
2029-03-19	Monday	12:00	277°	+21°	0 dB	0°	277°	+21°	315°	+21°	4.7dB	362°K	403764 -252 Hz
2029-03-19	Monday	12:30	282°	+17°	0 dB	0°	282°	+17°	322°	+21°	4.7dB	363°K	403718 -256 Hz
2029-03-19	Monday	13:00	287°	+12°	0 dB	0°	287°	+12°	329°	+21°	4.7dB	363°K	403671 -254 Hz
2029-03-19	Monday	13:30	292°	+7°	0 dB	0°	292°	+7°	337°	+21°	4.7dB	364°K	403624 -248 Hz
2029-03-19	Monday	14:00	297°	+2°	0 dB	0°	297°	+2°	344°	+21°	4.8dB	365°K	403577 -238 Hz
2029-03-20	Tuesday	00:00	063°	+4°	0 dB	0°	063°	+4°	129°	+22°	4.6dB	358°K	402540 +298 Hz
2029-03-20	Tuesday	00:30	068°	+8°	0 dB	0°	068°	+8°	136°	+22°	4.6dB	358°K	402483 +307 Hz
2029-03-20	Tuesday	01:00	073°	+13°	0 dB	0°	073°	+13°	144°	+22°	4.6dB	357°K	402427 +312 Hz
2029-03-20	Tuesday	01:30	078°	+18°	0 dB	0°	078°	+18°	151°	+22°	4.6dB	356°K	402370 +312 Hz
2029-03-20	Tuesday	02:00	082°	+23°	0 dB	0°	082°	+23°	158°	+22°	4.6dB	355°K	402312 +308 Hz
2029-03-20	Tuesday	02:30	087°	+28°	0 dB	0°	087°	+28°	165°	+22°	4.6dB	355°K	402254 +300 Hz
2029-03-20	Tuesday	03:00	093°	+33°	0 dB	0°	093°	+33°	173°	+22°	4.6dB	354°K	402196 +287 Hz
2029-03-20	Tuesday	03:30	098°	+38°	0 dB	0°	098°	+38°	180°	+22°	4.6dB	353°K	402137 +269 Hz
2029-03-20	Tuesday	04:00	104°	+43°	0 dB	0°	104°	+43°	187°	+22°	4.6dB	352°K	402078 +248 Hz
2029-03-20	Tuesday	04:30	111°	+48°	0 dB	0°	111°	+48°	194°	+22°	4.5dB	352°K	402018 +223 Hz
2029-03-20	Tuesday	05:00	119°	+53°	0 dB	0°	119°	+53°	202°	+22°	4.5dB	351°K	401958 +195 Hz
2029-03-20	Tuesday	05:30	128°	+57°	0 dB	0°	128°	+57°	209°	+22°	4.5dB	350°K	401898 +165 Hz
2029-03-20	Tuesday	06:00	139°	+61°	0 dB	0°	139°	+61°	216°	+22°	4.5dB	349°K	401837 +132 Hz
2029-03-20	Tuesday	06:30	152°	+64°	0 dB	0°	152°	+64°	223°	+23°	4.5dB	349°K	401775 +97 Hz
2029-03-20	Tuesday	07:00	168°	+66°	0 dB	0°	168°	+66°	231°	+23°	4.5dB	348°K	401714 +61 Hz
2029-03-20	Tuesday	07:30	184°	+66°	0 dB	0°	184°	+66°	238°	+23°	4.5dB	348°K	401651 +25 Hz
2029-03-20	Tuesday	08:00	201°	+65°	0 dB	0°	201°	+65°	245°	+23°	4.5dB	349°K	401589 -11 Hz
2029-03-20	Tuesday	08:30	215°	+63°	0 dB	0°	215°	+63°	252°	+23°	4.5dB	350°K	401526 -46 Hz
2029-03-20	Tuesday	09:00	227°	+59°	0 dB	0°	227°	+59°	260°	+23°	4.5dB	350°K	401462 -80 Hz
2029-03-20	Tuesday	09:30	237°	+55°	0 dB	0°	237°	+55°	267°	+23°	4.5dB	351°K	401398 -112 Hz
2029-03-20	Tuesday	10:00	246°	+51°	0 dB	0°	246°	+51°	274°	+23°	4.5dB	352°K	401334 -141 Hz
2029-03-20	Tuesday	10:30	253°	+46°	0 dB	0°	253°	+46°	281°	+23°	4.5dB	353°K	401269 -167 Hz
2029-03-20	Tuesday	11:00	260°	+41°	0 dB	0°	260°	+41°	289°	+23°	4.5dB	353°K	401204 -189 Hz
2029-03-20	Tuesday	11:30	265°	+36°	0 dB	0°	265°	+36°	296°	+23°	4.5dB	354°K	401139 -208 Hz
2029-03-20	Tuesday	12:00	271°	+31°	0 dB	0°	271°	+31°	303°	+23°	4.5dB	355°K	401073 -223 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-20	Tuesday 12:30	276°	+26°	0 dB	0°	276°	+26°	310°	+23°	4.5dB	356°K	401006	-233 Hz
2029-03-20	Tuesday 13:00	281°	+21°	0 dB	0°	281°	+21°	318°	+23°	4.6dB	357°K	400939	-239 Hz
2029-03-20	Tuesday 13:30	286°	+16°	0 dB	0°	286°	+16°	325°	+23°	4.6dB	357°K	400872	-240 Hz
2029-03-20	Tuesday 14:00	291°	+12°	0 dB	0°	291°	+12°	332°	+23°	4.6dB	358°K	400804	-237 Hz
2029-03-20	Tuesday 14:30	296°	+7°	0 dB	0°	296°	+7°	339°	+23°	4.6dB	359°K	400736	-230 Hz
2029-03-20	Tuesday 15:00	301°	+3°	0 dB	0°	301°	+3°	347°	+23°	4.6dB	360°K	400668	-219 Hz
2029-03-21	wednesday00:30	058°	+2°	0 dB	0°	058°	+2°	124°	+24°	4.7dB	377°K	399284	+296 Hz
2029-03-21	wednesday01:00	063°	+7°	0 dB	0°	063°	+7°	132°	+24°	4.7dB	378°K	399207	+308 Hz
2029-03-21	wednesday01:30	068°	+11°	0 dB	0°	068°	+11°	139°	+24°	4.7dB	379°K	399130	+316 Hz
2029-03-21	wednesday02:00	073°	+16°	0 dB	0°	073°	+16°	146°	+24°	4.7dB	380°K	399052	+319 Hz
2029-03-21	wednesday02:30	078°	+21°	0 dB	0°	078°	+21°	153°	+24°	4.7dB	381°K	398974	+318 Hz
2029-03-21	wednesday03:00	083°	+26°	0 dB	0°	083°	+26°	161°	+24°	4.7dB	383°K	398895	+312 Hz
2029-03-21	wednesday03:30	087°	+31°	0 dB	0°	087°	+31°	168°	+24°	4.7dB	384°K	398816	+302 Hz
2029-03-21	wednesday04:00	093°	+36°	0 dB	0°	093°	+36°	175°	+24°	4.7dB	385°K	398736	+288 Hz
2029-03-21	wednesday04:30	098°	+41°	0 dB	0°	098°	+41°	182°	+24°	4.7dB	386°K	398656	+270 Hz
2029-03-21	wednesday05:00	104°	+46°	0 dB	0°	104°	+46°	190°	+24°	4.8dB	387°K	398576	+248 Hz
2029-03-21	wednesday05:30	111°	+51°	0 dB	0°	111°	+51°	197°	+24°	4.8dB	388°K	398495	+222 Hz
2029-03-21	wednesday06:00	120°	+56°	0 dB	0°	120°	+56°	204°	+24°	4.8dB	389°K	398414	+194 Hz
2029-03-21	wednesday06:30	129°	+60°	0 dB	0°	129°	+60°	211°	+24°	4.8dB	390°K	398332	+163 Hz
2029-03-21	wednesday07:00	141°	+64°	0 dB	0°	141°	+64°	219°	+24°	4.8dB	392°K	398250	+130 Hz
2029-03-21	wednesday07:30	156°	+66°	0 dB	0°	156°	+66°	226°	+24°	4.8dB	393°K	398167	+95 Hz
2029-03-21	wednesday08:00	173°	+68°	0 dB	0°	173°	+68°	233°	+24°	4.8dB	394°K	398084	+60 Hz
2029-03-21	wednesday08:30	190°	+68°	0 dB	0°	190°	+68°	240°	+24°	4.8dB	395°K	398001	+24 Hz
2029-03-21	wednesday09:00	207°	+66°	0 dB	0°	207°	+66°	248°	+24°	4.8dB	396°K	397917	-11 Hz
2029-03-21	wednesday09:30	221°	+63°	0 dB	0°	221°	+63°	255°	+24°	4.8dB	397°K	397833	-46 Hz
2029-03-21	wednesday10:00	233°	+59°	0 dB	0°	233°	+59°	262°	+24°	4.8dB	398°K	397748	-78 Hz
2029-03-21	wednesday10:30	242°	+55°	0 dB	0°	242°	+55°	269°	+24°	4.8dB	399°K	397663	-109 Hz
2029-03-21	wednesday11:00	250°	+50°	0 dB	0°	250°	+50°	277°	+24°	4.8dB	401°K	397578	-137 Hz
2029-03-21	wednesday11:30	257°	+46°	0 dB	0°	257°	+46°	284°	+24°	4.8dB	402°K	397492	-161 Hz
2029-03-21	wednesday12:00	263°	+41°	0 dB	0°	263°	+41°	291°	+24°	4.9dB	403°K	397406	-182 Hz
2029-03-21	wednesday12:30	269°	+36°	0 dB	0°	269°	+36°	298°	+24°	4.9dB	405°K	397319	-200 Hz
2029-03-21	wednesday13:00	274°	+31°	0 dB	0°	274°	+31°	305°	+24°	4.9dB	406°K	397232	-213 Hz
2029-03-21	wednesday13:30	279°	+26°	0 dB	0°	279°	+26°	313°	+25°	4.9dB	407°K	397145	-222 Hz
2029-03-21	wednesday14:00	284°	+21°	0 dB	0°	284°	+21°	320°	+25°	4.9dB	409°K	397057	-226 Hz
2029-03-21	wednesday14:30	288°	+16°	0 dB	0°	288°	+16°	327°	+25°	4.9dB	410°K	396968	-227 Hz
2029-03-21	wednesday15:00	293°	+11°	0 dB	0°	293°	+11°	334°	+25°	4.9dB	411°K	396880	-222 Hz
2029-03-21	wednesday15:30	298°	+7°	0 dB	0°	298°	+7°	342°	+25°	4.9dB	412°K	396791	-214 Hz
2029-03-21	wednesday16:00	303°	+2°	0 dB	0°	303°	+2°	349°	+25°	4.9dB	414°K	396701	-202 Hz
2029-03-22	Thursday 01:00	054°	+0°	0 dB	0°	054°	+0°	119°	+25°	5.1dB	440°K	395021	+293 Hz
2029-03-22	Thursday 01:30	059°	+4°	0 dB	0°	059°	+4°	126°	+25°	5.1dB	442°K	394924	+308 Hz
2029-03-22	Thursday 02:00	064°	+9°	0 dB	0°	064°	+9°	134°	+25°	5.1dB	445°K	394826	+318 Hz
2029-03-22	Thursday 02:30	069°	+13°	0 dB	0°	069°	+13°	141°	+25°	5.1dB	447°K	394728	+325 Hz
2029-03-22	Thursday 03:00	074°	+18°	0 dB	0°	074°	+18°	148°	+25°	5.2dB	450°K	394630	+327 Hz
2029-03-22	Thursday 03:30	078°	+23°	0 dB	0°	078°	+23°	155°	+25°	5.2dB	452°K	394531	+325 Hz
2029-03-22	Thursday 04:00	083°	+28°	0 dB	0°	083°	+28°	163°	+25°	5.2dB	455°K	394432	+318 Hz
2029-03-22	Thursday 04:30	088°	+33°	0 dB	0°	088°	+33°	170°	+25°	5.2dB	457°K	394333	+307 Hz
2029-03-22	Thursday 05:00	094°	+38°	0 dB	0°	094°	+38°	177°	+25°	5.2dB	460°K	394233	+292 Hz
2029-03-22	Thursday 05:30	099°	+43°	0 dB	0°	099°	+43°	184°	+25°	5.2dB	462°K	394133	+273 Hz
2029-03-22	Thursday 06:00	106°	+48°	0 dB	0°	106°	+48°	192°	+25°	5.3dB	465°K	394032	+250 Hz
2029-03-22	Thursday 06:30	113°	+53°	0 dB	0°	113°	+53°	199°	+25°	5.3dB	467°K	393932	+224 Hz
2029-03-22	Thursday 07:00	121°	+57°	0 dB	0°	121°	+57°	206°	+25°	5.3dB	470°K	393830	+195 Hz
2029-03-22	Thursday 07:30	132°	+61°	0 dB	0°	132°	+61°	213°	+25°	5.3dB	472°K	393729	+164 Hz
2029-03-22	Thursday 08:00	144°	+65°	0 dB	0°	144°	+65°	220°	+25°	5.3dB	475°K	393626	+130 Hz
2029-03-22	Thursday 08:30	160°	+67°	0 dB	0°	160°	+67°	228°	+25°	5.3dB	477°K	393524	+96 Hz
2029-03-22	Thursday 09:00	177°	+68°	0 dB	0°	177°	+68°	235°	+25°	5.3dB	480°K	393421	+60 Hz
2029-03-22	Thursday 09:30	195°	+68°	0 dB	0°	195°	+68°	242°	+25°	5.4dB	482°K	393318	+25 Hz
2029-03-22	Thursday 10:00	211°	+66°	0 dB	0°	211°	+66°	249°	+25°	5.4dB	485°K	393214	-10 Hz
2029-03-22	Thursday 10:30	225°	+63°	0 dB	0°	225°	+63°	257°	+25°	5.4dB	487°K	393111	-44 Hz
2029-03-22	Thursday 11:00	236°	+59°	0 dB	0°	236°	+59°	264°	+25°	5.4dB	490°K	393006	-76 Hz
2029-03-22	Thursday 11:30	245°	+54°	0 dB	0°	245°	+54°	271°	+25°	5.4dB	492°K	392902	-106 Hz
2029-03-22	Thursday 12:00	252°	+49°	0 dB	0°	252°	+49°	278°	+25°	5.4dB	495°K	392797	-133 Hz
2029-03-22	Thursday 12:30	259°	+45°	0 dB	0°	259°	+45°	286°	+25°	5.5dB	497°K	392691	-157 Hz
2029-03-22	Thursday 13:00	265°	+40°	0 dB	0°	265°	+40°	293°	+25°	5.5dB	500°K	392586	-177 Hz
2029-03-22	Thursday 13:30	270°	+34°	0 dB	0°	270°	+34°	300°	+25°	5.5dB	500°K	392480	-193 Hz
2029-03-22	Thursday 14:00	275°	+29°	0 dB	0°	275°	+29°	307°	+25°	5.5dB	500°K	392373	-206 Hz
2029-03-22	Thursday 14:30	280°	+24°	0 dB	0°	280°	+24°	315°	+25°	5.5dB	500°K	392266	-214 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-22	Thursday	15:00	285°	+20°	0 dB	0°	285°	+20°	322°	+25°	5.5dB	500°K	392159	-217 Hz
2029-03-22	Thursday	15:30	290°	+15°	0 dB	0°	290°	+15°	329°	+25°	5.4dB	500°K	392052	-216 Hz
2029-03-22	Thursday	16:00	294°	+10°	0 dB	0°	294°	+10°	336°	+25°	5.4dB	500°K	391944	-211 Hz
2029-03-22	Thursday	16:30	299°	+6°	0 dB	0°	299°	+6°	343°	+25°	5.4dB	500°K	391836	-202 Hz
2029-03-22	Thursday	17:00	304°	+1°	0 dB	0°	304°	+1°	351°	+25°	5.4dB	500°K	391727	-189 Hz
2029-03-23	Friday	02:00	056°	+1°	0 dB	0°	056°	+1°	121°	+24°	5.3dB	500°K	389716	+306 Hz
2029-03-23	Friday	02:30	061°	+5°	0 dB	0°	061°	+5°	128°	+24°	5.3dB	496°K	389602	+319 Hz
2029-03-23	Friday	03:00	066°	+9°	0 dB	0°	066°	+9°	135°	+24°	5.3dB	493°K	389487	+329 Hz
2029-03-23	Friday	03:30	070°	+14°	0 dB	0°	070°	+14°	143°	+24°	5.2dB	490°K	389371	+335 Hz
2029-03-23	Friday	04:00	075°	+19°	0 dB	0°	075°	+19°	150°	+24°	5.2dB	486°K	389256	+336 Hz
2029-03-23	Friday	04:30	080°	+24°	0 dB	0°	080°	+24°	157°	+24°	5.2dB	483°K	389140	+333 Hz
2029-03-23	Friday	05:00	085°	+29°	0 dB	0°	085°	+29°	164°	+24°	5.2dB	480°K	389023	+325 Hz
2029-03-23	Friday	05:30	090°	+34°	0 dB	0°	090°	+34°	171°	+24°	5.1dB	476°K	388907	+313 Hz
2029-03-23	Friday	06:00	095°	+39°	0 dB	0°	095°	+39°	179°	+24°	5.1dB	473°K	388790	+297 Hz
2029-03-23	Friday	06:30	101°	+44°	0 dB	0°	101°	+44°	186°	+24°	5.0dB	469°K	388673	+277 Hz
2029-03-23	Friday	07:00	108°	+49°	0 dB	0°	108°	+49°	193°	+24°	5.0dB	466°K	388555	+254 Hz
2029-03-23	Friday	07:30	115°	+53°	0 dB	0°	115°	+53°	200°	+24°	5.0dB	463°K	388438	+227 Hz
2029-03-23	Friday	08:00	124°	+58°	0 dB	0°	124°	+58°	208°	+24°	4.9dB	459°K	388320	+197 Hz
2029-03-23	Friday	08:30	135°	+62°	0 dB	0°	135°	+62°	215°	+24°	4.9dB	456°K	388201	+165 Hz
2029-03-23	Friday	09:00	148°	+65°	0 dB	0°	148°	+65°	222°	+24°	4.9dB	453°K	388083	+131 Hz
2029-03-23	Friday	09:30	164°	+67°	0 dB	0°	164°	+67°	229°	+24°	4.8dB	449°K	387964	+96 Hz
2029-03-23	Friday	10:00	181°	+67°	0 dB	0°	181°	+67°	237°	+24°	4.8dB	446°K	387845	+60 Hz
2029-03-23	Friday	10:30	198°	+66°	0 dB	0°	198°	+66°	244°	+24°	4.8dB	443°K	387725	+25 Hz
2029-03-23	Friday	11:00	213°	+64°	0 dB	0°	213°	+64°	251°	+24°	4.7dB	439°K	387606	-10 Hz
2029-03-23	Friday	11:30	226°	+61°	0 dB	0°	226°	+61°	258°	+24°	4.7dB	436°K	387486	-44 Hz
2029-03-23	Friday	12:00	237°	+57°	0 dB	0°	237°	+57°	265°	+24°	4.7dB	432°K	387366	-76 Hz
2029-03-23	Friday	12:30	245°	+52°	0 dB	0°	245°	+52°	273°	+24°	4.6dB	429°K	387245	-106 Hz
2029-03-23	Friday	13:00	253°	+48°	0 dB	0°	253°	+48°	280°	+24°	4.6dB	426°K	387125	-132 Hz
2029-03-23	Friday	13:30	259°	+43°	0 dB	0°	259°	+43°	287°	+24°	4.6dB	422°K	387004	-156 Hz
2029-03-23	Friday	14:00	265°	+38°	0 dB	0°	265°	+38°	294°	+24°	4.5dB	419°K	386882	-176 Hz
2029-03-23	Friday	14:30	270°	+33°	0 dB	0°	270°	+33°	302°	+24°	4.5dB	416°K	386761	-191 Hz
2029-03-23	Friday	15:00	275°	+28°	0 dB	0°	275°	+28°	309°	+24°	4.5dB	412°K	386639	-203 Hz
2029-03-23	Friday	15:30	280°	+23°	0 dB	0°	280°	+23°	316°	+23°	4.4dB	411°K	386517	-210 Hz
2029-03-23	Friday	16:00	285°	+18°	0 dB	0°	285°	+18°	323°	+23°	4.4dB	409°K	386395	-213 Hz
2029-03-23	Friday	16:30	290°	+13°	0 dB	0°	290°	+13°	331°	+23°	4.4dB	407°K	386273	-211 Hz
2029-03-23	Friday	17:00	294°	+8°	0 dB	0°	294°	+8°	338°	+23°	4.4dB	406°K	386150	-205 Hz
2029-03-23	Friday	17:30	299°	+4°	0 dB	0°	299°	+4°	345°	+23°	4.4dB	404°K	386027	-195 Hz
2029-03-24	Saturday	03:00	058°	+0°	0 dB	0°	058°	+0°	122°	+22°	3.9dB	372°K	383651	+317 Hz
2029-03-24	Saturday	03:30	063°	+4°	0 dB	0°	063°	+4°	130°	+22°	3.9dB	370°K	383524	+330 Hz
2029-03-24	Saturday	04:00	068°	+9°	0 dB	0°	068°	+9°	137°	+22°	3.9dB	368°K	383397	+339 Hz
2029-03-24	Saturday	04:30	073°	+14°	0 dB	0°	073°	+14°	144°	+22°	3.9dB	366°K	383270	+344 Hz
2029-03-24	Saturday	05:00	078°	+18°	0 dB	0°	078°	+18°	151°	+22°	3.8dB	363°K	383142	+345 Hz
2029-03-24	Saturday	05:30	083°	+23°	0 dB	0°	083°	+23°	158°	+22°	3.8dB	361°K	383015	+341 Hz
2029-03-24	Saturday	06:00	088°	+28°	0 dB	0°	088°	+28°	166°	+22°	3.8dB	358°K	382887	+332 Hz
2029-03-24	Saturday	06:30	093°	+33°	0 dB	0°	093°	+33°	173°	+22°	3.7dB	356°K	382759	+319 Hz
2029-03-24	Saturday	07:00	099°	+38°	0 dB	0°	099°	+38°	180°	+22°	3.7dB	353°K	382631	+302 Hz
2029-03-24	Saturday	07:30	105°	+43°	0 dB	0°	105°	+43°	187°	+22°	3.7dB	351°K	382503	+281 Hz
2029-03-24	Saturday	08:00	112°	+48°	0 dB	0°	112°	+48°	195°	+22°	3.6dB	348°K	382375	+256 Hz
2029-03-24	Saturday	08:30	120°	+53°	0 dB	0°	120°	+53°	202°	+22°	3.6dB	345°K	382246	+228 Hz
2029-03-24	Saturday	09:00	129°	+57°	0 dB	0°	129°	+57°	209°	+22°	3.6dB	343°K	382117	+198 Hz
2029-03-24	Saturday	09:30	140°	+60°	0 dB	0°	140°	+60°	216°	+22°	3.5dB	340°K	381989	+165 Hz
2029-03-24	Saturday	10:00	153°	+63°	0 dB	0°	153°	+63°	224°	+22°	3.5dB	338°K	381860	+130 Hz
2029-03-24	Saturday	10:30	168°	+65°	0 dB	0°	168°	+65°	231°	+22°	3.5dB	335°K	381731	+94 Hz
2029-03-24	Saturday	11:00	184°	+65°	0 dB	0°	184°	+65°	238°	+22°	3.4dB	333°K	381602	+57 Hz
2029-03-24	Saturday	11:30	200°	+64°	0 dB	0°	200°	+64°	245°	+22°	3.4dB	330°K	381472	+21 Hz
2029-03-24	Saturday	12:00	214°	+61°	0 dB	0°	214°	+61°	252°	+21°	3.4dB	328°K	381343	-14 Hz
2029-03-24	Saturday	12:30	226°	+58°	0 dB	0°	226°	+58°	260°	+21°	3.3dB	325°K	381213	-49 Hz
2029-03-24	Saturday	13:00	236°	+54°	0 dB	0°	236°	+54°	267°	+21°	3.3dB	323°K	381084	-81 Hz
2029-03-24	Saturday	13:30	244°	+50°	0 dB	0°	244°	+50°	274°	+21°	3.3dB	320°K	380954	-110 Hz
2029-03-24	Saturday	14:00	251°	+45°	0 dB	0°	251°	+45°	281°	+21°	3.2dB	318°K	380824	-137 Hz
2029-03-24	Saturday	14:30	258°	+40°	0 dB	0°	258°	+40°	289°	+21°	3.2dB	315°K	380695	-160 Hz
2029-03-24	Saturday	15:00	264°	+35°	0 dB	0°	264°	+35°	296°	+21°	3.2dB	313°K	380565	-180 Hz
2029-03-24	Saturday	15:30	269°	+30°	0 dB	0°	269°	+30°	303°	+21°	3.1dB	310°K	380435	-195 Hz
2029-03-24	Saturday	16:00	274°	+25°	0 dB	0°	274°	+25°	310°	+21°	3.1dB	308°K	380304	-206 Hz
2029-03-24	Saturday	16:30	279°	+20°	0 dB	0°	279°	+20°	318°	+21°	3.1dB	305°K	380174	-213 Hz
2029-03-24	Saturday	17:00	284°	+15°	0 dB	0°	284°	+15°	325°	+21°	3.0dB	302°K	380044	-215 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-24	Saturday	17:30	289°	+10°	0 dB	0°	289°	+10°	332°	+21°	3.0dB	299°K	379913 -212 Hz
2029-03-24	Saturday	18:00	294°	+5°	0 dB	0°	294°	+5°	339°	+21°	2.9dB	296°K	379783 -206 Hz
2029-03-24	Saturday	18:30	299°	+1°	0 dB	0°	299°	+1°	346°	+21°	2.9dB	293°K	379653 -195 Hz
2029-03-25	Sunday	04:30	066°	+3°	0 dB	0°	066°	+3°	131°	+19°	2.0dB	233°K	377035 +339 Hz
2029-03-25	Sunday	05:00	071°	+8°	0 dB	0°	071°	+8°	138°	+19°	1.9dB	230°K	376904 +347 Hz
2029-03-25	Sunday	05:30	076°	+12°	0 dB	0°	076°	+12°	146°	+19°	1.9dB	227°K	376774 +351 Hz
2029-03-25	Sunday	06:00	081°	+17°	0 dB	0°	081°	+17°	153°	+19°	1.8dB	225°K	376643 +350 Hz
2029-03-25	Sunday	06:30	086°	+22°	0 dB	0°	086°	+22°	160°	+19°	1.8dB	224°K	376512 +345 Hz
2029-03-25	Sunday	07:00	092°	+27°	0 dB	0°	092°	+27°	167°	+19°	1.8dB	223°K	376381 +336 Hz
2029-03-25	Sunday	07:30	097°	+32°	0 dB	0°	097°	+32°	174°	+19°	1.8dB	222°K	376250 +322 Hz
2029-03-25	Sunday	08:00	103°	+37°	0 dB	0°	103°	+37°	182°	+19°	1.7dB	221°K	376120 +303 Hz
2029-03-25	Sunday	08:30	110°	+42°	0 dB	0°	110°	+42°	189°	+19°	1.7dB	220°K	375989 +281 Hz
2029-03-25	Sunday	09:00	117°	+46°	0 dB	0°	117°	+46°	196°	+18°	1.7dB	219°K	375859 +255 Hz
2029-03-25	Sunday	09:30	125°	+51°	0 dB	0°	125°	+51°	203°	+18°	1.7dB	218°K	375728 +225 Hz
2029-03-25	Sunday	10:00	135°	+55°	0 dB	0°	135°	+55°	211°	+18°	1.6dB	217°K	375598 +193 Hz
2029-03-25	Sunday	10:30	146°	+58°	0 dB	0°	146°	+58°	218°	+18°	1.6dB	216°K	375467 +159 Hz
2029-03-25	Sunday	11:00	159°	+60°	0 dB	0°	159°	+60°	225°	+18°	1.6dB	215°K	375337 +123 Hz
2029-03-25	Sunday	11:30	173°	+61°	0 dB	0°	173°	+61°	232°	+18°	1.6dB	214°K	375207 +86 Hz
2029-03-25	Sunday	12:00	187°	+61°	0 dB	0°	187°	+61°	240°	+18°	1.6dB	213°K	375077 +49 Hz
2029-03-25	Sunday	12:30	201°	+60°	0 dB	0°	201°	+60°	247°	+18°	1.5dB	212°K	374947 +11 Hz
2029-03-25	Sunday	13:00	214°	+57°	0 dB	0°	214°	+57°	254°	+18°	1.5dB	211°K	374817 -25 Hz
2029-03-25	Sunday	13:30	225°	+54°	0 dB	0°	225°	+54°	261°	+18°	1.5dB	210°K	374687 -59 Hz
2029-03-25	Sunday	14:00	234°	+50°	0 dB	0°	234°	+50°	269°	+18°	1.5dB	209°K	374557 -92 Hz
2029-03-25	Sunday	14:30	242°	+46°	0 dB	0°	242°	+46°	276°	+17°	1.4dB	208°K	374428 -122 Hz
2029-03-25	Sunday	15:00	249°	+41°	0 dB	0°	249°	+41°	283°	+17°	1.4dB	207°K	374298 -149 Hz
2029-03-25	Sunday	15:30	256°	+36°	0 dB	0°	256°	+36°	290°	+17°	1.4dB	206°K	374169 -172 Hz
2029-03-25	Sunday	16:00	262°	+31°	0 dB	0°	262°	+31°	297°	+17°	1.4dB	205°K	374039 -191 Hz
2029-03-25	Sunday	16:30	267°	+26°	0 dB	0°	267°	+26°	305°	+17°	1.4dB	204°K	373910 -205 Hz
2029-03-25	Sunday	17:00	272°	+21°	0 dB	0°	272°	+21°	312°	+17°	1.3dB	203°K	373781 -216 Hz
2029-03-25	Sunday	17:30	277°	+16°	0 dB	0°	277°	+16°	319°	+17°	1.3dB	202°K	373652 -222 Hz
2029-03-25	Sunday	18:00	282°	+11°	0 dB	0°	282°	+11°	326°	+17°	1.3dB	201°K	373524 -223 Hz
2029-03-25	Sunday	18:30	287°	+6°	0 dB	0°	287°	+6°	334°	+17°	1.3dB	200°K	373395 -219 Hz
2029-03-25	Sunday	19:00	292°	+1°	0 dB	0°	292°	+1°	341°	+17°	1.2dB	199°K	373266 -212 Hz
2029-03-26	Monday	05:30	070°	+1°	0 dB	0°	070°	+1°	133°	+15°	0.8dB	178°K	370612 +342 Hz
2029-03-26	Monday	06:00	076°	+5°	0 dB	0°	076°	+5°	140°	+15°	0.7dB	177°K	370488 +350 Hz
2029-03-26	Monday	06:30	081°	+10°	0 dB	0°	081°	+10°	147°	+14°	0.7dB	176°K	370364 +353 Hz
2029-03-26	Monday	07:00	086°	+15°	0 dB	0°	086°	+15°	154°	+14°	0.7dB	175°K	370241 +351 Hz
2029-03-26	Monday	07:30	091°	+20°	0 dB	0°	091°	+20°	162°	+14°	0.7dB	174°K	370117 +344 Hz
2029-03-26	Monday	08:00	097°	+25°	0 dB	0°	097°	+25°	169°	+14°	0.6dB	174°K	369994 +333 Hz
2029-03-26	Monday	08:30	102°	+30°	0 dB	0°	102°	+30°	176°	+14°	0.6dB	174°K	369872 +318 Hz
2029-03-26	Monday	09:00	109°	+35°	0 dB	0°	109°	+35°	183°	+14°	0.6dB	174°K	369749 +298 Hz
2029-03-26	Monday	09:30	115°	+39°	0 dB	0°	115°	+39°	191°	+14°	0.7dB	175°K	369627 +274 Hz
2029-03-26	Monday	10:00	123°	+44°	0 dB	0°	123°	+44°	198°	+14°	0.6dB	175°K	369506 +246 Hz
2029-03-26	Monday	10:30	131°	+48°	0 dB	0°	131°	+48°	205°	+14°	0.6dB	175°K	369384 +216 Hz
2029-03-26	Monday	11:00	141°	+51°	0 dB	0°	141°	+51°	212°	+13°	0.7dB	176°K	369263 +182 Hz
2029-03-26	Monday	11:30	152°	+54°	0 dB	0°	152°	+54°	220°	+13°	0.6dB	176°K	369142 +146 Hz
2029-03-26	Monday	12:00	164°	+56°	0 dB	0°	164°	+56°	227°	+13°	0.6dB	176°K	369022 +109 Hz
2029-03-26	Monday	12:30	176°	+56°	0 dB	0°	176°	+56°	234°	+13°	0.7dB	177°K	368901 +71 Hz
2029-03-26	Monday	13:00	189°	+56°	0 dB	0°	189°	+56°	241°	+13°	0.6dB	177°K	368781 +32 Hz
2029-03-26	Monday	13:30	202°	+55°	0 dB	0°	202°	+55°	249°	+13°	0.6dB	177°K	368662 -6 Hz
2029-03-26	Monday	14:00	213°	+52°	0 dB	0°	213°	+52°	256°	+13°	0.7dB	178°K	368543 -42 Hz
2029-03-26	Monday	14:30	223°	+49°	0 dB	0°	223°	+49°	263°	+13°	0.6dB	178°K	368424 -77 Hz
2029-03-26	Monday	15:00	232°	+45°	0 dB	0°	232°	+45°	270°	+13°	0.6dB	178°K	368305 -110 Hz
2029-03-26	Monday	15:30	240°	+41°	0 dB	0°	240°	+41°	277°	+13°	0.7dB	179°K	368187 -140 Hz
2029-03-26	Monday	16:00	247°	+36°	0 dB	0°	247°	+36°	285°	+12°	0.7dB	179°K	368069 -167 Hz
2029-03-26	Monday	16:30	253°	+31°	0 dB	0°	253°	+31°	292°	+12°	0.6dB	179°K	367951 -189 Hz
2029-03-26	Monday	17:00	259°	+26°	0 dB	0°	259°	+26°	299°	+12°	0.7dB	180°K	367834 -208 Hz
2029-03-26	Monday	17:30	264°	+21°	0 dB	0°	264°	+21°	306°	+12°	0.7dB	180°K	367718 -222 Hz
2029-03-26	Monday	18:00	270°	+16°	0 dB	0°	270°	+16°	314°	+12°	0.6dB	180°K	367601 -231 Hz
2029-03-26	Monday	18:30	275°	+11°	0 dB	0°	275°	+11°	321°	+12°	0.7dB	181°K	367485 -236 Hz
2029-03-26	Monday	19:00	280°	+6°	0 dB	0°	280°	+6°	328°	+12°	0.7dB	181°K	367369 -236 Hz
2029-03-26	Monday	19:30	285°	+1°	0 dB	0°	285°	+1°	335°	+12°	0.6dB	181°K	367254 -232 Hz
2029-03-27	Tuesday	07:00	081°	+3°	0 dB	0°	081°	+3°	142°	+9°	0.6dB	185°K	364720 +345 Hz
2029-03-27	Tuesday	07:30	086°	+7°	0 dB	0°	086°	+7°	149°	+9°	0.6dB	186°K	364615 +347 Hz
2029-03-27	Tuesday	08:00	091°	+12°	0 dB	0°	091°	+12°	156°	+9°	0.6dB	186°K	364511 +343 Hz
2029-03-27	Tuesday	08:30	097°	+17°	0 dB	0°	097°	+17°	164°	+9°	0.6dB	186°K	364408 +335 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-27	Tuesday	09:00	102°	+22°	0 dB	0°	102°	+22°	171°	+8°	0.6dB	186°K	364304 +323 Hz
2029-03-27	Tuesday	09:30	108°	+27°	0 dB	0°	108°	+27°	178°	+8°	0.6dB	186°K	364202 +306 Hz
2029-03-27	Tuesday	10:00	115°	+32°	0 dB	0°	115°	+32°	185°	+8°	0.6dB	186°K	364100 +284 Hz
2029-03-27	Tuesday	10:30	122°	+36°	0 dB	0°	122°	+36°	193°	+8°	0.6dB	187°K	363998 +259 Hz
2029-03-27	Tuesday	11:00	129°	+40°	0 dB	0°	129°	+40°	200°	+8°	0.6dB	187°K	363897 +230 Hz
2029-03-27	Tuesday	11:30	138°	+44°	0 dB	0°	138°	+44°	207°	+8°	0.6dB	187°K	363797 +197 Hz
2029-03-27	Tuesday	12:00	147°	+47°	0 dB	0°	147°	+47°	214°	+8°	0.6dB	188°K	363697 +162 Hz
2029-03-27	Tuesday	12:30	157°	+49°	0 dB	0°	157°	+49°	221°	+8°	0.6dB	188°K	363598 +125 Hz
2029-03-27	Tuesday	13:00	168°	+50°	0 dB	0°	168°	+50°	229°	+7°	0.6dB	188°K	363499 +87 Hz
2029-03-27	Tuesday	13:30	180°	+51°	0 dB	0°	180°	+51°	236°	+7°	0.6dB	189°K	363401 +48 Hz
2029-03-27	Tuesday	14:00	191°	+50°	0 dB	0°	191°	+50°	243°	+7°	0.6dB	189°K	363303 +9 Hz
2029-03-27	Tuesday	14:30	202°	+48°	0 dB	0°	202°	+48°	250°	+7°	0.6dB	189°K	363206 -29 Hz
2029-03-27	Tuesday	15:00	212°	+46°	0 dB	0°	212°	+46°	258°	+7°	0.6dB	190°K	363109 -66 Hz
2029-03-27	Tuesday	15:30	221°	+43°	0 dB	0°	221°	+43°	265°	+7°	0.6dB	190°K	363013 -102 Hz
2029-03-27	Tuesday	16:00	230°	+39°	0 dB	0°	230°	+39°	272°	+7°	0.6dB	190°K	362918 -134 Hz
2029-03-27	Tuesday	16:30	237°	+35°	0 dB	0°	237°	+35°	279°	+7°	0.6dB	191°K	362823 -164 Hz
2029-03-27	Tuesday	17:00	244°	+30°	0 dB	0°	244°	+30°	287°	+7°	0.6dB	191°K	362728 -190 Hz
2029-03-27	Tuesday	17:30	250°	+26°	0 dB	0°	250°	+26°	294°	+6°	0.6dB	191°K	362635 -212 Hz
2029-03-27	Tuesday	18:00	256°	+21°	0 dB	0°	256°	+21°	301°	+6°	0.6dB	192°K	362542 -229 Hz
2029-03-27	Tuesday	18:30	261°	+16°	0 dB	0°	261°	+16°	308°	+6°	0.6dB	192°K	362449 -242 Hz
2029-03-27	Tuesday	19:00	267°	+11°	0 dB	0°	267°	+11°	316°	+6°	0.6dB	192°K	362357 -251 Hz
2029-03-27	Tuesday	19:30	272°	+5°	0 dB	0°	272°	+5°	323°	+6°	0.6dB	193°K	362266 -254 Hz
2029-03-27	Tuesday	20:00	277°	+0°	0 dB	0°	277°	+0°	330°	+6°	0.6dB	193°K	362175 -253 Hz
2029-03-28	wednesday	08:30	092°	+4°	0 dB	0°	092°	+4°	151°	+3°	0.7dB	201°K	360118 +331 Hz
2029-03-28	wednesday	09:00	097°	+9°	0 dB	0°	097°	+9°	158°	+2°	0.7dB	202°K	360044 +327 Hz
2029-03-28	wednesday	09:30	103°	+14°	0 dB	0°	103°	+14°	165°	+2°	0.7dB	202°K	359971 +317 Hz
2029-03-28	wednesday	10:00	108°	+19°	0 dB	0°	108°	+19°	173°	+2°	0.7dB	202°K	359899 +303 Hz
2029-03-28	wednesday	10:30	114°	+23°	0 dB	0°	114°	+23°	180°	+2°	0.7dB	203°K	359828 +285 Hz
2029-03-28	wednesday	11:00	121°	+28°	0 dB	0°	121°	+28°	187°	+2°	0.7dB	203°K	359758 +262 Hz
2029-03-28	wednesday	11:30	128°	+32°	0 dB	0°	128°	+32°	194°	+2°	0.7dB	203°K	359688 +235 Hz
2029-03-28	wednesday	12:00	135°	+35°	0 dB	0°	135°	+35°	202°	+2°	0.7dB	203°K	359619 +205 Hz
2029-03-28	wednesday	12:30	144°	+39°	0 dB	0°	144°	+39°	209°	+1°	0.7dB	204°K	359550 +171 Hz
2029-03-28	wednesday	13:00	153°	+41°	0 dB	0°	153°	+41°	216°	+1°	0.7dB	204°K	359482 +136 Hz
2029-03-28	wednesday	13:30	162°	+43°	0 dB	0°	162°	+43°	223°	+1°	0.7dB	204°K	359415 +98 Hz
2029-03-28	wednesday	14:00	172°	+44°	0 dB	0°	172°	+44°	231°	+1°	0.7dB	205°K	359349 +59 Hz
2029-03-28	wednesday	14:30	182°	+44°	0 dB	0°	182°	+44°	238°	+1°	0.7dB	205°K	359284 +20 Hz
2029-03-28	wednesday	15:00	192°	+43°	0 dB	0°	192°	+43°	245°	+1°	0.7dB	205°K	359219 -19 Hz
2029-03-28	wednesday	15:30	202°	+42°	0 dB	0°	202°	+42°	252°	+1°	0.7dB	206°K	359155 -58 Hz
2029-03-28	wednesday	16:00	211°	+39°	0 dB	0°	211°	+39°	259°	+1°	0.7dB	206°K	359092 -95 Hz
2029-03-28	wednesday	16:30	220°	+36°	0 dB	0°	220°	+36°	267°	+0°	0.7dB	206°K	359030 -129 Hz
2029-03-28	wednesday	17:00	227°	+33°	0 dB	0°	227°	+33°	274°	+0°	0.7dB	207°K	358968 -161 Hz
2029-03-28	wednesday	17:30	234°	+29°	0 dB	0°	234°	+29°	281°	+0°	0.7dB	207°K	358907 -190 Hz
2029-03-28	wednesday	18:00	241°	+24°	0 dB	0°	241°	+24°	288°	+0°	0.7dB	207°K	358847 -215 Hz
2029-03-28	wednesday	18:30	247°	+19°	0 dB	0°	247°	+19°	296°	-0°	0.7dB	208°K	358787 -236 Hz
2029-03-28	wednesday	19:00	253°	+15°	0 dB	0°	253°	+15°	303°	-0°	0.7dB	208°K	358729 -252 Hz
2029-03-28	wednesday	19:30	258°	+10°	0 dB	0°	258°	+10°	310°	-0°	0.7dB	208°K	358671 -264 Hz
2029-03-28	wednesday	20:00	263°	+5°	0 dB	0°	263°	+5°	317°	-0°	0.7dB	209°K	358614 -271 Hz
2029-03-28	wednesday	20:30	269°	-0°	0 dB	0°	269°	-0°	325°	-1°	0.7dB	209°K	358558 -273 Hz
2029-03-29	Thursday	09:30	098°	+1°	0 dB	0°	098°	+1°	153°	-4°	1.1dB	241°K	357377 +308 Hz
2029-03-29	Thursday	10:00	103°	+5°	0 dB	0°	103°	+5°	160°	-4°	1.2dB	243°K	357342 +302 Hz
2029-03-29	Thursday	10:30	108°	+10°	0 dB	0°	108°	+10°	167°	-4°	1.2dB	245°K	357309 +291 Hz
2029-03-29	Thursday	11:00	114°	+15°	0 dB	0°	114°	+15°	174°	-4°	1.2dB	247°K	357276 +276 Hz
2029-03-29	Thursday	11:30	120°	+19°	0 dB	0°	120°	+19°	182°	-5°	1.2dB	249°K	357244 +257 Hz
2029-03-29	Thursday	12:00	127°	+23°	0 dB	0°	127°	+23°	189°	-5°	1.3dB	250°K	357213 +233 Hz
2029-03-29	Thursday	12:30	134°	+27°	0 dB	0°	134°	+27°	196°	-5°	1.3dB	252°K	357183 +205 Hz
2029-03-29	Thursday	13:00	141°	+30°	0 dB	0°	141°	+30°	203°	-5°	1.3dB	254°K	357154 +174 Hz
2029-03-29	Thursday	13:30	149°	+33°	0 dB	0°	149°	+33°	210°	-5°	1.3dB	256°K	357126 +141 Hz
2029-03-29	Thursday	14:00	157°	+35°	0 dB	0°	157°	+35°	218°	-5°	1.4dB	258°K	357098 +104 Hz
2029-03-29	Thursday	14:30	166°	+37°	0 dB	0°	166°	+37°	225°	-5°	1.4dB	260°K	357072 +67 Hz
2029-03-29	Thursday	15:00	175°	+37°	0 dB	0°	175°	+37°	232°	-5°	1.4dB	262°K	357046 +28 Hz
2029-03-29	Thursday	15:30	184°	+37°	0 dB	0°	184°	+37°	239°	-6°	1.4dB	264°K	357021 -11 Hz
2029-03-29	Thursday	16:00	193°	+36°	0 dB	0°	193°	+36°	247°	-6°	1.5dB	266°K	356997 -50 Hz
2029-03-29	Thursday	16:30	202°	+35°	0 dB	0°	202°	+35°	254°	-6°	1.5dB	268°K	356973 -87 Hz
2029-03-29	Thursday	17:00	210°	+32°	0 dB	0°	210°	+32°	261°	-6°	1.5dB	270°K	356951 -123 Hz
2029-03-29	Thursday	17:30	218°	+29°	0 dB	0°	218°	+29°	268°	-6°	1.5dB	272°K	356929 -157 Hz
2029-03-29	Thursday	18:00	225°	+26°	0 dB	0°	225°	+26°	276°	-6°	1.6dB	274°K	356909 -188 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-03-29	Thursday	18:30	232°	+22°	0 dB	0°	232°	+22°	283°	-6°	1.6dB	276°K	356889	-215 Hz
2029-03-29	Thursday	19:00	238°	+18°	0 dB	0°	238°	+18°	290°	-7°	1.6dB	278°K	356870	-239 Hz
2029-03-29	Thursday	19:30	244°	+13°	0 dB	0°	244°	+13°	297°	-7°	1.6dB	280°K	356852	-258 Hz
2029-03-29	Thursday	20:00	249°	+9°	0 dB	0°	249°	+9°	304°	-7°	1.7dB	282°K	356835	-274 Hz
2029-03-29	Thursday	20:30	255°	+4°	0 dB	0°	255°	+4°	312°	-7°	1.7dB	284°K	356818	-284 Hz
2029-03-30	Friday	11:00	108°	+2°	0 dB	0°	108°	+2°	161°	-11°	2.0dB	313°K	356722	+272 Hz
2029-03-30	Friday	11:30	114°	+6°	0 dB	0°	114°	+6°	168°	-11°	2.0dB	313°K	356731	+261 Hz
2029-03-30	Friday	12:00	119°	+11°	0 dB	0°	119°	+11°	176°	-11°	2.0dB	313°K	356742	+245 Hz
2029-03-30	Friday	12:30	125°	+15°	0 dB	0°	125°	+15°	183°	-11°	2.0dB	313°K	356753	+225 Hz
2029-03-30	Friday	13:00	131°	+19°	0 dB	0°	131°	+19°	190°	-11°	2.0dB	313°K	356766	+201 Hz
2029-03-30	Friday	13:30	138°	+22°	0 dB	0°	138°	+22°	197°	-11°	2.0dB	313°K	356779	+173 Hz
2029-03-30	Friday	14:00	145°	+25°	0 dB	0°	145°	+25°	204°	-11°	2.0dB	313°K	356793	+142 Hz
2029-03-30	Friday	14:30	153°	+28°	0 dB	0°	153°	+28°	212°	-11°	2.0dB	313°K	356808	+109 Hz
2029-03-30	Friday	15:00	160°	+29°	0 dB	0°	160°	+29°	219°	-12°	2.0dB	313°K	356824	+73 Hz
2029-03-30	Friday	15:30	169°	+31°	0 dB	0°	169°	+31°	226°	-12°	2.0dB	313°K	356840	+36 Hz
2029-03-30	Friday	16:00	177°	+31°	0 dB	0°	177°	+31°	233°	-12°	2.0dB	313°K	356858	-2 Hz
2029-03-30	Friday	16:30	185°	+31°	0 dB	0°	185°	+31°	241°	-12°	2.0dB	312°K	356876	-40 Hz
2029-03-30	Friday	17:00	193°	+30°	0 dB	0°	193°	+30°	248°	-12°	2.0dB	312°K	356895	-77 Hz
2029-03-30	Friday	17:30	201°	+28°	0 dB	0°	201°	+28°	255°	-12°	2.0dB	312°K	356915	-114 Hz
2029-03-30	Friday	18:00	209°	+26°	0 dB	0°	209°	+26°	262°	-12°	2.0dB	311°K	356936	-148 Hz
2029-03-30	Friday	18:30	216°	+23°	0 dB	0°	216°	+23°	269°	-12°	2.0dB	311°K	356958	-181 Hz
2029-03-30	Friday	19:00	223°	+20°	0 dB	0°	223°	+20°	277°	-12°	2.0dB	311°K	356981	-210 Hz
2029-03-30	Friday	19:30	229°	+16°	0 dB	0°	229°	+16°	284°	-13°	2.0dB	310°K	357004	-236 Hz
2029-03-30	Friday	20:00	235°	+12°	0 dB	0°	235°	+12°	291°	-13°	2.0dB	310°K	357029	-259 Hz
2029-03-30	Friday	20:30	241°	+8°	0 dB	0°	241°	+8°	298°	-13°	2.0dB	310°K	357054	-277 Hz
2029-03-30	Friday	21:00	246°	+3°	0 dB	0°	246°	+3°	305°	-13°	2.0dB	309°K	357080	-291 Hz
2029-03-31	Saturday	12:30	118°	+2°	0 dB	0°	118°	+2°	169°	-16°	2.2dB	319°K	358298	+230 Hz
2029-03-31	Saturday	13:00	123°	+7°	0 dB	0°	123°	+7°	176°	-16°	2.2dB	320°K	358350	+214 Hz
2029-03-31	Saturday	13:30	129°	+10°	0 dB	0°	129°	+10°	184°	-16°	2.2dB	321°K	358403	+195 Hz
2029-03-31	Saturday	14:00	135°	+14°	0 dB	0°	135°	+14°	191°	-17°	2.2dB	321°K	358457	+171 Hz
2029-03-31	Saturday	14:30	141°	+17°	0 dB	0°	141°	+17°	198°	-17°	2.2dB	322°K	358512	+144 Hz
2029-03-31	Saturday	15:00	148°	+20°	0 dB	0°	148°	+20°	205°	-17°	2.2dB	323°K	358567	+114 Hz
2029-03-31	Saturday	15:30	155°	+22°	0 dB	0°	155°	+22°	212°	-17°	2.3dB	324°K	358623	+81 Hz
2029-03-31	Saturday	16:00	163°	+24°	0 dB	0°	163°	+24°	220°	-17°	2.3dB	325°K	358680	+46 Hz
2029-03-31	Saturday	16:30	170°	+25°	0 dB	0°	170°	+25°	227°	-17°	2.3dB	326°K	358738	+11 Hz
2029-03-31	Saturday	17:00	178°	+26°	0 dB	0°	178°	+26°	234°	-17°	2.3dB	328°K	358796	-26 Hz
2029-03-31	Saturday	17:30	185°	+25°	0 dB	0°	185°	+25°	241°	-17°	2.3dB	329°K	358855	-63 Hz
2029-03-31	Saturday	18:00	193°	+25°	0 dB	0°	193°	+25°	248°	-17°	2.3dB	330°K	358915	-99 Hz
2029-03-31	Saturday	18:30	200°	+23°	0 dB	0°	200°	+23°	256°	-17°	2.4dB	332°K	358976	-134 Hz
2029-03-31	Saturday	19:00	208°	+21°	0 dB	0°	208°	+21°	263°	-18°	2.4dB	333°K	359037	-168 Hz
2029-03-31	Saturday	19:30	214°	+18°	0 dB	0°	214°	+18°	270°	-18°	2.4dB	335°K	359099	-199 Hz
2029-03-31	Saturday	20:00	221°	+15°	0 dB	0°	221°	+15°	277°	-18°	2.4dB	336°K	359162	-227 Hz
2029-03-31	Saturday	20:30	227°	+12°	0 dB	0°	227°	+12°	284°	-18°	2.4dB	338°K	359226	-252 Hz
2029-03-31	Saturday	21:00	233°	+8°	0 dB	0°	233°	+8°	292°	-18°	2.5dB	339°K	359290	-273 Hz
2029-03-31	Saturday	21:30	238°	+3°	0 dB	0°	238°	+3°	299°	-18°	2.5dB	341°K	359355	-291 Hz
2029-04-01	Sunday	14:00	126°	+3°	0 dB	0°	126°	+3°	176°	-21°	3.1dB	386°K	361891	+189 Hz
2029-04-01	Sunday	14:30	132°	+7°	0 dB	0°	132°	+7°	184°	-21°	3.1dB	387°K	361979	+170 Hz
2029-04-01	Sunday	15:00	137°	+10°	0 dB	0°	137°	+10°	191°	-21°	3.1dB	388°K	362068	+147 Hz
2029-04-01	Sunday	15:30	144°	+14°	0 dB	0°	144°	+14°	198°	-21°	3.1dB	390°K	362157	+121 Hz
2029-04-01	Sunday	16:00	150°	+16°	0 dB	0°	150°	+16°	205°	-21°	3.1dB	391°K	362247	+92 Hz
2029-04-01	Sunday	16:30	157°	+18°	0 dB	0°	157°	+18°	212°	-21°	3.1dB	392°K	362337	+60 Hz
2029-04-01	Sunday	17:00	164°	+20°	0 dB	0°	164°	+20°	220°	-21°	3.2dB	393°K	362428	+27 Hz
2029-04-01	Sunday	17:30	171°	+21°	0 dB	0°	171°	+21°	227°	-21°	3.2dB	394°K	362519	-8 Hz
2029-04-01	Sunday	18:00	178°	+22°	0 dB	0°	178°	+22°	234°	-21°	3.2dB	396°K	362611	-43 Hz
2029-04-01	Sunday	18:30	185°	+21°	0 dB	0°	185°	+21°	241°	-21°	3.2dB	397°K	362704	-79 Hz
2029-04-01	Sunday	19:00	192°	+20°	0 dB	0°	192°	+20°	248°	-21°	3.2dB	398°K	362797	-114 Hz
2029-04-01	Sunday	19:30	199°	+19°	0 dB	0°	199°	+19°	256°	-22°	3.2dB	399°K	362891	-148 Hz
2029-04-01	Sunday	20:00	206°	+17°	0 dB	0°	206°	+17°	263°	-22°	3.3dB	400°K	362985	-180 Hz
2029-04-01	Sunday	20:30	213°	+15°	0 dB	0°	213°	+15°	270°	-22°	3.3dB	401°K	363080	-210 Hz
2029-04-01	Sunday	21:00	219°	+12°	0 dB	0°	219°	+12°	277°	-22°	3.3dB	402°K	363175	-238 Hz
2029-04-01	Sunday	21:30	225°	+8°	0 dB	0°	225°	+8°	284°	-22°	3.3dB	403°K	363271	-262 Hz
2029-04-01	Sunday	22:00	230°	+4°	0 dB	0°	230°	+4°	292°	-22°	3.3dB	405°K	363368	-282 Hz
2029-04-01	Sunday	22:30	236°	+0°	0 dB	0°	236°	+0°	299°	-22°	3.3dB	406°K	363465	-299 Hz
2029-04-02	Monday	15:00	128°	+1°	0 dB	0°	128°	+1°	176°	-24°	4.1dB	477°K	366939	+173 Hz
2029-04-02	Monday	15:30	133°	+5°	0 dB	0°	133°	+5°	184°	-24°	4.2dB	482°K	367052	+154 Hz
2029-04-02	Monday	16:00	139°	+8°	0 dB	0°	139°	+8°	191°	-24°	4.2dB	488°K	367165	+132 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-02	Monday	16:30	145°	+11°	0 dB	0°	145°	+11°	198°	-24°	4.3dB	494°K	367278 +107 Hz
2029-04-02	Monday	17:00	151°	+14°	0 dB	0°	151°	+14°	205°	-24°	4.3dB	499°K	367392 +78 Hz
2029-04-02	Monday	17:30	157°	+16°	0 dB	0°	157°	+16°	212°	-24°	4.4dB	505°K	367506 +48 Hz
2029-04-02	Monday	18:00	164°	+17°	0 dB	0°	164°	+17°	219°	-24°	4.4dB	511°K	367621 +15 Hz
2029-04-02	Monday	18:30	171°	+19°	0 dB	0°	171°	+19°	227°	-24°	4.5dB	516°K	367736 -19 Hz
2029-04-02	Monday	19:00	178°	+19°	0 dB	0°	178°	+19°	234°	-24°	4.5dB	522°K	367851 -53 Hz
2029-04-02	Monday	19:30	185°	+19°	0 dB	0°	185°	+19°	241°	-24°	4.6dB	528°K	367966 -88 Hz
2029-04-02	Monday	20:00	192°	+18°	0 dB	0°	192°	+18°	248°	-24°	4.6dB	533°K	368082 -122 Hz
2029-04-02	Monday	20:30	199°	+17°	0 dB	0°	199°	+17°	255°	-24°	4.6dB	539°K	368198 -155 Hz
2029-04-02	Monday	21:00	205°	+15°	0 dB	0°	205°	+15°	263°	-24°	4.7dB	545°K	368315 -187 Hz
2029-04-02	Monday	21:30	211°	+12°	0 dB	0°	211°	+12°	270°	-24°	4.7dB	550°K	368432 -216 Hz
2029-04-02	Monday	22:00	218°	+10°	0 dB	0°	218°	+10°	277°	-24°	4.8dB	556°K	368549 -243 Hz
2029-04-02	Monday	22:30	223°	+6°	0 dB	0°	223°	+6°	284°	-24°	4.8dB	561°K	368667 -267 Hz
2029-04-02	Monday	23:00	229°	+3°	0 dB	0°	229°	+3°	291°	-24°	4.9dB	567°K	368784 -287 Hz
2029-04-03	Tuesday	16:00	128°	-0°	0 dB	0°	128°	-0°	176°	-25°	7.2dB	975°K	372942 +166 Hz
2029-04-03	Tuesday	16:30	134°	+4°	0 dB	0°	134°	+4°	183°	-25°	7.4dB	1007°K	373068 +147 Hz
2029-04-03	Tuesday	17:00	139°	+7°	0 dB	0°	139°	+7°	191°	-25°	7.5dB	1038°K	373194 +126 Hz
2029-04-03	Tuesday	17:30	145°	+10°	0 dB	0°	145°	+10°	198°	-25°	7.6dB	1069°K	373320 +101 Hz
2029-04-03	Tuesday	18:00	151°	+13°	0 dB	0°	151°	+13°	205°	-25°	7.8dB	1101°K	373446 +73 Hz
2029-04-03	Tuesday	18:30	158°	+15°	0 dB	0°	158°	+15°	212°	-25°	7.9dB	1132°K	373573 +43 Hz
2029-04-03	Tuesday	19:00	164°	+17°	0 dB	0°	164°	+17°	219°	-25°	8.0dB	1164°K	373699 +11 Hz
2029-04-03	Tuesday	19:30	171°	+18°	0 dB	0°	171°	+18°	227°	-25°	8.1dB	1195°K	373826 -23 Hz
2029-04-03	Tuesday	20:00	178°	+18°	0 dB	0°	178°	+18°	234°	-25°	8.2dB	1226°K	373952 -57 Hz
2029-04-03	Tuesday	20:30	185°	+18°	0 dB	0°	185°	+18°	241°	-25°	8.3dB	1258°K	374079 -91 Hz
2029-04-03	Tuesday	21:00	192°	+17°	0 dB	0°	192°	+17°	248°	-25°	8.5dB	1289°K	374206 -125 Hz
2029-04-03	Tuesday	21:30	198°	+16°	0 dB	0°	198°	+16°	255°	-25°	8.6dB	1320°K	374333 -158 Hz
2029-04-03	Tuesday	22:00	205°	+14°	0 dB	0°	205°	+14°	263°	-25°	8.7dB	1351°K	374460 -190 Hz
2029-04-03	Tuesday	22:30	211°	+12°	0 dB	0°	211°	+12°	270°	-25°	8.8dB	1382°K	374588 -219 Hz
2029-04-03	Tuesday	23:00	217°	+9°	0 dB	0°	217°	+9°	277°	-25°	8.9dB	1414°K	374715 -246 Hz
2029-04-03	Tuesday	23:30	223°	+6°	0 dB	0°	223°	+6°	284°	-25°	9.0dB	1445°K	374842 -270 Hz
2029-04-04	wednesday	00:00	229°	+2°	0 dB	0°	229°	+2°	291°	-25°	9.1dB	1476°K	374970 -290 Hz
2029-04-04	wednesday	00:30	128°	+1°	0 dB	0°	128°	+1°	177°	-24°	12.3dB	3027°K	379324 +167 Hz
2029-04-04	wednesday	01:00	134°	+4°	0 dB	0°	134°	+4°	184°	-24°	12.2dB	2978°K	379452 +148 Hz
2029-04-04	wednesday	01:30	139°	+8°	0 dB	0°	139°	+8°	191°	-24°	12.2dB	2928°K	379579 +127 Hz
2029-04-04	wednesday	02:00	145°	+11°	0 dB	0°	145°	+11°	198°	-24°	12.1dB	2879°K	379707 +101 Hz
2029-04-04	wednesday	02:30	151°	+14°	0 dB	0°	151°	+14°	205°	-24°	12.0dB	2829°K	379835 +73 Hz
2029-04-04	wednesday	03:00	158°	+16°	0 dB	0°	158°	+16°	213°	-24°	12.0dB	2780°K	379962 +43 Hz
2029-04-04	wednesday	03:30	164°	+18°	0 dB	0°	164°	+18°	220°	-24°	11.9dB	2731°K	380090 +11 Hz
2029-04-04	wednesday	04:00	171°	+19°	0 dB	0°	171°	+19°	227°	-24°	11.8dB	2682°K	380217 -23 Hz
2029-04-04	wednesday	04:30	178°	+19°	0 dB	0°	178°	+19°	234°	-24°	11.7dB	2632°K	380344 -58 Hz
2029-04-04	wednesday	05:00	185°	+19°	0 dB	0°	185°	+19°	242°	-24°	11.7dB	2583°K	380471 -92 Hz
2029-04-04	wednesday	05:30	192°	+18°	0 dB	0°	192°	+18°	249°	-24°	11.6dB	2534°K	380598 -127 Hz
2029-04-04	wednesday	06:00	199°	+17°	0 dB	0°	199°	+17°	256°	-24°	11.5dB	2485°K	380725 -160 Hz
2029-04-04	wednesday	06:30	206°	+15°	0 dB	0°	206°	+15°	263°	-24°	11.4dB	2436°K	380852 -192 Hz
2029-04-04	wednesday	07:00	212°	+13°	0 dB	0°	212°	+13°	270°	-24°	11.4dB	2388°K	380979 -221 Hz
2029-04-05	Thursday	00:00	218°	+10°	0 dB	0°	218°	+10°	278°	-24°	11.3dB	2339°K	381106 -248 Hz
2029-04-05	Thursday	00:30	224°	+6°	0 dB	0°	224°	+6°	285°	-24°	11.2dB	2290°K	381232 -272 Hz
2029-04-05	Thursday	01:00	230°	+3°	0 dB	0°	230°	+3°	292°	-24°	11.1dB	2241°K	381359 -292 Hz
2029-04-05	Thursday	01:30	128°	+3°	0 dB	0°	128°	+3°	178°	-22°	7.0dB	799°K	385569 +174 Hz
2029-04-05	Thursday	02:00	133°	+7°	0 dB	0°	133°	+7°	185°	-22°	7.0dB	786°K	385690 +154 Hz
2029-04-05	Thursday	02:30	139°	+10°	0 dB	0°	139°	+10°	192°	-22°	6.9dB	773°K	385810 +131 Hz
2029-04-05	Thursday	03:00	145°	+13°	0 dB	0°	145°	+13°	200°	-22°	6.8dB	759°K	385930 +105 Hz
2029-04-05	Thursday	03:30	152°	+16°	0 dB	0°	152°	+16°	207°	-22°	6.8dB	746°K	386050 +76 Hz
2029-04-05	Thursday	04:00	158°	+18°	0 dB	0°	158°	+18°	214°	-22°	6.7dB	733°K	386170 +45 Hz
2029-04-05	Thursday	04:30	165°	+20°	0 dB	0°	165°	+20°	221°	-22°	6.6dB	720°K	386289 +11 Hz
2029-04-05	Thursday	05:00	172°	+21°	0 dB	0°	172°	+21°	228°	-22°	6.6dB	707°K	386409 -23 Hz
2029-04-05	Thursday	05:30	180°	+21°	0 dB	0°	180°	+21°	236°	-22°	6.5dB	693°K	386528 -58 Hz
2029-04-05	Thursday	06:00	187°	+21°	0 dB	0°	187°	+21°	243°	-21°	6.4dB	680°K	386646 -94 Hz
2029-04-05	Thursday	06:30	194°	+20°	0 dB	0°	194°	+20°	250°	-21°	6.3dB	667°K	386765 -129 Hz
2029-04-05	Thursday	07:00	201°	+19°	0 dB	0°	201°	+19°	257°	-21°	6.3dB	654°K	386883 -162 Hz
2029-04-06	Friday	00:00	208°	+17°	0 dB	0°	208°	+17°	265°	-21°	6.2dB	641°K	387001 -194 Hz
2029-04-06	Friday	00:30	214°	+14°	0 dB	0°	214°	+14°	272°	-21°	6.1dB	628°K	387119 -224 Hz
2029-04-06	Friday	01:00	221°	+11°	0 dB	0°	221°	+11°	279°	-21°	6.0dB	615°K	387236 -251 Hz
2029-04-06	Friday	01:30	227°	+8°	0 dB	0°	227°	+8°	286°	-21°	6.0dB	602°K	387353 -275 Hz
2029-04-06	Friday	02:00	232°	+4°	0 dB	0°	232°	+4°	294°	-21°	5.9dB	589°K	387470 -295 Hz
2029-04-06	Friday	02:30	238°	+0°	0 dB	0°	238°	+0°	301°	-21°	5.8dB	576°K	387587 -311 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-06	Friday	18:30	122°	+3°	0 dB	0°	122°	+3°	173°	-19°	4.2dB	369°K	391173	+199 Hz
2029-04-06	Friday	19:00	128°	+7°	0 dB	0°	128°	+7°	180°	-19°	4.2dB	367°K	391280	+182 Hz
2029-04-06	Friday	19:30	133°	+11°	0 dB	0°	133°	+11°	187°	-19°	4.2dB	366°K	391387	+161 Hz
2029-04-06	Friday	20:00	139°	+14°	0 dB	0°	139°	+14°	195°	-19°	4.2dB	364°K	391493	+137 Hz
2029-04-06	Friday	20:30	146°	+17°	0 dB	0°	146°	+17°	202°	-19°	4.2dB	363°K	391599	+109 Hz
2029-04-06	Friday	21:00	153°	+20°	0 dB	0°	153°	+20°	209°	-18°	4.2dB	361°K	391705	+78 Hz
2029-04-06	Friday	21:30	160°	+22°	0 dB	0°	160°	+22°	216°	-18°	4.2dB	360°K	391810	+45 Hz
2029-04-06	Friday	22:00	167°	+24°	0 dB	0°	167°	+24°	224°	-18°	4.2dB	358°K	391916	+11 Hz
2029-04-06	Friday	22:30	174°	+25°	0 dB	0°	174°	+25°	231°	-18°	4.2dB	356°K	392020	-25 Hz
2029-04-06	Friday	23:00	182°	+25°	0 dB	0°	182°	+25°	238°	-18°	4.1dB	355°K	392125	-62 Hz
2029-04-06	Friday	23:30	190°	+24°	0 dB	0°	190°	+24°	245°	-18°	4.1dB	353°K	392229	-98 Hz
2029-04-07	Saturday	00:00	197°	+23°	0 dB	0°	197°	+23°	253°	-18°	4.1dB	352°K	392333	-133 Hz
2029-04-07	Saturday	00:30	205°	+22°	0 dB	0°	205°	+22°	260°	-18°	4.1dB	350°K	392436	-168 Hz
2029-04-07	Saturday	01:00	212°	+19°	0 dB	0°	212°	+19°	267°	-18°	4.1dB	349°K	392539	-200 Hz
2029-04-07	Saturday	01:30	218°	+16°	0 dB	0°	218°	+16°	274°	-18°	4.1dB	347°K	392642	-229 Hz
2029-04-07	Saturday	02:00	225°	+13°	0 dB	0°	225°	+13°	282°	-18°	4.1dB	346°K	392744	-256 Hz
2029-04-07	Saturday	02:30	231°	+9°	0 dB	0°	231°	+9°	289°	-18°	4.1dB	344°K	392846	-279 Hz
2029-04-07	Saturday	03:00	236°	+6°	0 dB	0°	236°	+6°	296°	-18°	4.1dB	343°K	392948	-298 Hz
2029-04-07	Saturday	03:30	242°	+1°	0 dB	0°	242°	+1°	303°	-17°	4.0dB	341°K	393049	-314 Hz
2029-04-07	Saturday	19:00	116°	+3°	0 dB	0°	116°	+3°	169°	-15°	4.0dB	326°K	396012	+224 Hz
2029-04-07	Saturday	19:30	122°	+8°	0 dB	0°	122°	+8°	176°	-15°	4.0dB	326°K	396102	+209 Hz
2029-04-07	Saturday	20:00	128°	+12°	0 dB	0°	128°	+12°	183°	-15°	4.0dB	326°K	396191	+190 Hz
2029-04-07	Saturday	20:30	134°	+16°	0 dB	0°	134°	+16°	190°	-15°	4.0dB	326°K	396280	+167 Hz
2029-04-07	Saturday	21:00	140°	+19°	0 dB	0°	140°	+19°	198°	-15°	4.0dB	326°K	396369	+140 Hz
2029-04-07	Saturday	21:30	147°	+22°	0 dB	0°	147°	+22°	205°	-14°	4.0dB	326°K	396457	+110 Hz
2029-04-07	Saturday	22:00	154°	+25°	0 dB	0°	154°	+25°	212°	-14°	4.0dB	326°K	396544	+77 Hz
2029-04-07	Saturday	22:30	162°	+27°	0 dB	0°	162°	+27°	219°	-14°	4.0dB	326°K	396632	+43 Hz
2029-04-07	Saturday	23:00	170°	+28°	0 dB	0°	170°	+28°	227°	-14°	4.0dB	326°K	396719	+6 Hz
2029-04-07	Saturday	23:30	178°	+29°	0 dB	0°	178°	+29°	234°	-14°	4.0dB	326°K	396805	-31 Hz
2029-04-08	Sunday	00:00	186°	+29°	0 dB	0°	186°	+29°	241°	-14°	4.0dB	326°K	396892	-69 Hz
2029-04-08	Sunday	00:30	194°	+28°	0 dB	0°	194°	+28°	249°	-14°	4.0dB	326°K	396978	-106 Hz
2029-04-08	Sunday	01:00	202°	+27°	0 dB	0°	202°	+27°	256°	-14°	4.1dB	326°K	397063	-142 Hz
2029-04-08	Sunday	01:30	209°	+25°	0 dB	0°	209°	+25°	263°	-14°	4.1dB	326°K	397148	-176 Hz
2029-04-08	Sunday	02:00	216°	+22°	0 dB	0°	216°	+22°	270°	-14°	4.1dB	326°K	397233	-208 Hz
2029-04-08	Sunday	02:30	223°	+19°	0 dB	0°	223°	+19°	278°	-14°	4.1dB	326°K	397317	-237 Hz
2029-04-08	Sunday	03:00	230°	+15°	0 dB	0°	230°	+15°	285°	-13°	4.1dB	326°K	397401	-263 Hz
2029-04-08	Sunday	03:30	236°	+11°	0 dB	0°	236°	+11°	292°	-13°	4.1dB	326°K	397485	-284 Hz
2029-04-08	Sunday	04:00	242°	+7°	0 dB	0°	242°	+7°	300°	-13°	4.1dB	326°K	397568	-302 Hz
2029-04-08	Sunday	04:30	247°	+2°	0 dB	0°	247°	+2°	307°	-13°	4.1dB	326°K	397650	-316 Hz
2029-04-08	Sunday	19:00	106°	-0°	0 dB	0°	106°	-0°	158°	-10°	4.1dB	318°K	399880	+255 Hz
2029-04-08	Sunday	19:30	111°	+4°	0 dB	0°	111°	+4°	165°	-10°	4.1dB	317°K	399951	+246 Hz
2029-04-08	Sunday	20:00	116°	+9°	0 dB	0°	116°	+9°	172°	-10°	4.1dB	316°K	400022	+233 Hz
2029-04-08	Sunday	20:30	122°	+14°	0 dB	0°	122°	+14°	180°	-10°	4.1dB	315°K	400092	+215 Hz
2029-04-08	Sunday	21:00	128°	+18°	0 dB	0°	128°	+18°	187°	-10°	4.0dB	314°K	400162	+194 Hz
2029-04-08	Sunday	21:30	135°	+22°	0 dB	0°	135°	+22°	194°	-10°	4.0dB	313°K	400231	+168 Hz
2029-04-08	Sunday	22:00	142°	+25°	0 dB	0°	142°	+25°	202°	-10°	4.0dB	312°K	400300	+139 Hz
2029-04-08	Sunday	22:30	149°	+28°	0 dB	0°	149°	+28°	209°	-10°	4.0dB	311°K	400369	+106 Hz
2029-04-08	Sunday	23:00	157°	+31°	0 dB	0°	157°	+31°	216°	-10°	4.0dB	310°K	400437	+72 Hz
2029-04-08	Sunday	23:30	165°	+32°	0 dB	0°	165°	+32°	223°	-10°	4.0dB	309°K	400505	+35 Hz
2029-04-09	Monday	00:00	174°	+33°	0 dB	0°	174°	+33°	231°	-9°	4.0dB	308°K	400572	-3 Hz
2029-04-09	Monday	00:30	182°	+34°	0 dB	0°	182°	+34°	238°	-9°	4.0dB	307°K	400639	-41 Hz
2029-04-09	Monday	01:00	191°	+33°	0 dB	0°	191°	+33°	245°	-9°	4.0dB	306°K	400706	-79 Hz
2029-04-09	Monday	01:30	200°	+32°	0 dB	0°	200°	+32°	253°	-9°	4.0dB	305°K	400772	-117 Hz
2029-04-09	Monday	02:00	208°	+30°	0 dB	0°	208°	+30°	260°	-9°	4.0dB	305°K	400838	-153 Hz
2029-04-09	Monday	02:30	215°	+27°	0 dB	0°	215°	+27°	267°	-9°	4.0dB	304°K	400904	-186 Hz
2029-04-09	Monday	03:00	223°	+24°	0 dB	0°	223°	+24°	274°	-9°	4.0dB	303°K	400969	-218 Hz
2029-04-09	Monday	03:30	230°	+21°	0 dB	0°	230°	+21°	282°	-9°	3.9dB	302°K	401033	-245 Hz
2029-04-09	Monday	04:00	236°	+17°	0 dB	0°	236°	+17°	289°	-9°	3.9dB	301°K	401098	-270 Hz
2029-04-09	Monday	04:30	242°	+13°	0 dB	0°	242°	+13°	296°	-9°	3.9dB	300°K	401162	-290 Hz
2029-04-09	Monday	05:00	248°	+8°	0 dB	0°	248°	+8°	304°	-8°	3.9dB	299°K	401225	-305 Hz
2029-04-09	Monday	05:30	253°	+3°	0 dB	0°	253°	+3°	311°	-8°	3.9dB	298°K	401288	-316 Hz
2029-04-09	Monday	19:30	100°	+1°	0 dB	0°	100°	+1°	155°	-6°	3.4dB	255°K	402896	+272 Hz
2029-04-09	Monday	20:00	106°	+6°	0 dB	0°	106°	+6°	162°	-5°	3.4dB	253°K	402948	+265 Hz
2029-04-09	Monday	20:30	111°	+11°	0 dB	0°	111°	+11°	170°	-5°	3.4dB	252°K	403000	+254 Hz
2029-04-09	Monday	21:00	117°	+16°	0 dB	0°	117°	+16°	177°	-5°	3.4dB	250°K	403051	+237 Hz
2029-04-09	Monday	21:30	123°	+20°	0 dB	0°	123°	+20°	184°	-5°	3.3dB	248°K	403101	+217 Hz

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-09	Monday	22:00	129°	+25°	0 dB	0°	129°	+25°	191°	-5°	3.3dB	247°K	403152 +192 Hz
2029-04-09	Monday	22:30	136°	+28°	0 dB	0°	136°	+28°	199°	-5°	3.3dB	245°K	403201 +163 Hz
2029-04-09	Monday	23:00	144°	+32°	0 dB	0°	144°	+32°	206°	-5°	3.3dB	244°K	403251 +132 Hz
2029-04-09	Monday	23:30	152°	+35°	0 dB	0°	152°	+35°	213°	-5°	3.3dB	243°K	403300 +97 Hz
2029-04-10	Tuesday	00:00	161°	+37°	0 dB	0°	161°	+37°	221°	-5°	3.3dB	243°K	403349 +61 Hz
2029-04-10	Tuesday	00:30	170°	+38°	0 dB	0°	170°	+38°	228°	-5°	3.3dB	243°K	403397 +23 Hz
2029-04-10	Tuesday	01:00	179°	+39°	0 dB	0°	179°	+39°	235°	-4°	3.3dB	243°K	403445 -16 Hz
2029-04-10	Tuesday	01:30	188°	+38°	0 dB	0°	188°	+38°	243°	-4°	3.3dB	243°K	403493 -55 Hz
2029-04-10	Tuesday	02:00	198°	+37°	0 dB	0°	198°	+37°	250°	-4°	3.3dB	243°K	403540 -94 Hz
2029-04-10	Tuesday	02:30	206°	+36°	0 dB	0°	206°	+36°	257°	-4°	3.3dB	243°K	403587 -131 Hz
2029-04-10	Tuesday	03:00	215°	+33°	0 dB	0°	215°	+33°	264°	-4°	3.3dB	243°K	403633 -166 Hz
2029-04-10	Tuesday	03:30	223°	+30°	0 dB	0°	223°	+30°	272°	-4°	3.3dB	243°K	403679 -198 Hz
2029-04-10	Tuesday	04:00	230°	+26°	0 dB	0°	230°	+26°	279°	-4°	3.3dB	243°K	403725 -228 Hz
2029-04-10	Tuesday	04:30	237°	+22°	0 dB	0°	237°	+22°	286°	-4°	3.3dB	243°K	403771 -254 Hz
2029-04-10	Tuesday	05:00	243°	+18°	0 dB	0°	243°	+18°	294°	-4°	3.3dB	243°K	403816 -276 Hz
2029-04-10	Tuesday	05:30	249°	+14°	0 dB	0°	249°	+14°	301°	-3°	3.3dB	243°K	403860 -293 Hz
2029-04-10	Tuesday	06:00	255°	+9°	0 dB	0°	255°	+9°	308°	-3°	3.3dB	243°K	403904 -306 Hz
2029-04-10	Tuesday	06:30	260°	+4°	0 dB	0°	260°	+4°	315°	-3°	3.3dB	243°K	403948 -314 Hz
2029-04-10	Tuesday	20:00	095°	+3°	0 dB	0°	095°	+3°	152°	-1°	3.3dB	242°K	404992 +286 Hz
2029-04-10	Tuesday	20:30	100°	+8°	0 dB	0°	100°	+8°	160°	-0°	3.3dB	242°K	405026 +280 Hz
2029-04-10	Tuesday	21:00	106°	+13°	0 dB	0°	106°	+13°	167°	-0°	3.3dB	242°K	405059 +270 Hz
2029-04-10	Tuesday	21:30	111°	+18°	0 dB	0°	111°	+18°	174°	-0°	3.3dB	242°K	405092 +255 Hz
2029-04-10	Tuesday	22:00	117°	+23°	0 dB	0°	117°	+23°	182°	-0°	3.3dB	241°K	405124 +236 Hz
2029-04-10	Tuesday	22:30	124°	+27°	0 dB	0°	124°	+27°	189°	+0°	3.3dB	241°K	405156 +212 Hz
2029-04-10	Tuesday	23:00	131°	+31°	0 dB	0°	131°	+31°	196°	+0°	3.3dB	241°K	405188 +185 Hz
2029-04-10	Tuesday	23:30	138°	+35°	0 dB	0°	138°	+35°	203°	+0°	3.3dB	241°K	405219 +154 Hz
2029-04-11	wednesday	00:00	147°	+38°	0 dB	0°	147°	+38°	211°	+0°	3.3dB	241°K	405251 +120 Hz
2029-04-11	wednesday	00:30	156°	+41°	0 dB	0°	156°	+41°	218°	+0°	3.3dB	241°K	405281 +84 Hz
2029-04-11	wednesday	01:00	165°	+43°	0 dB	0°	165°	+43°	225°	+1°	3.3dB	241°K	405312 +46 Hz
2029-04-11	wednesday	01:30	175°	+44°	0 dB	0°	175°	+44°	233°	+1°	3.3dB	241°K	405342 +7 Hz
2029-04-11	wednesday	02:00	185°	+44°	0 dB	0°	185°	+44°	240°	+1°	3.3dB	240°K	405371 -32 Hz
2029-04-11	wednesday	02:30	196°	+43°	0 dB	0°	196°	+43°	247°	+1°	3.3dB	240°K	405401 -71 Hz
2029-04-11	wednesday	03:00	205°	+41°	0 dB	0°	205°	+41°	255°	+1°	3.3dB	240°K	405429 -109 Hz
2029-04-11	wednesday	03:30	214°	+39°	0 dB	0°	214°	+39°	262°	+1°	3.3dB	240°K	405458 -145 Hz
2029-04-11	wednesday	04:00	223°	+36°	0 dB	0°	223°	+36°	269°	+1°	3.3dB	240°K	405486 -179 Hz
2029-04-11	wednesday	04:30	230°	+32°	0 dB	0°	230°	+32°	276°	+1°	3.3dB	240°K	405514 -210 Hz
2029-04-11	wednesday	05:00	238°	+28°	0 dB	0°	238°	+28°	284°	+1°	3.3dB	240°K	405542 -237 Hz
2029-04-11	wednesday	05:30	244°	+24°	0 dB	0°	244°	+24°	291°	+1°	3.3dB	240°K	405569 -260 Hz
2029-04-11	wednesday	06:00	250°	+19°	0 dB	0°	250°	+19°	298°	+2°	3.3dB	239°K	405596 -280 Hz
2029-04-11	wednesday	06:30	256°	+14°	0 dB	0°	256°	+14°	306°	+2°	3.3dB	239°K	405622 -294 Hz
2029-04-11	wednesday	07:00	262°	+9°	0 dB	0°	262°	+9°	313°	+2°	3.3dB	239°K	405648 -304 Hz
2029-04-11	wednesday	07:30	267°	+4°	0 dB	0°	267°	+4°	320°	+2°	3.3dB	239°K	405674 -309 Hz
2029-04-11	wednesday	08:00	272°	-0°	0 dB	0°	272°	-0°	328°	+2°	3.3dB	239°K	405700 -309 Hz
2029-04-11	wednesday	20:00	084°	-0°	0 dB	0°	084°	-0°	143°	+4°	3.3dB	239°K	406209 +294 Hz
2029-04-11	wednesday	20:30	090°	+5°	0 dB	0°	090°	+5°	150°	+5°	3.3dB	239°K	406226 +295 Hz
2029-04-11	wednesday	21:00	095°	+10°	0 dB	0°	095°	+10°	157°	+5°	3.3dB	239°K	406243 +291 Hz
2029-04-11	wednesday	21:30	100°	+15°	0 dB	0°	100°	+15°	164°	+5°	3.3dB	239°K	406259 +283 Hz
2029-04-11	wednesday	22:00	106°	+20°	0 dB	0°	106°	+20°	172°	+5°	3.3dB	239°K	406275 +270 Hz
2029-04-11	wednesday	22:30	112°	+25°	0 dB	0°	112°	+25°	179°	+5°	3.3dB	239°K	406291 +252 Hz
2029-04-11	wednesday	23:00	118°	+30°	0 dB	0°	118°	+30°	186°	+5°	3.3dB	239°K	406307 +229 Hz
2029-04-11	wednesday	23:30	125°	+34°	0 dB	0°	125°	+34°	194°	+5°	3.3dB	239°K	406322 +203 Hz
2029-04-12	Thursday	00:00	133°	+38°	0 dB	0°	133°	+38°	201°	+5°	3.3dB	239°K	406336 +173 Hz
2029-04-12	Thursday	00:30	141°	+42°	0 dB	0°	141°	+42°	208°	+5°	3.3dB	239°K	406351 +140 Hz
2029-04-12	Thursday	01:00	150°	+45°	0 dB	0°	150°	+45°	216°	+5°	3.3dB	239°K	406365 +105 Hz
2029-04-12	Thursday	01:30	160°	+47°	0 dB	0°	160°	+47°	223°	+6°	3.4dB	244°K	406379 +67 Hz
2029-04-12	Thursday	02:00	171°	+49°	0 dB	0°	171°	+49°	230°	+6°	3.4dB	244°K	406392 +29 Hz
2029-04-12	Thursday	02:30	182°	+49°	0 dB	0°	182°	+49°	237°	+6°	3.4dB	245°K	406405 -10 Hz
2029-04-12	Thursday	03:00	193°	+48°	0 dB	0°	193°	+48°	245°	+6°	3.4dB	245°K	406418 -49 Hz
2029-04-12	Thursday	03:30	204°	+47°	0 dB	0°	204°	+47°	252°	+6°	3.4dB	246°K	406431 -88 Hz
2029-04-12	Thursday	04:00	214°	+44°	0 dB	0°	214°	+44°	259°	+6°	3.4dB	246°K	406443 -124 Hz
2029-04-12	Thursday	04:30	223°	+41°	0 dB	0°	223°	+41°	267°	+6°	3.5dB	247°K	406455 -159 Hz
2029-04-12	Thursday	05:00	231°	+38°	0 dB	0°	231°	+38°	274°	+6°	3.5dB	247°K	406466 -191 Hz
2029-04-12	Thursday	05:30	239°	+34°	0 dB	0°	239°	+34°	281°	+6°	3.5dB	248°K	406477 -219 Hz
2029-04-12	Thursday	06:00	245°	+29°	0 dB	0°	245°	+29°	288°	+6°	3.5dB	248°K	406488 -244 Hz
2029-04-12	Thursday	06:30	252°	+25°	0 dB	0°	252°	+25°	296°	+7°	3.5dB	249°K	406499 -264 Hz
2029-04-12	Thursday	07:00	258°	+20°	0 dB	0°	258°	+20°	303°	+7°	3.5dB	249°K	406509 -280 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-12	Thursday	07:30	263°	+15°	0 dB	0°	263°	+15°	310°	+7°	3.5dB	250°K	406519 -292 Hz
2029-04-12	Thursday	08:00	269°	+10°	0 dB	0°	269°	+10°	318°	+7°	3.5dB	250°K	406529 -298 Hz
2029-04-12	Thursday	08:30	274°	+5°	0 dB	0°	274°	+5°	325°	+7°	3.5dB	251°K	406538 -300 Hz
2029-04-12	Thursday	09:00	279°	-0°	0 dB	0°	279°	-0°	332°	+7°	3.5dB	251°K	406547 -297 Hz
2029-04-12	Thursday	20:30	079°	+2°	0 dB	0°	079°	+2°	140°	+9°	3.7dB	264°K	406668 +298 Hz
2029-04-12	Thursday	21:00	084°	+7°	0 dB	0°	084°	+7°	147°	+9°	3.7dB	264°K	406670 +301 Hz
2029-04-12	Thursday	21:30	090°	+12°	0 dB	0°	090°	+12°	155°	+9°	3.7dB	265°K	406671 +299 Hz
2029-04-12	Thursday	22:00	095°	+17°	0 dB	0°	095°	+17°	162°	+10°	3.7dB	265°K	406672 +292 Hz
2029-04-12	Thursday	22:30	100°	+22°	0 dB	0°	100°	+22°	169°	+10°	3.7dB	266°K	406673 +280 Hz
2029-04-12	Thursday	23:00	106°	+27°	0 dB	0°	106°	+27°	176°	+10°	3.7dB	266°K	406673 +264 Hz
2029-04-12	Thursday	23:30	112°	+32°	0 dB	0°	112°	+32°	184°	+10°	3.7dB	267°K	406673 +244 Hz
2029-04-13	Friday	00:00	119°	+37°	0 dB	0°	119°	+37°	191°	+10°	3.7dB	267°K	406673 +219 Hz
2029-04-13	Friday	00:30	126°	+41°	0 dB	0°	126°	+41°	198°	+10°	3.8dB	268°K	406672 +190 Hz
2029-04-13	Friday	01:00	135°	+45°	0 dB	0°	135°	+45°	206°	+10°	3.8dB	268°K	406671 +159 Hz
2029-04-13	Friday	01:30	144°	+48°	0 dB	0°	144°	+48°	213°	+10°	3.8dB	269°K	406670 +124 Hz
2029-04-13	Friday	02:00	154°	+51°	0 dB	0°	154°	+51°	220°	+10°	3.8dB	270°K	406669 +88 Hz
2029-04-13	Friday	02:30	166°	+53°	0 dB	0°	166°	+53°	227°	+10°	3.8dB	270°K	406667 +50 Hz
2029-04-13	Friday	03:00	178°	+54°	0 dB	0°	178°	+54°	235°	+10°	3.8dB	271°K	406665 +12 Hz
2029-04-13	Friday	03:30	190°	+53°	0 dB	0°	190°	+53°	242°	+11°	3.8dB	271°K	406663 -27 Hz
2029-04-13	Friday	04:00	202°	+52°	0 dB	0°	202°	+52°	249°	+11°	3.8dB	272°K	406660 -65 Hz
2029-04-13	Friday	04:30	213°	+50°	0 dB	0°	213°	+50°	257°	+11°	3.8dB	272°K	406657 -102 Hz
2029-04-13	Friday	05:00	223°	+47°	0 dB	0°	223°	+47°	264°	+11°	3.8dB	273°K	406654 -137 Hz
2029-04-13	Friday	05:30	232°	+43°	0 dB	0°	232°	+43°	271°	+11°	3.8dB	273°K	406651 -170 Hz
2029-04-13	Friday	06:00	239°	+39°	0 dB	0°	239°	+39°	278°	+11°	3.8dB	274°K	406647 -199 Hz
2029-04-13	Friday	06:30	247°	+35°	0 dB	0°	247°	+35°	286°	+11°	3.8dB	274°K	406643 -225 Hz
2029-04-13	Friday	07:00	253°	+30°	0 dB	0°	253°	+30°	293°	+11°	3.8dB	275°K	406638 -247 Hz
2029-04-13	Friday	07:30	259°	+25°	0 dB	0°	259°	+25°	300°	+11°	3.8dB	SUN!	406634 -264 Hz
2029-04-13	Friday	08:00	265°	+20°	0 dB	0°	265°	+20°	308°	+11°	3.9dB	SUN!	406629 -277 Hz
2029-04-13	Friday	08:30	270°	+15°	0 dB	0°	270°	+15°	315°	+12°	3.9dB	SUN!	406623 -285 Hz
2029-04-13	Friday	09:00	275°	+10°	0 dB	0°	275°	+10°	322°	+12°	3.9dB	SUN!	406618 -289 Hz
2029-04-13	Friday	09:30	281°	+5°	0 dB	0°	281°	+5°	329°	+12°	3.9dB	SUN!	406612 -287 Hz
2029-04-13	Friday	10:00	286°	+0°	0 dB	0°	286°	+0°	337°	+12°	3.9dB	SUN!	406606 -281 Hz
2029-04-13	Friday	21:00	074°	+3°	0 dB	0°	074°	+3°	137°	+14°	4.0dB	SUN!	406397 +299 Hz
2029-04-13	Friday	21:30	079°	+8°	0 dB	0°	079°	+8°	144°	+14°	4.0dB	SUN!	406384 +303 Hz
2029-04-13	Friday	22:00	084°	+13°	0 dB	0°	084°	+13°	152°	+14°	4.0dB	SUN!	406371 +303 Hz
2029-04-13	Friday	22:30	089°	+18°	0 dB	0°	089°	+18°	159°	+14°	4.1dB	SUN!	406358 +298 Hz
2029-04-13	Friday	23:00	095°	+23°	0 dB	0°	095°	+23°	166°	+14°	4.1dB	SUN!	406344 +289 Hz
2029-04-13	Friday	23:30	100°	+28°	0 dB	0°	100°	+28°	173°	+14°	4.1dB	SUN!	406330 +274 Hz
2029-04-14	Saturday	00:00	106°	+33°	0 dB	0°	106°	+33°	181°	+14°	4.1dB	SUN!	406316 +256 Hz
2029-04-14	Saturday	00:30	112°	+38°	0 dB	0°	112°	+38°	188°	+14°	4.1dB	SUN!	406301 +233 Hz
2029-04-14	Saturday	01:00	119°	+43°	0 dB	0°	119°	+43°	195°	+14°	4.1dB	SUN!	406286 +206 Hz
2029-04-14	Saturday	01:30	127°	+47°	0 dB	0°	127°	+47°	203°	+15°	4.1dB	SUN!	406271 +177 Hz
2029-04-14	Saturday	02:00	137°	+51°	0 dB	0°	137°	+51°	210°	+15°	4.1dB	SUN!	406256 +144 Hz
2029-04-14	Saturday	02:30	147°	+54°	0 dB	0°	147°	+54°	217°	+15°	4.1dB	SUN!	406240 +109 Hz
2029-04-14	Saturday	03:00	159°	+57°	0 dB	0°	159°	+57°	224°	+15°	4.1dB	SUN!	406224 +72 Hz
2029-04-14	Saturday	03:30	172°	+58°	0 dB	0°	172°	+58°	232°	+15°	4.1dB	SUN!	406208 +34 Hz
2029-04-14	Saturday	04:00	185°	+58°	0 dB	0°	185°	+58°	239°	+15°	4.1dB	SUN!	406191 -4 Hz
2029-04-14	Saturday	04:30	199°	+57°	0 dB	0°	199°	+57°	246°	+15°	4.1dB	SUN!	406175 -42 Hz
2029-04-14	Saturday	05:00	211°	+55°	0 dB	0°	211°	+55°	254°	+15°	4.1dB	SUN!	406157 -78 Hz
2029-04-14	Saturday	05:30	222°	+52°	0 dB	0°	222°	+52°	261°	+15°	4.1dB	SUN!	406140 -114 Hz
2029-04-14	Saturday	06:00	231°	+49°	0 dB	0°	231°	+49°	268°	+15°	4.1dB	SUN!	406122 -147 Hz
2029-04-14	Saturday	06:30	240°	+44°	0 dB	0°	240°	+44°	275°	+15°	4.1dB	SUN!	406105 -177 Hz
2029-04-14	Saturday	07:00	247°	+40°	0 dB	0°	247°	+40°	283°	+15°	4.1dB	SUN!	406086 -204 Hz
2029-04-14	Saturday	07:30	254°	+35°	0 dB	0°	254°	+35°	290°	+16°	4.1dB	SUN!	406068 -227 Hz
2029-04-14	Saturday	08:00	260°	+30°	0 dB	0°	260°	+30°	297°	+16°	4.1dB	SUN!	406049 -246 Hz
2029-04-14	Saturday	08:30	266°	+25°	0 dB	0°	266°	+25°	304°	+16°	4.1dB	SUN!	406030 -260 Hz
2029-04-14	Saturday	09:00	271°	+20°	0 dB	0°	271°	+20°	312°	+16°	4.1dB	SUN!	406011 -270 Hz
2029-04-14	Saturday	09:30	276°	+15°	0 dB	0°	276°	+15°	319°	+16°	4.1dB	SUN!	405991 -276 Hz
2029-04-14	Saturday	10:00	281°	+10°	0 dB	0°	281°	+10°	326°	+16°	4.1dB	SUN!	405971 -276 Hz
2029-04-14	Saturday	10:30	286°	+5°	0 dB	0°	286°	+5°	334°	+16°	4.1dB	SUN!	405951 -272 Hz
2029-04-14	Saturday	11:00	292°	+1°	0 dB	0°	292°	+1°	341°	+16°	4.1dB	SUN!	405930 -264 Hz
2029-04-14	Saturday	21:30	069°	+4°	0 dB	0°	069°	+4°	134°	+18°	4.3dB	317°K	405435 +297 Hz
2029-04-14	Saturday	22:00	074°	+8°	0 dB	0°	074°	+8°	141°	+18°	4.3dB	318°K	405408 +303 Hz
2029-04-14	Saturday	22:30	079°	+13°	0 dB	0°	079°	+13°	148°	+18°	4.3dB	320°K	405381 +305 Hz
2029-04-14	Saturday	23:00	084°	+18°	0 dB	0°	084°	+18°	155°	+18°	4.4dB	321°K	405354 +303 Hz
2029-04-14	Saturday	23:30	089°	+24°	0 dB	0°	089°	+24°	163°	+18°	4.4dB	322°K	405326 +295 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-15	Sunday	00:00	094°	+29°	0 dB	0°	094°	+29°	170°	+18°	4.4dB	324°K	405298	+283 Hz
2029-04-15	Sunday	00:30	100°	+34°	0 dB	0°	100°	+34°	177°	+18°	4.4dB	325°K	405270	+267 Hz
2029-04-15	Sunday	01:00	106°	+39°	0 dB	0°	106°	+39°	185°	+18°	4.4dB	327°K	405242	+247 Hz
2029-04-15	Sunday	01:30	112°	+44°	0 dB	0°	112°	+44°	192°	+18°	4.4dB	328°K	405213	+222 Hz
2029-04-15	Sunday	02:00	120°	+48°	0 dB	0°	120°	+48°	199°	+18°	4.4dB	330°K	405184	+195 Hz
2029-04-15	Sunday	02:30	129°	+52°	0 dB	0°	129°	+52°	206°	+18°	4.5dB	331°K	405155	+164 Hz
2029-04-15	Sunday	03:00	139°	+56°	0 dB	0°	139°	+56°	214°	+18°	4.5dB	333°K	405125	+130 Hz
2029-04-15	Sunday	03:30	151°	+59°	0 dB	0°	151°	+59°	221°	+19°	4.5dB	334°K	405096	+95 Hz
2029-04-15	Sunday	04:00	164°	+61°	0 dB	0°	164°	+61°	228°	+19°	4.5dB	336°K	405065	+59 Hz
2029-04-15	Sunday	04:30	179°	+62°	0 dB	0°	179°	+62°	235°	+19°	4.5dB	337°K	405035	+21 Hz
2029-04-15	Sunday	05:00	194°	+62°	0 dB	0°	194°	+62°	243°	+19°	4.5dB	338°K	405004	-16 Hz
2029-04-15	Sunday	05:30	207°	+60°	0 dB	0°	207°	+60°	250°	+19°	4.5dB	340°K	404973	-52 Hz
2029-04-15	Sunday	06:00	220°	+57°	0 dB	0°	220°	+57°	257°	+19°	4.6dB	341°K	404942	-88 Hz
2029-04-15	Sunday	06:30	230°	+54°	0 dB	0°	230°	+54°	265°	+19°	4.6dB	343°K	404911	-121 Hz
2029-04-15	Sunday	07:00	239°	+49°	0 dB	0°	239°	+49°	272°	+19°	4.6dB	344°K	404879	-152 Hz
2029-04-15	Sunday	07:30	247°	+45°	0 dB	0°	247°	+45°	279°	+19°	4.6dB	346°K	404847	-180 Hz
2029-04-15	Sunday	08:00	254°	+40°	0 dB	0°	254°	+40°	286°	+19°	4.6dB	347°K	404815	-204 Hz
2029-04-15	Sunday	08:30	260°	+35°	0 dB	0°	260°	+35°	294°	+19°	4.6dB	348°K	404782	-225 Hz
2029-04-15	Sunday	09:00	266°	+30°	0 dB	0°	266°	+30°	301°	+19°	4.6dB	349°K	404749	-242 Hz
2029-04-15	Sunday	09:30	271°	+25°	0 dB	0°	271°	+25°	308°	+19°	4.6dB	350°K	404716	-254 Hz
2029-04-15	Sunday	10:00	276°	+20°	0 dB	0°	276°	+20°	315°	+19°	4.6dB	350°K	404682	-261 Hz
2029-04-15	Sunday	10:30	281°	+15°	0 dB	0°	281°	+15°	323°	+19°	4.7dB	351°K	404648	-264 Hz
2029-04-15	Sunday	11:00	286°	+11°	0 dB	0°	286°	+11°	330°	+20°	4.7dB	352°K	404614	-263 Hz
2029-04-15	Sunday	11:30	291°	+6°	0 dB	0°	291°	+6°	337°	+20°	4.7dB	353°K	404580	-256 Hz
2029-04-15	Sunday	12:00	297°	+1°	0 dB	0°	297°	+1°	344°	+20°	4.7dB	353°K	404545	-246 Hz
2029-04-15	Sunday	22:00	064°	+3°	0 dB	0°	064°	+3°	130°	+21°	4.8dB	368°K	403793	+293 Hz
2029-04-15	Sunday	22:30	069°	+8°	0 dB	0°	069°	+8°	137°	+21°	4.8dB	369°K	403752	+302 Hz
2029-04-15	Sunday	23:00	074°	+13°	0 dB	0°	074°	+13°	144°	+21°	4.8dB	369°K	403711	+306 Hz
2029-04-15	Sunday	23:30	079°	+18°	0 dB	0°	079°	+18°	151°	+21°	4.8dB	368°K	403670	+306 Hz
2029-04-16	Monday	00:00	084°	+23°	0 dB	0°	084°	+23°	159°	+21°	4.8dB	367°K	403629	+301 Hz
2029-04-16	Monday	00:30	089°	+28°	0 dB	0°	089°	+28°	166°	+21°	4.8dB	367°K	403587	+292 Hz
2029-04-16	Monday	01:00	094°	+33°	0 dB	0°	094°	+33°	173°	+21°	4.8dB	366°K	403545	+278 Hz
2029-04-16	Monday	01:30	100°	+38°	0 dB	0°	100°	+38°	181°	+21°	4.7dB	365°K	403503	+261 Hz
2029-04-16	Monday	02:00	106°	+43°	0 dB	0°	106°	+43°	188°	+21°	4.7dB	364°K	403460	+239 Hz
2029-04-16	Monday	02:30	113°	+48°	0 dB	0°	113°	+48°	195°	+21°	4.7dB	363°K	403417	+214 Hz
2029-04-16	Monday	03:00	121°	+53°	0 dB	0°	121°	+53°	202°	+21°	4.7dB	363°K	403374	+185 Hz
2029-04-16	Monday	03:30	130°	+57°	0 dB	0°	130°	+57°	210°	+22°	4.7dB	362°K	403330	+154 Hz
2029-04-16	Monday	04:00	141°	+60°	0 dB	0°	141°	+60°	217°	+22°	4.7dB	361°K	403286	+120 Hz
2029-04-16	Monday	04:30	154°	+63°	0 dB	0°	154°	+63°	224°	+22°	4.7dB	360°K	403242	+85 Hz
2029-04-16	Monday	05:00	170°	+65°	0 dB	0°	170°	+65°	231°	+22°	4.7dB	360°K	403198	+49 Hz
2029-04-16	Monday	05:30	186°	+65°	0 dB	0°	186°	+65°	239°	+22°	4.7dB	359°K	403153	+12 Hz
2029-04-16	Monday	06:00	201°	+64°	0 dB	0°	201°	+64°	246°	+22°	4.7dB	358°K	403108	-24 Hz
2029-04-16	Monday	06:30	215°	+62°	0 dB	0°	215°	+62°	253°	+22°	4.6dB	357°K	403063	-59 Hz
2029-04-16	Monday	07:00	227°	+58°	0 dB	0°	227°	+58°	260°	+22°	4.6dB	357°K	403018	-93 Hz
2029-04-16	Monday	07:30	237°	+54°	0 dB	0°	237°	+54°	268°	+22°	4.6dB	356°K	402972	-125 Hz
2029-04-16	Monday	08:00	246°	+50°	0 dB	0°	246°	+50°	275°	+22°	4.6dB	355°K	402926	-154 Hz
2029-04-16	Monday	08:30	253°	+45°	0 dB	0°	253°	+45°	282°	+22°	4.6dB	354°K	402879	-180 Hz
2029-04-16	Monday	09:00	259°	+40°	0 dB	0°	259°	+40°	289°	+22°	4.6dB	354°K	402832	-202 Hz
2029-04-16	Monday	09:30	265°	+35°	0 dB	0°	265°	+35°	297°	+22°	4.6dB	353°K	402785	-221 Hz
2029-04-16	Monday	10:00	271°	+30°	0 dB	0°	271°	+30°	304°	+22°	4.6dB	352°K	402738	-235 Hz
2029-04-16	Monday	10:30	276°	+25°	0 dB	0°	276°	+25°	311°	+22°	4.6dB	351°K	402691	-245 Hz
2029-04-16	Monday	11:00	281°	+20°	0 dB	0°	281°	+20°	318°	+22°	4.6dB	350°K	402643	-251 Hz
2029-04-16	Monday	11:30	286°	+15°	0 dB	0°	286°	+15°	326°	+22°	4.6dB	350°K	402594	-252 Hz
2029-04-16	Monday	12:00	290°	+11°	0 dB	0°	290°	+11°	333°	+22°	4.5dB	349°K	402546	-249 Hz
2029-04-16	Monday	12:30	295°	+6°	0 dB	0°	295°	+6°	340°	+22°	4.5dB	348°K	402497	-241 Hz
2029-04-16	Monday	13:00	301°	+2°	0 dB	0°	301°	+2°	347°	+22°	4.5dB	348°K	402448	-229 Hz
2029-04-16	Monday	22:30	059°	+2°	0 dB	0°	059°	+2°	125°	+23°	4.6dB	362°K	401460	+288 Hz
2029-04-16	Monday	23:00	064°	+7°	0 dB	0°	064°	+7°	132°	+23°	4.6dB	363°K	401405	+299 Hz
2029-04-16	Monday	23:30	069°	+12°	0 dB	0°	069°	+12°	140°	+23°	4.6dB	364°K	401350	+306 Hz
2029-04-17	Tuesday	00:00	074°	+16°	0 dB	0°	074°	+16°	147°	+23°	4.7dB	365°K	401294	+309 Hz
2029-04-17	Tuesday	00:30	079°	+21°	0 dB	0°	079°	+21°	154°	+23°	4.7dB	366°K	401239	+307 Hz
2029-04-17	Tuesday	01:00	084°	+26°	0 dB	0°	084°	+26°	161°	+23°	4.7dB	366°K	401182	+301 Hz
2029-04-17	Tuesday	01:30	089°	+31°	0 dB	0°	089°	+31°	169°	+23°	4.7dB	367°K	401126	+290 Hz
2029-04-17	Tuesday	02:00	094°	+36°	0 dB	0°	094°	+36°	176°	+23°	4.7dB	368°K	401069	+275 Hz
2029-04-17	Tuesday	02:30	100°	+41°	0 dB	0°	100°	+41°	183°	+23°	4.7dB	369°K	401012	+257 Hz
2029-04-17	Tuesday	03:00	106°	+46°	0 dB	0°	106°	+46°	190°	+24°	4.7dB	370°K	400955	+234 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-17	Tuesday	03:30	113°	+51°	0 dB	0°	113°	+51°	198°	+24°	4.7dB	371°K	400897 +208 Hz
2029-04-17	Tuesday	04:00	121°	+56°	0 dB	0°	121°	+56°	205°	+24°	4.7dB	372°K	400839 +179 Hz
2029-04-17	Tuesday	04:30	131°	+60°	0 dB	0°	131°	+60°	212°	+24°	4.7dB	373°K	400781 +147 Hz
2029-04-17	Tuesday	05:00	144°	+63°	0 dB	0°	144°	+63°	219°	+24°	4.7dB	374°K	400722 +114 Hz
2029-04-17	Tuesday	05:30	158°	+66°	0 dB	0°	158°	+66°	227°	+24°	4.7dB	375°K	400664 +79 Hz
2029-04-17	Tuesday	06:00	175°	+67°	0 dB	0°	175°	+67°	234°	+24°	4.7dB	376°K	400604 +43 Hz
2029-04-17	Tuesday	06:30	192°	+67°	0 dB	0°	192°	+67°	241°	+24°	4.7dB	377°K	400545 +7 Hz
2029-04-17	Tuesday	07:00	208°	+65°	0 dB	0°	208°	+65°	248°	+24°	4.8dB	379°K	400485 -28 Hz
2029-04-17	Tuesday	07:30	222°	+62°	0 dB	0°	222°	+62°	256°	+24°	4.8dB	380°K	400425 -63 Hz
2029-04-17	Tuesday	08:00	233°	+58°	0 dB	0°	233°	+58°	263°	+24°	4.8dB	381°K	400365 -95 Hz
2029-04-17	Tuesday	08:30	243°	+54°	0 dB	0°	243°	+54°	270°	+24°	4.8dB	382°K	400304 -126 Hz
2029-04-17	Tuesday	09:00	250°	+50°	0 dB	0°	250°	+50°	277°	+24°	4.8dB	383°K	400243 -153 Hz
2029-04-17	Tuesday	09:30	257°	+45°	0 dB	0°	257°	+45°	285°	+24°	4.8dB	384°K	400182 -178 Hz
2029-04-17	Tuesday	10:00	263°	+40°	0 dB	0°	263°	+40°	292°	+24°	4.8dB	385°K	400121 -199 Hz
2029-04-17	Tuesday	10:30	269°	+35°	0 dB	0°	269°	+35°	299°	+24°	4.8dB	386°K	400059 -216 Hz
2029-04-17	Tuesday	11:00	274°	+30°	0 dB	0°	274°	+30°	306°	+24°	4.8dB	388°K	399997 -229 Hz
2029-04-17	Tuesday	11:30	279°	+25°	0 dB	0°	279°	+25°	314°	+24°	4.8dB	389°K	399934 -237 Hz
2029-04-17	Tuesday	12:00	284°	+20°	0 dB	0°	284°	+20°	321°	+24°	4.8dB	390°K	399871 -241 Hz
2029-04-17	Tuesday	12:30	289°	+15°	0 dB	0°	289°	+15°	328°	+24°	4.8dB	391°K	399808 -241 Hz
2029-04-17	Tuesday	13:00	293°	+10°	0 dB	0°	293°	+10°	335°	+24°	4.9dB	392°K	399745 -236 Hz
2029-04-17	Tuesday	13:30	298°	+6°	0 dB	0°	298°	+6°	343°	+24°	4.9dB	393°K	399681 -227 Hz
2029-04-17	Tuesday	14:00	303°	+1°	0 dB	0°	303°	+1°	350°	+24°	4.9dB	394°K	399617 -214 Hz
2029-04-17	Tuesday	23:00	055°	+0°	0 dB	0°	055°	+0°	120°	+24°	5.0dB	417°K	398414 +282 Hz
2029-04-17	Tuesday	23:30	060°	+5°	0 dB	0°	060°	+5°	127°	+24°	5.0dB	418°K	398344 +296 Hz
2029-04-18	wednesday	00:00	065°	+9°	0 dB	0°	065°	+9°	135°	+24°	5.0dB	419°K	398274 +306 Hz
2029-04-18	wednesday	00:30	070°	+14°	0 dB	0°	070°	+14°	142°	+24°	5.1dB	421°K	398204 +312 Hz
2029-04-18	wednesday	01:00	075°	+19°	0 dB	0°	075°	+19°	149°	+24°	5.1dB	422°K	398133 +313 Hz
2029-04-18	wednesday	01:30	079°	+23°	0 dB	0°	079°	+23°	156°	+24°	5.1dB	423°K	398063 +310 Hz
2029-04-18	wednesday	02:00	084°	+28°	0 dB	0°	084°	+28°	164°	+24°	5.1dB	425°K	397991 +303 Hz
2029-04-18	wednesday	02:30	089°	+34°	0 dB	0°	089°	+34°	171°	+24°	5.1dB	426°K	397920 +291 Hz
2029-04-18	wednesday	03:00	095°	+39°	0 dB	0°	095°	+39°	178°	+24°	5.1dB	427°K	397848 +275 Hz
2029-04-18	wednesday	03:30	100°	+44°	0 dB	0°	100°	+44°	185°	+24°	5.1dB	428°K	397776 +256 Hz
2029-04-18	wednesday	04:00	107°	+49°	0 dB	0°	107°	+49°	193°	+24°	5.1dB	430°K	397703 +232 Hz
2029-04-18	wednesday	04:30	114°	+53°	0 dB	0°	114°	+53°	200°	+25°	5.1dB	431°K	397631 +206 Hz
2029-04-18	wednesday	05:00	123°	+58°	0 dB	0°	123°	+58°	207°	+25°	5.1dB	432°K	397557 +176 Hz
2029-04-18	wednesday	05:30	134°	+62°	0 dB	0°	134°	+62°	214°	+25°	5.1dB	434°K	397484 +144 Hz
2029-04-18	wednesday	06:00	147°	+65°	0 dB	0°	147°	+65°	222°	+25°	5.1dB	435°K	397410 +110 Hz
2029-04-18	wednesday	06:30	162°	+67°	0 dB	0°	162°	+67°	229°	+25°	5.2dB	438°K	397336 +75 Hz
2029-04-18	wednesday	07:00	180°	+68°	0 dB	0°	180°	+68°	236°	+25°	5.2dB	440°K	397262 +40 Hz
2029-04-18	wednesday	07:30	197°	+67°	0 dB	0°	197°	+67°	243°	+25°	5.2dB	443°K	397188 +4 Hz
2029-04-18	wednesday	08:00	213°	+65°	0 dB	0°	213°	+65°	250°	+25°	5.2dB	445°K	397113 -31 Hz
2029-04-18	wednesday	08:30	226°	+62°	0 dB	0°	226°	+62°	258°	+25°	5.2dB	448°K	397038 -64 Hz
2029-04-18	wednesday	09:00	237°	+58°	0 dB	0°	237°	+58°	265°	+25°	5.3dB	450°K	396962 -96 Hz
2029-04-18	wednesday	09:30	246°	+53°	0 dB	0°	246°	+53°	272°	+25°	5.3dB	453°K	396886 -126 Hz
2029-04-18	wednesday	10:00	253°	+49°	0 dB	0°	253°	+49°	279°	+25°	5.3dB	455°K	396810 -152 Hz
2029-04-18	wednesday	10:30	260°	+44°	0 dB	0°	260°	+44°	287°	+25°	5.3dB	457°K	396734 -176 Hz
2029-04-18	wednesday	11:00	265°	+39°	0 dB	0°	265°	+39°	294°	+25°	5.3dB	460°K	396657 -195 Hz
2029-04-18	wednesday	11:30	271°	+34°	0 dB	0°	271°	+34°	301°	+25°	5.3dB	462°K	396580 -211 Hz
2029-04-18	wednesday	12:00	276°	+29°	0 dB	0°	276°	+29°	308°	+25°	5.4dB	465°K	396503 -223 Hz
2029-04-18	wednesday	12:30	281°	+24°	0 dB	0°	281°	+24°	316°	+25°	5.4dB	467°K	396425 -230 Hz
2029-04-18	wednesday	13:00	285°	+19°	0 dB	0°	285°	+19°	323°	+25°	5.4dB	470°K	396347 -233 Hz
2029-04-18	wednesday	13:30	290°	+14°	0 dB	0°	290°	+14°	330°	+25°	5.4dB	472°K	396269 -232 Hz
2029-04-18	wednesday	14:00	295°	+9°	0 dB	0°	295°	+9°	337°	+25°	5.4dB	475°K	396191 -226 Hz
2029-04-18	wednesday	14:30	300°	+5°	0 dB	0°	300°	+5°	345°	+25°	5.4dB	477°K	396112 -216 Hz
2029-04-18	wednesday	15:00	305°	+1°	0 dB	0°	305°	+1°	352°	+25°	5.5dB	480°K	396033 -202 Hz
2029-04-19	Thursday	00:00	056°	+1°	0 dB	0°	056°	+1°	122°	+24°	5.6dB	500°K	394558 +293 Hz
2029-04-19	Thursday	00:30	061°	+6°	0 dB	0°	061°	+6°	129°	+24°	5.6dB	500°K	394473 +306 Hz
2029-04-19	Thursday	01:00	066°	+10°	0 dB	0°	066°	+10°	137°	+24°	5.5dB	500°K	394388 +315 Hz
2029-04-19	Thursday	01:30	071°	+15°	0 dB	0°	071°	+15°	144°	+24°	5.5dB	500°K	394302 +320 Hz
2029-04-19	Thursday	02:00	076°	+20°	0 dB	0°	076°	+20°	151°	+24°	5.5dB	500°K	394217 +320 Hz
2029-04-19	Thursday	02:30	081°	+25°	0 dB	0°	081°	+25°	158°	+24°	5.5dB	500°K	394131 +316 Hz
2029-04-19	Thursday	03:00	086°	+30°	0 dB	0°	086°	+30°	165°	+24°	5.5dB	500°K	394045 +308 Hz
2029-04-19	Thursday	03:30	091°	+35°	0 dB	0°	091°	+35°	173°	+24°	5.5dB	500°K	393958 +295 Hz
2029-04-19	Thursday	04:00	096°	+40°	0 dB	0°	096°	+40°	180°	+24°	5.5dB	500°K	393871 +278 Hz
2029-04-19	Thursday	04:30	102°	+45°	0 dB	0°	102°	+45°	187°	+24°	5.5dB	500°K	393784 +258 Hz
2029-04-19	Thursday	05:00	109°	+50°	0 dB	0°	109°	+50°	194°	+24°	5.5dB	500°K	393697 +233 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-19	Thursday 05:30	117°	+54°	0 dB	0°	117°	+54°	202°	+24°	5.5dB	500°K	393609	+206 Hz
2029-04-19	Thursday 06:00	126°	+59°	0 dB	0°	126°	+59°	209°	+24°	5.5dB	500°K	393521	+176 Hz
2029-04-19	Thursday 06:30	137°	+62°	0 dB	0°	137°	+62°	216°	+24°	5.5dB	500°K	393433	+143 Hz
2029-04-19	Thursday 07:00	151°	+65°	0 dB	0°	151°	+65°	223°	+24°	5.5dB	500°K	393344	+109 Hz
2029-04-19	Thursday 07:30	167°	+67°	0 dB	0°	167°	+67°	231°	+24°	5.5dB	500°K	393255	+74 Hz
2029-04-19	Thursday 08:00	184°	+67°	0 dB	0°	184°	+67°	238°	+24°	5.5dB	500°K	393166	+38 Hz
2029-04-19	Thursday 08:30	201°	+66°	0 dB	0°	201°	+66°	245°	+24°	5.5dB	498°K	393077	+3 Hz
2029-04-19	Thursday 09:00	216°	+64°	0 dB	0°	216°	+64°	252°	+24°	5.4dB	495°K	392987	-32 Hz
2029-04-19	Thursday 09:30	228°	+60°	0 dB	0°	228°	+60°	260°	+24°	5.4dB	491°K	392897	-66 Hz
2029-04-19	Thursday 10:00	239°	+56°	0 dB	0°	239°	+56°	267°	+24°	5.4dB	488°K	392807	-97 Hz
2029-04-19	Thursday 10:30	247°	+52°	0 dB	0°	247°	+52°	274°	+24°	5.4dB	485°K	392716	-126 Hz
2029-04-19	Thursday 11:00	254°	+47°	0 dB	0°	254°	+47°	281°	+24°	5.3dB	481°K	392625	-152 Hz
2029-04-19	Thursday 11:30	260°	+42°	0 dB	0°	260°	+42°	288°	+24°	5.3dB	478°K	392534	-175 Hz
2029-04-19	Thursday 12:00	266°	+37°	0 dB	0°	266°	+37°	296°	+24°	5.3dB	475°K	392443	-194 Hz
2029-04-19	Thursday 12:30	271°	+32°	0 dB	0°	271°	+32°	303°	+24°	5.2dB	472°K	392351	-209 Hz
2029-04-19	Thursday 13:00	276°	+27°	0 dB	0°	276°	+27°	310°	+24°	5.2dB	468°K	392259	-220 Hz
2029-04-19	Thursday 13:30	281°	+22°	0 dB	0°	281°	+22°	317°	+24°	5.2dB	465°K	392167	-226 Hz
2029-04-19	Thursday 14:00	286°	+17°	0 dB	0°	286°	+17°	325°	+24°	5.1dB	462°K	392074	-228 Hz
2029-04-19	Thursday 14:30	291°	+12°	0 dB	0°	291°	+12°	332°	+24°	5.1dB	458°K	391982	-226 Hz
2029-04-19	Thursday 15:00	296°	+7°	0 dB	0°	296°	+7°	339°	+24°	5.1dB	455°K	391888	-219 Hz
2029-04-19	Thursday 15:30	301°	+3°	0 dB	0°	301°	+3°	346°	+24°	5.0dB	452°K	391795	-208 Hz
2029-04-20	Friday 01:00	059°	+1°	0 dB	0°	059°	+1°	124°	+23°	4.5dB	401°K	389969	+305 Hz
2029-04-20	Friday 01:30	064°	+6°	0 dB	0°	064°	+6°	131°	+23°	4.5dB	399°K	389871	+317 Hz
2029-04-20	Friday 02:00	069°	+10°	0 dB	0°	069°	+10°	138°	+23°	4.5dB	397°K	389772	+325 Hz
2029-04-20	Friday 02:30	073°	+15°	0 dB	0°	073°	+15°	146°	+23°	4.4dB	396°K	389672	+329 Hz
2029-04-20	Friday 03:00	078°	+20°	0 dB	0°	078°	+20°	153°	+23°	4.4dB	394°K	389573	+329 Hz
2029-04-20	Friday 03:30	083°	+25°	0 dB	0°	083°	+25°	160°	+23°	4.4dB	393°K	389473	+324 Hz
2029-04-20	Friday 04:00	088°	+30°	0 dB	0°	088°	+30°	167°	+23°	4.4dB	391°K	389373	+314 Hz
2029-04-20	Friday 04:30	094°	+35°	0 dB	0°	094°	+35°	174°	+23°	4.4dB	389°K	389273	+301 Hz
2029-04-20	Friday 05:00	099°	+40°	0 dB	0°	099°	+40°	182°	+23°	4.3dB	388°K	389172	+283 Hz
2029-04-20	Friday 05:30	106°	+45°	0 dB	0°	106°	+45°	189°	+23°	4.3dB	386°K	389072	+261 Hz
2029-04-20	Friday 06:00	113°	+50°	0 dB	0°	113°	+50°	196°	+23°	4.3dB	384°K	388970	+236 Hz
2029-04-20	Friday 06:30	121°	+54°	0 dB	0°	121°	+54°	203°	+23°	4.3dB	383°K	388869	+207 Hz
2029-04-20	Friday 07:00	131°	+58°	0 dB	0°	131°	+58°	211°	+22°	4.3dB	381°K	388768	+176 Hz
2029-04-20	Friday 07:30	142°	+62°	0 dB	0°	142°	+62°	218°	+22°	4.2dB	379°K	388666	+143 Hz
2029-04-20	Friday 08:00	156°	+64°	0 dB	0°	156°	+64°	225°	+22°	4.2dB	378°K	388564	+108 Hz
2029-04-20	Friday 08:30	172°	+66°	0 dB	0°	172°	+66°	232°	+22°	4.2dB	376°K	388462	+72 Hz
2029-04-20	Friday 09:00	188°	+66°	0 dB	0°	188°	+66°	240°	+22°	4.2dB	374°K	388359	+36 Hz
2029-04-20	Friday 09:30	204°	+64°	0 dB	0°	204°	+64°	247°	+22°	4.2dB	373°K	388257	0 Hz
2029-04-20	Friday 10:00	217°	+61°	0 dB	0°	217°	+61°	254°	+22°	4.1dB	371°K	388154	-36 Hz
2029-04-20	Friday 10:30	229°	+58°	0 dB	0°	229°	+58°	261°	+22°	4.1dB	369°K	388050	-69 Hz
2029-04-20	Friday 11:00	239°	+54°	0 dB	0°	239°	+54°	269°	+22°	4.1dB	367°K	387947	-101 Hz
2029-04-20	Friday 11:30	247°	+49°	0 dB	0°	247°	+49°	276°	+22°	4.1dB	365°K	387843	-129 Hz
2029-04-20	Friday 12:00	254°	+44°	0 dB	0°	254°	+44°	283°	+22°	4.0dB	362°K	387739	-155 Hz
2029-04-20	Friday 12:30	260°	+39°	0 dB	0°	260°	+39°	290°	+22°	4.0dB	360°K	387635	-177 Hz
2029-04-20	Friday 13:00	266°	+34°	0 dB	0°	266°	+34°	298°	+22°	4.0dB	357°K	387531	-196 Hz
2029-04-20	Friday 13:30	271°	+29°	0 dB	0°	271°	+29°	305°	+22°	3.9dB	355°K	387426	-210 Hz
2029-04-20	Friday 14:00	276°	+24°	0 dB	0°	276°	+24°	312°	+22°	3.9dB	352°K	387321	-220 Hz
2029-04-20	Friday 14:30	281°	+19°	0 dB	0°	281°	+19°	319°	+22°	3.9dB	350°K	387216	-225 Hz
2029-04-20	Friday 15:00	286°	+14°	0 dB	0°	286°	+14°	326°	+22°	3.8dB	347°K	387111	-226 Hz
2029-04-20	Friday 15:30	290°	+9°	0 dB	0°	290°	+9°	334°	+22°	3.8dB	345°K	387006	-223 Hz
2029-04-20	Friday 16:00	295°	+5°	0 dB	0°	295°	+5°	341°	+22°	3.8dB	342°K	386900	-215 Hz
2029-04-20	Friday 16:30	300°	+0°	0 dB	0°	300°	+0°	348°	+21°	3.7dB	340°K	386794	-203 Hz
2029-04-21	Saturday 02:00	062°	+0°	0 dB	0°	062°	+0°	126°	+20°	3.1dB	291°K	384742	+318 Hz
2029-04-21	Saturday 02:30	067°	+5°	0 dB	0°	067°	+5°	133°	+20°	3.0dB	288°K	384632	+329 Hz
2029-04-21	Saturday 03:00	072°	+10°	0 dB	0°	072°	+10°	140°	+20°	3.0dB	285°K	384522	+336 Hz
2029-04-21	Saturday 03:30	077°	+14°	0 dB	0°	077°	+14°	147°	+20°	3.0dB	282°K	384412	+339 Hz
2029-04-21	Saturday 04:00	082°	+19°	0 dB	0°	082°	+19°	155°	+20°	2.9dB	279°K	384301	+338 Hz
2029-04-21	Saturday 04:30	087°	+24°	0 dB	0°	087°	+24°	162°	+20°	2.9dB	276°K	384191	+331 Hz
2029-04-21	Saturday 05:00	092°	+29°	0 dB	0°	092°	+29°	169°	+20°	2.8dB	274°K	384080	+321 Hz
2029-04-21	Saturday 05:30	098°	+34°	0 dB	0°	098°	+34°	176°	+20°	2.8dB	271°K	383969	+306 Hz
2029-04-21	Saturday 06:00	104°	+39°	0 dB	0°	104°	+39°	184°	+20°	2.8dB	268°K	383858	+286 Hz
2029-04-21	Saturday 06:30	110°	+44°	0 dB	0°	110°	+44°	191°	+20°	2.7dB	265°K	383746	+263 Hz
2029-04-21	Saturday 07:00	118°	+49°	0 dB	0°	118°	+49°	198°	+20°	2.7dB	262°K	383635	+236 Hz
2029-04-21	Saturday 07:30	126°	+53°	0 dB	0°	126°	+53°	205°	+20°	2.6dB	259°K	383523	+207 Hz
2029-04-21	Saturday 08:00	136°	+57°	0 dB	0°	136°	+57°	213°	+19°	2.6dB	256°K	383411	+174 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-21	Saturday	08:30	148°	+60°	0 dB	0°	148°	+60°	220°	+19°	2.5dB	253°K	383300 +140 Hz
2029-04-21	Saturday	09:00	162°	+62°	0 dB	0°	162°	+62°	227°	+19°	2.5dB	250°K	383187 +104 Hz
2029-04-21	Saturday	09:30	176°	+63°	0 dB	0°	176°	+63°	234°	+19°	2.4dB	247°K	383075 +67 Hz
2029-04-21	Saturday	10:00	191°	+62°	0 dB	0°	191°	+62°	242°	+19°	2.4dB	244°K	382963 +30 Hz
2029-04-21	Saturday	10:30	205°	+60°	0 dB	0°	205°	+60°	249°	+19°	2.3dB	241°K	382850 -7 Hz
2029-04-21	Saturday	11:00	218°	+58°	0 dB	0°	218°	+58°	256°	+19°	2.3dB	238°K	382737 -42 Hz
2029-04-21	Saturday	11:30	229°	+54°	0 dB	0°	229°	+54°	263°	+19°	2.2dB	235°K	382625 -76 Hz
2029-04-21	Saturday	12:00	238°	+50°	0 dB	0°	238°	+50°	270°	+19°	2.2dB	233°K	382512 -108 Hz
2029-04-21	Saturday	12:30	245°	+46°	0 dB	0°	245°	+46°	278°	+19°	2.2dB	230°K	382398 -136 Hz
2029-04-21	Saturday	13:00	252°	+41°	0 dB	0°	252°	+41°	285°	+19°	2.1dB	227°K	382285 -162 Hz
2029-04-21	Saturday	13:30	259°	+36°	0 dB	0°	259°	+36°	292°	+19°	2.1dB	225°K	382172 -184 Hz
2029-04-21	Saturday	14:00	264°	+31°	0 dB	0°	264°	+31°	299°	+19°	2.0dB	224°K	382058 -201 Hz
2029-04-21	Saturday	14:30	270°	+26°	0 dB	0°	270°	+26°	307°	+18°	2.0dB	223°K	381944 -215 Hz
2029-04-21	Saturday	15:00	275°	+21°	0 dB	0°	275°	+21°	314°	+18°	2.0dB	222°K	381831 -224 Hz
2029-04-21	Saturday	15:30	280°	+15°	0 dB	0°	280°	+15°	321°	+18°	2.0dB	221°K	381717 -228 Hz
2029-04-21	Saturday	16:00	284°	+11°	0 dB	0°	284°	+11°	328°	+18°	2.0dB	220°K	381603 -228 Hz
2029-04-21	Saturday	16:30	289°	+6°	0 dB	0°	289°	+6°	336°	+18°	1.9dB	219°K	381489 -223 Hz
2029-04-21	Saturday	17:00	294°	+1°	0 dB	0°	294°	+1°	343°	+18°	1.9dB	218°K	381374 -214 Hz
2029-04-22	Sunday	03:30	071°	+3°	0 dB	0°	071°	+3°	135°	+16°	1.5dB	198°K	378952 +340 Hz
2029-04-22	Sunday	04:00	076°	+8°	0 dB	0°	076°	+8°	142°	+16°	1.5dB	197°K	378836 +346 Hz
2029-04-22	Sunday	04:30	081°	+13°	0 dB	0°	081°	+13°	149°	+16°	1.4dB	196°K	378720 +347 Hz
2029-04-22	Sunday	05:00	086°	+18°	0 dB	0°	086°	+18°	157°	+16°	1.4dB	195°K	378603 +344 Hz
2029-04-22	Sunday	05:30	091°	+23°	0 dB	0°	091°	+23°	164°	+16°	1.4dB	194°K	378487 +337 Hz
2029-04-22	Sunday	06:00	097°	+28°	0 dB	0°	097°	+28°	171°	+16°	1.4dB	193°K	378371 +324 Hz
2029-04-22	Sunday	06:30	103°	+33°	0 dB	0°	103°	+33°	178°	+16°	1.4dB	192°K	378254 +308 Hz
2029-04-22	Sunday	07:00	109°	+38°	0 dB	0°	109°	+38°	186°	+16°	1.3dB	191°K	378138 +287 Hz
2029-04-22	Sunday	07:30	116°	+42°	0 dB	0°	116°	+42°	193°	+16°	1.3dB	190°K	378022 +262 Hz
2029-04-22	Sunday	08:00	124°	+47°	0 dB	0°	124°	+47°	200°	+15°	1.3dB	189°K	377905 +234 Hz
2029-04-22	Sunday	08:30	133°	+50°	0 dB	0°	133°	+50°	207°	+15°	1.3dB	188°K	377788 +202 Hz
2029-04-22	Sunday	09:00	143°	+54°	0 dB	0°	143°	+54°	215°	+15°	1.2dB	187°K	377672 +168 Hz
2029-04-22	Sunday	09:30	155°	+56°	0 dB	0°	155°	+56°	222°	+15°	1.2dB	186°K	377555 +132 Hz
2029-04-22	Sunday	10:00	167°	+58°	0 dB	0°	167°	+58°	229°	+15°	1.2dB	185°K	377439 +95 Hz
2029-04-22	Sunday	10:30	181°	+58°	0 dB	0°	181°	+58°	236°	+15°	1.2dB	184°K	377322 +57 Hz
2029-04-22	Sunday	11:00	194°	+58°	0 dB	0°	194°	+58°	244°	+15°	1.1dB	183°K	377206 +19 Hz
2029-04-22	Sunday	11:30	207°	+56°	0 dB	0°	207°	+56°	251°	+15°	1.1dB	183°K	377089 -18 Hz
2029-04-22	Sunday	12:00	218°	+53°	0 dB	0°	218°	+53°	258°	+15°	1.1dB	182°K	376972 -54 Hz
2029-04-22	Sunday	12:30	228°	+49°	0 dB	0°	228°	+49°	265°	+15°	1.1dB	181°K	376856 -88 Hz
2029-04-22	Sunday	13:00	236°	+45°	0 dB	0°	236°	+45°	273°	+15°	1.1dB	180°K	376739 -119 Hz
2029-04-22	Sunday	13:30	244°	+41°	0 dB	0°	244°	+41°	280°	+14°	1.1dB	179°K	376622 -148 Hz
2029-04-22	Sunday	14:00	250°	+36°	0 dB	0°	250°	+36°	287°	+14°	1.0dB	178°K	376506 -173 Hz
2029-04-22	Sunday	14:30	257°	+31°	0 dB	0°	257°	+31°	294°	+14°	1.0dB	177°K	376389 -194 Hz
2029-04-22	Sunday	15:00	262°	+26°	0 dB	0°	262°	+26°	302°	+14°	1.0dB	176°K	376273 -211 Hz
2029-04-22	Sunday	15:30	268°	+21°	0 dB	0°	268°	+21°	309°	+14°	1.0dB	175°K	376156 -223 Hz
2029-04-22	Sunday	16:00	273°	+16°	0 dB	0°	273°	+16°	316°	+14°	0.9dB	174°K	376040 -231 Hz
2029-04-22	Sunday	16:30	278°	+11°	0 dB	0°	278°	+11°	323°	+14°	0.9dB	174°K	375923 -234 Hz
2029-04-22	Sunday	17:00	283°	+6°	0 dB	0°	283°	+6°	331°	+14°	0.9dB	174°K	375807 -232 Hz
2029-04-22	Sunday	17:30	288°	+1°	0 dB	0°	288°	+1°	338°	+14°	0.9dB	174°K	375690 -226 Hz
2029-04-23	Monday	04:30	076°	+1°	0 dB	0°	076°	+1°	137°	+11°	0.9dB	181°K	373144 +346 Hz
2029-04-23	Monday	05:00	081°	+6°	0 dB	0°	081°	+6°	145°	+11°	0.9dB	182°K	373029 +351 Hz
2029-04-23	Monday	05:30	086°	+11°	0 dB	0°	086°	+11°	152°	+11°	0.9dB	182°K	372915 +351 Hz
2029-04-23	Monday	06:00	092°	+16°	0 dB	0°	092°	+16°	159°	+11°	0.9dB	182°K	372800 +346 Hz
2029-04-23	Monday	06:30	097°	+21°	0 dB	0°	097°	+21°	166°	+11°	0.9dB	182°K	372686 +336 Hz
2029-04-23	Monday	07:00	103°	+26°	0 dB	0°	103°	+26°	173°	+11°	0.9dB	183°K	372572 +322 Hz
2029-04-23	Monday	07:30	109°	+31°	0 dB	0°	109°	+31°	181°	+11°	0.9dB	183°K	372458 +304 Hz
2029-04-23	Monday	08:00	115°	+35°	0 dB	0°	115°	+35°	188°	+11°	0.9dB	183°K	372344 +281 Hz
2029-04-23	Monday	08:30	123°	+40°	0 dB	0°	123°	+40°	195°	+10°	0.9dB	183°K	372230 +254 Hz
2029-04-23	Monday	09:00	131°	+43°	0 dB	0°	131°	+43°	202°	+10°	0.9dB	183°K	372116 +224 Hz
2029-04-23	Monday	09:30	140°	+47°	0 dB	0°	140°	+47°	210°	+10°	0.9dB	183°K	372003 +191 Hz
2029-04-23	Monday	10:00	150°	+50°	0 dB	0°	150°	+50°	217°	+10°	0.9dB	184°K	371890 +156 Hz
2029-04-23	Monday	10:30	161°	+52°	0 dB	0°	161°	+52°	224°	+10°	0.9dB	184°K	371776 +119 Hz
2029-04-23	Monday	11:00	172°	+53°	0 dB	0°	172°	+53°	231°	+10°	0.9dB	184°K	371664 +81 Hz
2029-04-23	Monday	11:30	184°	+53°	0 dB	0°	184°	+53°	239°	+10°	0.9dB	184°K	371551 +42 Hz
2029-04-23	Monday	12:00	196°	+52°	0 dB	0°	196°	+52°	246°	+10°	0.9dB	184°K	371438 +3 Hz
2029-04-23	Monday	12:30	207°	+50°	0 dB	0°	207°	+50°	253°	+10°	0.9dB	184°K	371326 -34 Hz
2029-04-23	Monday	13:00	217°	+47°	0 dB	0°	217°	+47°	260°	+9°	0.9dB	184°K	371213 -71 Hz
2029-04-23	Monday	13:30	226°	+44°	0 dB	0°	226°	+44°	268°	+9°	0.9dB	185°K	371101 -105 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-23	Monday	14:00	234°	+40°	0 dB	0°	234°	+40°	275°	+9°	0.9dB	185°K	370989	-136 Hz
2029-04-23	Monday	14:30	242°	+35°	0 dB	0°	242°	+35°	282°	+9°	0.9dB	185°K	370878	-164 Hz
2029-04-23	Monday	15:00	248°	+31°	0 dB	0°	248°	+31°	289°	+9°	0.9dB	185°K	370766	-188 Hz
2029-04-23	Monday	15:30	254°	+26°	0 dB	0°	254°	+26°	297°	+9°	0.9dB	185°K	370655	-208 Hz
2029-04-23	Monday	16:00	260°	+21°	0 dB	0°	260°	+21°	304°	+9°	0.9dB	185°K	370544	-224 Hz
2029-04-23	Monday	16:30	265°	+16°	0 dB	0°	265°	+16°	311°	+9°	0.9dB	186°K	370433	-235 Hz
2029-04-23	Monday	17:00	270°	+10°	0 dB	0°	270°	+10°	318°	+9°	0.9dB	186°K	370322	-241 Hz
2029-04-23	Monday	17:30	276°	+5°	0 dB	0°	276°	+5°	326°	+8°	0.9dB	186°K	370212	-242 Hz
2029-04-23	Monday	18:00	281°	+0°	0 dB	0°	281°	+0°	333°	+8°	0.9dB	186°K	370101	-239 Hz
2029-04-24	Tuesday	06:00	087°	+3°	0 dB	0°	087°	+3°	147°	+5°	0.9dB	193°K	367533	+348 Hz
2029-04-24	Tuesday	06:30	092°	+8°	0 dB	0°	092°	+8°	154°	+5°	0.9dB	194°K	367430	+346 Hz
2029-04-24	Tuesday	07:00	098°	+13°	0 dB	0°	098°	+13°	161°	+5°	0.9dB	194°K	367327	+340 Hz
2029-04-24	Tuesday	07:30	103°	+18°	0 dB	0°	103°	+18°	169°	+5°	0.9dB	194°K	367224	+328 Hz
2029-04-24	Tuesday	08:00	109°	+23°	0 dB	0°	109°	+23°	176°	+5°	0.9dB	194°K	367122	+313 Hz
2029-04-24	Tuesday	08:30	115°	+28°	0 dB	0°	115°	+28°	183°	+5°	0.9dB	195°K	367020	+292 Hz
2029-04-24	Tuesday	09:00	122°	+32°	0 dB	0°	122°	+32°	190°	+5°	0.9dB	195°K	366919	+268 Hz
2029-04-24	Tuesday	09:30	129°	+36°	0 dB	0°	129°	+36°	198°	+5°	0.9dB	195°K	366817	+240 Hz
2029-04-24	Tuesday	10:00	137°	+40°	0 dB	0°	137°	+40°	205°	+4°	0.9dB	196°K	366716	+208 Hz
2029-04-24	Tuesday	10:30	146°	+43°	0 dB	0°	146°	+43°	212°	+4°	0.9dB	196°K	366616	+174 Hz
2029-04-24	Tuesday	11:00	156°	+45°	0 dB	0°	156°	+45°	219°	+4°	0.9dB	196°K	366516	+137 Hz
2029-04-24	Tuesday	11:30	166°	+46°	0 dB	0°	166°	+46°	227°	+4°	0.9dB	197°K	366416	+99 Hz
2029-04-24	Tuesday	12:00	177°	+47°	0 dB	0°	177°	+47°	234°	+4°	0.9dB	197°K	366316	+60 Hz
2029-04-24	Tuesday	12:30	187°	+47°	0 dB	0°	187°	+47°	241°	+4°	0.9dB	197°K	366217	+21 Hz
2029-04-24	Tuesday	13:00	198°	+46°	0 dB	0°	198°	+46°	248°	+4°	0.9dB	198°K	366119	-18 Hz
2029-04-24	Tuesday	13:30	208°	+43°	0 dB	0°	208°	+43°	256°	+4°	0.9dB	198°K	366020	-56 Hz
2029-04-24	Tuesday	14:00	217°	+41°	0 dB	0°	217°	+41°	263°	+3°	0.9dB	198°K	365923	-92 Hz
2029-04-24	Tuesday	14:30	225°	+37°	0 dB	0°	225°	+37°	270°	+3°	0.9dB	199°K	365825	-125 Hz
2029-04-24	Tuesday	15:00	233°	+33°	0 dB	0°	233°	+33°	277°	+3°	0.9dB	199°K	365728	-155 Hz
2029-04-24	Tuesday	15:30	239°	+29°	0 dB	0°	239°	+29°	284°	+3°	0.9dB	199°K	365631	-182 Hz
2029-04-24	Tuesday	16:00	246°	+24°	0 dB	0°	246°	+24°	292°	+3°	0.9dB	200°K	365535	-205 Hz
2029-04-24	Tuesday	16:30	252°	+20°	0 dB	0°	252°	+20°	299°	+3°	0.9dB	200°K	365439	-224 Hz
2029-04-24	Tuesday	17:00	257°	+15°	0 dB	0°	257°	+15°	306°	+3°	0.9dB	200°K	365344	-238 Hz
2029-04-24	Tuesday	17:30	263°	+10°	0 dB	0°	263°	+10°	313°	+3°	0.9dB	201°K	365249	-248 Hz
2029-04-24	Tuesday	18:00	268°	+4°	0 dB	0°	268°	+4°	321°	+2°	0.9dB	201°K	365154	-253 Hz
2029-04-25	wednesday07:00	093°	+0°	0 dB	0°	0°	093°	+0°	149°	-1°	0.9dB	209°K	362858	+336 Hz
2029-04-25	wednesday07:30	098°	+5°	0 dB	0°	0°	098°	+5°	156°	-1°	0.9dB	210°K	362776	+333 Hz
2029-04-25	wednesday08:00	104°	+10°	0 dB	0°	0°	104°	+10°	164°	-1°	0.9dB	210°K	362695	+324 Hz
2029-04-25	wednesday08:30	109°	+15°	0 dB	0°	0°	109°	+15°	171°	-1°	0.9dB	210°K	362615	+312 Hz
2029-04-25	wednesday09:00	115°	+20°	0 dB	0°	0°	115°	+20°	178°	-1°	0.9dB	211°K	362535	+294 Hz
2029-04-25	wednesday09:30	121°	+24°	0 dB	0°	0°	121°	+24°	185°	-1°	0.9dB	211°K	362455	+272 Hz
2029-04-25	wednesday10:00	128°	+28°	0 dB	0°	0°	128°	+28°	192°	-2°	0.9dB	211°K	362377	+247 Hz
2029-04-25	wednesday10:30	135°	+32°	0 dB	0°	0°	135°	+32°	200°	-2°	0.9dB	212°K	362298	+217 Hz
2029-04-25	wednesday11:00	143°	+35°	0 dB	0°	0°	143°	+35°	207°	-2°	0.9dB	212°K	362221	+185 Hz
2029-04-25	wednesday11:30	152°	+37°	0 dB	0°	0°	152°	+37°	214°	-2°	0.9dB	212°K	362144	+150 Hz
2029-04-25	wednesday12:00	161°	+39°	0 dB	0°	0°	161°	+39°	221°	-2°	0.9dB	212°K	362067	+112 Hz
2029-04-25	wednesday12:30	170°	+40°	0 dB	0°	0°	170°	+40°	229°	-2°	1.0dB	214°K	361991	+74 Hz
2029-04-25	wednesday13:00	180°	+41°	0 dB	0°	0°	180°	+41°	236°	-2°	1.0dB	215°K	361916	+35 Hz
2029-04-25	wednesday13:30	189°	+40°	0 dB	0°	0°	189°	+40°	243°	-2°	1.0dB	217°K	361841	-4 Hz
2029-04-25	wednesday14:00	199°	+39°	0 dB	0°	0°	199°	+39°	250°	-3°	1.0dB	219°K	361767	-43 Hz
2029-04-25	wednesday14:30	208°	+37°	0 dB	0°	0°	208°	+37°	258°	-3°	1.1dB	221°K	361693	-80 Hz
2029-04-25	wednesday15:00	216°	+34°	0 dB	0°	0°	216°	+34°	265°	-3°	1.1dB	223°K	361620	-115 Hz
2029-04-25	wednesday15:30	224°	+31°	0 dB	0°	0°	224°	+31°	272°	-3°	1.1dB	224°K	361548	-147 Hz
2029-04-25	wednesday16:00	231°	+27°	0 dB	0°	0°	231°	+27°	279°	-3°	1.1dB	226°K	361476	-177 Hz
2029-04-25	wednesday16:30	237°	+23°	0 dB	0°	0°	237°	+23°	287°	-3°	1.1dB	228°K	361405	-202 Hz
2029-04-25	wednesday17:00	243°	+18°	0 dB	0°	0°	243°	+18°	294°	-3°	1.2dB	230°K	361334	-224 Hz
2029-04-25	wednesday17:30	249°	+13°	0 dB	0°	0°	249°	+13°	301°	-3°	1.2dB	232°K	361264	-241 Hz
2029-04-25	wednesday18:00	255°	+9°	0 dB	0°	0°	255°	+9°	308°	-4°	1.2dB	233°K	361195	-254 Hz
2029-04-25	wednesday18:30	260°	+4°	0 dB	0°	0°	260°	+4°	316°	-4°	1.2dB	235°K	361126	-262 Hz
2029-04-26	Thursday 08:30	104°	+2°	0 dB	0°	0°	104°	+2°	158°	-7°	1.9dB	289°K	359466	+310 Hz
2029-04-26	Thursday 09:00	109°	+7°	0 dB	0°	0°	109°	+7°	165°	-7°	1.9dB	291°K	359417	+301 Hz
2029-04-26	Thursday 09:30	115°	+11°	0 dB	0°	0°	115°	+11°	173°	-8°	1.9dB	293°K	359368	+287 Hz
2029-04-26	Thursday 10:00	121°	+16°	0 dB	0°	0°	121°	+16°	180°	-8°	2.0dB	295°K	359320	+268 Hz
2029-04-26	Thursday 10:30	127°	+20°	0 dB	0°	0°	127°	+20°	187°	-8°	2.0dB	297°K	359273	+246 Hz
2029-04-26	Thursday 11:00	134°	+23°	0 dB	0°	0°	134°	+23°	194°	-8°	2.0dB	299°K	359227	+219 Hz
2029-04-26	Thursday 11:30	141°	+27°	0 dB	0°	0°	141°	+27°	201°	-8°	2.0dB	301°K	359181	+190 Hz
2029-04-26	Thursday 12:00	148°	+30°	0 dB	0°	0°	148°	+30°	209°	-8°	2.0dB	303°K	359136	+157 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-26	Thursday 12:30	156°	+32°	0 dB	0°	156°	+32°	216°	-8°	2.1dB	305°K	359092	+122 Hz
2029-04-26	Thursday 13:00	164°	+33°	0 dB	0°	164°	+33°	223°	-8°	2.1dB	307°K	359048	+85 Hz
2029-04-26	Thursday 13:30	173°	+34°	0 dB	0°	173°	+34°	230°	-9°	2.1dB	309°K	359005	+46 Hz
2029-04-26	Thursday 14:00	182°	+34°	0 dB	0°	182°	+34°	238°	-9°	2.1dB	311°K	358963	+8 Hz
2029-04-26	Thursday 14:30	191°	+34°	0 dB	0°	191°	+34°	245°	-9°	2.1dB	313°K	358922	-30 Hz
2029-04-26	Thursday 15:00	199°	+32°	0 dB	0°	199°	+32°	252°	-9°	2.1dB	313°K	358881	-68 Hz
2029-04-26	Thursday 15:30	207°	+30°	0 dB	0°	207°	+30°	259°	-9°	2.1dB	313°K	358842	-104 Hz
2029-04-26	Thursday 16:00	215°	+27°	0 dB	0°	215°	+27°	266°	-9°	2.1dB	313°K	358803	-138 Hz
2029-04-26	Thursday 16:30	222°	+24°	0 dB	0°	222°	+24°	274°	-9°	2.1dB	313°K	358764	-169 Hz
2029-04-26	Thursday 17:00	228°	+21°	0 dB	0°	228°	+21°	281°	-9°	2.1dB	313°K	358727	-197 Hz
2029-04-26	Thursday 17:30	235°	+16°	0 dB	0°	235°	+16°	288°	-10°	2.1dB	313°K	358690	-221 Hz
2029-04-26	Thursday 18:00	241°	+12°	0 dB	0°	241°	+12°	295°	-10°	2.1dB	313°K	358654	-242 Hz
2029-04-26	Thursday 18:30	246°	+8°	0 dB	0°	246°	+8°	303°	-10°	2.1dB	313°K	358619	-258 Hz
2029-04-26	Thursday 19:00	251°	+3°	0 dB	0°	251°	+3°	310°	-10°	2.1dB	313°K	358584	-269 Hz
2029-04-27	Friday 10:00	114°	+3°	0 dB	0°	114°	+3°	166°	-13°	2.0dB	308°K	357913	+272 Hz
2029-04-27	Friday 10:30	119°	+7°	0 dB	0°	119°	+7°	174°	-13°	2.0dB	307°K	357903	+257 Hz
2029-04-27	Friday 11:00	125°	+11°	0 dB	0°	125°	+11°	181°	-14°	2.0dB	307°K	357894	+239 Hz
2029-04-27	Friday 11:30	131°	+15°	0 dB	0°	131°	+15°	188°	-14°	2.0dB	307°K	357885	+216 Hz
2029-04-27	Friday 12:00	138°	+19°	0 dB	0°	138°	+19°	195°	-14°	2.0dB	306°K	357878	+190 Hz
2029-04-27	Friday 12:30	144°	+22°	0 dB	0°	144°	+22°	203°	-14°	2.0dB	306°K	357871	+160 Hz
2029-04-27	Friday 13:00	152°	+24°	0 dB	0°	152°	+24°	210°	-14°	2.0dB	306°K	357865	+128 Hz
2029-04-27	Friday 13:30	159°	+26°	0 dB	0°	159°	+26°	217°	-14°	2.0dB	305°K	357860	+93 Hz
2029-04-27	Friday 14:00	167°	+28°	0 dB	0°	167°	+28°	224°	-14°	2.0dB	305°K	357856	+57 Hz
2029-04-27	Friday 14:30	175°	+28°	0 dB	0°	175°	+28°	231°	-14°	2.0dB	305°K	357852	+20 Hz
2029-04-27	Friday 15:00	183°	+28°	0 dB	0°	183°	+28°	239°	-14°	2.0dB	304°K	357850	-18 Hz
2029-04-27	Friday 15:30	191°	+28°	0 dB	0°	191°	+28°	246°	-15°	2.0dB	304°K	357848	-55 Hz
2029-04-27	Friday 16:00	199°	+26°	0 dB	0°	199°	+26°	253°	-15°	2.0dB	305°K	357847	-91 Hz
2029-04-27	Friday 16:30	206°	+24°	0 dB	0°	206°	+24°	260°	-15°	2.0dB	306°K	357847	-126 Hz
2029-04-27	Friday 17:00	213°	+22°	0 dB	0°	213°	+22°	267°	-15°	2.0dB	307°K	357848	-159 Hz
2029-04-27	Friday 17:30	220°	+19°	0 dB	0°	220°	+19°	275°	-15°	2.0dB	308°K	357849	-188 Hz
2029-04-27	Friday 18:00	226°	+15°	0 dB	0°	226°	+15°	282°	-15°	2.0dB	309°K	357852	-215 Hz
2029-04-27	Friday 18:30	232°	+11°	0 dB	0°	232°	+11°	289°	-15°	2.1dB	310°K	357855	-238 Hz
2029-04-27	Friday 19:00	238°	+7°	0 dB	0°	238°	+7°	296°	-15°	2.1dB	311°K	357859	-257 Hz
2029-04-27	Friday 19:30	243°	+3°	0 dB	0°	243°	+3°	304°	-15°	2.1dB	311°K	357863	-272 Hz
2029-04-28	Saturday 11:30	123°	+4°	0 dB	0°	123°	+4°	174°	-19°	2.5dB	350°K	358452	+228 Hz
2029-04-28	Saturday 12:00	128°	+8°	0 dB	0°	128°	+8°	181°	-19°	2.5dB	351°K	358484	+209 Hz
2029-04-28	Saturday 12:30	134°	+11°	0 dB	0°	134°	+11°	188°	-19°	2.6dB	353°K	358517	+187 Hz
2029-04-28	Saturday 13:00	140°	+14°	0 dB	0°	140°	+14°	196°	-19°	2.6dB	354°K	358551	+161 Hz
2029-04-28	Saturday 13:30	147°	+17°	0 dB	0°	147°	+17°	203°	-19°	2.6dB	356°K	358585	+133 Hz
2029-04-28	Saturday 14:00	154°	+20°	0 dB	0°	154°	+20°	210°	-19°	2.6dB	357°K	358620	+101 Hz
2029-04-28	Saturday 14:30	161°	+22°	0 dB	0°	161°	+22°	217°	-19°	2.6dB	359°K	358656	+68 Hz
2029-04-28	Saturday 15:00	168°	+23°	0 dB	0°	168°	+23°	224°	-19°	2.7dB	360°K	358693	+33 Hz
2029-04-28	Saturday 15:30	175°	+24°	0 dB	0°	175°	+24°	232°	-19°	2.7dB	361°K	358730	-3 Hz
2029-04-28	Saturday 16:00	183°	+24°	0 dB	0°	183°	+24°	239°	-19°	2.7dB	363°K	358769	-39 Hz
2029-04-28	Saturday 16:30	190°	+23°	0 dB	0°	190°	+23°	246°	-19°	2.7dB	364°K	358808	-75 Hz
2029-04-28	Saturday 17:00	198°	+22°	0 dB	0°	198°	+22°	253°	-19°	2.7dB	365°K	358848	-110 Hz
2029-04-28	Saturday 17:30	205°	+20°	0 dB	0°	205°	+20°	260°	-20°	2.7dB	367°K	358889	-144 Hz
2029-04-28	Saturday 18:00	211°	+17°	0 dB	0°	211°	+17°	268°	-20°	2.7dB	368°K	358930	-175 Hz
2029-04-28	Saturday 18:30	218°	+14°	0 dB	0°	218°	+14°	275°	-20°	2.8dB	369°K	358973	-204 Hz
2029-04-28	Saturday 19:00	224°	+11°	0 dB	0°	224°	+11°	282°	-20°	2.8dB	371°K	359016	-230 Hz
2029-04-28	Saturday 19:30	230°	+7°	0 dB	0°	230°	+7°	289°	-20°	2.8dB	372°K	359060	-252 Hz
2029-04-28	Saturday 20:00	235°	+3°	0 dB	0°	235°	+3°	296°	-20°	2.8dB	373°K	359105	-271 Hz
2029-04-29	Sunday 12:30	125°	+0°	0 dB	0°	125°	+0°	174°	-22°	3.3dB	413°K	361011	+202 Hz
2029-04-29	Sunday 13:00	130°	+4°	0 dB	0°	130°	+4°	181°	-22°	3.3dB	415°K	361081	+185 Hz
2029-04-29	Sunday 13:30	136°	+8°	0 dB	0°	136°	+8°	188°	-22°	3.3dB	416°K	361152	+164 Hz
2029-04-29	Sunday 14:00	142°	+11°	0 dB	0°	142°	+11°	195°	-22°	3.3dB	417°K	361224	+139 Hz
2029-04-29	Sunday 14:30	148°	+14°	0 dB	0°	148°	+14°	203°	-22°	3.3dB	419°K	361296	+111 Hz
2029-04-29	Sunday 15:00	155°	+16°	0 dB	0°	155°	+16°	210°	-22°	3.4dB	422°K	361369	+81 Hz
2029-04-29	Sunday 15:30	161°	+18°	0 dB	0°	161°	+18°	217°	-23°	3.4dB	425°K	361443	+48 Hz
2029-04-29	Sunday 16:00	168°	+19°	0 dB	0°	168°	+19°	224°	-23°	3.4dB	427°K	361517	+14 Hz
2029-04-29	Sunday 16:30	175°	+20°	0 dB	0°	175°	+20°	231°	-23°	3.5dB	430°K	361593	-20 Hz
2029-04-29	Sunday 17:00	182°	+20°	0 dB	0°	182°	+20°	239°	-23°	3.5dB	433°K	361669	-56 Hz
2029-04-29	Sunday 17:30	190°	+20°	0 dB	0°	190°	+20°	246°	-23°	3.5dB	435°K	361745	-91 Hz
2029-04-29	Sunday 18:00	196°	+18°	0 dB	0°	196°	+18°	253°	-23°	3.5dB	438°K	361822	-125 Hz
2029-04-29	Sunday 18:30	203°	+17°	0 dB	0°	203°	+17°	260°	-23°	3.6dB	441°K	361900	-157 Hz
2029-04-29	Sunday 19:00	210°	+14°	0 dB	0°	210°	+14°	267°	-23°	3.6dB	443°K	361979	-188 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-04-29	Sunday	19:30	216°	+12°	0 dB	0°	216°	+12°	274°	-23°	3.6dB	446°K	362058	-216 Hz
2029-04-29	Sunday	20:00	222°	+8°	0 dB	0°	222°	+8°	282°	-23°	3.7dB	449°K	362138	-241 Hz
2029-04-29	Sunday	20:30	227°	+5°	0 dB	0°	227°	+5°	289°	-23°	3.7dB	452°K	362219	-263 Hz
2029-04-29	Sunday	21:00	233°	+1°	0 dB	0°	233°	+1°	296°	-23°	3.7dB	454°K	362300	-282 Hz
2029-04-30	Monday	14:00	131°	+2°	0 dB	0°	131°	+2°	180°	-24°	5.2dB	639°K	365427	+168 Hz
2029-04-30	Monday	14:30	137°	+6°	0 dB	0°	137°	+6°	188°	-24°	5.3dB	651°K	365529	+147 Hz
2029-04-30	Monday	15:00	142°	+9°	0 dB	0°	142°	+9°	195°	-24°	5.3dB	662°K	365632	+124 Hz
2029-04-30	Monday	15:30	148°	+12°	0 dB	0°	148°	+12°	202°	-24°	5.4dB	674°K	365735	+97 Hz
2029-04-30	Monday	16:00	155°	+14°	0 dB	0°	155°	+14°	209°	-24°	5.5dB	685°K	365838	+67 Hz
2029-04-30	Monday	16:30	161°	+16°	0 dB	0°	161°	+16°	216°	-24°	5.6dB	697°K	365942	+36 Hz
2029-04-30	Monday	17:00	168°	+18°	0 dB	0°	168°	+18°	224°	-24°	5.6dB	708°K	366047	+2 Hz
2029-04-30	Monday	17:30	175°	+18°	0 dB	0°	175°	+18°	231°	-24°	5.7dB	720°K	366152	-32 Hz
2029-04-30	Monday	18:00	182°	+19°	0 dB	0°	182°	+19°	238°	-24°	5.8dB	731°K	366257	-66 Hz
2029-04-30	Monday	18:30	189°	+18°	0 dB	0°	189°	+18°	245°	-24°	5.8dB	743°K	366363	-101 Hz
2029-04-30	Monday	19:00	196°	+17°	0 dB	0°	196°	+17°	252°	-24°	5.9dB	754°K	366469	-134 Hz
2029-04-30	Monday	19:30	202°	+15°	0 dB	0°	202°	+15°	259°	-24°	6.0dB	766°K	366576	-167 Hz
2029-04-30	Monday	20:00	209°	+13°	0 dB	0°	209°	+13°	267°	-24°	6.0dB	777°K	366684	-197 Hz
2029-04-30	Monday	20:30	215°	+11°	0 dB	0°	215°	+11°	274°	-24°	6.1dB	789°K	366792	-225 Hz
2029-04-30	Monday	21:00	221°	+7°	0 dB	0°	221°	+7°	281°	-24°	6.2dB	800°K	366900	-250 Hz
2029-04-30	Monday	21:30	226°	+4°	0 dB	0°	226°	+4°	288°	-24°	6.2dB	812°K	367009	-272 Hz
2029-04-30	Monday	22:00	232°	+0°	0 dB	0°	232°	+0°	295°	-24°	6.3dB	823°K	367118	-291 Hz
2029-05-01	Tuesday	15:00	131°	+2°	0 dB	0°	131°	+2°	180°	-24°	10.4dB	2123°K	371072	+160 Hz
2029-05-01	Tuesday	15:30	136°	+6°	0 dB	0°	136°	+6°	187°	-24°	10.5dB	2196°K	371194	+140 Hz
2029-05-01	Tuesday	16:00	142°	+9°	0 dB	0°	142°	+9°	194°	-24°	10.7dB	2269°K	371317	+116 Hz
2029-05-01	Tuesday	16:30	148°	+12°	0 dB	0°	148°	+12°	202°	-24°	10.8dB	2342°K	371440	+89 Hz
2029-05-01	Tuesday	17:00	154°	+14°	0 dB	0°	154°	+14°	209°	-24°	11.0dB	2414°K	371563	+60 Hz
2029-05-01	Tuesday	17:30	161°	+16°	0 dB	0°	161°	+16°	216°	-24°	11.1dB	2487°K	371686	+29 Hz
2029-05-01	Tuesday	18:00	168°	+18°	0 dB	0°	168°	+18°	223°	-24°	11.2dB	2559°K	371810	-4 Hz
2029-05-01	Tuesday	18:30	175°	+19°	0 dB	0°	175°	+19°	230°	-24°	11.3dB	2631°K	371934	-38 Hz
2029-05-01	Tuesday	19:00	182°	+19°	0 dB	0°	182°	+19°	238°	-24°	11.5dB	2704°K	372059	-73 Hz
2029-05-01	Tuesday	19:30	189°	+18°	0 dB	0°	189°	+18°	245°	-24°	11.6dB	2776°K	372183	-107 Hz
2029-05-01	Tuesday	20:00	195°	+17°	0 dB	0°	195°	+17°	252°	-24°	11.7dB	2848°K	372308	-141 Hz
2029-05-01	Tuesday	20:30	202°	+16°	0 dB	0°	202°	+16°	259°	-24°	11.8dB	2920°K	372433	-174 Hz
2029-05-01	Tuesday	21:00	209°	+14°	0 dB	0°	209°	+14°	266°	-24°	11.9dB	2992°K	372558	-204 Hz
2029-05-01	Tuesday	21:30	215°	+11°	0 dB	0°	215°	+11°	274°	-24°	12.0dB	3064°K	372684	-233 Hz
2029-05-01	Tuesday	22:00	221°	+8°	0 dB	0°	221°	+8°	281°	-24°	12.1dB	3136°K	372810	-258 Hz
2029-05-01	Tuesday	22:30	226°	+5°	0 dB	0°	226°	+5°	288°	-24°	12.2dB	3208°K	372935	-280 Hz
2029-05-01	Tuesday	23:00	232°	+1°	0 dB	0°	232°	+1°	295°	-24°	12.3dB	3280°K	373062	-299 Hz
2029-05-02	wednesday	15:30	125°	-0°	0 dB	0°	125°	-0°	173°	-23°	9.7dB	1660°K	377321	+176 Hz
2029-05-02	wednesday	16:00	130°	+4°	0 dB	0°	130°	+4°	180°	-23°	9.5dB	1611°K	377452	+159 Hz
2029-05-02	wednesday	16:30	136°	+7°	0 dB	0°	136°	+7°	188°	-23°	9.4dB	1562°K	377583	+139 Hz
2029-05-02	wednesday	17:00	142°	+11°	0 dB	0°	142°	+11°	195°	-23°	9.3dB	1512°K	377714	+115 Hz
2029-05-02	wednesday	17:30	148°	+14°	0 dB	0°	148°	+14°	202°	-23°	9.1dB	1463°K	377845	+88 Hz
2029-05-02	wednesday	18:00	154°	+16°	0 dB	0°	154°	+16°	209°	-23°	9.0dB	1414°K	377977	+58 Hz
2029-05-02	wednesday	18:30	161°	+18°	0 dB	0°	161°	+18°	217°	-23°	8.9dB	1365°K	378108	+26 Hz
2029-05-02	wednesday	19:00	168°	+20°	0 dB	0°	168°	+20°	224°	-22°	8.7dB	1316°K	378239	-8 Hz
2029-05-02	wednesday	19:30	175°	+20°	0 dB	0°	175°	+20°	231°	-22°	8.6dB	1268°K	378371	-43 Hz
2029-05-02	wednesday	20:00	182°	+20°	0 dB	0°	182°	+20°	238°	-22°	8.4dB	1219°K	378502	-78 Hz
2029-05-02	wednesday	20:30	189°	+20°	0 dB	0°	189°	+20°	245°	-22°	8.3dB	1170°K	378633	-113 Hz
2029-05-02	wednesday	21:00	196°	+19°	0 dB	0°	196°	+19°	253°	-22°	8.1dB	1121°K	378765	-147 Hz
2029-05-02	wednesday	21:30	203°	+17°	0 dB	0°	203°	+17°	260°	-22°	7.9dB	1073°K	378896	-180 Hz
2029-05-02	wednesday	22:00	210°	+15°	0 dB	0°	210°	+15°	267°	-22°	7.7dB	1024°K	379028	-211 Hz
2029-05-02	wednesday	22:30	216°	+12°	0 dB	0°	216°	+12°	274°	-22°	7.5dB	976°K	379159	-240 Hz
2029-05-02	wednesday	23:00	222°	+9°	0 dB	0°	222°	+9°	281°	-22°	7.3dB	928°K	379291	-265 Hz
2029-05-02	wednesday	23:30	228°	+6°	0 dB	0°	228°	+6°	289°	-22°	7.1dB	879°K	379422	-288 Hz
2029-05-03	Thursday	00:00	233°	+2°	0 dB	0°	233°	+2°	296°	-22°	7.0dB	859°K	379553	-307 Hz
2029-05-03	Thursday	16:30	124°	+3°	0 dB	0°	124°	+3°	175°	-20°	4.9dB	475°K	383860	+181 Hz
2029-05-03	Thursday	17:00	130°	+7°	0 dB	0°	130°	+7°	182°	-20°	4.8dB	470°K	383989	+163 Hz
2029-05-03	Thursday	17:30	135°	+11°	0 dB	0°	135°	+11°	189°	-20°	4.8dB	464°K	384118	+142 Hz
2029-05-03	Thursday	18:00	141°	+14°	0 dB	0°	141°	+14°	196°	-20°	4.8dB	458°K	384246	+117 Hz
2029-05-03	Thursday	18:30	148°	+17°	0 dB	0°	148°	+17°	204°	-20°	4.7dB	452°K	384375	+88 Hz
2029-05-03	Thursday	19:00	155°	+19°	0 dB	0°	155°	+19°	211°	-20°	4.7dB	447°K	384503	+57 Hz
2029-05-03	Thursday	19:30	162°	+21°	0 dB	0°	162°	+21°	218°	-20°	4.6dB	441°K	384631	+24 Hz
2029-05-03	Thursday	20:00	169°	+23°	0 dB	0°	169°	+23°	225°	-19°	4.6dB	435°K	384759	-11 Hz
2029-05-03	Thursday	20:30	176°	+23°	0 dB	0°	176°	+23°	233°	-19°	4.5dB	430°K	384886	-46 Hz
2029-05-03	Thursday	21:00	184°	+24°	0 dB	0°	184°	+24°	240°	-19°	4.5dB	424°K	385014	-83 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-03	Thursday	21:30	191°	+23°	0 dB	0°	191°	+23°	247°	-19°	4.4dB	418°K	385141	-118 Hz
2029-05-03	Thursday	22:00	199°	+22°	0 dB	0°	199°	+22°	254°	-19°	4.4dB	413°K	385268	-153 Hz
2029-05-03	Thursday	22:30	206°	+20°	0 dB	0°	206°	+20°	261°	-19°	4.4dB	407°K	385395	-187 Hz
2029-05-03	Thursday	23:00	213°	+17°	0 dB	0°	213°	+17°	269°	-19°	4.3dB	402°K	385522	-218 Hz
2029-05-03	Thursday	23:30	219°	+15°	0 dB	0°	219°	+15°	276°	-19°	4.3dB	396°K	385649	-247 Hz
2029-05-04	Friday	00:00	225°	+11°	0 dB	0°	225°	+11°	283°	-19°	4.2dB	390°K	385775	-273 Hz
2029-05-04	Friday	00:30	231°	+8°	0 dB	0°	231°	+8°	290°	-19°	4.2dB	385°K	385901	-295 Hz
2029-05-04	Friday	01:00	237°	+4°	0 dB	0°	237°	+4°	298°	-19°	4.1dB	379°K	386027	-313 Hz
2029-05-04	Friday	17:00	118°	+3°	0 dB	0°	118°	+3°	170°	-16°	3.7dB	326°K	389933	+204 Hz
2029-05-04	Friday	17:30	124°	+7°	0 dB	0°	124°	+7°	177°	-16°	3.7dB	326°K	390051	+189 Hz
2029-05-04	Friday	18:00	129°	+11°	0 dB	0°	129°	+11°	184°	-16°	3.7dB	326°K	390168	+169 Hz
2029-05-04	Friday	18:30	135°	+15°	0 dB	0°	135°	+15°	192°	-16°	3.8dB	326°K	390285	+146 Hz
2029-05-04	Friday	19:00	142°	+19°	0 dB	0°	142°	+19°	199°	-16°	3.8dB	326°K	390401	+119 Hz
2029-05-04	Friday	19:30	149°	+22°	0 dB	0°	149°	+22°	206°	-16°	3.8dB	326°K	390518	+89 Hz
2029-05-04	Friday	20:00	156°	+24°	0 dB	0°	156°	+24°	213°	-16°	3.8dB	326°K	390634	+56 Hz
2029-05-04	Friday	20:30	163°	+26°	0 dB	0°	163°	+26°	221°	-16°	3.8dB	326°K	390749	+21 Hz
2029-05-04	Friday	21:00	171°	+27°	0 dB	0°	171°	+27°	228°	-15°	3.8dB	326°K	390865	-15 Hz
2029-05-04	Friday	21:30	179°	+28°	0 dB	0°	179°	+28°	235°	-15°	3.8dB	326°K	390980	-52 Hz
2029-05-04	Friday	22:00	187°	+27°	0 dB	0°	187°	+27°	242°	-15°	3.8dB	326°K	391094	-89 Hz
2029-05-04	Friday	22:30	195°	+27°	0 dB	0°	195°	+27°	250°	-15°	3.8dB	326°K	391209	-126 Hz
2029-05-04	Friday	23:00	202°	+25°	0 dB	0°	202°	+25°	257°	-15°	3.8dB	326°K	391323	-161 Hz
2029-05-04	Friday	23:30	210°	+23°	0 dB	0°	210°	+23°	264°	-15°	3.8dB	326°K	391436	-195 Hz
2029-05-05	Saturday	00:00	217°	+20°	0 dB	0°	217°	+20°	271°	-15°	3.8dB	326°K	391550	-226 Hz
2029-05-05	Saturday	00:30	223°	+17°	0 dB	0°	223°	+17°	279°	-15°	3.8dB	326°K	391663	-254 Hz
2029-05-05	Saturday	01:00	230°	+13°	0 dB	0°	230°	+13°	286°	-15°	3.8dB	326°K	391776	-279 Hz
2029-05-05	Saturday	01:30	236°	+9°	0 dB	0°	236°	+9°	293°	-15°	3.8dB	326°K	391888	-301 Hz
2029-05-05	Saturday	02:00	241°	+5°	0 dB	0°	241°	+5°	301°	-15°	3.8dB	326°K	392000	-318 Hz
2029-05-05	Saturday	02:30	247°	+1°	0 dB	0°	247°	+1°	308°	-15°	3.8dB	326°K	392112	-331 Hz
2029-05-05	Saturday	17:30	112°	+4°	0 dB	0°	112°	+4°	166°	-12°	4.0dB	326°K	395288	+228 Hz
2029-05-05	Saturday	18:00	118°	+9°	0 dB	0°	118°	+9°	173°	-12°	4.0dB	326°K	395387	+214 Hz
2029-05-05	Saturday	18:30	124°	+13°	0 dB	0°	124°	+13°	180°	-12°	4.0dB	326°K	395487	+196 Hz
2029-05-05	Saturday	19:00	130°	+17°	0 dB	0°	130°	+17°	188°	-11°	4.0dB	326°K	395586	+174 Hz
2029-05-05	Saturday	19:30	136°	+21°	0 dB	0°	136°	+21°	195°	-11°	4.0dB	326°K	395684	+148 Hz
2029-05-05	Saturday	20:00	143°	+24°	0 dB	0°	143°	+24°	202°	-11°	4.0dB	326°K	395782	+119 Hz
2029-05-05	Saturday	20:30	150°	+27°	0 dB	0°	150°	+27°	210°	-11°	4.0dB	326°K	395880	+87 Hz
2029-05-05	Saturday	21:00	158°	+29°	0 dB	0°	158°	+29°	217°	-11°	4.0dB	326°K	395977	+52 Hz
2029-05-05	Saturday	21:30	166°	+31°	0 dB	0°	166°	+31°	224°	-11°	4.0dB	326°K	396074	+16 Hz
2029-05-05	Saturday	22:00	175°	+32°	0 dB	0°	175°	+32°	231°	-11°	4.0dB	325°K	396170	-22 Hz
2029-05-05	Saturday	22:30	183°	+32°	0 dB	0°	183°	+32°	239°	-11°	4.0dB	324°K	396266	-60 Hz
2029-05-05	Saturday	23:00	192°	+32°	0 dB	0°	192°	+32°	246°	-11°	4.0dB	323°K	396362	-98 Hz
2029-05-05	Saturday	23:30	200°	+30°	0 dB	0°	200°	+30°	253°	-11°	4.0dB	322°K	396457	-135 Hz
2029-05-06	Sunday	00:00	208°	+28°	0 dB	0°	208°	+28°	261°	-10°	4.0dB	321°K	396552	-170 Hz
2029-05-06	Sunday	00:30	215°	+26°	0 dB	0°	215°	+26°	268°	-10°	4.0dB	320°K	396646	-204 Hz
2029-05-06	Sunday	01:00	223°	+23°	0 dB	0°	223°	+23°	275°	-10°	4.0dB	319°K	396740	-234 Hz
2029-05-06	Sunday	01:30	229°	+19°	0 dB	0°	229°	+19°	282°	-10°	3.9dB	318°K	396833	-262 Hz
2029-05-06	Sunday	02:00	236°	+15°	0 dB	0°	236°	+15°	290°	-10°	3.9dB	317°K	396926	-285 Hz
2029-05-06	Sunday	02:30	242°	+11°	0 dB	0°	242°	+11°	297°	-10°	3.9dB	316°K	397019	-305 Hz
2029-05-06	Sunday	03:00	247°	+7°	0 dB	0°	247°	+7°	304°	-10°	3.9dB	315°K	397111	-320 Hz
2029-05-06	Sunday	03:30	253°	+2°	0 dB	0°	253°	+2°	311°	-10°	3.9dB	314°K	397202	-331 Hz
2029-05-06	Sunday	17:30	102°	+0°	0 dB	0°	102°	+0°	155°	-7°	3.6dB	282°K	399585	+256 Hz
2029-05-06	Sunday	18:00	107°	+5°	0 dB	0°	107°	+5°	163°	-7°	3.6dB	280°K	399664	+249 Hz
2029-05-06	Sunday	18:30	112°	+10°	0 dB	0°	112°	+10°	170°	-7°	3.6dB	279°K	399742	+237 Hz
2029-05-06	Sunday	19:00	118°	+15°	0 dB	0°	118°	+15°	177°	-7°	3.6dB	277°K	399819	+221 Hz
2029-05-06	Sunday	19:30	124°	+19°	0 dB	0°	124°	+19°	185°	-7°	3.6dB	276°K	399896	+200 Hz
2029-05-06	Sunday	20:00	131°	+23°	0 dB	0°	131°	+23°	192°	-7°	3.5dB	274°K	399973	+176 Hz
2029-05-06	Sunday	20:30	138°	+27°	0 dB	0°	138°	+27°	199°	-6°	3.5dB	272°K	400049	+147 Hz
2029-05-06	Sunday	21:00	145°	+30°	0 dB	0°	145°	+30°	206°	-6°	3.5dB	271°K	400124	+115 Hz
2029-05-06	Sunday	21:30	153°	+33°	0 dB	0°	153°	+33°	214°	-6°	3.5dB	269°K	400199	+81 Hz
2029-05-06	Sunday	22:00	161°	+35°	0 dB	0°	161°	+35°	221°	-6°	3.5dB	267°K	400274	+45 Hz
2029-05-06	Sunday	22:30	170°	+37°	0 dB	0°	170°	+37°	228°	-6°	3.5dB	266°K	400348	+7 Hz
2029-05-06	Sunday	23:00	179°	+37°	0 dB	0°	179°	+37°	236°	-6°	3.4dB	264°K	400422	-32 Hz
2029-05-06	Sunday	23:30	189°	+37°	0 dB	0°	189°	+37°	243°	-6°	3.4dB	263°K	400495	-71 Hz
2029-05-07	Monday	00:00	198°	+36°	0 dB	0°	198°	+36°	250°	-6°	3.4dB	261°K	400568	-109 Hz
2029-05-07	Monday	00:30	206°	+34°	0 dB	0°	206°	+34°	257°	-6°	3.4dB	259°K	400640	-146 Hz
2029-05-07	Monday	01:00	214°	+32°	0 dB	0°	214°	+32°	265°	-6°	3.4dB	258°K	400712	-181 Hz
2029-05-07	Monday	01:30	222°	+29°	0 dB	0°	222°	+29°	272°	-5°	3.3dB	256°K	400783	-213 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-07	Monday	02:00	229°	+25°	0 dB	0°	229°	+25°	279°	-5°	3.3dB	255°K	400854 -242 Hz
2029-05-07	Monday	02:30	236°	+21°	0 dB	0°	236°	+21°	287°	-5°	3.3dB	253°K	400924 -268 Hz
2029-05-07	Monday	03:00	242°	+17°	0 dB	0°	242°	+17°	294°	-5°	3.3dB	251°K	400994 -289 Hz
2029-05-07	Monday	03:30	248°	+12°	0 dB	0°	248°	+12°	301°	-5°	3.3dB	250°K	401064 -306 Hz
2029-05-07	Monday	04:00	254°	+8°	0 dB	0°	254°	+8°	309°	-5°	3.2dB	248°K	401132 -319 Hz
2029-05-07	Monday	04:30	259°	+3°	0 dB	0°	259°	+3°	316°	-5°	3.2dB	247°K	401201 -327 Hz
2029-05-07	Monday	18:00	096°	+2°	0 dB	0°	096°	+2°	153°	-2°	3.3dB	243°K	402866 +274 Hz
2029-05-07	Monday	18:30	101°	+7°	0 dB	0°	101°	+7°	160°	-2°	3.3dB	243°K	402920 +268 Hz
2029-05-07	Monday	19:00	107°	+12°	0 dB	0°	107°	+12°	167°	-2°	3.3dB	243°K	402975 +258 Hz
2029-05-07	Monday	19:30	113°	+17°	0 dB	0°	113°	+17°	175°	-2°	3.3dB	243°K	403029 +243 Hz
2029-05-07	Monday	20:00	119°	+22°	0 dB	0°	119°	+22°	182°	-2°	3.3dB	243°K	403082 +224 Hz
2029-05-07	Monday	20:30	125°	+26°	0 dB	0°	125°	+26°	189°	-2°	3.3dB	243°K	403135 +200 Hz
2029-05-07	Monday	21:00	132°	+30°	0 dB	0°	132°	+30°	196°	-1°	3.3dB	243°K	403188 +172 Hz
2029-05-07	Monday	21:30	140°	+34°	0 dB	0°	140°	+34°	204°	-1°	3.3dB	243°K	403239 +142 Hz
2029-05-07	Monday	22:00	148°	+37°	0 dB	0°	148°	+37°	211°	-1°	3.3dB	243°K	403291 +108 Hz
2029-05-07	Monday	22:30	157°	+40°	0 dB	0°	157°	+40°	218°	-1°	3.3dB	243°K	403342 +71 Hz
2029-05-07	Monday	23:00	166°	+41°	0 dB	0°	166°	+41°	226°	-1°	3.3dB	243°K	403392 +34 Hz
2029-05-07	Monday	23:30	176°	+42°	0 dB	0°	176°	+42°	233°	-1°	3.3dB	243°K	403443 -5 Hz
2029-05-08	Tuesday	00:00	186°	+42°	0 dB	0°	186°	+42°	240°	-1°	3.3dB	243°K	403492 -44 Hz
2029-05-08	Tuesday	00:30	196°	+41°	0 dB	0°	196°	+41°	248°	-1°	3.3dB	242°K	403541 -83 Hz
2029-05-08	Tuesday	01:00	205°	+40°	0 dB	0°	205°	+40°	255°	-1°	3.3dB	242°K	403590 -121 Hz
2029-05-08	Tuesday	01:30	214°	+37°	0 dB	0°	214°	+37°	262°	-0°	3.3dB	242°K	403638 -157 Hz
2029-05-08	Tuesday	02:00	222°	+34°	0 dB	0°	222°	+34°	269°	-0°	3.3dB	242°K	403685 -190 Hz
2029-05-08	Tuesday	02:30	230°	+31°	0 dB	0°	230°	+31°	277°	-0°	3.3dB	242°K	403733 -221 Hz
2029-05-08	Tuesday	03:00	237°	+27°	0 dB	0°	237°	+27°	284°	-0°	3.3dB	242°K	403779 -248 Hz
2029-05-08	Tuesday	03:30	243°	+22°	0 dB	0°	243°	+22°	291°	-0°	3.3dB	242°K	403825 -271 Hz
2029-05-08	Tuesday	04:00	249°	+18°	0 dB	0°	249°	+18°	299°	+0°	3.3dB	242°K	403871 -290 Hz
2029-05-08	Tuesday	04:30	255°	+13°	0 dB	0°	255°	+13°	306°	+0°	3.3dB	241°K	403916 -304 Hz
2029-05-08	Tuesday	05:00	261°	+8°	0 dB	0°	261°	+8°	313°	+0°	3.3dB	241°K	403961 -314 Hz
2029-05-08	Tuesday	05:30	266°	+3°	0 dB	0°	266°	+3°	320°	+0°	3.3dB	241°K	404005 -319 Hz
2029-05-08	Tuesday	18:30	091°	+4°	0 dB	0°	091°	+4°	150°	+3°	3.3dB	239°K	404989 +287 Hz
2029-05-08	Tuesday	19:00	096°	+9°	0 dB	0°	096°	+9°	157°	+3°	3.3dB	239°K	405021 +284 Hz
2029-05-08	Tuesday	19:30	102°	+14°	0 dB	0°	102°	+14°	165°	+3°	3.3dB	239°K	405052 +275 Hz
2029-05-08	Tuesday	20:00	107°	+19°	0 dB	0°	107°	+19°	172°	+3°	3.3dB	239°K	405082 +262 Hz
2029-05-08	Tuesday	20:30	113°	+24°	0 dB	0°	113°	+24°	179°	+3°	3.3dB	239°K	405112 +244 Hz
2029-05-08	Tuesday	21:00	119°	+29°	0 dB	0°	119°	+29°	187°	+3°	3.3dB	239°K	405142 +221 Hz
2029-05-08	Tuesday	21:30	126°	+33°	0 dB	0°	126°	+33°	194°	+4°	3.3dB	239°K	405171 +195 Hz
2029-05-08	Tuesday	22:00	134°	+37°	0 dB	0°	134°	+37°	201°	+4°	3.3dB	239°K	405200 +165 Hz
2029-05-08	Tuesday	22:30	142°	+41°	0 dB	0°	142°	+41°	209°	+4°	3.3dB	239°K	405228 +132 Hz
2029-05-08	Tuesday	23:00	151°	+44°	0 dB	0°	151°	+44°	216°	+4°	3.3dB	239°K	405256 +96 Hz
2029-05-08	Tuesday	23:30	161°	+46°	0 dB	0°	161°	+46°	223°	+4°	3.3dB	239°K	405283 +59 Hz
2029-05-09	wednesday	00:00	172°	+47°	0 dB	0°	172°	+47°	230°	+4°	3.3dB	239°K	405310 +20 Hz
2029-05-09	wednesday	00:30	182°	+47°	0 dB	0°	182°	+47°	238°	+4°	3.3dB	239°K	405336 -19 Hz
2029-05-09	wednesday	01:00	193°	+47°	0 dB	0°	193°	+47°	245°	+4°	3.3dB	239°K	405362 -58 Hz
2029-05-09	wednesday	01:30	204°	+45°	0 dB	0°	204°	+45°	252°	+4°	3.3dB	239°K	405388 -96 Hz
2029-05-09	wednesday	02:00	213°	+43°	0 dB	0°	213°	+43°	260°	+5°	3.3dB	239°K	405413 -133 Hz
2029-05-09	wednesday	02:30	222°	+40°	0 dB	0°	222°	+40°	267°	+5°	3.3dB	239°K	405437 -167 Hz
2029-05-09	wednesday	03:00	230°	+36°	0 dB	0°	230°	+36°	274°	+5°	3.3dB	239°K	405462 -199 Hz
2029-05-09	wednesday	03:30	238°	+32°	0 dB	0°	238°	+32°	281°	+5°	3.3dB	239°K	405485 -227 Hz
2029-05-09	wednesday	04:00	245°	+28°	0 dB	0°	245°	+28°	289°	+5°	3.3dB	239°K	405509 -251 Hz
2029-05-09	wednesday	04:30	251°	+23°	0 dB	0°	251°	+23°	296°	+5°	3.3dB	239°K	405531 -272 Hz
2029-05-09	wednesday	05:00	257°	+18°	0 dB	0°	257°	+18°	303°	+5°	3.3dB	239°K	405554 -288 Hz
2029-05-09	wednesday	05:30	262°	+14°	0 dB	0°	262°	+14°	311°	+5°	3.3dB	239°K	405576 -299 Hz
2029-05-09	wednesday	06:00	268°	+9°	0 dB	0°	268°	+9°	318°	+5°	3.3dB	239°K	405597 -305 Hz
2029-05-09	wednesday	06:30	273°	+4°	0 dB	0°	273°	+4°	325°	+5°	3.3dB	239°K	405618 -307 Hz
2029-05-09	wednesday	18:30	080°	+1°	0 dB	0°	080°	+1°	140°	+8°	3.6dB	255°K	405990 +295 Hz
2029-05-09	wednesday	19:00	086°	+6°	0 dB	0°	086°	+6°	148°	+8°	3.6dB	255°K	406000 +297 Hz
2029-05-09	wednesday	19:30	091°	+11°	0 dB	0°	091°	+11°	155°	+8°	3.6dB	256°K	406010 +295 Hz
2029-05-09	wednesday	20:00	096°	+16°	0 dB	0°	096°	+16°	162°	+8°	3.6dB	256°K	406019 +288 Hz
2029-05-09	wednesday	20:30	102°	+21°	0 dB	0°	102°	+21°	169°	+8°	3.6dB	257°K	406028 +277 Hz
2029-05-09	wednesday	21:00	107°	+26°	0 dB	0°	107°	+26°	177°	+8°	3.6dB	257°K	406036 +260 Hz
2029-05-09	wednesday	21:30	114°	+31°	0 dB	0°	114°	+31°	184°	+8°	3.6dB	258°K	406044 +239 Hz
2029-05-09	wednesday	22:00	120°	+36°	0 dB	0°	120°	+36°	191°	+8°	3.6dB	259°K	406052 +214 Hz
2029-05-09	wednesday	22:30	128°	+40°	0 dB	0°	128°	+40°	199°	+9°	3.6dB	259°K	406059 +186 Hz
2029-05-09	wednesday	23:00	136°	+44°	0 dB	0°	136°	+44°	206°	+9°	3.6dB	260°K	406066 +154 Hz
2029-05-09	wednesday	23:30	145°	+47°	0 dB	0°	145°	+47°	213°	+9°	3.6dB	260°K	406072 +119 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-10	Thursday 00:00	156°	+50°	0 dB	0°	156°	+50°	221°	+9°	3.6dB	261°K	406078	+83 Hz
2029-05-10	Thursday 00:30	167°	+52°	0 dB	0°	167°	+52°	228°	+9°	3.6dB	261°K	406084	+45 Hz
2029-05-10	Thursday 01:00	178°	+52°	0 dB	0°	178°	+52°	235°	+9°	3.7dB	262°K	406089	+6 Hz
2029-05-10	Thursday 01:30	190°	+52°	0 dB	0°	190°	+52°	242°	+9°	3.7dB	262°K	406094	-33 Hz
2029-05-10	Thursday 02:00	202°	+51°	0 dB	0°	202°	+51°	250°	+9°	3.7dB	263°K	406098	-71 Hz
2029-05-10	Thursday 02:30	212°	+48°	0 dB	0°	212°	+48°	257°	+9°	3.7dB	263°K	406102	-108 Hz
2029-05-10	Thursday 03:00	222°	+45°	0 dB	0°	222°	+45°	264°	+9°	3.7dB	264°K	406105	-143 Hz
2029-05-10	Thursday 03:30	231°	+42°	0 dB	0°	231°	+42°	272°	+9°	3.7dB	264°K	406108	-175 Hz
2029-05-10	Thursday 04:00	239°	+38°	0 dB	0°	239°	+38°	279°	+10°	3.7dB	265°K	406111	-205 Hz
2029-05-10	Thursday 04:30	246°	+33°	0 dB	0°	246°	+33°	286°	+10°	3.7dB	265°K	406113	-230 Hz
2029-05-10	Thursday 05:00	252°	+29°	0 dB	0°	252°	+29°	293°	+10°	3.7dB	266°K	406115	-252 Hz
2029-05-10	Thursday 05:30	258°	+24°	0 dB	0°	258°	+24°	301°	+10°	3.7dB	267°K	406117	-269 Hz
2029-05-10	Thursday 06:00	264°	+19°	0 dB	0°	264°	+19°	308°	+10°	3.7dB	267°K	406118	-282 Hz
2029-05-10	Thursday 06:30	269°	+14°	0 dB	0°	269°	+14°	315°	+10°	3.7dB	268°K	406119	-290 Hz
2029-05-10	Thursday 07:00	275°	+9°	0 dB	0°	275°	+9°	323°	+10°	3.7dB	268°K	406119	-293 Hz
2029-05-10	Thursday 07:30	280°	+4°	0 dB	0°	280°	+4°	330°	+10°	3.7dB	269°K	406119	-291 Hz
2029-05-10	Thursday 19:00	075°	+2°	0 dB	0°	075°	+2°	137°	+12°	3.9dB	281°K	406011	+299 Hz
2029-05-10	Thursday 19:30	080°	+7°	0 dB	0°	080°	+7°	145°	+12°	3.9dB	282°K	406001	+303 Hz
2029-05-10	Thursday 20:00	085°	+12°	0 dB	0°	085°	+12°	152°	+13°	3.9dB	282°K	405992	+303 Hz
2029-05-10	Thursday 20:30	091°	+17°	0 dB	0°	091°	+17°	159°	+13°	3.9dB	283°K	405982	+298 Hz
2029-05-10	Thursday 21:00	096°	+23°	0 dB	0°	096°	+23°	167°	+13°	3.9dB	283°K	405972	+288 Hz
2029-05-10	Thursday 21:30	102°	+28°	0 dB	0°	102°	+28°	174°	+13°	3.9dB	284°K	405961	+273 Hz
2029-05-10	Thursday 22:00	107°	+33°	0 dB	0°	107°	+33°	181°	+13°	3.9dB	284°K	405950	+254 Hz
2029-05-10	Thursday 22:30	114°	+37°	0 dB	0°	114°	+37°	188°	+13°	3.9dB	285°K	405939	+231 Hz
2029-05-10	Thursday 23:00	121°	+42°	0 dB	0°	121°	+42°	196°	+13°	3.9dB	285°K	405927	+204 Hz
2029-05-10	Thursday 23:30	129°	+46°	0 dB	0°	129°	+46°	203°	+13°	4.0dB	286°K	405915	+174 Hz
2029-05-11	Friday 00:00	138°	+50°	0 dB	0°	138°	+50°	210°	+13°	4.0dB	287°K	405903	+141 Hz
2029-05-11	Friday 00:30	149°	+53°	0 dB	0°	149°	+53°	218°	+13°	4.0dB	287°K	405890	+106 Hz
2029-05-11	Friday 01:00	160°	+55°	0 dB	0°	160°	+55°	225°	+13°	4.0dB	288°K	405877	+69 Hz
2029-05-11	Friday 01:30	173°	+57°	0 dB	0°	173°	+57°	232°	+13°	4.0dB	288°K	405863	+31 Hz
2029-05-11	Friday 02:00	186°	+57°	0 dB	0°	186°	+57°	239°	+14°	4.0dB	289°K	405849	-8 Hz
2029-05-11	Friday 02:30	199°	+56°	0 dB	0°	199°	+56°	247°	+14°	4.0dB	289°K	405835	-46 Hz
2029-05-11	Friday 03:00	211°	+54°	0 dB	0°	211°	+54°	254°	+14°	4.0dB	290°K	405821	-83 Hz
2029-05-11	Friday 03:30	222°	+51°	0 dB	0°	222°	+51°	261°	+14°	4.0dB	290°K	405806	-118 Hz
2029-05-11	Friday 04:00	231°	+47°	0 dB	0°	231°	+47°	269°	+14°	4.0dB	291°K	405791	-151 Hz
2029-05-11	Friday 04:30	239°	+43°	0 dB	0°	239°	+43°	276°	+14°	4.0dB	292°K	405775	-181 Hz
2029-05-11	Friday 05:00	247°	+39°	0 dB	0°	247°	+39°	283°	+14°	4.0dB	292°K	405759	-208 Hz
2029-05-11	Friday 05:30	253°	+34°	0 dB	0°	253°	+34°	290°	+14°	4.0dB	293°K	405743	-231 Hz
2029-05-11	Friday 06:00	259°	+29°	0 dB	0°	259°	+29°	298°	+14°	4.0dB	293°K	405726	-249 Hz
2029-05-11	Friday 06:30	265°	+24°	0 dB	0°	265°	+24°	305°	+14°	4.0dB	294°K	405709	-264 Hz
2029-05-11	Friday 07:00	270°	+19°	0 dB	0°	270°	+19°	312°	+14°	4.0dB	294°K	405692	-274 Hz
2029-05-11	Friday 07:30	276°	+14°	0 dB	0°	276°	+14°	320°	+15°	4.1dB	295°K	405675	-279 Hz
2029-05-11	Friday 08:00	281°	+9°	0 dB	0°	281°	+9°	327°	+15°	4.1dB	295°K	405657	-279 Hz
2029-05-11	Friday 08:30	286°	+4°	0 dB	0°	286°	+4°	334°	+15°	4.1dB	296°K	405639	-274 Hz
2029-05-11	Friday 19:30	070°	+3°	0 dB	0°	070°	+3°	134°	+16°	4.1dB	302°K	405156	+299 Hz
2029-05-11	Friday 20:00	075°	+8°	0 dB	0°	075°	+8°	141°	+17°	4.1dB	302°K	405130	+305 Hz
2029-05-11	Friday 20:30	080°	+13°	0 dB	0°	080°	+13°	149°	+17°	4.1dB	302°K	405104	+307 Hz
2029-05-11	Friday 21:00	085°	+18°	0 dB	0°	085°	+18°	156°	+17°	4.1dB	303°K	405078	+304 Hz
2029-05-11	Friday 21:30	090°	+23°	0 dB	0°	090°	+23°	163°	+17°	4.1dB	303°K	405052	+296 Hz
2029-05-11	Friday 22:00	096°	+28°	0 dB	0°	096°	+28°	171°	+17°	4.1dB	303°K	405025	+284 Hz
2029-05-11	Friday 22:30	101°	+33°	0 dB	0°	101°	+33°	178°	+17°	4.1dB	304°K	404998	+267 Hz
2029-05-11	Friday 23:00	107°	+38°	0 dB	0°	107°	+38°	185°	+17°	4.1dB	304°K	404971	+246 Hz
2029-05-11	Friday 23:30	114°	+43°	0 dB	0°	114°	+43°	192°	+17°	4.1dB	305°K	404943	+221 Hz
2029-05-12	Saturday 00:00	122°	+48°	0 dB	0°	122°	+48°	200°	+17°	4.2dB	306°K	404915	+193 Hz
2029-05-12	Saturday 00:30	131°	+52°	0 dB	0°	131°	+52°	207°	+17°	4.2dB	308°K	404887	+162 Hz
2029-05-12	Saturday 01:00	141°	+55°	0 dB	0°	141°	+55°	214°	+17°	4.2dB	309°K	404858	+128 Hz
2029-05-12	Saturday 01:30	152°	+58°	0 dB	0°	152°	+58°	222°	+17°	4.2dB	310°K	404830	+92 Hz
2029-05-12	Saturday 02:00	166°	+60°	0 dB	0°	166°	+60°	229°	+17°	4.2dB	312°K	404801	+55 Hz
2029-05-12	Saturday 02:30	180°	+61°	0 dB	0°	180°	+61°	236°	+18°	4.2dB	313°K	404771	+18 Hz
2029-05-12	Saturday 03:00	194°	+60°	0 dB	0°	194°	+60°	243°	+18°	4.3dB	315°K	404741	-20 Hz
2029-05-12	Saturday 03:30	208°	+59°	0 dB	0°	208°	+59°	251°	+18°	4.3dB	316°K	404712	-56 Hz
2029-05-12	Saturday 04:00	220°	+56°	0 dB	0°	220°	+56°	258°	+18°	4.3dB	318°K	404681	-92 Hz
2029-05-12	Saturday 04:30	230°	+52°	0 dB	0°	230°	+52°	265°	+18°	4.3dB	319°K	404651	-125 Hz
2029-05-12	Saturday 05:00	239°	+48°	0 dB	0°	239°	+48°	272°	+18°	4.3dB	320°K	404620	-156 Hz
2029-05-12	Saturday 05:30	247°	+44°	0 dB	0°	247°	+44°	280°	+18°	4.3dB	322°K	404589	-184 Hz
2029-05-12	Saturday 06:00	254°	+39°	0 dB	0°	254°	+39°	287°	+18°	4.3dB	323°K	404558	-208 Hz

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Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-12	Saturday	06:30	260°	+34°	0 dB	0°	260°	+34°	294°	+18°	4.4dB	325°K	404526 -229 Hz
2029-05-12	Saturday	07:00	265°	+29°	0 dB	0°	265°	+29°	301°	+18°	4.4dB	326°K	404494 -245 Hz
2029-05-12	Saturday	07:30	271°	+24°	0 dB	0°	271°	+24°	309°	+18°	4.4dB	328°K	404462 -257 Hz
2029-05-12	Saturday	08:00	276°	+19°	0 dB	0°	276°	+19°	316°	+18°	4.4dB	329°K	404429 -264 Hz
2029-05-12	Saturday	08:30	281°	+14°	0 dB	0°	281°	+14°	323°	+18°	4.4dB	331°K	404397 -266 Hz
2029-05-12	Saturday	09:00	286°	+9°	0 dB	0°	286°	+9°	331°	+18°	4.4dB	332°K	404364 -264 Hz
2029-05-12	Saturday	09:30	291°	+5°	0 dB	0°	291°	+5°	338°	+19°	4.5dB	334°K	404330 -258 Hz
2029-05-12	Saturday	10:00	296°	+0°	0 dB	0°	296°	+0°	345°	+19°	4.5dB	335°K	404297 -247 Hz
2029-05-12	Saturday	20:00	065°	+3°	0 dB	0°	065°	+3°	130°	+20°	4.7dB	356°K	403570 +295 Hz
2029-05-12	Saturday	20:30	070°	+8°	0 dB	0°	070°	+8°	138°	+20°	4.7dB	357°K	403531 +303 Hz
2029-05-12	Saturday	21:00	075°	+13°	0 dB	0°	075°	+13°	145°	+20°	4.7dB	358°K	403492 +307 Hz
2029-05-12	Saturday	21:30	080°	+18°	0 dB	0°	080°	+18°	152°	+20°	4.7dB	358°K	403453 +307 Hz
2029-05-12	Saturday	22:00	085°	+23°	0 dB	0°	085°	+23°	159°	+20°	4.7dB	359°K	403413 +301 Hz
2029-05-12	Saturday	22:30	090°	+28°	0 dB	0°	090°	+28°	167°	+20°	4.7dB	360°K	403373 +292 Hz
2029-05-12	Saturday	23:00	095°	+33°	0 dB	0°	095°	+33°	174°	+20°	4.7dB	361°K	403333 +278 Hz
2029-05-12	Saturday	23:30	101°	+38°	0 dB	0°	101°	+38°	181°	+20°	4.7dB	SUN!	403292 +259 Hz
2029-05-13	Sunday	00:00	107°	+43°	0 dB	0°	107°	+43°	189°	+20°	4.7dB	SUN!	403252 +237 Hz
2029-05-13	Sunday	00:30	114°	+48°	0 dB	0°	114°	+48°	196°	+20°	4.7dB	SUN!	403211 +211 Hz
2029-05-13	Sunday	01:00	122°	+52°	0 dB	0°	122°	+52°	203°	+21°	4.7dB	SUN!	403170 +182 Hz
2029-05-13	Sunday	01:30	132°	+56°	0 dB	0°	132°	+56°	210°	+21°	4.7dB	SUN!	403128 +150 Hz
2029-05-13	Sunday	02:00	143°	+60°	0 dB	0°	143°	+60°	218°	+21°	4.7dB	SUN!	403087 +116 Hz
2029-05-13	Sunday	02:30	156°	+62°	0 dB	0°	156°	+62°	225°	+21°	4.7dB	SUN!	403045 +81 Hz
2029-05-13	Sunday	03:00	171°	+64°	0 dB	0°	171°	+64°	232°	+21°	4.7dB	SUN!	403003 +44 Hz
2029-05-13	Sunday	03:30	187°	+64°	0 dB	0°	187°	+64°	239°	+21°	4.7dB	SUN!	402960 +7 Hz
2029-05-13	Sunday	04:00	202°	+63°	0 dB	0°	202°	+63°	247°	+21°	4.8dB	SUN!	402918 -29 Hz
2029-05-13	Sunday	04:30	216°	+60°	0 dB	0°	216°	+60°	254°	+21°	4.8dB	SUN!	402875 -64 Hz
2029-05-13	Sunday	05:00	228°	+57°	0 dB	0°	228°	+57°	261°	+21°	4.8dB	SUN!	402832 -98 Hz
2029-05-13	Sunday	05:30	237°	+53°	0 dB	0°	237°	+53°	268°	+21°	4.7dB	SUN!	402788 -130 Hz
2029-05-13	Sunday	06:00	246°	+49°	0 dB	0°	246°	+49°	276°	+21°	4.7dB	SUN!	402745 -159 Hz
2029-05-13	Sunday	06:30	253°	+44°	0 dB	0°	253°	+44°	283°	+21°	4.7dB	SUN!	402701 -185 Hz
2029-05-13	Sunday	07:00	259°	+39°	0 dB	0°	259°	+39°	290°	+21°	4.7dB	SUN!	402657 -207 Hz
2029-05-13	Sunday	07:30	265°	+34°	0 dB	0°	265°	+34°	297°	+21°	4.7dB	SUN!	402613 -225 Hz
2029-05-13	Sunday	08:00	270°	+29°	0 dB	0°	270°	+29°	305°	+21°	4.7dB	SUN!	402569 -239 Hz
2029-05-13	Sunday	08:30	276°	+24°	0 dB	0°	276°	+24°	312°	+21°	4.7dB	SUN!	402524 -249 Hz
2029-05-13	Sunday	09:00	281°	+19°	0 dB	0°	281°	+19°	319°	+21°	4.7dB	SUN!	402479 -254 Hz
2029-05-13	Sunday	09:30	285°	+14°	0 dB	0°	285°	+14°	326°	+21°	4.7dB	SUN!	402434 -255 Hz
2029-05-13	Sunday	10:00	290°	+9°	0 dB	0°	290°	+9°	334°	+22°	4.7dB	SUN!	402389 -251 Hz
2029-05-13	Sunday	10:30	295°	+5°	0 dB	0°	295°	+5°	341°	+22°	4.6dB	SUN!	402343 -243 Hz
2029-05-13	Sunday	11:00	301°	+0°	0 dB	0°	301°	+0°	348°	+22°	4.6dB	SUN!	402297 -230 Hz
2029-05-13	Sunday	20:30	060°	+2°	0 dB	0°	060°	+2°	126°	+23°	4.5dB	SUN!	401387 +288 Hz
2029-05-13	Sunday	21:00	065°	+7°	0 dB	0°	065°	+7°	133°	+23°	4.5dB	SUN!	401337 +299 Hz
2029-05-13	Sunday	21:30	070°	+12°	0 dB	0°	070°	+12°	141°	+23°	4.5dB	SUN!	401287 +305 Hz
2029-05-13	Sunday	22:00	075°	+16°	0 dB	0°	075°	+16°	148°	+23°	4.5dB	SUN!	401237 +308 Hz
2029-05-13	Sunday	22:30	080°	+21°	0 dB	0°	080°	+21°	155°	+23°	4.5dB	SUN!	401186 +305 Hz
2029-05-13	Sunday	23:00	085°	+26°	0 dB	0°	085°	+26°	162°	+23°	4.5dB	SUN!	401135 +298 Hz
2029-05-13	Sunday	23:30	090°	+31°	0 dB	0°	090°	+31°	170°	+23°	4.5dB	SUN!	401084 +287 Hz
2029-05-14	Monday	00:00	095°	+37°	0 dB	0°	095°	+37°	177°	+23°	4.5dB	SUN!	401033 +272 Hz
2029-05-14	Monday	00:30	101°	+42°	0 dB	0°	101°	+42°	184°	+23°	4.5dB	SUN!	400982 +252 Hz
2029-05-14	Monday	01:00	107°	+47°	0 dB	0°	107°	+47°	191°	+23°	4.6dB	SUN!	400930 +229 Hz
2029-05-14	Monday	01:30	115°	+51°	0 dB	0°	115°	+51°	199°	+23°	4.6dB	SUN!	400878 +202 Hz
2029-05-14	Monday	02:00	123°	+56°	0 dB	0°	123°	+56°	206°	+23°	4.6dB	SUN!	400826 +173 Hz
2029-05-14	Monday	02:30	133°	+60°	0 dB	0°	133°	+60°	213°	+23°	4.6dB	SUN!	400774 +141 Hz
2029-05-14	Monday	03:00	146°	+63°	0 dB	0°	146°	+63°	220°	+23°	4.6dB	SUN!	400722 +107 Hz
2029-05-14	Monday	03:30	160°	+65°	0 dB	0°	160°	+65°	227°	+23°	4.6dB	SUN!	400669 +72 Hz
2029-05-14	Monday	04:00	177°	+67°	0 dB	0°	177°	+67°	235°	+23°	4.6dB	SUN!	400617 +36 Hz
2029-05-14	Monday	04:30	194°	+66°	0 dB	0°	194°	+66°	242°	+23°	4.6dB	SUN!	400564 -1 Hz
2029-05-14	Monday	05:00	209°	+64°	0 dB	0°	209°	+64°	249°	+23°	4.6dB	SUN!	400510 -36 Hz
2029-05-14	Monday	05:30	223°	+61°	0 dB	0°	223°	+61°	256°	+23°	4.6dB	SUN!	400457 -70 Hz
2029-05-14	Monday	06:00	234°	+58°	0 dB	0°	234°	+58°	264°	+23°	4.6dB	SUN!	400404 -103 Hz
2029-05-14	Monday	06:30	243°	+53°	0 dB	0°	243°	+53°	271°	+23°	4.6dB	SUN!	400350 -133 Hz
2029-05-14	Monday	07:00	251°	+49°	0 dB	0°	251°	+49°	278°	+23°	4.6dB	SUN!	400296 -161 Hz
2029-05-14	Monday	07:30	257°	+44°	0 dB	0°	257°	+44°	285°	+23°	4.6dB	SUN!	400242 -185 Hz
2029-05-14	Monday	08:00	263°	+39°	0 dB	0°	263°	+39°	293°	+23°	4.6dB	368°K	400187 -206 Hz
2029-05-14	Monday	08:30	269°	+34°	0 dB	0°	269°	+34°	300°	+23°	4.6dB	369°K	400133 -222 Hz
2029-05-14	Monday	09:00	274°	+29°	0 dB	0°	274°	+29°	307°	+23°	4.7dB	370°K	400078 -235 Hz
2029-05-14	Monday	09:30	279°	+24°	0 dB	0°	279°	+24°	314°	+23°	4.7dB	371°K	400023 -243 Hz

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Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-14	Monday	10:00	284°	+19°	0 dB	0°	284°	+19°	322°	+24°	4.7dB	372°K	399968	-246 Hz
2029-05-14	Monday	10:30	289°	+14°	0 dB	0°	289°	+14°	329°	+24°	4.7dB	373°K	399913	-245 Hz
2029-05-14	Monday	11:00	294°	+9°	0 dB	0°	294°	+9°	336°	+24°	4.7dB	374°K	399858	-240 Hz
2029-05-14	Monday	11:30	298°	+5°	0 dB	0°	298°	+5°	343°	+24°	4.7dB	376°K	399802	-231 Hz
2029-05-14	Monday	12:00	304°	+1°	0 dB	0°	304°	+1°	351°	+24°	4.7dB	377°K	399746	-217 Hz
2029-05-14	Monday	21:00	056°	+1°	0 dB	0°	056°	+1°	121°	+24°	4.9dB	397°K	398711	+279 Hz
2029-05-14	Monday	21:30	061°	+5°	0 dB	0°	061°	+5°	128°	+24°	4.9dB	398°K	398652	+293 Hz
2029-05-14	Monday	22:00	066°	+9°	0 dB	0°	066°	+9°	136°	+24°	4.9dB	399°K	398593	+302 Hz
2029-05-14	Monday	22:30	071°	+14°	0 dB	0°	071°	+14°	143°	+24°	4.9dB	401°K	398533	+307 Hz
2029-05-14	Monday	23:00	075°	+19°	0 dB	0°	075°	+19°	150°	+24°	4.9dB	402°K	398473	+308 Hz
2029-05-14	Monday	23:30	080°	+24°	0 dB	0°	080°	+24°	157°	+24°	4.9dB	403°K	398414	+305 Hz
2029-05-15	Tuesday	00:00	085°	+29°	0 dB	0°	085°	+29°	164°	+24°	4.9dB	404°K	398354	+297 Hz
2029-05-15	Tuesday	00:30	090°	+34°	0 dB	0°	090°	+34°	172°	+24°	4.9dB	406°K	398293	+284 Hz
2029-05-15	Tuesday	01:00	096°	+39°	0 dB	0°	096°	+39°	179°	+24°	4.9dB	407°K	398233	+268 Hz
2029-05-15	Tuesday	01:30	101°	+44°	0 dB	0°	101°	+44°	186°	+24°	4.9dB	408°K	398172	+247 Hz
2029-05-15	Tuesday	02:00	108°	+49°	0 dB	0°	108°	+49°	193°	+24°	5.0dB	410°K	398112	+223 Hz
2029-05-15	Tuesday	02:30	116°	+54°	0 dB	0°	116°	+54°	201°	+24°	5.0dB	411°K	398051	+196 Hz
2029-05-15	Tuesday	03:00	125°	+58°	0 dB	0°	125°	+58°	208°	+24°	5.0dB	412°K	397990	+166 Hz
2029-05-15	Tuesday	03:30	135°	+62°	0 dB	0°	135°	+62°	215°	+24°	5.0dB	414°K	397928	+134 Hz
2029-05-15	Tuesday	04:00	149°	+65°	0 dB	0°	149°	+65°	222°	+24°	5.0dB	415°K	397867	+100 Hz
2029-05-15	Tuesday	04:30	165°	+67°	0 dB	0°	165°	+67°	230°	+24°	5.0dB	416°K	397805	+65 Hz
2029-05-15	Tuesday	05:00	182°	+68°	0 dB	0°	182°	+68°	237°	+24°	5.0dB	417°K	397744	+29 Hz
2029-05-15	Tuesday	05:30	199°	+67°	0 dB	0°	199°	+67°	244°	+24°	5.0dB	419°K	397682	-7 Hz
2029-05-15	Tuesday	06:00	215°	+65°	0 dB	0°	215°	+65°	251°	+24°	5.0dB	420°K	397620	-41 Hz
2029-05-15	Tuesday	06:30	227°	+61°	0 dB	0°	227°	+61°	259°	+24°	5.0dB	421°K	397557	-75 Hz
2029-05-15	Tuesday	07:00	238°	+57°	0 dB	0°	238°	+57°	266°	+24°	5.0dB	423°K	397495	-107 Hz
2029-05-15	Tuesday	07:30	246°	+53°	0 dB	0°	246°	+53°	273°	+24°	5.0dB	424°K	397432	-136 Hz
2029-05-15	Tuesday	08:00	254°	+48°	0 dB	0°	254°	+48°	280°	+24°	5.1dB	425°K	397370	-162 Hz
2029-05-15	Tuesday	08:30	260°	+43°	0 dB	0°	260°	+43°	288°	+24°	5.1dB	427°K	397307	-186 Hz
2029-05-15	Tuesday	09:00	266°	+38°	0 dB	0°	266°	+38°	295°	+24°	5.1dB	428°K	397244	-205 Hz
2029-05-15	Tuesday	09:30	271°	+33°	0 dB	0°	271°	+33°	302°	+24°	5.1dB	429°K	397180	-220 Hz
2029-05-15	Tuesday	10:00	276°	+28°	0 dB	0°	276°	+28°	309°	+24°	5.1dB	431°K	397117	-232 Hz
2029-05-15	Tuesday	10:30	281°	+23°	0 dB	0°	281°	+23°	316°	+24°	5.1dB	432°K	397054	-238 Hz
2029-05-15	Tuesday	11:00	286°	+18°	0 dB	0°	286°	+18°	324°	+24°	5.1dB	433°K	396990	-241 Hz
2029-05-15	Tuesday	11:30	291°	+13°	0 dB	0°	291°	+13°	331°	+24°	5.1dB	435°K	396926	-239 Hz
2029-05-15	Tuesday	12:00	295°	+9°	0 dB	0°	295°	+9°	338°	+24°	5.1dB	437°K	396862	-233 Hz
2029-05-15	Tuesday	12:30	300°	+4°	0 dB	0°	300°	+4°	345°	+24°	5.2dB	439°K	396798	-222 Hz
2029-05-15	Tuesday	13:00	306°	-0°	0 dB	0°	306°	-0°	353°	+24°	5.2dB	442°K	396733	-208 Hz
2029-05-15	Tuesday	22:00	057°	+2°	0 dB	0°	057°	+2°	123°	+24°	5.5dB	487°K	395547	+285 Hz
2029-05-15	Tuesday	22:30	062°	+6°	0 dB	0°	062°	+6°	130°	+24°	5.5dB	489°K	395480	+298 Hz
2029-05-15	Tuesday	23:00	067°	+11°	0 dB	0°	067°	+11°	137°	+24°	5.5dB	491°K	395412	+306 Hz
2029-05-15	Tuesday	23:30	072°	+16°	0 dB	0°	072°	+16°	145°	+24°	5.5dB	494°K	395344	+311 Hz
2029-05-16	wednesday00:00	076°	+20°	0 dB	0°	076°	+20°	152°	+24°	5.6dB	496°K	395277	+310 Hz	
2029-05-16	wednesday00:30	081°	+25°	0 dB	0°	081°	+25°	159°	+24°	5.6dB	499°K	395209	+306 Hz	
2029-05-16	wednesday01:00	086°	+30°	0 dB	0°	086°	+30°	166°	+24°	5.6dB	500°K	395140	+297 Hz	
2029-05-16	wednesday01:30	091°	+35°	0 dB	0°	091°	+35°	174°	+24°	5.6dB	500°K	395072	+284 Hz	
2029-05-16	wednesday02:00	097°	+40°	0 dB	0°	097°	+40°	181°	+24°	5.6dB	500°K	395004	+266 Hz	
2029-05-16	wednesday02:30	103°	+45°	0 dB	0°	103°	+45°	188°	+24°	5.6dB	500°K	394935	+245 Hz	
2029-05-16	wednesday03:00	110°	+50°	0 dB	0°	110°	+50°	195°	+24°	5.6dB	500°K	394866	+220 Hz	
2029-05-16	wednesday03:30	118°	+55°	0 dB	0°	118°	+55°	203°	+24°	5.6dB	500°K	394797	+192 Hz	
2029-05-16	wednesday04:00	127°	+59°	0 dB	0°	127°	+59°	210°	+24°	5.6dB	500°K	394728	+162 Hz	
2029-05-16	wednesday04:30	139°	+63°	0 dB	0°	139°	+63°	217°	+24°	5.6dB	500°K	394659	+129 Hz	
2029-05-16	wednesday05:00	153°	+66°	0 dB	0°	153°	+66°	224°	+24°	5.6dB	500°K	394589	+95 Hz	
2029-05-16	wednesday05:30	169°	+67°	0 dB	0°	169°	+67°	231°	+24°	5.6dB	500°K	394520	+59 Hz	
2029-05-16	wednesday06:00	186°	+68°	0 dB	0°	186°	+68°	239°	+24°	5.6dB	500°K	394450	+24 Hz	
2029-05-16	wednesday06:30	203°	+66°	0 dB	0°	203°	+66°	246°	+24°	5.5dB	500°K	394380	-12 Hz	
2029-05-16	wednesday07:00	218°	+64°	0 dB	0°	218°	+64°	253°	+24°	5.5dB	500°K	394310	-46 Hz	
2029-05-16	wednesday07:30	230°	+60°	0 dB	0°	230°	+60°	260°	+24°	5.5dB	500°K	394240	-80 Hz	
2029-05-16	wednesday08:00	240°	+56°	0 dB	0°	240°	+56°	268°	+24°	5.5dB	500°K	394170	-111 Hz	
2029-05-16	wednesday08:30	248°	+51°	0 dB	0°	248°	+51°	275°	+24°	5.5dB	500°K	394099	-140 Hz	
2029-05-16	wednesday09:00	255°	+47°	0 dB	0°	255°	+47°	282°	+24°	5.5dB	500°K	394029	-165 Hz	
2029-05-16	wednesday09:30	261°	+42°	0 dB	0°	261°	+42°	289°	+24°	5.5dB	500°K	393958	-188 Hz	
2029-05-16	wednesday10:00	267°	+37°	0 dB	0°	267°	+37°	297°	+24°	5.5dB	500°K	393887	-206 Hz	
2029-05-16	wednesday10:30	272°	+31°	0 dB	0°	272°	+31°	304°	+24°	5.5dB	500°K	393816	-221 Hz	
2029-05-16	wednesday11:00	277°	+26°	0 dB	0°	277°	+26°	311°	+24°	5.5dB	500°K	393745	-231 Hz	
2029-05-16	wednesday11:30	282°	+21°	0 dB	0°	282°	+21°	318°	+24°	5.5dB	500°K	393674	-237 Hz	

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-16	wednesday12:00	287°	+17°	0 dB	0°	287°	+17°	326°	+24°	5.5dB	500°K	393602	-238 Hz
2029-05-16	wednesday12:30	292°	+12°	0 dB	0°	292°	+12°	333°	+24°	5.5dB	500°K	393530	-236 Hz
2029-05-16	wednesday13:00	296°	+7°	0 dB	0°	296°	+7°	340°	+24°	5.5dB	500°K	393459	-228 Hz
2029-05-16	wednesday13:30	301°	+3°	0 dB	0°	301°	+3°	347°	+24°	5.5dB	500°K	393387	-217 Hz
2029-05-16	wednesday23:00	059°	+2°	0 dB	0°	059°	+2°	125°	+23°	4.9dB	439°K	391992	+293 Hz
2029-05-16	wednesday23:30	064°	+7°	0 dB	0°	064°	+7°	132°	+23°	4.9dB	435°K	391917	+305 Hz
2029-05-17	Thursday 00:00	069°	+11°	0 dB	0°	069°	+11°	139°	+23°	4.9dB	432°K	391842	+313 Hz
2029-05-17	Thursday 00:30	074°	+16°	0 dB	0°	074°	+16°	146°	+23°	4.8dB	429°K	391766	+316 Hz
2029-05-17	Thursday 01:00	078°	+21°	0 dB	0°	078°	+21°	154°	+23°	4.8dB	425°K	391691	+315 Hz
2029-05-17	Thursday 01:30	083°	+26°	0 dB	0°	083°	+26°	161°	+23°	4.8dB	422°K	391616	+309 Hz
2029-05-17	Thursday 02:00	088°	+31°	0 dB	0°	088°	+31°	168°	+23°	4.7dB	419°K	391540	+299 Hz
2029-05-17	Thursday 02:30	094°	+36°	0 dB	0°	094°	+36°	175°	+23°	4.7dB	416°K	391464	+285 Hz
2029-05-17	Thursday 03:00	099°	+41°	0 dB	0°	099°	+41°	183°	+23°	4.7dB	413°K	391389	+267 Hz
2029-05-17	Thursday 03:30	106°	+46°	0 dB	0°	106°	+46°	190°	+23°	4.7dB	411°K	391312	+244 Hz
2029-05-17	Thursday 04:00	113°	+50°	0 dB	0°	113°	+50°	197°	+23°	4.6dB	409°K	391236	+219 Hz
2029-05-17	Thursday 04:30	121°	+55°	0 dB	0°	121°	+55°	204°	+23°	4.6dB	408°K	391160	+190 Hz
2029-05-17	Thursday 05:00	131°	+59°	0 dB	0°	131°	+59°	212°	+23°	4.6dB	406°K	391084	+159 Hz
2029-05-17	Thursday 05:30	143°	+62°	0 dB	0°	143°	+62°	219°	+23°	4.6dB	404°K	391007	+125 Hz
2029-05-17	Thursday 06:00	157°	+65°	0 dB	0°	157°	+65°	226°	+23°	4.6dB	403°K	390930	+90 Hz
2029-05-17	Thursday 06:30	173°	+66°	0 dB	0°	173°	+66°	233°	+23°	4.5dB	401°K	390853	+54 Hz
2029-05-17	Thursday 07:00	190°	+66°	0 dB	0°	190°	+66°	240°	+23°	4.5dB	399°K	390776	+18 Hz
2029-05-17	Thursday 07:30	206°	+64°	0 dB	0°	206°	+64°	248°	+23°	4.5dB	398°K	390699	-18 Hz
2029-05-17	Thursday 08:00	219°	+62°	0 dB	0°	219°	+62°	255°	+23°	4.5dB	396°K	390622	-53 Hz
2029-05-17	Thursday 08:30	231°	+58°	0 dB	0°	231°	+58°	262°	+23°	4.5dB	394°K	390545	-86 Hz
2029-05-17	Thursday 09:00	240°	+54°	0 dB	0°	240°	+54°	269°	+23°	4.5dB	393°K	390467	-117 Hz
2029-05-17	Thursday 09:30	248°	+49°	0 dB	0°	248°	+49°	277°	+23°	4.4dB	391°K	390389	-145 Hz
2029-05-17	Thursday 10:00	255°	+44°	0 dB	0°	255°	+44°	284°	+23°	4.4dB	389°K	390312	-171 Hz
2029-05-17	Thursday 10:30	261°	+39°	0 dB	0°	261°	+39°	291°	+22°	4.4dB	388°K	390234	-192 Hz
2029-05-17	Thursday 11:00	267°	+34°	0 dB	0°	267°	+34°	298°	+22°	4.4dB	386°K	390155	-210 Hz
2029-05-17	Thursday 11:30	272°	+29°	0 dB	0°	272°	+29°	306°	+22°	4.3dB	384°K	390077	-224 Hz
2029-05-17	Thursday 12:00	277°	+24°	0 dB	0°	277°	+24°	313°	+22°	4.3dB	383°K	389999	-233 Hz
2029-05-17	Thursday 12:30	282°	+19°	0 dB	0°	282°	+19°	320°	+22°	4.3dB	381°K	389920	-238 Hz
2029-05-17	Thursday 13:00	287°	+14°	0 dB	0°	287°	+14°	327°	+22°	4.3dB	380°K	389842	-239 Hz
2029-05-17	Thursday 13:30	291°	+9°	0 dB	0°	291°	+9°	335°	+22°	4.3dB	378°K	389763	-235 Hz
2029-05-17	Thursday 14:00	296°	+5°	0 dB	0°	296°	+5°	342°	+22°	4.3dB	376°K	389684	-227 Hz
2029-05-17	Thursday 14:30	301°	+0°	0 dB	0°	301°	+0°	349°	+22°	4.2dB	375°K	389605	-214 Hz
2029-05-18	Friday 00:00	062°	+2°	0 dB	0°	062°	+2°	127°	+21°	3.7dB	331°K	388078	+303 Hz
2029-05-18	Friday 00:30	067°	+6°	0 dB	0°	067°	+6°	134°	+21°	3.7dB	328°K	387996	+314 Hz
2029-05-18	Friday 01:00	072°	+11°	0 dB	0°	072°	+11°	141°	+21°	3.6dB	326°K	387914	+321 Hz
2029-05-18	Friday 01:30	077°	+15°	0 dB	0°	077°	+15°	148°	+21°	3.6dB	323°K	387832	+323 Hz
2029-05-18	Friday 02:00	082°	+20°	0 dB	0°	082°	+20°	155°	+21°	3.6dB	321°K	387750	+321 Hz
2029-05-18	Friday 02:30	087°	+25°	0 dB	0°	087°	+25°	163°	+21°	3.5dB	318°K	387668	+314 Hz
2029-05-18	Friday 03:00	092°	+30°	0 dB	0°	092°	+30°	170°	+21°	3.5dB	316°K	387586	+303 Hz
2029-05-18	Friday 03:30	098°	+35°	0 dB	0°	098°	+35°	177°	+21°	3.5dB	314°K	387504	+287 Hz
2029-05-18	Friday 04:00	104°	+40°	0 dB	0°	104°	+40°	184°	+21°	3.5dB	311°K	387421	+268 Hz
2029-05-18	Friday 04:30	110°	+45°	0 dB	0°	110°	+45°	192°	+21°	3.4dB	309°K	387338	+244 Hz
2029-05-18	Friday 05:00	118°	+50°	0 dB	0°	118°	+50°	199°	+20°	3.4dB	306°K	387256	+217 Hz
2029-05-18	Friday 05:30	126°	+54°	0 dB	0°	126°	+54°	206°	+20°	3.4dB	304°K	387173	+187 Hz
2029-05-18	Friday 06:00	137°	+58°	0 dB	0°	137°	+58°	213°	+20°	3.3dB	301°K	387090	+155 Hz
2029-05-18	Friday 06:30	149°	+61°	0 dB	0°	149°	+61°	221°	+20°	3.3dB	298°K	387006	+120 Hz
2029-05-18	Friday 07:00	163°	+63°	0 dB	0°	163°	+63°	228°	+20°	3.2dB	295°K	386923	+84 Hz
2029-05-18	Friday 07:30	178°	+64°	0 dB	0°	178°	+64°	235°	+20°	3.2dB	292°K	386840	+47 Hz
2029-05-18	Friday 08:00	193°	+63°	0 dB	0°	193°	+63°	242°	+20°	3.2dB	289°K	386756	+11 Hz
2029-05-18	Friday 08:30	208°	+61°	0 dB	0°	208°	+61°	250°	+20°	3.1dB	286°K	386673	-26 Hz
2029-05-18	Friday 09:00	220°	+58°	0 dB	0°	220°	+58°	257°	+20°	3.1dB	283°K	386589	-61 Hz
2029-05-18	Friday 09:30	231°	+55°	0 dB	0°	231°	+55°	264°	+20°	3.0dB	280°K	386505	-94 Hz
2029-05-18	Friday 10:00	240°	+50°	0 dB	0°	240°	+50°	271°	+20°	3.0dB	278°K	386421	-126 Hz
2029-05-18	Friday 10:30	247°	+46°	0 dB	0°	247°	+46°	279°	+20°	3.0dB	275°K	386337	-154 Hz
2029-05-18	Friday 11:00	254°	+41°	0 dB	0°	254°	+41°	286°	+20°	2.9dB	272°K	386253	-179 Hz
2029-05-18	Friday 11:30	260°	+36°	0 dB	0°	260°	+36°	293°	+20°	2.9dB	269°K	386168	-200 Hz
2029-05-18	Friday 12:00	266°	+31°	0 dB	0°	266°	+31°	300°	+20°	2.8dB	266°K	386084	-217 Hz
2029-05-18	Friday 12:30	271°	+26°	0 dB	0°	271°	+26°	308°	+19°	2.8dB	263°K	385999	-230 Hz
2029-05-18	Friday 13:00	276°	+21°	0 dB	0°	276°	+21°	315°	+19°	2.7dB	260°K	385915	-238 Hz
2029-05-18	Friday 13:30	281°	+16°	0 dB	0°	281°	+16°	322°	+19°	2.7dB	257°K	385830	-242 Hz
2029-05-18	Friday 14:00	286°	+11°	0 dB	0°	286°	+11°	329°	+19°	2.7dB	254°K	385745	-241 Hz
2029-05-18	Friday 14:30	291°	+6°	0 dB	0°	291°	+6°	337°	+19°	2.6dB	251°K	385660	-236 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-18	Friday	15:00	296°	+1°	0 dB	0°	296°	+1°	344°	+19°	2.6dB	249°K	385575 -226 Hz
2029-05-19	Saturday	01:00	066°	+0°	0 dB	0°	066°	+0°	129°	+18°	2.0dB	214°K	383850 +314 Hz
2029-05-19	Saturday	01:30	071°	+5°	0 dB	0°	071°	+5°	136°	+17°	2.0dB	213°K	383763 +324 Hz
2029-05-19	Saturday	02:00	076°	+10°	0 dB	0°	076°	+10°	143°	+17°	1.9dB	212°K	383676 +330 Hz
2029-05-19	Saturday	02:30	081°	+14°	0 dB	0°	081°	+14°	150°	+17°	1.9dB	211°K	383588 +331 Hz
2029-05-19	Saturday	03:00	086°	+19°	0 dB	0°	086°	+19°	158°	+17°	1.9dB	210°K	383501 +327 Hz
2029-05-19	Saturday	03:30	091°	+24°	0 dB	0°	091°	+24°	165°	+17°	1.9dB	209°K	383413 +319 Hz
2029-05-19	Saturday	04:00	097°	+29°	0 dB	0°	097°	+29°	172°	+17°	1.9dB	208°K	383326 +306 Hz
2029-05-19	Saturday	04:30	103°	+34°	0 dB	0°	103°	+34°	179°	+17°	1.8dB	207°K	383238 +289 Hz
2029-05-19	Saturday	05:00	109°	+39°	0 dB	0°	109°	+39°	187°	+17°	1.8dB	206°K	383150 +268 Hz
2029-05-19	Saturday	05:30	116°	+44°	0 dB	0°	116°	+44°	194°	+17°	1.8dB	206°K	383062 +242 Hz
2029-05-19	Saturday	06:00	124°	+48°	0 dB	0°	124°	+48°	201°	+17°	1.8dB	205°K	382974 +214 Hz
2029-05-19	Saturday	06:30	133°	+52°	0 dB	0°	133°	+52°	208°	+17°	1.8dB	204°K	382886 +182 Hz
2029-05-19	Saturday	07:00	143°	+55°	0 dB	0°	143°	+55°	216°	+17°	1.7dB	203°K	382797 +148 Hz
2029-05-19	Saturday	07:30	155°	+58°	0 dB	0°	155°	+58°	223°	+16°	1.7dB	202°K	382709 +112 Hz
2029-05-19	Saturday	08:00	169°	+59°	0 dB	0°	169°	+59°	230°	+16°	1.7dB	201°K	382621 +75 Hz
2029-05-19	Saturday	08:30	183°	+60°	0 dB	0°	183°	+60°	237°	+16°	1.7dB	200°K	382532 +38 Hz
2029-05-19	Saturday	09:00	196°	+59°	0 dB	0°	196°	+59°	245°	+16°	1.7dB	199°K	382444 0 Hz
2029-05-19	Saturday	09:30	209°	+57°	0 dB	0°	209°	+57°	252°	+16°	1.6dB	198°K	382355 -37 Hz
2029-05-19	Saturday	10:00	220°	+54°	0 dB	0°	220°	+54°	259°	+16°	1.6dB	197°K	382266 -72 Hz
2029-05-19	Saturday	10:30	230°	+50°	0 dB	0°	230°	+50°	266°	+16°	1.6dB	196°K	382178 -106 Hz
2029-05-19	Saturday	11:00	238°	+46°	0 dB	0°	238°	+46°	274°	+16°	1.6dB	195°K	382089 -137 Hz
2029-05-19	Saturday	11:30	246°	+41°	0 dB	0°	246°	+41°	281°	+16°	1.6dB	194°K	382000 -165 Hz
2029-05-19	Saturday	12:00	252°	+36°	0 dB	0°	252°	+36°	288°	+16°	1.5dB	193°K	381911 -189 Hz
2029-05-19	Saturday	12:30	258°	+31°	0 dB	0°	258°	+31°	295°	+16°	1.5dB	192°K	381822 -209 Hz
2029-05-19	Saturday	13:00	264°	+26°	0 dB	0°	264°	+26°	303°	+15°	1.5dB	191°K	381733 -226 Hz
2029-05-19	Saturday	13:30	269°	+21°	0 dB	0°	269°	+21°	310°	+15°	1.5dB	190°K	381643 -237 Hz
2029-05-19	Saturday	14:00	274°	+16°	0 dB	0°	274°	+16°	317°	+15°	1.5dB	189°K	381554 -244 Hz
2029-05-19	Saturday	14:30	279°	+11°	0 dB	0°	279°	+11°	324°	+15°	1.4dB	188°K	381465 -247 Hz
2029-05-19	Saturday	15:00	284°	+6°	0 dB	0°	284°	+6°	332°	+15°	1.4dB	188°K	381375 -244 Hz
2029-05-19	Saturday	15:30	290°	+1°	0 dB	0°	290°	+1°	339°	+15°	1.4dB	187°K	381286 -238 Hz
2029-05-20	Sunday	02:30	076°	+3°	0 dB	0°	076°	+3°	138°	+13°	1.1dB	176°K	379304 +333 Hz
2029-05-20	Sunday	03:00	081°	+8°	0 dB	0°	081°	+8°	146°	+13°	1.1dB	176°K	379214 +337 Hz
2029-05-20	Sunday	03:30	086°	+13°	0 dB	0°	086°	+13°	153°	+13°	1.1dB	177°K	379123 +337 Hz
2029-05-20	Sunday	04:00	091°	+18°	0 dB	0°	091°	+18°	160°	+13°	1.1dB	177°K	379032 +331 Hz
2029-05-20	Sunday	04:30	097°	+23°	0 dB	0°	097°	+23°	167°	+12°	1.1dB	177°K	378942 +321 Hz
2029-05-20	Sunday	05:00	102°	+28°	0 dB	0°	102°	+28°	175°	+12°	1.1dB	178°K	378851 +307 Hz
2029-05-20	Sunday	05:30	109°	+33°	0 dB	0°	109°	+33°	182°	+12°	1.1dB	178°K	378761 +287 Hz
2029-05-20	Sunday	06:00	115°	+37°	0 dB	0°	115°	+37°	189°	+12°	1.1dB	178°K	378670 +264 Hz
2029-05-20	Sunday	06:30	123°	+42°	0 dB	0°	123°	+42°	196°	+12°	1.1dB	179°K	378579 +237 Hz
2029-05-20	Sunday	07:00	131°	+45°	0 dB	0°	131°	+45°	204°	+12°	1.1dB	179°K	378488 +207 Hz
2029-05-20	Sunday	07:30	140°	+49°	0 dB	0°	140°	+49°	211°	+12°	1.1dB	179°K	378398 +174 Hz
2029-05-20	Sunday	08:00	150°	+52°	0 dB	0°	150°	+52°	218°	+12°	1.1dB	179°K	378307 +138 Hz
2029-05-20	Sunday	08:30	162°	+54°	0 dB	0°	162°	+54°	225°	+12°	1.1dB	180°K	378216 +101 Hz
2029-05-20	Sunday	09:00	174°	+55°	0 dB	0°	174°	+55°	233°	+12°	1.1dB	180°K	378125 +63 Hz
2029-05-20	Sunday	09:30	187°	+55°	0 dB	0°	187°	+55°	240°	+11°	1.1dB	180°K	378034 +24 Hz
2029-05-20	Sunday	10:00	199°	+53°	0 dB	0°	199°	+53°	247°	+11°	1.1dB	181°K	377944 -14 Hz
2029-05-20	Sunday	10:30	210°	+51°	0 dB	0°	210°	+51°	254°	+11°	1.1dB	181°K	377853 -51 Hz
2029-05-20	Sunday	11:00	220°	+48°	0 dB	0°	220°	+48°	262°	+11°	1.1dB	181°K	377762 -87 Hz
2029-05-20	Sunday	11:30	229°	+44°	0 dB	0°	229°	+44°	269°	+11°	1.2dB	182°K	377671 -120 Hz
2029-05-20	Sunday	12:00	237°	+40°	0 dB	0°	237°	+40°	276°	+11°	1.1dB	182°K	377580 -151 Hz
2029-05-20	Sunday	12:30	244°	+36°	0 dB	0°	244°	+36°	283°	+11°	1.1dB	182°K	377489 -178 Hz
2029-05-20	Sunday	13:00	251°	+31°	0 dB	0°	251°	+31°	291°	+11°	1.1dB	182°K	377399 -201 Hz
2029-05-20	Sunday	13:30	257°	+26°	0 dB	0°	257°	+26°	298°	+11°	1.2dB	183°K	377308 -220 Hz
2029-05-20	Sunday	14:00	262°	+21°	0 dB	0°	262°	+21°	305°	+10°	1.1dB	183°K	377217 -235 Hz
2029-05-20	Sunday	14:30	267°	+16°	0 dB	0°	267°	+16°	312°	+10°	1.1dB	183°K	377126 -245 Hz
2029-05-20	Sunday	15:00	273°	+11°	0 dB	0°	273°	+11°	320°	+10°	1.1dB	183°K	377035 -251 Hz
2029-05-20	Sunday	15:30	278°	+6°	0 dB	0°	278°	+6°	327°	+10°	1.1dB	183°K	376945 -251 Hz
2029-05-20	Sunday	16:00	283°	+1°	0 dB	0°	283°	+1°	334°	+10°	1.1dB	183°K	376854 -247 Hz
2029-05-21	Monday	03:30	081°	+1°	0 dB	0°	081°	+1°	141°	+8°	1.1dB	187°K	374775 +338 Hz
2029-05-21	Monday	04:00	086°	+6°	0 dB	0°	086°	+6°	148°	+7°	1.1dB	187°K	374686 +340 Hz
2029-05-21	Monday	04:30	092°	+11°	0 dB	0°	092°	+11°	156°	+7°	1.1dB	188°K	374596 +338 Hz
2029-05-21	Monday	05:00	097°	+16°	0 dB	0°	097°	+16°	163°	+7°	1.1dB	188°K	374506 +331 Hz
2029-05-21	Monday	05:30	103°	+21°	0 dB	0°	103°	+21°	170°	+7°	1.1dB	188°K	374417 +319 Hz
2029-05-21	Monday	06:00	109°	+25°	0 dB	0°	109°	+25°	177°	+7°	1.1dB	189°K	374327 +302 Hz
2029-05-21	Monday	06:30	115°	+30°	0 dB	0°	115°	+30°	185°	+7°	1.1dB	189°K	374238 +281 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-21	Monday	07:00	122°	+34°	0 dB	0°	122°	+34°	192°	+7°	1.1dB	189°K	374148 +256 Hz
2029-05-21	Monday	07:30	130°	+38°	0 dB	0°	130°	+38°	199°	+7°	1.1dB	190°K	374059 +227 Hz
2029-05-21	Monday	08:00	138°	+42°	0 dB	0°	138°	+42°	206°	+6°	1.1dB	190°K	373970 +195 Hz
2029-05-21	Monday	08:30	147°	+45°	0 dB	0°	147°	+45°	214°	+6°	1.1dB	190°K	373881 +160 Hz
2029-05-21	Monday	09:00	157°	+47°	0 dB	0°	157°	+47°	221°	+6°	1.1dB	191°K	373792 +124 Hz
2029-05-21	Monday	09:30	168°	+49°	0 dB	0°	168°	+49°	228°	+6°	1.1dB	191°K	373703 +85 Hz
2029-05-21	Monday	10:00	179°	+49°	0 dB	0°	179°	+49°	235°	+6°	1.1dB	191°K	373614 +47 Hz
2029-05-21	Monday	10:30	190°	+49°	0 dB	0°	190°	+49°	243°	+6°	1.1dB	191°K	373526 +7 Hz
2029-05-21	Monday	11:00	201°	+47°	0 dB	0°	201°	+47°	250°	+6°	1.1dB	192°K	373437 -31 Hz
2029-05-21	Monday	11:30	211°	+45°	0 dB	0°	211°	+45°	257°	+6°	1.1dB	192°K	373349 -68 Hz
2029-05-21	Monday	12:00	220°	+42°	0 dB	0°	220°	+42°	264°	+6°	1.1dB	192°K	373260 -103 Hz
2029-05-21	Monday	12:30	228°	+38°	0 dB	0°	228°	+38°	272°	+5°	1.1dB	193°K	373172 -136 Hz
2029-05-21	Monday	13:00	236°	+34°	0 dB	0°	236°	+34°	279°	+5°	1.1dB	193°K	373084 -166 Hz
2029-05-21	Monday	13:30	242°	+30°	0 dB	0°	242°	+30°	286°	+5°	1.1dB	193°K	372996 -192 Hz
2029-05-21	Monday	14:00	249°	+25°	0 dB	0°	249°	+25°	293°	+5°	1.1dB	194°K	372908 -214 Hz
2029-05-21	Monday	14:30	255°	+20°	0 dB	0°	255°	+20°	301°	+5°	1.1dB	194°K	372820 -232 Hz
2029-05-21	Monday	15:00	260°	+15°	0 dB	0°	260°	+15°	308°	+5°	1.1dB	194°K	372732 -245 Hz
2029-05-21	Monday	15:30	265°	+10°	0 dB	0°	265°	+10°	315°	+5°	1.1dB	195°K	372645 -253 Hz
2029-05-21	Monday	16:00	271°	+5°	0 dB	0°	271°	+5°	322°	+5°	1.1dB	195°K	372557 -257 Hz
2029-05-21	Monday	16:30	276°	-0°	0 dB	0°	276°	-0°	330°	+4°	1.1dB	195°K	372470 -256 Hz
2029-05-22	Tuesday	05:00	093°	+4°	0 dB	0°	093°	+4°	151°	+1°	1.2dB	203°K	370337 +337 Hz
2029-05-22	Tuesday	05:30	098°	+8°	0 dB	0°	098°	+8°	158°	+1°	1.2dB	203°K	370254 +333 Hz
2029-05-22	Tuesday	06:00	103°	+13°	0 dB	0°	103°	+13°	165°	+1°	1.2dB	204°K	370171 +324 Hz
2029-05-22	Tuesday	06:30	109°	+18°	0 dB	0°	109°	+18°	173°	+1°	1.2dB	204°K	370089 +310 Hz
2029-05-22	Tuesday	07:00	115°	+23°	0 dB	0°	115°	+23°	180°	+1°	1.2dB	204°K	370006 +291 Hz
2029-05-22	Tuesday	07:30	122°	+27°	0 dB	0°	122°	+27°	187°	+1°	1.2dB	205°K	369924 +268 Hz
2029-05-22	Tuesday	08:00	129°	+31°	0 dB	0°	129°	+31°	194°	+1°	1.2dB	205°K	369842 +242 Hz
2029-05-22	Tuesday	08:30	136°	+35°	0 dB	0°	136°	+35°	202°	+1°	1.2dB	205°K	369761 +211 Hz
2029-05-22	Tuesday	09:00	144°	+38°	0 dB	0°	144°	+38°	209°	+1°	1.2dB	205°K	369679 +178 Hz
2029-05-22	Tuesday	09:30	153°	+40°	0 dB	0°	153°	+40°	216°	+0°	1.2dB	206°K	369598 +142 Hz
2029-05-22	Tuesday	10:00	163°	+42°	0 dB	0°	163°	+42°	223°	+0°	1.2dB	206°K	369517 +105 Hz
2029-05-22	Tuesday	10:30	173°	+43°	0 dB	0°	173°	+43°	231°	+0°	1.2dB	206°K	369436 +66 Hz
2029-05-22	Tuesday	11:00	183°	+43°	0 dB	0°	183°	+43°	238°	+0°	1.2dB	207°K	369355 +27 Hz
2029-05-22	Tuesday	11:30	193°	+42°	0 dB	0°	193°	+42°	245°	-0°	1.2dB	207°K	369275 -12 Hz
2029-05-22	Tuesday	12:00	202°	+41°	0 dB	0°	202°	+41°	252°	-0°	1.2dB	207°K	369195 -50 Hz
2029-05-22	Tuesday	12:30	211°	+38°	0 dB	0°	211°	+38°	260°	-0°	1.2dB	208°K	369115 -87 Hz
2029-05-22	Tuesday	13:00	219°	+35°	0 dB	0°	219°	+35°	267°	-0°	1.2dB	208°K	369036 -121 Hz
2029-05-22	Tuesday	13:30	227°	+32°	0 dB	0°	227°	+32°	274°	-1°	1.2dB	208°K	368956 -153 Hz
2029-05-22	Tuesday	14:00	234°	+28°	0 dB	0°	234°	+28°	282°	-1°	1.2dB	209°K	368877 -181 Hz
2029-05-22	Tuesday	14:30	241°	+23°	0 dB	0°	241°	+23°	289°	-1°	1.2dB	209°K	368798 -206 Hz
2029-05-22	Tuesday	15:00	247°	+19°	0 dB	0°	247°	+19°	296°	-1°	1.2dB	209°K	368720 -226 Hz
2029-05-22	Tuesday	15:30	252°	+14°	0 dB	0°	252°	+14°	303°	-1°	1.2dB	210°K	368641 -242 Hz
2029-05-22	Tuesday	16:00	258°	+9°	0 dB	0°	258°	+9°	311°	-1°	1.2dB	210°K	368563 -253 Hz
2029-05-22	Tuesday	16:30	263°	+4°	0 dB	0°	263°	+4°	318°	-1°	1.2dB	210°K	368485 -260 Hz
2029-05-23	wednesday	06:00	099°	+1°	0 dB	0°	099°	+1°	153°	-5°	1.6dB	246°K	366498 +327 Hz
2029-05-23	wednesday	06:30	104°	+6°	0 dB	0°	104°	+6°	161°	-5°	1.7dB	248°K	366429 +320 Hz
2029-05-23	wednesday	07:00	109°	+10°	0 dB	0°	109°	+10°	168°	-5°	1.7dB	249°K	366361 +309 Hz
2029-05-23	wednesday	07:30	115°	+15°	0 dB	0°	115°	+15°	175°	-5°	1.7dB	251°K	366292 +294 Hz
2029-05-23	wednesday	08:00	121°	+19°	0 dB	0°	121°	+19°	182°	-5°	1.7dB	253°K	366225 +274 Hz
2029-05-23	wednesday	08:30	128°	+23°	0 dB	0°	128°	+23°	190°	-5°	1.8dB	255°K	366157 +250 Hz
2029-05-23	wednesday	09:00	135°	+27°	0 dB	0°	135°	+27°	197°	-5°	1.8dB	256°K	366090 +222 Hz
2029-05-23	wednesday	09:30	142°	+30°	0 dB	0°	142°	+30°	204°	-6°	1.8dB	258°K	366023 +191 Hz
2029-05-23	wednesday	10:00	150°	+33°	0 dB	0°	150°	+33°	211°	-6°	1.8dB	260°K	365957 +157 Hz
2029-05-23	wednesday	10:30	158°	+35°	0 dB	0°	158°	+35°	219°	-6°	1.8dB	262°K	365891 +121 Hz
2029-05-23	wednesday	11:00	167°	+36°	0 dB	0°	167°	+36°	226°	-6°	1.9dB	264°K	365825 +83 Hz
2029-05-23	wednesday	11:30	176°	+37°	0 dB	0°	176°	+37°	233°	-6°	1.9dB	266°K	365760 +44 Hz
2029-05-23	wednesday	12:00	185°	+37°	0 dB	0°	185°	+37°	240°	-6°	1.9dB	268°K	365695 +6 Hz
2029-05-23	wednesday	12:30	194°	+36°	0 dB	0°	194°	+36°	248°	-6°	1.9dB	270°K	365630 -33 Hz
2029-05-23	wednesday	13:00	203°	+34°	0 dB	0°	203°	+34°	255°	-6°	2.0dB	272°K	365566 -70 Hz
2029-05-23	wednesday	13:30	211°	+32°	0 dB	0°	211°	+32°	262°	-6°	2.0dB	274°K	365503 -106 Hz
2029-05-23	wednesday	14:00	219°	+29°	0 dB	0°	219°	+29°	269°	-7°	2.0dB	275°K	365440 -139 Hz
2029-05-23	wednesday	14:30	226°	+25°	0 dB	0°	226°	+25°	277°	-7°	2.0dB	277°K	365377 -169 Hz
2029-05-23	wednesday	15:00	232°	+21°	0 dB	0°	232°	+21°	284°	-7°	2.0dB	279°K	365314 -196 Hz
2029-05-23	wednesday	15:30	239°	+17°	0 dB	0°	239°	+17°	291°	-7°	2.1dB	281°K	365252 -219 Hz
2029-05-23	wednesday	16:00	244°	+12°	0 dB	0°	244°	+12°	298°	-7°	2.1dB	283°K	365191 -237 Hz
2029-05-23	wednesday	16:30	250°	+8°	0 dB	0°	250°	+8°	306°	-7°	2.1dB	285°K	365129 -252 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-23	wednesday	17:00	255°	+3°	0 dB	0°	255°	+3°	313°	-7°	2.1dB	287°K	365069 -261 Hz
2029-05-24	Thursday	07:30	109°	+2°	0 dB	0°	109°	+2°	163°	-11°	2.4dB	313°K	363505 +301 Hz
2029-05-24	Thursday	08:00	115°	+7°	0 dB	0°	115°	+7°	170°	-11°	2.4dB	313°K	363458 +289 Hz
2029-05-24	Thursday	08:30	121°	+11°	0 dB	0°	121°	+11°	177°	-11°	2.4dB	313°K	363412 +272 Hz
2029-05-24	Thursday	09:00	127°	+15°	0 dB	0°	127°	+15°	184°	-11°	2.4dB	313°K	363366 +251 Hz
2029-05-24	Thursday	09:30	133°	+19°	0 dB	0°	133°	+19°	192°	-11°	2.4dB	313°K	363321 +227 Hz
2029-05-24	Thursday	10:00	140°	+23°	0 dB	0°	140°	+23°	199°	-11°	2.4dB	313°K	363276 +198 Hz
2029-05-24	Thursday	10:30	147°	+25°	0 dB	0°	147°	+25°	206°	-11°	2.4dB	313°K	363232 +167 Hz
2029-05-24	Thursday	11:00	154°	+28°	0 dB	0°	154°	+28°	213°	-12°	2.4dB	313°K	363189 +133 Hz
2029-05-24	Thursday	11:30	162°	+30°	0 dB	0°	162°	+30°	220°	-12°	2.4dB	313°K	363146 +97 Hz
2029-05-24	Thursday	12:00	170°	+31°	0 dB	0°	170°	+31°	228°	-12°	2.3dB	313°K	363103 +60 Hz
2029-05-24	Thursday	12:30	179°	+31°	0 dB	0°	179°	+31°	235°	-12°	2.3dB	313°K	363062 +22 Hz
2029-05-24	Thursday	13:00	187°	+31°	0 dB	0°	187°	+31°	242°	-12°	2.3dB	312°K	363020 -16 Hz
2029-05-24	Thursday	13:30	195°	+30°	0 dB	0°	195°	+30°	249°	-12°	2.3dB	312°K	362979 -53 Hz
2029-05-24	Thursday	14:00	203°	+28°	0 dB	0°	203°	+28°	257°	-12°	2.3dB	312°K	362939 -89 Hz
2029-05-24	Thursday	14:30	211°	+25°	0 dB	0°	211°	+25°	264°	-12°	2.3dB	311°K	362899 -123 Hz
2029-05-24	Thursday	15:00	218°	+23°	0 dB	0°	218°	+23°	271°	-12°	2.3dB	311°K	362860 -155 Hz
2029-05-24	Thursday	15:30	224°	+19°	0 dB	0°	224°	+19°	278°	-13°	2.3dB	311°K	362821 -183 Hz
2029-05-24	Thursday	16:00	231°	+15°	0 dB	0°	231°	+15°	285°	-13°	2.3dB	310°K	362783 -209 Hz
2029-05-24	Thursday	16:30	236°	+11°	0 dB	0°	236°	+11°	293°	-13°	2.3dB	310°K	362746 -230 Hz
2029-05-24	Thursday	17:00	242°	+7°	0 dB	0°	242°	+7°	300°	-13°	2.3dB	310°K	362709 -247 Hz
2029-05-24	Thursday	17:30	247°	+2°	0 dB	0°	247°	+2°	307°	-13°	2.3dB	309°K	362673 -260 Hz
2029-05-25	Friday	09:00	119°	+4°	0 dB	0°	119°	+4°	171°	-16°	2.3dB	318°K	361837 +264 Hz
2029-05-25	Friday	09:30	125°	+8°	0 dB	0°	125°	+8°	178°	-16°	2.4dB	319°K	361819 +247 Hz
2029-05-25	Friday	10:00	131°	+12°	0 dB	0°	131°	+12°	185°	-16°	2.4dB	320°K	361803 +226 Hz
2029-05-25	Friday	10:30	137°	+15°	0 dB	0°	137°	+15°	193°	-17°	2.4dB	320°K	361787 +202 Hz
2029-05-25	Friday	11:00	143°	+18°	0 dB	0°	143°	+18°	200°	-17°	2.4dB	321°K	361772 +174 Hz
2029-05-25	Friday	11:30	150°	+21°	0 dB	0°	150°	+21°	207°	-17°	2.4dB	322°K	361757 +143 Hz
2029-05-25	Friday	12:00	157°	+23°	0 dB	0°	157°	+23°	214°	-17°	2.4dB	323°K	361743 +110 Hz
2029-05-25	Friday	12:30	165°	+25°	0 dB	0°	165°	+25°	221°	-17°	2.4dB	324°K	361730 +75 Hz
2029-05-25	Friday	13:00	172°	+26°	0 dB	0°	172°	+26°	229°	-17°	2.4dB	325°K	361717 +39 Hz
2029-05-25	Friday	13:30	180°	+26°	0 dB	0°	180°	+26°	236°	-17°	2.4dB	326°K	361705 +2 Hz
2029-05-25	Friday	14:00	188°	+25°	0 dB	0°	188°	+25°	243°	-17°	2.4dB	327°K	361694 -35 Hz
2029-05-25	Friday	14:30	195°	+24°	0 dB	0°	195°	+24°	250°	-17°	2.5dB	329°K	361683 -71 Hz
2029-05-25	Friday	15:00	202°	+23°	0 dB	0°	202°	+23°	258°	-17°	2.5dB	330°K	361673 -106 Hz
2029-05-25	Friday	15:30	209°	+20°	0 dB	0°	209°	+20°	265°	-17°	2.5dB	332°K	361664 -138 Hz
2029-05-25	Friday	16:00	216°	+18°	0 dB	0°	216°	+18°	272°	-18°	2.5dB	333°K	361655 -169 Hz
2029-05-25	Friday	16:30	222°	+14°	0 dB	0°	222°	+14°	279°	-18°	2.5dB	334°K	361647 -196 Hz
2029-05-25	Friday	17:00	228°	+11°	0 dB	0°	228°	+11°	286°	-18°	2.5dB	336°K	361639 -220 Hz
2029-05-25	Friday	17:30	234°	+7°	0 dB	0°	234°	+7°	294°	-18°	2.5dB	337°K	361632 -241 Hz
2029-05-25	Friday	18:00	240°	+2°	0 dB	0°	240°	+2°	301°	-18°	2.6dB	339°K	361626 -257 Hz
2029-05-26	Saturday	10:00	122°	+0°	0 dB	0°	122°	+0°	171°	-21°	3.0dB	383°K	361785 +239 Hz
2029-05-26	Saturday	10:30	128°	+4°	0 dB	0°	128°	+4°	178°	-21°	3.0dB	384°K	361801 +223 Hz
2029-05-26	Saturday	11:00	133°	+8°	0 dB	0°	133°	+8°	186°	-21°	3.1dB	385°K	361818 +202 Hz
2029-05-26	Saturday	11:30	139°	+12°	0 dB	0°	139°	+12°	193°	-21°	3.1dB	387°K	361836 +178 Hz
2029-05-26	Saturday	12:00	145°	+15°	0 dB	0°	145°	+15°	200°	-21°	3.1dB	388°K	361854 +151 Hz
2029-05-26	Saturday	12:30	152°	+17°	0 dB	0°	152°	+17°	207°	-21°	3.1dB	389°K	361873 +121 Hz
2029-05-26	Saturday	13:00	159°	+19°	0 dB	0°	159°	+19°	214°	-21°	3.1dB	391°K	361893 +89 Hz
2029-05-26	Saturday	13:30	166°	+21°	0 dB	0°	166°	+21°	222°	-21°	3.1dB	392°K	361913 +55 Hz
2029-05-26	Saturday	14:00	173°	+21°	0 dB	0°	173°	+21°	229°	-21°	3.1dB	393°K	361934 +20 Hz
2029-05-26	Saturday	14:30	180°	+22°	0 dB	0°	180°	+22°	236°	-21°	3.1dB	394°K	361956 -16 Hz
2029-05-26	Saturday	15:00	187°	+21°	0 dB	0°	187°	+21°	243°	-21°	3.2dB	395°K	361978 -51 Hz
2029-05-26	Saturday	15:30	194°	+20°	0 dB	0°	194°	+20°	250°	-21°	3.2dB	396°K	362001 -86 Hz
2029-05-26	Saturday	16:00	201°	+19°	0 dB	0°	201°	+19°	258°	-21°	3.2dB	397°K	362025 -120 Hz
2029-05-26	Saturday	16:30	208°	+17°	0 dB	0°	208°	+17°	265°	-21°	3.2dB	399°K	362050 -152 Hz
2029-05-26	Saturday	17:00	214°	+14°	0 dB	0°	214°	+14°	272°	-21°	3.2dB	400°K	362075 -181 Hz
2029-05-26	Saturday	17:30	221°	+11°	0 dB	0°	221°	+11°	279°	-22°	3.2dB	401°K	362101 -208 Hz
2029-05-26	Saturday	18:00	226°	+7°	0 dB	0°	226°	+7°	286°	-22°	3.2dB	402°K	362127 -231 Hz
2029-05-26	Saturday	18:30	232°	+3°	0 dB	0°	232°	+3°	294°	-22°	3.2dB	403°K	362155 -251 Hz
2029-05-27	Sunday	11:30	129°	+2°	0 dB	0°	129°	+2°	178°	-23°	3.9dB	475°K	363487 +202 Hz
2029-05-27	Sunday	12:00	134°	+6°	0 dB	0°	134°	+6°	185°	-23°	4.0dB	478°K	363538 +182 Hz
2029-05-27	Sunday	12:30	140°	+9°	0 dB	0°	140°	+9°	192°	-23°	4.0dB	484°K	363590 +159 Hz
2029-05-27	Sunday	13:00	146°	+12°	0 dB	0°	146°	+12°	200°	-23°	4.1dB	490°K	363642 +133 Hz
2029-05-27	Sunday	13:30	152°	+14°	0 dB	0°	152°	+14°	207°	-24°	4.1dB	496°K	363695 +104 Hz
2029-05-27	Sunday	14:00	159°	+16°	0 dB	0°	159°	+16°	214°	-24°	4.2dB	502°K	363749 +72 Hz
2029-05-27	Sunday	14:30	166°	+18°	0 dB	0°	166°	+18°	221°	-24°	4.2dB	507°K	363803 +39 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-27	Sunday	15:00	173°	+19°	0 dB	0°	173°	+19°	228°	-24°	4.2dB	513°K	363858 +5 Hz
2029-05-27	Sunday	15:30	180°	+19°	0 dB	0°	180°	+19°	236°	-24°	4.3dB	519°K	363914 -30 Hz
2029-05-27	Sunday	16:00	187°	+19°	0 dB	0°	187°	+19°	243°	-24°	4.3dB	525°K	363970 -64 Hz
2029-05-27	Sunday	16:30	193°	+18°	0 dB	0°	193°	+18°	250°	-24°	4.4dB	531°K	364027 -99 Hz
2029-05-27	Sunday	17:00	200°	+17°	0 dB	0°	200°	+17°	257°	-24°	4.4dB	536°K	364084 -132 Hz
2029-05-27	Sunday	17:30	207°	+14°	0 dB	0°	207°	+14°	264°	-24°	4.5dB	542°K	364142 -163 Hz
2029-05-27	Sunday	18:00	213°	+12°	0 dB	0°	213°	+12°	272°	-24°	4.5dB	548°K	364201 -192 Hz
2029-05-27	Sunday	18:30	219°	+9°	0 dB	0°	219°	+9°	279°	-24°	4.6dB	554°K	364260 -218 Hz
2029-05-27	Sunday	19:00	225°	+6°	0 dB	0°	225°	+6°	286°	-24°	4.6dB	560°K	364321 -242 Hz
2029-05-27	Sunday	19:30	230°	+2°	0 dB	0°	230°	+2°	293°	-24°	4.7dB	565°K	364381 -261 Hz
2029-05-28	Monday	12:30	129°	+1°	0 dB	0°	129°	+1°	177°	-24°	7.1dB	1002°K	366809 +187 Hz
2029-05-28	Monday	13:00	134°	+4°	0 dB	0°	134°	+4°	185°	-24°	7.2dB	1034°K	366890 +168 Hz
2029-05-28	Monday	13:30	140°	+8°	0 dB	0°	140°	+8°	192°	-24°	7.3dB	1067°K	366973 +145 Hz
2029-05-28	Monday	14:00	146°	+11°	0 dB	0°	146°	+11°	199°	-24°	7.5dB	1100°K	367055 +119 Hz
2029-05-28	Monday	14:30	152°	+13°	0 dB	0°	152°	+13°	206°	-24°	7.6dB	1132°K	367138 +91 Hz
2029-05-28	Monday	15:00	159°	+16°	0 dB	0°	159°	+16°	213°	-24°	7.7dB	1165°K	367222 +60 Hz
2029-05-28	Monday	15:30	165°	+17°	0 dB	0°	165°	+17°	221°	-24°	7.8dB	1197°K	367307 +28 Hz
2029-05-28	Monday	16:00	172°	+18°	0 dB	0°	172°	+18°	228°	-24°	7.9dB	1230°K	367391 -6 Hz
2029-05-28	Monday	16:30	179°	+18°	0 dB	0°	179°	+18°	235°	-24°	8.1dB	1263°K	367477 -41 Hz
2029-05-28	Monday	17:00	186°	+18°	0 dB	0°	186°	+18°	242°	-24°	8.2dB	1295°K	367563 -75 Hz
2029-05-28	Monday	17:30	193°	+17°	0 dB	0°	193°	+17°	249°	-24°	8.3dB	1328°K	367649 -109 Hz
2029-05-28	Monday	18:00	200°	+16°	0 dB	0°	200°	+16°	257°	-24°	8.4dB	1360°K	367736 -142 Hz
2029-05-28	Monday	18:30	206°	+14°	0 dB	0°	206°	+14°	264°	-24°	8.5dB	1393°K	367824 -174 Hz
2029-05-28	Monday	19:00	212°	+12°	0 dB	0°	212°	+12°	271°	-24°	8.6dB	1425°K	367912 -203 Hz
2029-05-28	Monday	19:30	218°	+9°	0 dB	0°	218°	+9°	278°	-24°	8.7dB	1458°K	368000 -229 Hz
2029-05-28	Monday	20:00	224°	+6°	0 dB	0°	224°	+6°	285°	-24°	8.8dB	1490°K	368089 -253 Hz
2029-05-28	Monday	20:30	230°	+2°	0 dB	0°	230°	+2°	293°	-24°	8.9dB	1522°K	368179 -273 Hz
2029-05-29	Tuesday	13:30	128°	+1°	0 dB	0°	128°	+1°	177°	-24°	11.7dB	2876°K	371500 +178 Hz
2029-05-29	Tuesday	14:00	134°	+5°	0 dB	0°	134°	+5°	184°	-24°	11.6dB	2824°K	371605 +159 Hz
2029-05-29	Tuesday	14:30	139°	+9°	0 dB	0°	139°	+9°	192°	-24°	11.6dB	2772°K	371710 +137 Hz
2029-05-29	Tuesday	15:00	145°	+12°	0 dB	0°	145°	+12°	199°	-24°	11.5dB	2720°K	371816 +111 Hz
2029-05-29	Tuesday	15:30	152°	+14°	0 dB	0°	152°	+14°	206°	-24°	11.4dB	2669°K	371922 +83 Hz
2029-05-29	Tuesday	16:00	158°	+16°	0 dB	0°	158°	+16°	213°	-23°	11.3dB	2617°K	372029 +52 Hz
2029-05-29	Tuesday	16:30	165°	+18°	0 dB	0°	165°	+18°	220°	-23°	11.3dB	2566°K	372136 +19 Hz
2029-05-29	Tuesday	17:00	172°	+19°	0 dB	0°	172°	+19°	228°	-23°	11.2dB	2514°K	372243 -15 Hz
2029-05-29	Tuesday	17:30	179°	+20°	0 dB	0°	179°	+20°	235°	-23°	11.1dB	2463°K	372350 -50 Hz
2029-05-29	Tuesday	18:00	186°	+19°	0 dB	0°	186°	+19°	242°	-23°	11.0dB	2412°K	372458 -85 Hz
2029-05-29	Tuesday	18:30	193°	+19°	0 dB	0°	193°	+19°	249°	-23°	10.9dB	2360°K	372567 -119 Hz
2029-05-29	Tuesday	19:00	200°	+17°	0 dB	0°	200°	+17°	256°	-23°	10.8dB	2309°K	372675 -152 Hz
2029-05-29	Tuesday	19:30	206°	+15°	0 dB	0°	206°	+15°	264°	-23°	10.7dB	2258°K	372784 -184 Hz
2029-05-29	Tuesday	20:00	213°	+13°	0 dB	0°	213°	+13°	271°	-23°	10.6dB	2207°K	372894 -214 Hz
2029-05-29	Tuesday	20:30	219°	+10°	0 dB	0°	219°	+10°	278°	-23°	10.6dB	2156°K	373003 -241 Hz
2029-05-29	Tuesday	21:00	225°	+7°	0 dB	0°	225°	+7°	285°	-23°	10.5dB	2105°K	373113 -265 Hz
2029-05-29	Tuesday	21:30	230°	+3°	0 dB	0°	230°	+3°	292°	-23°	10.4dB	2054°K	373224 -285 Hz
2029-05-30	wednesday	14:30	127°	+3°	0 dB	0°	127°	+3°	178°	-21°	6.2dB	725°K	377136 +176 Hz
2029-05-30	wednesday	15:00	133°	+7°	0 dB	0°	133°	+7°	185°	-21°	6.2dB	711°K	377255 +156 Hz
2029-05-30	wednesday	15:30	139°	+11°	0 dB	0°	139°	+11°	192°	-21°	6.1dB	697°K	377374 +133 Hz
2029-05-30	wednesday	16:00	145°	+14°	0 dB	0°	145°	+14°	199°	-21°	6.0dB	684°K	377493 +107 Hz
2029-05-30	wednesday	16:30	151°	+17°	0 dB	0°	151°	+17°	207°	-21°	5.9dB	670°K	377613 +78 Hz
2029-05-30	wednesday	17:00	158°	+19°	0 dB	0°	158°	+19°	214°	-21°	5.9dB	656°K	377732 +46 Hz
2029-05-30	wednesday	17:30	165°	+21°	0 dB	0°	165°	+21°	221°	-21°	5.8dB	642°K	377852 +12 Hz
2029-05-30	wednesday	18:00	172°	+22°	0 dB	0°	172°	+22°	228°	-21°	5.7dB	628°K	377972 -23 Hz
2029-05-30	wednesday	18:30	180°	+22°	0 dB	0°	180°	+22°	236°	-21°	5.6dB	615°K	378092 -58 Hz
2029-05-30	wednesday	19:00	187°	+22°	0 dB	0°	187°	+22°	243°	-21°	5.5dB	601°K	378212 -94 Hz
2029-05-30	wednesday	19:30	194°	+21°	0 dB	0°	194°	+21°	250°	-21°	5.5dB	587°K	378333 -129 Hz
2029-05-30	wednesday	20:00	201°	+20°	0 dB	0°	201°	+20°	257°	-21°	5.4dB	574°K	378453 -163 Hz
2029-05-30	wednesday	20:30	208°	+18°	0 dB	0°	208°	+18°	264°	-21°	5.3dB	560°K	378574 -195 Hz
2029-05-30	wednesday	21:00	215°	+15°	0 dB	0°	215°	+15°	272°	-20°	5.2dB	547°K	378694 -226 Hz
2029-05-30	wednesday	21:30	221°	+12°	0 dB	0°	221°	+12°	279°	-20°	5.1dB	533°K	378815 -253 Hz
2029-05-30	wednesday	22:00	227°	+9°	0 dB	0°	227°	+9°	286°	-20°	5.0dB	521°K	378936 -277 Hz
2029-05-30	wednesday	22:30	233°	+5°	0 dB	0°	233°	+5°	293°	-20°	5.0dB	515°K	379057 -297 Hz
2029-05-30	wednesday	23:00	238°	+1°	0 dB	0°	238°	+1°	301°	-20°	4.9dB	509°K	379178 -314 Hz
2029-05-31	Thursday	15:00	121°	+3°	0 dB	0°	121°	+3°	172°	-18°	3.8dB	356°K	383085 +194 Hz
2029-05-31	Thursday	15:30	127°	+7°	0 dB	0°	127°	+7°	179°	-18°	3.7dB	355°K	383207 +177 Hz
2029-05-31	Thursday	16:00	132°	+11°	0 dB	0°	132°	+11°	187°	-18°	3.7dB	353°K	383329 +157 Hz
2029-05-31	Thursday	16:30	138°	+15°	0 dB	0°	138°	+15°	194°	-18°	3.7dB	352°K	383452 +132 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-05-31	Thursday	17:00	145°	+18°	0 dB	0°	145°	+18°	201°	-17°	3.7dB	350°K	383574 +104 Hz
2029-05-31	Thursday	17:30	152°	+21°	0 dB	0°	152°	+21°	208°	-17°	3.7dB	348°K	383696 +74 Hz
2029-05-31	Thursday	18:00	159°	+23°	0 dB	0°	159°	+23°	216°	-17°	3.7dB	347°K	383818 +40 Hz
2029-05-31	Thursday	18:30	166°	+25°	0 dB	0°	166°	+25°	223°	-17°	3.7dB	345°K	383940 +6 Hz
2029-05-31	Thursday	19:00	174°	+26°	0 dB	0°	174°	+26°	230°	-17°	3.7dB	344°K	384062 -31 Hz
2029-05-31	Thursday	19:30	181°	+26°	0 dB	0°	181°	+26°	237°	-17°	3.7dB	342°K	384183 -67 Hz
2029-05-31	Thursday	20:00	189°	+25°	0 dB	0°	189°	+25°	245°	-17°	3.6dB	340°K	384305 -104 Hz
2029-05-31	Thursday	20:30	197°	+24°	0 dB	0°	197°	+24°	252°	-17°	3.6dB	339°K	384427 -140 Hz
2029-05-31	Thursday	21:00	204°	+23°	0 dB	0°	204°	+23°	259°	-17°	3.6dB	337°K	384549 -175 Hz
2029-05-31	Thursday	21:30	211°	+20°	0 dB	0°	211°	+20°	266°	-17°	3.6dB	336°K	384670 -207 Hz
2029-05-31	Thursday	22:00	218°	+18°	0 dB	0°	218°	+18°	274°	-17°	3.6dB	334°K	384792 -237 Hz
2029-05-31	Thursday	22:30	224°	+14°	0 dB	0°	224°	+14°	281°	-17°	3.6dB	333°K	384913 -265 Hz
2029-05-31	Thursday	23:00	231°	+11°	0 dB	0°	231°	+11°	288°	-16°	3.6dB	331°K	385034 -288 Hz
2029-05-31	Thursday	23:30	236°	+7°	0 dB	0°	236°	+7°	295°	-16°	3.6dB	329°K	385155 -308 Hz
2029-06-01	Friday	00:00	242°	+3°	0 dB	0°	242°	+3°	303°	-16°	3.5dB	328°K	385276 -324 Hz
2029-06-01	Friday	15:30	115°	+4°	0 dB	0°	115°	+4°	168°	-14°	3.7dB	326°K	388958 +213 Hz
2029-06-01	Friday	16:00	120°	+8°	0 dB	0°	120°	+8°	175°	-13°	3.7dB	326°K	389074 +199 Hz
2029-06-01	Friday	16:30	126°	+12°	0 dB	0°	126°	+12°	182°	-13°	3.7dB	326°K	389190 +180 Hz
2029-06-01	Friday	17:00	132°	+16°	0 dB	0°	132°	+16°	189°	-13°	3.7dB	326°K	389305 +158 Hz
2029-06-01	Friday	17:30	139°	+20°	0 dB	0°	139°	+20°	197°	-13°	3.7dB	326°K	389420 +131 Hz
2029-06-01	Friday	18:00	145°	+23°	0 dB	0°	145°	+23°	204°	-13°	3.7dB	326°K	389535 +101 Hz
2029-06-01	Friday	18:30	153°	+26°	0 dB	0°	153°	+26°	211°	-13°	3.7dB	326°K	389650 +69 Hz
2029-06-01	Friday	19:00	160°	+28°	0 dB	0°	160°	+28°	218°	-13°	3.7dB	326°K	389764 +34 Hz
2029-06-01	Friday	19:30	168°	+30°	0 dB	0°	168°	+30°	226°	-13°	3.7dB	326°K	389879 -3 Hz
2029-06-01	Friday	20:00	177°	+30°	0 dB	0°	177°	+30°	233°	-13°	3.7dB	326°K	389993 -40 Hz
2029-06-01	Friday	20:30	185°	+30°	0 dB	0°	185°	+30°	240°	-13°	3.7dB	326°K	390106 -78 Hz
2029-06-01	Friday	21:00	193°	+30°	0 dB	0°	193°	+30°	248°	-12°	3.7dB	326°K	390220 -115 Hz
2029-06-01	Friday	21:30	201°	+28°	0 dB	0°	201°	+28°	255°	-12°	3.8dB	326°K	390333 -152 Hz
2029-06-01	Friday	22:00	209°	+26°	0 dB	0°	209°	+26°	262°	-12°	3.8dB	326°K	390446 -186 Hz
2029-06-01	Friday	22:30	216°	+24°	0 dB	0°	216°	+24°	269°	-12°	3.8dB	326°K	390559 -219 Hz
2029-06-01	Friday	23:00	223°	+20°	0 dB	0°	223°	+20°	277°	-12°	3.8dB	326°K	390671 -249 Hz
2029-06-01	Friday	23:30	230°	+17°	0 dB	0°	230°	+17°	284°	-12°	3.8dB	326°K	390783 -275 Hz
2029-06-02	Saturday	00:00	236°	+13°	0 dB	0°	236°	+13°	291°	-12°	3.8dB	326°K	390895 -298 Hz
2029-06-02	Saturday	00:30	242°	+9°	0 dB	0°	242°	+9°	298°	-12°	3.8dB	326°K	391007 -316 Hz
2029-06-02	Saturday	01:00	247°	+4°	0 dB	0°	247°	+4°	306°	-12°	3.8dB	326°K	391118 -331 Hz
2029-06-02	Saturday	01:30	253°	-0°	0 dB	0°	253°	-0°	313°	-12°	3.8dB	326°K	391229 -340 Hz
2029-06-02	Saturday	15:30	104°	-0°	0 dB	0°	104°	-0°	157°	-9°	3.7dB	307°K	394211 +241 Hz
2029-06-02	Saturday	16:00	109°	+5°	0 dB	0°	109°	+5°	164°	-9°	3.7dB	306°K	394312 +233 Hz
2029-06-02	Saturday	16:30	114°	+10°	0 dB	0°	114°	+10°	171°	-9°	3.7dB	305°K	394414 +221 Hz
2029-06-02	Saturday	17:00	120°	+14°	0 dB	0°	120°	+14°	178°	-9°	3.7dB	304°K	394515 +204 Hz
2029-06-02	Saturday	17:30	126°	+19°	0 dB	0°	126°	+19°	186°	-8°	3.7dB	303°K	394615 +183 Hz
2029-06-02	Saturday	18:00	133°	+23°	0 dB	0°	133°	+23°	193°	-8°	3.7dB	302°K	394715 +157 Hz
2029-06-02	Saturday	18:30	140°	+26°	0 dB	0°	140°	+26°	200°	-8°	3.7dB	301°K	394815 +129 Hz
2029-06-02	Saturday	19:00	147°	+29°	0 dB	0°	147°	+29°	208°	-8°	3.7dB	300°K	394914 +97 Hz
2029-06-02	Saturday	19:30	155°	+32°	0 dB	0°	155°	+32°	215°	-8°	3.6dB	299°K	395013 +62 Hz
2029-06-02	Saturday	20:00	163°	+34°	0 dB	0°	163°	+34°	222°	-8°	3.6dB	298°K	395112 +26 Hz
2029-06-02	Saturday	20:30	172°	+35°	0 dB	0°	172°	+35°	229°	-8°	3.6dB	297°K	395210 -12 Hz
2029-06-02	Saturday	21:00	181°	+35°	0 dB	0°	181°	+35°	237°	-8°	3.6dB	296°K	395307 -51 Hz
2029-06-02	Saturday	21:30	190°	+35°	0 dB	0°	190°	+35°	244°	-8°	3.6dB	294°K	395405 -89 Hz
2029-06-02	Saturday	22:00	198°	+34°	0 dB	0°	198°	+34°	251°	-8°	3.6dB	293°K	395502 -127 Hz
2029-06-02	Saturday	22:30	207°	+32°	0 dB	0°	207°	+32°	259°	-7°	3.6dB	291°K	395598 -163 Hz
2029-06-02	Saturday	23:00	215°	+29°	0 dB	0°	215°	+29°	266°	-7°	3.6dB	289°K	395695 -198 Hz
2029-06-02	Saturday	23:30	222°	+26°	0 dB	0°	222°	+26°	273°	-7°	3.5dB	288°K	395790 -229 Hz
2029-06-03	Sunday	00:00	229°	+23°	0 dB	0°	229°	+23°	280°	-7°	3.5dB	286°K	395886 -258 Hz
2029-06-03	Sunday	00:30	236°	+19°	0 dB	0°	236°	+19°	288°	-7°	3.5dB	284°K	395981 -283 Hz
2029-06-03	Sunday	01:00	242°	+15°	0 dB	0°	242°	+15°	295°	-7°	3.5dB	283°K	396075 -304 Hz
2029-06-03	Sunday	01:30	248°	+10°	0 dB	0°	248°	+10°	302°	-7°	3.5dB	281°K	396169 -320 Hz
2029-06-03	Sunday	02:00	253°	+5°	0 dB	0°	253°	+5°	310°	-7°	3.5dB	280°K	396263 -332 Hz
2029-06-03	Sunday	02:30	259°	+1°	0 dB	0°	259°	+1°	317°	-7°	3.4dB	278°K	396356 -339 Hz
2029-06-03	Sunday	16:00	098°	+2°	0 dB	0°	098°	+2°	154°	-4°	3.1dB	243°K	398712 +258 Hz
2029-06-03	Sunday	16:30	103°	+7°	0 dB	0°	103°	+7°	161°	-4°	3.1dB	243°K	398792 +252 Hz
2029-06-03	Sunday	17:00	109°	+11°	0 dB	0°	109°	+11°	168°	-4°	3.1dB	243°K	398873 +242 Hz
2029-06-03	Sunday	17:30	114°	+16°	0 dB	0°	114°	+16°	175°	-4°	3.1dB	243°K	398953 +226 Hz
2029-06-03	Sunday	18:00	120°	+21°	0 dB	0°	120°	+21°	183°	-3°	3.1dB	243°K	399032 +207 Hz
2029-06-03	Sunday	18:30	127°	+25°	0 dB	0°	127°	+25°	190°	-3°	3.1dB	243°K	399111 +183 Hz
2029-06-03	Sunday	19:00	134°	+29°	0 dB	0°	134°	+29°	197°	-3°	3.1dB	243°K	399190 +155 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-03	Sunday	19:30	141°	+33°	0 dB	0°	141°	+33°	205°	-3°	3.1dB	243°K	399268 +124 Hz
2029-06-03	Sunday	20:00	149°	+36°	0 dB	0°	149°	+36°	212°	-3°	3.1dB	243°K	399345 +90 Hz
2029-06-03	Sunday	20:30	158°	+38°	0 dB	0°	158°	+38°	219°	-3°	3.1dB	243°K	399422 +53 Hz
2029-06-03	Sunday	21:00	167°	+40°	0 dB	0°	167°	+40°	226°	-3°	3.1dB	243°K	399499 +15 Hz
2029-06-03	Sunday	21:30	177°	+40°	0 dB	0°	177°	+40°	234°	-3°	3.1dB	243°K	399575 -23 Hz
2029-06-03	Sunday	22:00	187°	+40°	0 dB	0°	187°	+40°	241°	-3°	3.1dB	243°K	399651 -62 Hz
2029-06-03	Sunday	22:30	196°	+39°	0 dB	0°	196°	+39°	248°	-2°	3.1dB	243°K	399726 -101 Hz
2029-06-03	Sunday	23:00	205°	+38°	0 dB	0°	205°	+38°	256°	-2°	3.1dB	243°K	399800 -138 Hz
2029-06-03	Sunday	23:30	214°	+35°	0 dB	0°	214°	+35°	263°	-2°	3.1dB	243°K	399875 -174 Hz
2029-06-04	Monday	00:00	222°	+32°	0 dB	0°	222°	+32°	270°	-2°	3.1dB	243°K	399948 -207 Hz
2029-06-04	Monday	00:30	229°	+29°	0 dB	0°	229°	+29°	277°	-2°	3.1dB	243°K	400021 -237 Hz
2029-06-04	Monday	01:00	236°	+25°	0 dB	0°	236°	+25°	285°	-2°	3.1dB	243°K	400094 -264 Hz
2029-06-04	Monday	01:30	243°	+20°	0 dB	0°	243°	+20°	292°	-2°	3.1dB	243°K	400166 -287 Hz
2029-06-04	Monday	02:00	249°	+16°	0 dB	0°	249°	+16°	299°	-2°	3.1dB	243°K	400238 -305 Hz
2029-06-04	Monday	02:30	255°	+11°	0 dB	0°	255°	+11°	307°	-2°	3.1dB	243°K	400309 -319 Hz
2029-06-04	Monday	03:00	260°	+6°	0 dB	0°	260°	+6°	314°	-2°	3.1dB	243°K	400380 -328 Hz
2029-06-04	Monday	03:30	266°	+1°	0 dB	0°	266°	+1°	321°	-1°	3.1dB	243°K	400450 -332 Hz
2029-06-04	Monday	16:30	093°	+3°	0 dB	0°	093°	+3°	151°	+1°	3.2dB	240°K	402096 +274 Hz
2029-06-04	Monday	17:00	098°	+8°	0 dB	0°	098°	+8°	158°	+1°	3.2dB	240°K	402153 +270 Hz
2029-06-04	Monday	17:30	103°	+14°	0 dB	0°	103°	+14°	165°	+1°	3.2dB	240°K	402208 +261 Hz
2029-06-04	Monday	18:00	109°	+18°	0 dB	0°	109°	+18°	173°	+2°	3.2dB	240°K	402264 +247 Hz
2029-06-04	Monday	18:30	115°	+23°	0 dB	0°	115°	+23°	180°	+2°	3.2dB	240°K	402318 +229 Hz
2029-06-04	Monday	19:00	121°	+28°	0 dB	0°	121°	+28°	187°	+2°	3.2dB	240°K	402373 +206 Hz
2029-06-04	Monday	19:30	128°	+32°	0 dB	0°	128°	+32°	195°	+2°	3.2dB	239°K	402426 +179 Hz
2029-06-04	Monday	20:00	136°	+36°	0 dB	0°	136°	+36°	202°	+2°	3.2dB	239°K	402480 +149 Hz
2029-06-04	Monday	20:30	144°	+39°	0 dB	0°	144°	+39°	209°	+2°	3.2dB	239°K	402532 +116 Hz
2029-06-04	Monday	21:00	153°	+42°	0 dB	0°	153°	+42°	217°	+2°	3.2dB	239°K	402584 +80 Hz
2029-06-04	Monday	21:30	163°	+44°	0 dB	0°	163°	+44°	224°	+2°	3.2dB	239°K	402636 +43 Hz
2029-06-04	Monday	22:00	173°	+45°	0 dB	0°	173°	+45°	231°	+2°	3.2dB	239°K	402687 +4 Hz
2029-06-04	Monday	22:30	183°	+46°	0 dB	0°	183°	+46°	238°	+2°	3.2dB	239°K	402737 -35 Hz
2029-06-04	Monday	23:00	194°	+45°	0 dB	0°	194°	+45°	246°	+3°	3.2dB	239°K	402787 -74 Hz
2029-06-04	Monday	23:30	204°	+43°	0 dB	0°	204°	+43°	253°	+3°	3.2dB	239°K	402837 -112 Hz
2029-06-05	Tuesday	00:00	213°	+41°	0 dB	0°	213°	+41°	260°	+3°	3.2dB	239°K	402886 -149 Hz
2029-06-05	Tuesday	00:30	222°	+38°	0 dB	0°	222°	+38°	268°	+3°	3.2dB	239°K	402934 -183 Hz
2029-06-05	Tuesday	01:00	230°	+34°	0 dB	0°	230°	+34°	275°	+3°	3.2dB	239°K	402982 -214 Hz
2029-06-05	Tuesday	01:30	237°	+30°	0 dB	0°	237°	+30°	282°	+3°	3.2dB	239°K	403029 -242 Hz
2029-06-05	Tuesday	02:00	244°	+26°	0 dB	0°	244°	+26°	289°	+3°	3.2dB	239°K	403076 -266 Hz
2029-06-05	Tuesday	02:30	250°	+21°	0 dB	0°	250°	+21°	297°	+3°	3.2dB	239°K	403122 -286 Hz
2029-06-05	Tuesday	03:00	256°	+17°	0 dB	0°	256°	+17°	304°	+3°	3.2dB	239°K	403168 -302 Hz
2029-06-05	Tuesday	03:30	262°	+12°	0 dB	0°	262°	+12°	311°	+4°	3.2dB	239°K	403213 -312 Hz
2029-06-05	Tuesday	04:00	267°	+7°	0 dB	0°	267°	+7°	319°	+4°	3.2dB	239°K	403258 -318 Hz
2029-06-05	Tuesday	04:30	272°	+2°	0 dB	0°	272°	+2°	326°	+4°	3.2dB	239°K	403302 -319 Hz
2029-06-05	Tuesday	16:30	082°	+0°	0 dB	0°	082°	+0°	141°	+6°	3.3dB	245°K	404200 +285 Hz
2029-06-05	Tuesday	17:00	087°	+5°	0 dB	0°	087°	+5°	148°	+6°	3.4dB	246°K	404231 +287 Hz
2029-06-05	Tuesday	17:30	092°	+10°	0 dB	0°	092°	+10°	156°	+6°	3.4dB	246°K	404261 +285 Hz
2029-06-05	Tuesday	18:00	098°	+15°	0 dB	0°	098°	+15°	163°	+6°	3.4dB	247°K	404291 +278 Hz
2029-06-05	Tuesday	18:30	103°	+20°	0 dB	0°	103°	+20°	170°	+7°	3.4dB	247°K	404320 +265 Hz
2029-06-05	Tuesday	19:00	109°	+25°	0 dB	0°	109°	+25°	177°	+7°	3.4dB	248°K	404349 +249 Hz
2029-06-05	Tuesday	19:30	115°	+30°	0 dB	0°	115°	+30°	185°	+7°	3.4dB	248°K	404377 +227 Hz
2029-06-05	Tuesday	20:00	122°	+35°	0 dB	0°	122°	+35°	192°	+7°	3.4dB	249°K	404404 +202 Hz
2029-06-05	Tuesday	20:30	130°	+39°	0 dB	0°	130°	+39°	199°	+7°	3.4dB	249°K	404431 +173 Hz
2029-06-05	Tuesday	21:00	138°	+43°	0 dB	0°	138°	+43°	207°	+7°	3.4dB	250°K	404458 +141 Hz
2029-06-05	Tuesday	21:30	147°	+46°	0 dB	0°	147°	+46°	214°	+7°	3.4dB	251°K	404483 +106 Hz
2029-06-05	Tuesday	22:00	157°	+48°	0 dB	0°	157°	+48°	221°	+7°	3.4dB	251°K	404509 +69 Hz
2029-06-05	Tuesday	22:30	168°	+50°	0 dB	0°	168°	+50°	228°	+7°	3.4dB	252°K	404534 +31 Hz
2029-06-05	Tuesday	23:00	180°	+51°	0 dB	0°	180°	+51°	236°	+7°	3.5dB	252°K	404558 -8 Hz
2029-06-05	Tuesday	23:30	191°	+50°	0 dB	0°	191°	+50°	243°	+7°	3.5dB	253°K	404582 -46 Hz
2029-06-06	wednesday	00:00	202°	+49°	0 dB	0°	202°	+49°	250°	+8°	3.5dB	253°K	404605 -85 Hz
2029-06-06	wednesday	00:30	213°	+47°	0 dB	0°	213°	+47°	258°	+8°	3.5dB	254°K	404628 -122 Hz
2029-06-06	wednesday	01:00	222°	+44°	0 dB	0°	222°	+44°	265°	+8°	3.5dB	254°K	404650 -156 Hz
2029-06-06	wednesday	01:30	231°	+40°	0 dB	0°	231°	+40°	272°	+8°	3.5dB	255°K	404672 -189 Hz
2029-06-06	wednesday	02:00	238°	+36°	0 dB	0°	238°	+36°	280°	+8°	3.5dB	255°K	404693 -218 Hz
2029-06-06	wednesday	02:30	245°	+32°	0 dB	0°	245°	+32°	287°	+8°	3.5dB	256°K	404713 -243 Hz
2029-06-06	wednesday	03:00	252°	+27°	0 dB	0°	252°	+27°	294°	+8°	3.5dB	256°K	404734 -264 Hz
2029-06-06	wednesday	03:30	258°	+22°	0 dB	0°	258°	+22°	301°	+8°	3.5dB	257°K	404753 -281 Hz
2029-06-06	wednesday	04:00	263°	+17°	0 dB	0°	263°	+17°	309°	+8°	3.5dB	257°K	404772 -293 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-06	wednesday04:30	269°	+12°	0 dB	0°	269°	+12°	316°	+8°	3.5dB	258°K	404791	-301 Hz
2029-06-06	wednesday05:00	274°	+7°	0 dB	0°	274°	+7°	323°	+9°	3.5dB	258°K	404809	-303 Hz
2029-06-06	wednesday05:30	279°	+2°	0 dB	0°	279°	+2°	331°	+9°	3.6dB	259°K	404826	-301 Hz
2029-06-06	wednesday17:00	077°	+2°	0 dB	0°	077°	+2°	138°	+11°	3.7dB	271°K	405084	+293 Hz
2029-06-06	wednesday17:30	082°	+7°	0 dB	0°	082°	+7°	146°	+11°	3.7dB	272°K	405089	+297 Hz
2029-06-06	wednesday18:00	087°	+12°	0 dB	0°	087°	+12°	153°	+11°	3.7dB	272°K	405094	+297 Hz
2029-06-06	wednesday18:30	092°	+17°	0 dB	0°	092°	+17°	160°	+11°	3.8dB	273°K	405098	+291 Hz
2029-06-06	wednesday19:00	098°	+22°	0 dB	0°	098°	+22°	167°	+11°	3.8dB	273°K	405101	+281 Hz
2029-06-06	wednesday19:30	103°	+27°	0 dB	0°	103°	+27°	175°	+11°	3.8dB	274°K	405104	+266 Hz
2029-06-06	wednesday20:00	109°	+32°	0 dB	0°	109°	+32°	182°	+11°	3.8dB	275°K	405107	+246 Hz
2029-06-06	wednesday20:30	116°	+37°	0 dB	0°	116°	+37°	189°	+11°	3.8dB	275°K	405109	+223 Hz
2029-06-06	wednesday21:00	123°	+41°	0 dB	0°	123°	+41°	197°	+12°	3.8dB	276°K	405110	+195 Hz
2029-06-06	wednesday21:30	131°	+45°	0 dB	0°	131°	+45°	204°	+12°	3.8dB	276°K	405111	+165 Hz
2029-06-06	wednesday22:00	140°	+49°	0 dB	0°	140°	+49°	211°	+12°	3.8dB	277°K	405112	+131 Hz
2029-06-06	wednesday22:30	151°	+52°	0 dB	0°	151°	+52°	218°	+12°	3.8dB	277°K	405112	+96 Hz
2029-06-06	wednesday23:00	162°	+54°	0 dB	0°	162°	+54°	226°	+12°	3.8dB	278°K	405112	+58 Hz
2029-06-06	wednesday23:30	175°	+55°	0 dB	0°	175°	+55°	233°	+12°	3.8dB	278°K	405111	+20 Hz
2029-06-07	Thursday 00:00	187°	+55°	0 dB	0°	187°	+55°	240°	+12°	3.8dB	279°K	405109	-18 Hz
2029-06-07	Thursday 00:30	200°	+54°	0 dB	0°	200°	+54°	248°	+12°	3.8dB	279°K	405107	-56 Hz
2029-06-07	Thursday 01:00	211°	+52°	0 dB	0°	211°	+52°	255°	+12°	3.8dB	280°K	405105	-93 Hz
2029-06-07	Thursday 01:30	222°	+49°	0 dB	0°	222°	+49°	262°	+12°	3.9dB	281°K	405102	-128 Hz
2029-06-07	Thursday 02:00	231°	+45°	0 dB	0°	231°	+45°	269°	+12°	3.9dB	281°K	405099	-161 Hz
2029-06-07	Thursday 02:30	239°	+41°	0 dB	0°	239°	+41°	277°	+13°	3.9dB	282°K	405095	-191 Hz
2029-06-07	Thursday 03:00	246°	+37°	0 dB	0°	246°	+37°	284°	+13°	3.9dB	282°K	405090	-218 Hz
2029-06-07	Thursday 03:30	253°	+32°	0 dB	0°	253°	+32°	291°	+13°	3.9dB	283°K	405085	-240 Hz
2029-06-07	Thursday 04:00	259°	+27°	0 dB	0°	259°	+27°	299°	+13°	3.9dB	283°K	405080	-259 Hz
2029-06-07	Thursday 04:30	264°	+22°	0 dB	0°	264°	+22°	306°	+13°	3.9dB	284°K	405074	-272 Hz
2029-06-07	Thursday 05:00	270°	+17°	0 dB	0°	270°	+17°	313°	+13°	3.9dB	284°K	405068	-282 Hz
2029-06-07	Thursday 05:30	275°	+12°	0 dB	0°	275°	+12°	320°	+13°	3.9dB	285°K	405061	-286 Hz
2029-06-07	Thursday 06:00	280°	+7°	0 dB	0°	280°	+7°	328°	+13°	3.9dB	285°K	405054	-286 Hz
2029-06-07	Thursday 06:30	286°	+3°	0 dB	0°	286°	+3°	335°	+13°	3.9dB	286°K	405046	-281 Hz
2029-06-07	Thursday 17:30	072°	+3°	0 dB	0°	072°	+3°	135°	+15°	4.0dB	297°K	404758	+298 Hz
2029-06-07	Thursday 18:00	077°	+8°	0 dB	0°	077°	+8°	142°	+15°	4.0dB	297°K	404739	+304 Hz
2029-06-07	Thursday 18:30	082°	+13°	0 dB	0°	082°	+13°	150°	+15°	4.0dB	297°K	404721	+305 Hz
2029-06-07	Thursday 19:00	087°	+18°	0 dB	0°	087°	+18°	157°	+15°	4.1dB	298°K	404701	+301 Hz
2029-06-07	Thursday 19:30	092°	+23°	0 dB	0°	092°	+23°	164°	+15°	4.1dB	298°K	404682	+293 Hz
2029-06-07	Thursday 20:00	097°	+28°	0 dB	0°	097°	+28°	172°	+16°	4.1dB	298°K	404662	+280 Hz
2029-06-07	Thursday 20:30	103°	+33°	0 dB	0°	103°	+33°	179°	+16°	4.1dB	298°K	404641	+263 Hz
2029-06-07	Thursday 21:00	109°	+38°	0 dB	0°	109°	+38°	186°	+16°	4.1dB	299°K	404620	+241 Hz
2029-06-07	Thursday 21:30	116°	+43°	0 dB	0°	116°	+43°	193°	+16°	4.1dB	299°K	404599	+216 Hz
2029-06-07	Thursday 22:00	124°	+47°	0 dB	0°	124°	+47°	201°	+16°	4.1dB	299°K	404577	+187 Hz
2029-06-07	Thursday 22:30	133°	+51°	0 dB	0°	133°	+51°	208°	+16°	4.1dB	300°K	404554	+155 Hz
2029-06-07	Thursday 23:00	143°	+55°	0 dB	0°	143°	+55°	215°	+16°	4.1dB	300°K	404532	+121 Hz
2029-06-07	Thursday 23:30	155°	+57°	0 dB	0°	155°	+57°	222°	+16°	4.1dB	300°K	404508	+85 Hz
2029-06-08	Friday 00:00	168°	+59°	0 dB	0°	168°	+59°	230°	+16°	4.1dB	300°K	404485	+48 Hz
2029-06-08	Friday 00:30	182°	+60°	0 dB	0°	182°	+60°	237°	+16°	4.1dB	301°K	404461	+10 Hz
2029-06-08	Friday 01:00	196°	+59°	0 dB	0°	196°	+59°	244°	+16°	4.1dB	301°K	404436	-27 Hz
2029-06-08	Friday 01:30	209°	+57°	0 dB	0°	209°	+57°	252°	+16°	4.1dB	301°K	404412	-64 Hz
2029-06-08	Friday 02:00	220°	+54°	0 dB	0°	220°	+54°	259°	+16°	4.1dB	302°K	404386	-100 Hz
2029-06-08	Friday 02:30	230°	+51°	0 dB	0°	230°	+51°	266°	+17°	4.1dB	302°K	404361	-133 Hz
2029-06-08	Friday 03:00	239°	+47°	0 dB	0°	239°	+47°	273°	+17°	4.1dB	302°K	404334	-164 Hz
2029-06-08	Friday 03:30	246°	+42°	0 dB	0°	246°	+42°	281°	+17°	4.1dB	302°K	404308	-191 Hz
2029-06-08	Friday 04:00	253°	+37°	0 dB	0°	253°	+37°	288°	+17°	4.1dB	303°K	404281	-215 Hz
2029-06-08	Friday 04:30	259°	+33°	0 dB	0°	259°	+33°	295°	+17°	4.1dB	303°K	404254	-235 Hz
2029-06-08	Friday 05:00	265°	+28°	0 dB	0°	265°	+28°	302°	+17°	4.1dB	303°K	404226	-251 Hz
2029-06-08	Friday 05:30	271°	+23°	0 dB	0°	271°	+23°	310°	+17°	4.1dB	304°K	404198	-262 Hz
2029-06-08	Friday 06:00	276°	+18°	0 dB	0°	276°	+18°	317°	+17°	4.1dB	304°K	404169	-268 Hz
2029-06-08	Friday 06:30	281°	+13°	0 dB	0°	281°	+13°	324°	+17°	4.1dB	305°K	404140	-270 Hz
2029-06-08	Friday 07:00	286°	+8°	0 dB	0°	286°	+8°	332°	+17°	4.1dB	306°K	404111	-267 Hz
2029-06-08	Friday 07:30	291°	+3°	0 dB	0°	291°	+3°	339°	+17°	4.1dB	308°K	404081	-260 Hz
2029-06-08	Friday 18:00	067°	+3°	0 dB	0°	067°	+3°	132°	+19°	4.5dB	338°K	403366	+298 Hz
2029-06-08	Friday 18:30	072°	+8°	0 dB	0°	072°	+8°	139°	+19°	4.5dB	340°K	403328	+306 Hz
2029-06-08	Friday 19:00	077°	+13°	0 dB	0°	077°	+13°	146°	+19°	4.5dB	341°K	403289	+309 Hz
2029-06-08	Friday 19:30	082°	+18°	0 dB	0°	082°	+18°	153°	+19°	4.5dB	342°K	403250	+308 Hz
2029-06-08	Friday 20:00	087°	+23°	0 dB	0°	087°	+23°	161°	+19°	4.5dB	344°K	403211	+302 Hz
2029-06-08	Friday 20:30	092°	+28°	0 dB	0°	092°	+28°	168°	+19°	4.5dB	345°K	403171	+292 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-08	Friday	21:00	097°	+33°	0 dB	0°	097°	+33°	175°	+19°	4.5dB	347°K	403131 +277 Hz
2029-06-08	Friday	21:30	103°	+38°	0 dB	0°	103°	+38°	182°	+19°	4.6dB	348°K	403091 +258 Hz
2029-06-08	Friday	22:00	109°	+43°	0 dB	0°	109°	+43°	190°	+19°	4.6dB	349°K	403050 +235 Hz
2029-06-08	Friday	22:30	117°	+48°	0 dB	0°	117°	+48°	197°	+19°	4.6dB	349°K	403009 +208 Hz
2029-06-08	Friday	23:00	125°	+52°	0 dB	0°	125°	+52°	204°	+19°	4.6dB	350°K	402968 +178 Hz
2029-06-08	Friday	23:30	135°	+56°	0 dB	0°	135°	+56°	211°	+20°	4.6dB	351°K	402926 +146 Hz
2029-06-09	Saturday	00:00	146°	+59°	0 dB	0°	146°	+59°	219°	+20°	4.6dB	352°K	402884 +112 Hz
2029-06-09	Saturday	00:30	159°	+62°	0 dB	0°	159°	+62°	226°	+20°	4.6dB	352°K	402842 +76 Hz
2029-06-09	Saturday	01:00	174°	+63°	0 dB	0°	174°	+63°	233°	+20°	4.6dB	353°K	402799 +39 Hz
2029-06-09	Saturday	01:30	189°	+63°	0 dB	0°	189°	+63°	241°	+20°	4.6dB	354°K	402756 +2 Hz
2029-06-09	Saturday	02:00	204°	+62°	0 dB	0°	204°	+62°	248°	+20°	4.6dB	355°K	402713 -35 Hz
2029-06-09	Saturday	02:30	217°	+59°	0 dB	0°	217°	+59°	255°	+20°	4.6dB	355°K	402669 -70 Hz
2029-06-09	Saturday	03:00	228°	+56°	0 dB	0°	228°	+56°	262°	+20°	4.6dB	356°K	402625 -104 Hz
2029-06-09	Saturday	03:30	238°	+52°	0 dB	0°	238°	+52°	270°	+20°	4.6dB	357°K	402581 -135 Hz
2029-06-09	Saturday	04:00	246°	+47°	0 dB	0°	246°	+47°	277°	+20°	4.6dB	358°K	402536 -164 Hz
2029-06-09	Saturday	04:30	253°	+42°	0 dB	0°	253°	+42°	284°	+20°	4.6dB	358°K	402491 -189 Hz
2029-06-09	Saturday	05:00	259°	+38°	0 dB	0°	259°	+38°	291°	+20°	4.6dB	359°K	402446 -211 Hz
2029-06-09	Saturday	05:30	265°	+33°	0 dB	0°	265°	+33°	299°	+20°	4.6dB	360°K	402400 -229 Hz
2029-06-09	Saturday	06:00	270°	+28°	0 dB	0°	270°	+28°	306°	+20°	4.7dB	361°K	402354 -242 Hz
2029-06-09	Saturday	06:30	276°	+23°	0 dB	0°	276°	+23°	313°	+20°	4.7dB	361°K	402308 -251 Hz
2029-06-09	Saturday	07:00	281°	+18°	0 dB	0°	281°	+18°	320°	+20°	4.7dB	362°K	402261 -255 Hz
2029-06-09	Saturday	07:30	286°	+13°	0 dB	0°	286°	+13°	328°	+21°	4.7dB	363°K	402214 -255 Hz
2029-06-09	Saturday	08:00	291°	+8°	0 dB	0°	291°	+8°	335°	+21°	4.7dB	364°K	402167 -250 Hz
2029-06-09	Saturday	08:30	296°	+3°	0 dB	0°	296°	+3°	342°	+21°	4.7dB	364°K	402120 -241 Hz
2029-06-09	Saturday	18:30	062°	+3°	0 dB	0°	062°	+3°	127°	+22°	4.6dB	359°K	401107 +294 Hz
2029-06-09	Saturday	19:00	067°	+7°	0 dB	0°	067°	+7°	135°	+22°	4.6dB	358°K	401054 +304 Hz
2029-06-09	Saturday	19:30	072°	+12°	0 dB	0°	072°	+12°	142°	+22°	4.6dB	357°K	401000 +310 Hz
2029-06-09	Saturday	20:00	076°	+17°	0 dB	0°	076°	+17°	149°	+22°	4.5dB	356°K	400946 +311 Hz
2029-06-09	Saturday	20:30	081°	+22°	0 dB	0°	081°	+22°	156°	+22°	4.5dB	356°K	400892 +308 Hz
2029-06-09	Saturday	21:00	086°	+27°	0 dB	0°	086°	+27°	164°	+22°	4.5dB	355°K	400837 +301 Hz
2029-06-09	Saturday	21:30	091°	+32°	0 dB	0°	091°	+32°	171°	+22°	4.5dB	354°K	400782 +289 Hz
2029-06-09	Saturday	22:00	097°	+37°	0 dB	0°	097°	+37°	178°	+22°	4.5dB	353°K	400727 +272 Hz
2029-06-09	Saturday	22:30	103°	+42°	0 dB	0°	103°	+42°	185°	+22°	4.5dB	353°K	400672 +252 Hz
2029-06-09	Saturday	23:00	109°	+47°	0 dB	0°	109°	+47°	193°	+22°	4.5dB	352°K	400616 +228 Hz
2029-06-09	Saturday	23:30	117°	+52°	0 dB	0°	117°	+52°	200°	+22°	4.5dB	351°K	400560 +201 Hz
2029-06-10	Sunday	00:00	126°	+56°	0 dB	0°	126°	+56°	207°	+22°	4.5dB	350°K	400504 +170 Hz
2029-06-10	Sunday	00:30	136°	+60°	0 dB	0°	136°	+60°	214°	+22°	4.4dB	349°K	400448 +138 Hz
2029-06-10	Sunday	01:00	149°	+63°	0 dB	0°	149°	+63°	222°	+22°	4.4dB	349°K	400391 +103 Hz
2029-06-10	Sunday	01:30	164°	+65°	0 dB	0°	164°	+65°	229°	+22°	4.4dB	348°K	400335 +68 Hz
2029-06-10	Sunday	02:00	180°	+66°	0 dB	0°	180°	+66°	236°	+22°	4.4dB	348°K	400278 +31 Hz
2029-06-10	Sunday	02:30	196°	+65°	0 dB	0°	196°	+65°	243°	+22°	4.4dB	349°K	400220 -5 Hz
2029-06-10	Sunday	03:00	211°	+63°	0 dB	0°	211°	+63°	251°	+23°	4.4dB	349°K	400163 -40 Hz
2029-06-10	Sunday	03:30	224°	+60°	0 dB	0°	224°	+60°	258°	+23°	4.4dB	350°K	400105 -75 Hz
2029-06-10	Sunday	04:00	235°	+56°	0 dB	0°	235°	+56°	265°	+23°	4.5dB	351°K	400047 -107 Hz
2029-06-10	Sunday	04:30	244°	+52°	0 dB	0°	244°	+52°	272°	+23°	4.5dB	352°K	399989 -137 Hz
2029-06-10	Sunday	05:00	251°	+47°	0 dB	0°	251°	+47°	280°	+23°	4.5dB	353°K	399930 -164 Hz
2029-06-10	Sunday	05:30	258°	+42°	0 dB	0°	258°	+42°	287°	+23°	4.5dB	353°K	399872 -188 Hz
2029-06-10	Sunday	06:00	264°	+37°	0 dB	0°	264°	+37°	294°	+23°	4.5dB	354°K	399813 -207 Hz
2029-06-10	Sunday	06:30	269°	+32°	0 dB	0°	269°	+32°	301°	+23°	4.5dB	355°K	399754 -223 Hz
2029-06-10	Sunday	07:00	274°	+27°	0 dB	0°	274°	+27°	309°	+23°	4.5dB	356°K	399694 -235 Hz
2029-06-10	Sunday	07:30	279°	+22°	0 dB	0°	279°	+22°	316°	+23°	4.5dB	357°K	399635 -242 Hz
2029-06-10	Sunday	08:00	284°	+17°	0 dB	0°	284°	+17°	323°	+23°	4.5dB	357°K	399575 -245 Hz
2029-06-10	Sunday	08:30	289°	+13°	0 dB	0°	289°	+13°	330°	+23°	4.5dB	358°K	399515 -243 Hz
2029-06-10	Sunday	09:00	294°	+8°	0 dB	0°	294°	+8°	338°	+23°	4.5dB	359°K	399455 -237 Hz
2029-06-10	Sunday	09:30	299°	+4°	0 dB	0°	299°	+4°	345°	+23°	4.5dB	360°K	399394 -227 Hz
2029-06-10	Sunday	19:00	057°	+1°	0 dB	0°	057°	+1°	122°	+24°	4.6dB	377°K	398209 +286 Hz
2029-06-10	Sunday	19:30	062°	+5°	0 dB	0°	062°	+5°	130°	+24°	4.6dB	378°K	398145 +299 Hz
2029-06-10	Sunday	20:00	067°	+10°	0 dB	0°	067°	+10°	137°	+24°	4.7dB	379°K	398081 +307 Hz
2029-06-10	Sunday	20:30	072°	+15°	0 dB	0°	072°	+15°	144°	+24°	4.7dB	381°K	398016 +312 Hz
2029-06-10	Sunday	21:00	077°	+20°	0 dB	0°	077°	+20°	151°	+24°	4.7dB	382°K	397952 +312 Hz
2029-06-10	Sunday	21:30	081°	+25°	0 dB	0°	081°	+25°	159°	+24°	4.7dB	383°K	397887 +307 Hz
2029-06-10	Sunday	22:00	086°	+30°	0 dB	0°	086°	+30°	166°	+24°	4.7dB	384°K	397822 +298 Hz
2029-06-10	Sunday	22:30	091°	+35°	0 dB	0°	091°	+35°	173°	+24°	4.7dB	385°K	397757 +285 Hz
2029-06-10	Sunday	23:00	097°	+40°	0 dB	0°	097°	+40°	180°	+24°	4.7dB	386°K	397691 +268 Hz
2029-06-10	Sunday	23:30	103°	+45°	0 dB	0°	103°	+45°	188°	+24°	4.7dB	387°K	397626 +246 Hz
2029-06-11	Monday	00:00	110°	+50°	0 dB	0°	110°	+50°	195°	+24°	4.7dB	389°K	397560 +222 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-11	Monday	00:30	118°	+54°	0 dB	0°	118°	+54°	202°	+24°	4.7dB	390°K	397494 +194 Hz
2029-06-11	Monday	01:00	127°	+59°	0 dB	0°	127°	+59°	209°	+24°	4.7dB	391°K	397428 +163 Hz
2029-06-11	Monday	01:30	138°	+62°	0 dB	0°	138°	+62°	217°	+24°	4.7dB	392°K	397362 +130 Hz
2029-06-11	Monday	02:00	152°	+65°	0 dB	0°	152°	+65°	224°	+24°	4.8dB	393°K	397296 +96 Hz
2029-06-11	Monday	02:30	168°	+67°	0 dB	0°	168°	+67°	231°	+24°	4.8dB	394°K	397230 +61 Hz
2029-06-11	Monday	03:00	185°	+67°	0 dB	0°	185°	+67°	238°	+24°	4.8dB	395°K	397163 +25 Hz
2029-06-11	Monday	03:30	202°	+66°	0 dB	0°	202°	+66°	246°	+24°	4.8dB	397°K	397096 -11 Hz
2029-06-11	Monday	04:00	217°	+64°	0 dB	0°	217°	+64°	253°	+24°	4.8dB	398°K	397030 -46 Hz
2029-06-11	Monday	04:30	229°	+60°	0 dB	0°	229°	+60°	260°	+24°	4.8dB	399°K	396963 -79 Hz
2029-06-11	Monday	05:00	239°	+56°	0 dB	0°	239°	+56°	267°	+24°	4.8dB	400°K	396896 -110 Hz
2029-06-11	Monday	05:30	248°	+52°	0 dB	0°	248°	+52°	274°	+24°	4.8dB	401°K	396828 -139 Hz
2029-06-11	Monday	06:00	255°	+47°	0 dB	0°	255°	+47°	282°	+24°	4.8dB	403°K	396761 -165 Hz
2029-06-11	Monday	06:30	261°	+42°	0 dB	0°	261°	+42°	289°	+24°	4.8dB	404°K	396693 -187 Hz
2029-06-11	Monday	07:00	267°	+37°	0 dB	0°	267°	+37°	296°	+24°	4.8dB	405°K	396626 -206 Hz
2029-06-11	Monday	07:30	272°	+32°	0 dB	0°	272°	+32°	303°	+24°	4.9dB	407°K	396558 -221 Hz
2029-06-11	Monday	08:00	277°	+27°	0 dB	0°	277°	+27°	311°	+24°	4.9dB	408°K	396490 -231 Hz
2029-06-11	Monday	08:30	282°	+22°	0 dB	0°	282°	+22°	318°	+24°	4.9dB	409°K	396422 -237 Hz
2029-06-11	Monday	09:00	287°	+17°	0 dB	0°	287°	+17°	325°	+24°	4.9dB	411°K	396354 -238 Hz
2029-06-11	Monday	09:30	292°	+12°	0 dB	0°	292°	+12°	332°	+24°	4.9dB	412°K	396286 -236 Hz
2029-06-11	Monday	10:00	296°	+8°	0 dB	0°	296°	+8°	340°	+24°	4.9dB	413°K	396217 -229 Hz
2029-06-11	Monday	10:30	301°	+3°	0 dB	0°	301°	+3°	347°	+24°	4.9dB	414°K	396149 -217 Hz
2029-06-11	Monday	20:00	058°	+3°	0 dB	0°	058°	+3°	124°	+24°	5.1dB	SUN!	394828 +290 Hz
2029-06-11	Monday	20:30	063°	+7°	0 dB	0°	063°	+7°	132°	+24°	5.1dB	SUN!	394757 +302 Hz
2029-06-11	Monday	21:00	068°	+12°	0 dB	0°	068°	+12°	139°	+24°	5.1dB	SUN!	394687 +309 Hz
2029-06-11	Monday	21:30	073°	+16°	0 dB	0°	073°	+16°	146°	+24°	5.2dB	SUN!	394616 +313 Hz
2029-06-11	Monday	22:00	077°	+21°	0 dB	0°	077°	+21°	153°	+24°	5.2dB	SUN!	394545 +311 Hz
2029-06-11	Monday	22:30	082°	+26°	0 dB	0°	082°	+26°	160°	+24°	5.2dB	SUN!	394475 +306 Hz
2029-06-11	Monday	23:00	087°	+31°	0 dB	0°	087°	+31°	168°	+24°	5.2dB	SUN!	394404 +296 Hz
2029-06-11	Monday	23:30	092°	+36°	0 dB	0°	092°	+36°	175°	+24°	5.2dB	SUN!	394333 +282 Hz
2029-06-12	Tuesday	00:00	098°	+41°	0 dB	0°	098°	+41°	182°	+24°	5.3dB	SUN!	394262 +264 Hz
2029-06-12	Tuesday	00:30	104°	+46°	0 dB	0°	104°	+46°	189°	+24°	5.3dB	SUN!	394191 +242 Hz
2029-06-12	Tuesday	01:00	111°	+51°	0 dB	0°	111°	+51°	197°	+24°	5.3dB	SUN!	394119 +216 Hz
2029-06-12	Tuesday	01:30	119°	+56°	0 dB	0°	119°	+56°	204°	+24°	5.3dB	SUN!	394048 +188 Hz
2029-06-12	Tuesday	02:00	129°	+60°	0 dB	0°	129°	+60°	211°	+24°	5.3dB	SUN!	393977 +157 Hz
2029-06-12	Tuesday	02:30	141°	+64°	0 dB	0°	141°	+64°	218°	+24°	5.3dB	SUN!	393905 +124 Hz
2029-06-12	Tuesday	03:00	155°	+66°	0 dB	0°	155°	+66°	226°	+24°	5.4dB	SUN!	393834 +89 Hz
2029-06-12	Tuesday	03:30	172°	+68°	0 dB	0°	172°	+68°	233°	+24°	5.4dB	SUN!	393762 +54 Hz
2029-06-12	Tuesday	04:00	190°	+68°	0 dB	0°	190°	+68°	240°	+24°	5.4dB	SUN!	393691 +18 Hz
2029-06-12	Tuesday	04:30	206°	+66°	0 dB	0°	206°	+66°	247°	+24°	5.4dB	SUN!	393619 -17 Hz
2029-06-12	Tuesday	05:00	221°	+63°	0 dB	0°	221°	+63°	255°	+24°	5.4dB	SUN!	393548 -52 Hz
2029-06-12	Tuesday	05:30	232°	+60°	0 dB	0°	232°	+60°	262°	+24°	5.4dB	SUN!	393476 -85 Hz
2029-06-12	Tuesday	06:00	242°	+55°	0 dB	0°	242°	+55°	269°	+24°	5.5dB	SUN!	393404 -115 Hz
2029-06-12	Tuesday	06:30	250°	+51°	0 dB	0°	250°	+51°	276°	+24°	5.5dB	SUN!	393332 -143 Hz
2029-06-12	Tuesday	07:00	257°	+46°	0 dB	0°	257°	+46°	283°	+24°	5.5dB	SUN!	393260 -169 Hz
2029-06-12	Tuesday	07:30	263°	+41°	0 dB	0°	263°	+41°	291°	+24°	5.5dB	SUN!	393188 -190 Hz
2029-06-12	Tuesday	08:00	268°	+36°	0 dB	0°	268°	+36°	298°	+24°	5.5dB	SUN!	393116 -208 Hz
2029-06-12	Tuesday	08:30	273°	+31°	0 dB	0°	273°	+31°	305°	+24°	5.5dB	SUN!	393044 -222 Hz
2029-06-12	Tuesday	09:00	278°	+26°	0 dB	0°	278°	+26°	312°	+24°	5.5dB	SUN!	392972 -231 Hz
2029-06-12	Tuesday	09:30	283°	+21°	0 dB	0°	283°	+21°	320°	+24°	5.5dB	SUN!	392900 -236 Hz
2029-06-12	Tuesday	10:00	288°	+16°	0 dB	0°	288°	+16°	327°	+24°	5.5dB	SUN!	392828 -237 Hz
2029-06-12	Tuesday	10:30	293°	+11°	0 dB	0°	293°	+11°	334°	+24°	5.5dB	SUN!	392755 -233 Hz
2029-06-12	Tuesday	11:00	297°	+7°	0 dB	0°	297°	+7°	341°	+24°	5.5dB	SUN!	392683 -225 Hz
2029-06-12	Tuesday	11:30	302°	+2°	0 dB	0°	302°	+2°	349°	+24°	5.5dB	SUN!	392611 -213 Hz
2029-06-12	Tuesday	21:00	059°	+3°	0 dB	0°	059°	+3°	126°	+24°	5.4dB	493°K	391230 +294 Hz
2029-06-12	Tuesday	21:30	064°	+8°	0 dB	0°	064°	+8°	133°	+24°	5.3dB	490°K	391157 +305 Hz
2029-06-12	Tuesday	22:00	069°	+12°	0 dB	0°	069°	+12°	140°	+24°	5.3dB	487°K	391084 +312 Hz
2029-06-12	Tuesday	22:30	074°	+17°	0 dB	0°	074°	+17°	148°	+24°	5.3dB	483°K	391011 +314 Hz
2029-06-12	Tuesday	23:00	079°	+22°	0 dB	0°	079°	+22°	155°	+24°	5.2dB	480°K	390938 +312 Hz
2029-06-12	Tuesday	23:30	084°	+27°	0 dB	0°	084°	+27°	162°	+24°	5.2dB	477°K	390865 +306 Hz
2029-06-13	wednesday	00:00	089°	+32°	0 dB	0°	089°	+32°	169°	+24°	5.2dB	473°K	390792 +295 Hz
2029-06-13	wednesday	00:30	094°	+37°	0 dB	0°	094°	+37°	177°	+24°	5.1dB	470°K	390719 +280 Hz
2029-06-13	wednesday	01:00	100°	+42°	0 dB	0°	100°	+42°	184°	+24°	5.1dB	467°K	390646 +261 Hz
2029-06-13	wednesday	01:30	106°	+47°	0 dB	0°	106°	+47°	191°	+24°	5.1dB	463°K	390573 +238 Hz
2029-06-13	wednesday	02:00	114°	+52°	0 dB	0°	114°	+52°	198°	+24°	5.1dB	460°K	390500 +212 Hz
2029-06-13	wednesday	02:30	122°	+56°	0 dB	0°	122°	+56°	205°	+24°	5.0dB	457°K	390427 +183 Hz
2029-06-13	wednesday	03:00	132°	+60°	0 dB	0°	132°	+60°	213°	+23°	5.0dB	453°K	390354 +151 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-13	wednesday03:30	145°	+63°	0 dB	0°	145°	+63°	220°	+23°	5.0dB	450°K	390281	+117 Hz
2029-06-13	wednesday04:00	160°	+66°	0 dB	0°	160°	+66°	227°	+23°	4.9dB	446°K	390208	+82 Hz
2029-06-13	wednesday04:30	176°	+67°	0 dB	0°	176°	+67°	234°	+23°	4.9dB	443°K	390135	+46 Hz
2029-06-13	wednesday05:00	193°	+66°	0 dB	0°	193°	+66°	242°	+23°	4.9dB	440°K	390062	+10 Hz
2029-06-13	wednesday05:30	209°	+64°	0 dB	0°	209°	+64°	249°	+23°	4.8dB	436°K	389989	-25 Hz
2029-06-13	wednesday06:00	222°	+62°	0 dB	0°	222°	+62°	256°	+23°	4.8dB	433°K	389916	-60 Hz
2029-06-13	wednesday06:30	233°	+58°	0 dB	0°	233°	+58°	263°	+23°	4.8dB	430°K	389843	-93 Hz
2029-06-13	wednesday07:00	242°	+53°	0 dB	0°	242°	+53°	271°	+23°	4.7dB	426°K	389769	-123 Hz
2029-06-13	wednesday07:30	250°	+49°	0 dB	0°	250°	+49°	278°	+23°	4.7dB	423°K	389696	-151 Hz
2029-06-13	wednesday08:00	257°	+44°	0 dB	0°	257°	+44°	285°	+23°	4.7dB	420°K	389623	-176 Hz
2029-06-13	wednesday08:30	263°	+39°	0 dB	0°	263°	+39°	292°	+23°	4.6dB	416°K	389550	-197 Hz
2029-06-13	wednesday09:00	268°	+34°	0 dB	0°	268°	+34°	299°	+23°	4.6dB	413°K	389477	-214 Hz
2029-06-13	wednesday09:30	273°	+29°	0 dB	0°	273°	+29°	307°	+23°	4.6dB	411°K	389404	-227 Hz
2029-06-13	wednesday10:00	278°	+24°	0 dB	0°	278°	+24°	314°	+23°	4.6dB	410°K	389331	-236 Hz
2029-06-13	wednesday10:30	283°	+19°	0 dB	0°	283°	+19°	321°	+23°	4.5dB	408°K	389258	-240 Hz
2029-06-13	wednesday11:00	288°	+14°	0 dB	0°	288°	+14°	328°	+23°	4.5dB	406°K	389185	-240 Hz
2029-06-13	wednesday11:30	293°	+9°	0 dB	0°	293°	+9°	336°	+23°	4.5dB	404°K	389112	-235 Hz
2029-06-13	wednesday12:00	298°	+5°	0 dB	0°	298°	+5°	343°	+23°	4.5dB	403°K	389039	-227 Hz
2029-06-13	wednesday12:30	303°	+0°	0 dB	0°	303°	+0°	350°	+23°	4.5dB	401°K	388966	-214 Hz
2029-06-13	wednesday22:00	062°	+3°	0 dB	0°	062°	+3°	128°	+22°	4.1dB	369°K	387584	+299 Hz
2029-06-13	wednesday22:30	067°	+7°	0 dB	0°	067°	+7°	135°	+22°	4.1dB	367°K	387511	+309 Hz
2029-06-13	wednesday23:00	072°	+12°	0 dB	0°	072°	+12°	142°	+22°	4.0dB	365°K	387439	+315 Hz
2029-06-13	wednesday23:30	077°	+17°	0 dB	0°	077°	+17°	149°	+22°	4.0dB	362°K	387366	+317 Hz
2029-06-14	Thursday 00:00	082°	+22°	0 dB	0°	082°	+22°	156°	+22°	4.0dB	360°K	387294	+314 Hz
2029-06-14	Thursday 00:30	087°	+27°	0 dB	0°	087°	+27°	164°	+22°	3.9dB	357°K	387222	+306 Hz
2029-06-14	Thursday 01:00	092°	+32°	0 dB	0°	092°	+32°	171°	+22°	3.9dB	355°K	387149	+294 Hz
2029-06-14	Thursday 01:30	097°	+37°	0 dB	0°	097°	+37°	178°	+22°	3.9dB	352°K	387077	+278 Hz
2029-06-14	Thursday 02:00	104°	+42°	0 dB	0°	104°	+42°	185°	+21°	3.9dB	350°K	387005	+258 Hz
2029-06-14	Thursday 02:30	110°	+46°	0 dB	0°	110°	+46°	193°	+21°	3.8dB	347°K	386932	+234 Hz
2029-06-14	Thursday 03:00	118°	+51°	0 dB	0°	118°	+51°	200°	+21°	3.8dB	345°K	386860	+207 Hz
2029-06-14	Thursday 03:30	127°	+55°	0 dB	0°	127°	+55°	207°	+21°	3.8dB	342°K	386788	+177 Hz
2029-06-14	Thursday 04:00	137°	+59°	0 dB	0°	137°	+59°	214°	+21°	3.7dB	340°K	386716	+144 Hz
2029-06-14	Thursday 04:30	150°	+62°	0 dB	0°	150°	+62°	222°	+21°	3.7dB	337°K	386644	+109 Hz
2029-06-14	Thursday 05:00	164°	+64°	0 dB	0°	164°	+64°	229°	+21°	3.7dB	335°K	386572	+73 Hz
2029-06-14	Thursday 05:30	180°	+64°	0 dB	0°	180°	+64°	236°	+21°	3.6dB	332°K	386500	+37 Hz
2029-06-14	Thursday 06:00	196°	+64°	0 dB	0°	196°	+64°	243°	+21°	3.6dB	330°K	386427	0 Hz
2029-06-14	Thursday 06:30	210°	+62°	0 dB	0°	210°	+62°	251°	+21°	3.6dB	327°K	386356	-36 Hz
2029-06-14	Thursday 07:00	222°	+59°	0 dB	0°	222°	+59°	258°	+21°	3.6dB	325°K	386284	-71 Hz
2029-06-14	Thursday 07:30	233°	+55°	0 dB	0°	233°	+55°	265°	+21°	3.5dB	322°K	386212	-104 Hz
2029-06-14	Thursday 08:00	242°	+50°	0 dB	0°	242°	+50°	272°	+21°	3.5dB	320°K	386140	-134 Hz
2029-06-14	Thursday 08:30	249°	+46°	0 dB	0°	249°	+46°	279°	+21°	3.5dB	318°K	386068	-162 Hz
2029-06-14	Thursday 09:00	256°	+41°	0 dB	0°	256°	+41°	287°	+21°	3.4dB	315°K	385996	-186 Hz
2029-06-14	Thursday 09:30	262°	+36°	0 dB	0°	262°	+36°	294°	+21°	3.4dB	313°K	385925	-207 Hz
2029-06-14	Thursday 10:00	267°	+31°	0 dB	0°	267°	+31°	301°	+20°	3.4dB	310°K	385853	-224 Hz
2029-06-14	Thursday 10:30	272°	+26°	0 dB	0°	272°	+26°	308°	+20°	3.3dB	308°K	385781	-236 Hz
2029-06-14	Thursday 11:00	277°	+21°	0 dB	0°	277°	+21°	316°	+20°	3.3dB	305°K	385710	-244 Hz
2029-06-14	Thursday 11:30	282°	+16°	0 dB	0°	282°	+16°	323°	+20°	3.3dB	303°K	385638	-247 Hz
2029-06-14	Thursday 12:00	287°	+11°	0 dB	0°	287°	+11°	330°	+20°	3.2dB	300°K	385567	-246 Hz
2029-06-14	Thursday 12:30	292°	+6°	0 dB	0°	292°	+6°	337°	+20°	3.2dB	297°K	385495	-240 Hz
2029-06-14	Thursday 13:00	297°	+1°	0 dB	0°	297°	+1°	345°	+20°	3.2dB	294°K	385424	-230 Hz
2029-06-14	Thursday 23:00	065°	+2°	0 dB	0°	065°	+2°	129°	+19°	2.3dB	235°K	384007	+305 Hz
2029-06-14	Thursday 23:30	070°	+6°	0 dB	0°	070°	+6°	137°	+19°	2.3dB	232°K	383936	+314 Hz
2029-06-15	Friday 00:00	075°	+11°	0 dB	0°	075°	+11°	144°	+19°	2.2dB	229°K	383866	+319 Hz
2029-06-15	Friday 00:30	081°	+16°	0 dB	0°	081°	+16°	151°	+18°	2.2dB	226°K	383796	+320 Hz
2029-06-15	Friday 01:00	086°	+21°	0 dB	0°	086°	+21°	158°	+18°	2.1dB	225°K	383726	+316 Hz
2029-06-15	Friday 01:30	091°	+26°	0 dB	0°	091°	+26°	166°	+18°	2.1dB	224°K	383656	+307 Hz
2029-06-15	Friday 02:00	096°	+31°	0 dB	0°	096°	+31°	173°	+18°	2.1dB	223°K	383586	+294 Hz
2029-06-15	Friday 02:30	102°	+36°	0 dB	0°	102°	+36°	180°	+18°	2.1dB	222°K	383516	+276 Hz
2029-06-15	Friday 03:00	108°	+40°	0 dB	0°	108°	+40°	187°	+18°	2.1dB	221°K	383446	+254 Hz
2029-06-15	Friday 03:30	116°	+45°	0 dB	0°	116°	+45°	195°	+18°	2.0dB	220°K	383376	+229 Hz
2029-06-15	Friday 04:00	124°	+49°	0 dB	0°	124°	+49°	202°	+18°	2.0dB	219°K	383306	+200 Hz
2029-06-15	Friday 04:30	133°	+53°	0 dB	0°	133°	+53°	209°	+18°	2.0dB	218°K	383236	+169 Hz
2029-06-15	Friday 05:00	144°	+57°	0 dB	0°	144°	+57°	216°	+18°	2.0dB	217°K	383167	+135 Hz
2029-06-15	Friday 05:30	156°	+59°	0 dB	0°	156°	+59°	224°	+18°	2.0dB	216°K	383097	+99 Hz
2029-06-15	Friday 06:00	170°	+61°	0 dB	0°	170°	+61°	231°	+18°	2.0dB	215°K	383028	+62 Hz
2029-06-15	Friday 06:30	184°	+61°	0 dB	0°	184°	+61°	238°	+17°	1.9dB	214°K	382958	+24 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-15	Friday	07:00	198°	+60°	0 dB	0°	198°	+60°	245°	+17°	1.9dB	213°K	382889 -13 Hz
2029-06-15	Friday	07:30	211°	+58°	0 dB	0°	211°	+58°	253°	+17°	1.9dB	212°K	382819 -50 Hz
2029-06-15	Friday	08:00	222°	+54°	0 dB	0°	222°	+54°	260°	+17°	1.9dB	211°K	382750 -85 Hz
2029-06-15	Friday	08:30	232°	+51°	0 dB	0°	232°	+51°	267°	+17°	1.9dB	210°K	382681 -118 Hz
2029-06-15	Friday	09:00	240°	+46°	0 dB	0°	240°	+46°	274°	+17°	1.8dB	209°K	382612 -149 Hz
2029-06-15	Friday	09:30	248°	+42°	0 dB	0°	248°	+42°	282°	+17°	1.8dB	209°K	382543 -176 Hz
2029-06-15	Friday	10:00	254°	+37°	0 dB	0°	254°	+37°	289°	+17°	1.8dB	208°K	382474 -200 Hz
2029-06-15	Friday	10:30	260°	+32°	0 dB	0°	260°	+32°	296°	+17°	1.8dB	207°K	382405 -220 Hz
2029-06-15	Friday	11:00	266°	+27°	0 dB	0°	266°	+27°	303°	+17°	1.8dB	206°K	382336 -236 Hz
2029-06-15	Friday	11:30	271°	+22°	0 dB	0°	271°	+22°	310°	+17°	1.8dB	205°K	382267 -247 Hz
2029-06-15	Friday	12:00	276°	+17°	0 dB	0°	276°	+17°	318°	+17°	1.7dB	204°K	382198 -254 Hz
2029-06-15	Friday	12:30	281°	+12°	0 dB	0°	281°	+12°	325°	+16°	1.7dB	203°K	382130 -256 Hz
2029-06-15	Friday	13:00	286°	+7°	0 dB	0°	286°	+7°	332°	+16°	1.7dB	202°K	382061 -253 Hz
2029-06-15	Friday	13:30	291°	+2°	0 dB	0°	291°	+2°	339°	+16°	1.7dB	201°K	381992 -246 Hz
2029-06-16	Saturday	00:00	070°	-0°	0 dB	0°	070°	-0°	132°	+14°	1.3dB	181°K	380569 +311 Hz
2029-06-16	Saturday	00:30	075°	+4°	0 dB	0°	075°	+4°	139°	+14°	1.2dB	180°K	380502 +320 Hz
2029-06-16	Saturday	01:00	080°	+9°	0 dB	0°	080°	+9°	146°	+14°	1.2dB	179°K	380435 +323 Hz
2029-06-16	Saturday	01:30	085°	+14°	0 dB	0°	085°	+14°	153°	+14°	1.2dB	178°K	380368 +322 Hz
2029-06-16	Saturday	02:00	091°	+19°	0 dB	0°	091°	+19°	161°	+14°	1.2dB	177°K	380301 +317 Hz
2029-06-16	Saturday	02:30	096°	+24°	0 dB	0°	096°	+24°	168°	+14°	1.2dB	176°K	380234 +306 Hz
2029-06-16	Saturday	03:00	102°	+29°	0 dB	0°	102°	+29°	175°	+14°	1.1dB	175°K	380168 +291 Hz
2029-06-16	Saturday	03:30	108°	+34°	0 dB	0°	108°	+34°	182°	+14°	1.1dB	174°K	380101 +272 Hz
2029-06-16	Saturday	04:00	115°	+39°	0 dB	0°	115°	+39°	190°	+14°	1.1dB	174°K	380035 +249 Hz
2029-06-16	Saturday	04:30	122°	+43°	0 dB	0°	122°	+43°	197°	+13°	1.1dB	174°K	379968 +221 Hz
2029-06-16	Saturday	05:00	130°	+47°	0 dB	0°	130°	+47°	204°	+13°	1.1dB	174°K	379902 +191 Hz
2029-06-16	Saturday	05:30	140°	+50°	0 dB	0°	140°	+50°	211°	+13°	1.1dB	174°K	379836 +158 Hz
2029-06-16	Saturday	06:00	150°	+53°	0 dB	0°	150°	+53°	219°	+13°	1.1dB	175°K	379769 +122 Hz
2029-06-16	Saturday	06:30	162°	+55°	0 dB	0°	162°	+55°	226°	+13°	1.1dB	175°K	379703 +85 Hz
2029-06-16	Saturday	07:00	175°	+56°	0 dB	0°	175°	+56°	233°	+13°	1.1dB	175°K	379637 +47 Hz
2029-06-16	Saturday	07:30	188°	+56°	0 dB	0°	188°	+56°	240°	+13°	1.1dB	176°K	379571 +9 Hz
2029-06-16	Saturday	08:00	200°	+55°	0 dB	0°	200°	+55°	248°	+13°	1.1dB	176°K	379505 -29 Hz
2029-06-16	Saturday	08:30	212°	+52°	0 dB	0°	212°	+52°	255°	+13°	1.1dB	176°K	379440 -66 Hz
2029-06-16	Saturday	09:00	222°	+49°	0 dB	0°	222°	+49°	262°	+13°	1.1dB	177°K	379374 -102 Hz
2029-06-16	Saturday	09:30	231°	+45°	0 dB	0°	231°	+45°	269°	+12°	1.1dB	177°K	379308 -135 Hz
2029-06-16	Saturday	10:00	239°	+41°	0 dB	0°	239°	+41°	277°	+12°	1.1dB	177°K	379243 -165 Hz
2029-06-16	Saturday	10:30	246°	+37°	0 dB	0°	246°	+37°	284°	+12°	1.1dB	178°K	379177 -192 Hz
2029-06-16	Saturday	11:00	252°	+32°	0 dB	0°	252°	+32°	291°	+12°	1.1dB	178°K	379112 -215 Hz
2029-06-16	Saturday	11:30	258°	+27°	0 dB	0°	258°	+27°	298°	+12°	1.1dB	178°K	379046 -234 Hz
2029-06-16	Saturday	12:00	264°	+22°	0 dB	0°	264°	+22°	306°	+12°	1.2dB	179°K	378981 -248 Hz
2029-06-16	Saturday	12:30	269°	+17°	0 dB	0°	269°	+17°	313°	+12°	1.2dB	179°K	378916 -258 Hz
2029-06-16	Saturday	13:00	274°	+12°	0 dB	0°	274°	+12°	320°	+12°	1.2dB	179°K	378851 -263 Hz
2029-06-16	Saturday	13:30	279°	+6°	0 dB	0°	279°	+6°	327°	+12°	1.1dB	179°K	378786 -264 Hz
2029-06-16	Saturday	14:00	284°	+1°	0 dB	0°	284°	+1°	335°	+12°	1.2dB	180°K	378721 -259 Hz
2029-06-17	Sunday	01:30	080°	+2°	0 dB	0°	080°	+2°	142°	+9°	1.2dB	185°K	377251 +323 Hz
2029-06-17	Sunday	02:00	086°	+7°	0 dB	0°	086°	+7°	149°	+9°	1.2dB	185°K	377188 +325 Hz
2029-06-17	Sunday	02:30	091°	+12°	0 dB	0°	091°	+12°	156°	+9°	1.2dB	185°K	377126 +323 Hz
2029-06-17	Sunday	03:00	096°	+17°	0 dB	0°	096°	+17°	163°	+9°	1.2dB	185°K	377063 +315 Hz
2029-06-17	Sunday	03:30	102°	+22°	0 dB	0°	102°	+22°	171°	+9°	1.2dB	185°K	377000 +303 Hz
2029-06-17	Sunday	04:00	108°	+27°	0 dB	0°	108°	+27°	178°	+9°	1.2dB	185°K	376938 +286 Hz
2029-06-17	Sunday	04:30	114°	+32°	0 dB	0°	114°	+32°	185°	+8°	1.2dB	185°K	376876 +264 Hz
2029-06-17	Sunday	05:00	121°	+36°	0 dB	0°	121°	+36°	192°	+8°	1.2dB	186°K	376813 +239 Hz
2029-06-17	Sunday	05:30	129°	+40°	0 dB	0°	129°	+40°	200°	+8°	1.2dB	186°K	376751 +210 Hz
2029-06-17	Sunday	06:00	137°	+44°	0 dB	0°	137°	+44°	207°	+8°	1.2dB	186°K	376689 +178 Hz
2029-06-17	Sunday	06:30	147°	+47°	0 dB	0°	147°	+47°	214°	+8°	1.2dB	186°K	376627 +143 Hz
2029-06-17	Sunday	07:00	157°	+49°	0 dB	0°	157°	+49°	221°	+8°	1.2dB	186°K	376565 +107 Hz
2029-06-17	Sunday	07:30	168°	+50°	0 dB	0°	168°	+50°	229°	+8°	1.2dB	186°K	376503 +68 Hz
2029-06-17	Sunday	08:00	180°	+51°	0 dB	0°	180°	+51°	236°	+8°	1.2dB	187°K	376441 +30 Hz
2029-06-17	Sunday	08:30	191°	+50°	0 dB	0°	191°	+50°	243°	+8°	1.2dB	187°K	376380 -9 Hz
2029-06-17	Sunday	09:00	202°	+49°	0 dB	0°	202°	+49°	250°	+7°	1.2dB	187°K	376318 -48 Hz
2029-06-17	Sunday	09:30	212°	+46°	0 dB	0°	212°	+46°	258°	+7°	1.2dB	187°K	376257 -85 Hz
2029-06-17	Sunday	10:00	222°	+43°	0 dB	0°	222°	+43°	265°	+7°	1.2dB	188°K	376196 -120 Hz
2029-06-17	Sunday	10:30	230°	+39°	0 dB	0°	230°	+39°	272°	+7°	1.2dB	188°K	376134 -152 Hz
2029-06-17	Sunday	11:00	237°	+35°	0 dB	0°	237°	+35°	279°	+7°	1.2dB	188°K	376073 -181 Hz
2029-06-17	Sunday	11:30	244°	+31°	0 dB	0°	244°	+31°	287°	+7°	1.2dB	189°K	376012 -207 Hz
2029-06-17	Sunday	12:00	250°	+26°	0 dB	0°	250°	+26°	294°	+7°	1.2dB	189°K	375951 -229 Hz
2029-06-17	Sunday	12:30	256°	+21°	0 dB	0°	256°	+21°	301°	+7°	1.2dB	189°K	375890 -246 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-17	Sunday	13:00	262°	+16°	0 dB	0°	262°	+16°	308°	+7°	1.2dB	190°K	375830 -259 Hz
2029-06-17	Sunday	13:30	267°	+11°	0 dB	0°	267°	+11°	316°	+6°	1.2dB	190°K	375769 -267 Hz
2029-06-17	Sunday	14:00	272°	+6°	0 dB	0°	272°	+6°	323°	+6°	1.2dB	190°K	375708 -271 Hz
2029-06-17	Sunday	14:30	277°	+1°	0 dB	0°	277°	+1°	330°	+6°	1.2dB	191°K	375648 -269 Hz
2029-06-18	Monday	02:30	086°	+0°	0 dB	0°	086°	+0°	144°	+3°	1.3dB	198°K	374230 +324 Hz
2029-06-18	Monday	03:00	092°	+5°	0 dB	0°	092°	+5°	152°	+3°	1.3dB	198°K	374172 +324 Hz
2029-06-18	Monday	03:30	097°	+10°	0 dB	0°	097°	+10°	159°	+3°	1.3dB	198°K	374115 +319 Hz
2029-06-18	Monday	04:00	103°	+15°	0 dB	0°	103°	+15°	166°	+3°	1.3dB	199°K	374058 +309 Hz
2029-06-18	Monday	04:30	108°	+20°	0 dB	0°	108°	+20°	173°	+3°	1.3dB	199°K	374000 +295 Hz
2029-06-18	Monday	05:00	115°	+24°	0 dB	0°	115°	+24°	181°	+3°	1.3dB	199°K	373943 +276 Hz
2029-06-18	Monday	05:30	121°	+29°	0 dB	0°	121°	+29°	188°	+3°	1.3dB	200°K	373886 +253 Hz
2029-06-18	Monday	06:00	128°	+33°	0 dB	0°	128°	+33°	195°	+3°	1.3dB	200°K	373829 +226 Hz
2029-06-18	Monday	06:30	136°	+37°	0 dB	0°	136°	+37°	202°	+2°	1.3dB	200°K	373772 +196 Hz
2029-06-18	Monday	07:00	144°	+40°	0 dB	0°	144°	+40°	210°	+2°	1.3dB	201°K	373716 +162 Hz
2029-06-18	Monday	07:30	153°	+42°	0 dB	0°	153°	+42°	217°	+2°	1.3dB	201°K	373659 +126 Hz
2029-06-18	Monday	08:00	163°	+44°	0 dB	0°	163°	+44°	224°	+2°	1.3dB	201°K	373603 +88 Hz
2029-06-18	Monday	08:30	173°	+45°	0 dB	0°	173°	+45°	231°	+2°	1.3dB	202°K	373546 +50 Hz
2029-06-18	Monday	09:00	184°	+45°	0 dB	0°	184°	+45°	239°	+2°	1.3dB	202°K	373490 +10 Hz
2029-06-18	Monday	09:30	194°	+44°	0 dB	0°	194°	+44°	246°	+2°	1.3dB	202°K	373434 -29 Hz
2029-06-18	Monday	10:00	204°	+42°	0 dB	0°	204°	+42°	253°	+2°	1.3dB	202°K	373378 -67 Hz
2029-06-18	Monday	10:30	213°	+40°	0 dB	0°	213°	+40°	260°	+1°	1.3dB	203°K	373323 -103 Hz
2029-06-18	Monday	11:00	221°	+37°	0 dB	0°	221°	+37°	268°	+1°	1.3dB	203°K	373267 -137 Hz
2029-06-18	Monday	11:30	229°	+33°	0 dB	0°	229°	+33°	275°	+1°	1.3dB	203°K	373211 -169 Hz
2029-06-18	Monday	12:00	236°	+29°	0 dB	0°	236°	+29°	282°	+1°	1.3dB	204°K	373156 -197 Hz
2029-06-18	Monday	12:30	243°	+24°	0 dB	0°	243°	+24°	289°	+1°	1.3dB	204°K	373101 -221 Hz
2029-06-18	Monday	13:00	249°	+20°	0 dB	0°	249°	+20°	297°	+1°	1.3dB	204°K	373046 -241 Hz
2029-06-18	Monday	13:30	254°	+15°	0 dB	0°	254°	+15°	304°	+1°	1.3dB	205°K	372991 -256 Hz
2029-06-18	Monday	14:00	260°	+10°	0 dB	0°	260°	+10°	311°	+1°	1.3dB	205°K	372936 -267 Hz
2029-06-18	Monday	14:30	265°	+5°	0 dB	0°	265°	+5°	319°	+0°	1.3dB	205°K	372881 -273 Hz
2029-06-19	Tuesday	04:00	098°	+3°	0 dB	0°	098°	+3°	154°	-3°	1.5dB	218°K	371462 +317 Hz
2029-06-19	Tuesday	04:30	103°	+8°	0 dB	0°	103°	+8°	162°	-3°	1.5dB	219°K	371411 +311 Hz
2029-06-19	Tuesday	05:00	109°	+12°	0 dB	0°	109°	+12°	169°	-3°	1.5dB	221°K	371361 +299 Hz
2029-06-19	Tuesday	05:30	115°	+17°	0 dB	0°	115°	+17°	176°	-3°	1.5dB	223°K	371311 +283 Hz
2029-06-19	Tuesday	06:00	121°	+21°	0 dB	0°	121°	+21°	183°	-3°	1.6dB	224°K	371261 +262 Hz
2029-06-19	Tuesday	06:30	128°	+25°	0 dB	0°	128°	+25°	191°	-3°	1.6dB	226°K	371212 +238 Hz
2029-06-19	Tuesday	07:00	135°	+29°	0 dB	0°	135°	+29°	198°	-3°	1.6dB	228°K	371162 +209 Hz
2029-06-19	Tuesday	07:30	142°	+32°	0 dB	0°	142°	+32°	205°	-4°	1.6dB	230°K	371113 +178 Hz
2029-06-19	Tuesday	08:00	150°	+35°	0 dB	0°	150°	+35°	212°	-4°	1.6dB	231°K	371064 +143 Hz
2029-06-19	Tuesday	08:30	159°	+37°	0 dB	0°	159°	+37°	220°	-4°	1.7dB	233°K	371015 +107 Hz
2029-06-19	Tuesday	09:00	168°	+38°	0 dB	0°	168°	+38°	227°	-4°	1.7dB	235°K	370966 +69 Hz
2029-06-19	Tuesday	09:30	178°	+39°	0 dB	0°	178°	+39°	234°	-4°	1.7dB	236°K	370918 +30 Hz
2029-06-19	Tuesday	10:00	187°	+39°	0 dB	0°	187°	+39°	241°	-4°	1.7dB	238°K	370869 -9 Hz
2029-06-19	Tuesday	10:30	196°	+37°	0 dB	0°	196°	+37°	249°	-4°	1.8dB	240°K	370821 -47 Hz
2029-06-19	Tuesday	11:00	205°	+36°	0 dB	0°	205°	+36°	256°	-4°	1.8dB	242°K	370773 -84 Hz
2029-06-19	Tuesday	11:30	213°	+33°	0 dB	0°	213°	+33°	263°	-5°	1.8dB	243°K	370725 -120 Hz
2029-06-19	Tuesday	12:00	221°	+30°	0 dB	0°	221°	+30°	270°	-5°	1.8dB	245°K	370677 -153 Hz
2029-06-19	Tuesday	12:30	228°	+26°	0 dB	0°	228°	+26°	278°	-5°	1.9dB	247°K	370630 -182 Hz
2029-06-19	Tuesday	13:00	235°	+22°	0 dB	0°	235°	+22°	285°	-5°	1.9dB	248°K	370583 -209 Hz
2029-06-19	Tuesday	13:30	241°	+18°	0 dB	0°	241°	+18°	292°	-5°	1.9dB	250°K	370536 -231 Hz
2029-06-19	Tuesday	14:00	247°	+13°	0 dB	0°	247°	+13°	299°	-5°	1.9dB	252°K	370489 -249 Hz
2029-06-19	Tuesday	14:30	252°	+8°	0 dB	0°	252°	+8°	307°	-5°	1.9dB	254°K	370442 -263 Hz
2029-06-19	Tuesday	15:00	258°	+3°	0 dB	0°	258°	+3°	314°	-5°	2.0dB	255°K	370396 -272 Hz
2029-06-20	wednesday	05:00	104°	+0°	0 dB	0°	104°	+0°	157°	-9°	2.6dB	308°K	369181 +306 Hz
2029-06-20	wednesday	05:30	109°	+5°	0 dB	0°	109°	+5°	164°	-9°	2.6dB	310°K	369141 +298 Hz
2029-06-20	wednesday	06:00	115°	+9°	0 dB	0°	115°	+9°	171°	-9°	2.6dB	312°K	369101 +284 Hz
2029-06-20	wednesday	06:30	121°	+14°	0 dB	0°	121°	+14°	179°	-9°	2.6dB	313°K	369062 +267 Hz
2029-06-20	wednesday	07:00	127°	+18°	0 dB	0°	127°	+18°	186°	-9°	2.6dB	313°K	369022 +245 Hz
2029-06-20	wednesday	07:30	133°	+22°	0 dB	0°	133°	+22°	193°	-9°	2.6dB	313°K	368983 +220 Hz
2029-06-20	wednesday	08:00	140°	+25°	0 dB	0°	140°	+25°	200°	-9°	2.6dB	313°K	368944 +191 Hz
2029-06-20	wednesday	08:30	148°	+28°	0 dB	0°	148°	+28°	208°	-9°	2.6dB	313°K	368906 +158 Hz
2029-06-20	wednesday	09:00	155°	+30°	0 dB	0°	155°	+30°	215°	-10°	2.6dB	313°K	368868 +124 Hz
2029-06-20	wednesday	09:30	164°	+32°	0 dB	0°	164°	+32°	222°	-10°	2.6dB	313°K	368829 +87 Hz
2029-06-20	wednesday	10:00	172°	+33°	0 dB	0°	172°	+33°	229°	-10°	2.6dB	313°K	368792 +50 Hz
2029-06-20	wednesday	10:30	181°	+33°	0 dB	0°	181°	+33°	237°	-10°	2.6dB	313°K	368754 +12 Hz
2029-06-20	wednesday	11:00	189°	+33°	0 dB	0°	189°	+33°	244°	-10°	2.6dB	313°K	368717 -27 Hz
2029-06-20	wednesday	11:30	197°	+31°	0 dB	0°	197°	+31°	251°	-10°	2.6dB	313°K	368680 -64 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-20	wednesday12:00	205°	+29°	0 dB	0°	205°	+29°	258°	-10°	2.6dB	313°K	368643	-100 Hz
2029-06-20	wednesday12:30	213°	+27°	0 dB	0°	213°	+27°	266°	-10°	2.6dB	313°K	368606	-134 Hz
2029-06-20	wednesday13:00	220°	+24°	0 dB	0°	220°	+24°	273°	-10°	2.6dB	313°K	368570	-165 Hz
2029-06-20	wednesday13:30	227°	+20°	0 dB	0°	227°	+20°	280°	-11°	2.6dB	313°K	368534	-193 Hz
2029-06-20	wednesday14:00	233°	+16°	0 dB	0°	233°	+16°	287°	-11°	2.6dB	313°K	368499	-218 Hz
2029-06-20	wednesday14:30	239°	+12°	0 dB	0°	239°	+12°	294°	-11°	2.6dB	313°K	368463	-238 Hz
2029-06-20	wednesday15:00	245°	+7°	0 dB	0°	245°	+7°	302°	-11°	2.6dB	313°K	368428	-255 Hz
2029-06-20	wednesday15:30	250°	+3°	0 dB	0°	250°	+3°	309°	-11°	2.6dB	313°K	368393	-267 Hz
2029-06-21	Thursday 06:30	114°	+2°	0 dB	0°	114°	+2°	166°	-14°	2.5dB	305°K	367484	+281 Hz
2029-06-21	Thursday 07:00	120°	+6°	0 dB	0°	120°	+6°	173°	-14°	2.5dB	305°K	367459	+267 Hz
2029-06-21	Thursday 07:30	125°	+10°	0 dB	0°	125°	+10°	180°	-14°	2.5dB	305°K	367434	+248 Hz
2029-06-21	Thursday 08:00	131°	+14°	0 dB	0°	131°	+14°	188°	-15°	2.4dB	304°K	367409	+226 Hz
2029-06-21	Thursday 08:30	138°	+18°	0 dB	0°	138°	+18°	195°	-15°	2.4dB	304°K	367384	+200 Hz
2029-06-21	Thursday 09:00	144°	+21°	0 dB	0°	144°	+21°	202°	-15°	2.5dB	305°K	367360	+171 Hz
2029-06-21	Thursday 09:30	152°	+23°	0 dB	0°	152°	+23°	209°	-15°	2.5dB	305°K	367337	+139 Hz
2029-06-21	Thursday 10:00	159°	+25°	0 dB	0°	159°	+25°	217°	-15°	2.5dB	306°K	367313	+105 Hz
2029-06-21	Thursday 10:30	167°	+27°	0 dB	0°	167°	+27°	224°	-15°	2.5dB	307°K	367290	+69 Hz
2029-06-21	Thursday 11:00	175°	+28°	0 dB	0°	175°	+28°	231°	-15°	2.5dB	308°K	367267	+32 Hz
2029-06-21	Thursday 11:30	182°	+28°	0 dB	0°	182°	+28°	238°	-15°	2.5dB	309°K	367245	-5 Hz
2029-06-21	Thursday 12:00	190°	+27°	0 dB	0°	190°	+27°	246°	-15°	2.5dB	310°K	367223	-42 Hz
2029-06-21	Thursday 12:30	198°	+26°	0 dB	0°	198°	+26°	253°	-15°	2.5dB	311°K	367201	-78 Hz
2029-06-21	Thursday 13:00	205°	+24°	0 dB	0°	205°	+24°	260°	-16°	2.5dB	311°K	367180	-112 Hz
2029-06-21	Thursday 13:30	212°	+21°	0 dB	0°	212°	+21°	267°	-16°	2.5dB	312°K	367159	-145 Hz
2029-06-21	Thursday 14:00	219°	+18°	0 dB	0°	219°	+18°	274°	-16°	2.5dB	313°K	367138	-175 Hz
2029-06-21	Thursday 14:30	226°	+15°	0 dB	0°	226°	+15°	282°	-16°	2.6dB	314°K	367118	-201 Hz
2029-06-21	Thursday 15:00	231°	+11°	0 dB	0°	231°	+11°	289°	-16°	2.6dB	315°K	367098	-224 Hz
2029-06-21	Thursday 15:30	237°	+7°	0 dB	0°	237°	+7°	296°	-16°	2.6dB	316°K	367079	-243 Hz
2029-06-21	Thursday 16:00	243°	+2°	0 dB	0°	243°	+2°	303°	-16°	2.6dB	317°K	367060	-258 Hz
2029-06-22	Friday 08:00	123°	+3°	0 dB	0°	123°	+3°	174°	-19°	3.0dB	356°K	366648	+248 Hz
2029-06-22	Friday 08:30	129°	+7°	0 dB	0°	129°	+7°	182°	-19°	3.0dB	357°K	366641	+229 Hz
2029-06-22	Friday 09:00	135°	+11°	0 dB	0°	135°	+11°	189°	-19°	3.0dB	359°K	366636	+207 Hz
2029-06-22	Friday 09:30	141°	+14°	0 dB	0°	141°	+14°	196°	-19°	3.0dB	360°K	366630	+181 Hz
2029-06-22	Friday 10:00	147°	+17°	0 dB	0°	147°	+17°	203°	-19°	3.0dB	361°K	366625	+153 Hz
2029-06-22	Friday 10:30	154°	+19°	0 dB	0°	154°	+19°	210°	-19°	3.1dB	363°K	366621	+121 Hz
2029-06-22	Friday 11:00	161°	+21°	0 dB	0°	161°	+21°	218°	-19°	3.1dB	364°K	366617	+88 Hz
2029-06-22	Friday 11:30	168°	+23°	0 dB	0°	168°	+23°	225°	-20°	3.1dB	365°K	366613	+53 Hz
2029-06-22	Friday 12:00	176°	+23°	0 dB	0°	176°	+23°	232°	-20°	3.1dB	366°K	366609	+17 Hz
2029-06-22	Friday 12:30	183°	+23°	0 dB	0°	183°	+23°	239°	-20°	3.1dB	368°K	366607	-19 Hz
2029-06-22	Friday 13:00	191°	+22°	0 dB	0°	191°	+22°	246°	-20°	3.1dB	369°K	366604	-54 Hz
2029-06-22	Friday 13:30	198°	+21°	0 dB	0°	198°	+21°	254°	-20°	3.1dB	370°K	366602	-89 Hz
2029-06-22	Friday 14:00	205°	+19°	0 dB	0°	205°	+19°	261°	-20°	3.1dB	371°K	366601	-122 Hz
2029-06-22	Friday 14:30	212°	+17°	0 dB	0°	212°	+17°	268°	-20°	3.2dB	373°K	366600	-154 Hz
2029-06-22	Friday 15:00	218°	+14°	0 dB	0°	218°	+14°	275°	-20°	3.2dB	374°K	366599	-182 Hz
2029-06-22	Friday 15:30	224°	+11°	0 dB	0°	224°	+11°	282°	-20°	3.2dB	375°K	366599	-207 Hz
2029-06-22	Friday 16:00	230°	+7°	0 dB	0°	230°	+7°	290°	-20°	3.2dB	376°K	366599	-229 Hz
2029-06-22	Friday 16:30	235°	+3°	0 dB	0°	235°	+3°	297°	-20°	3.2dB	378°K	366599	-248 Hz
2029-06-23	Saturday 09:00	126°	+1°	0 dB	0°	126°	+1°	175°	-22°	3.6dB	416°K	366875	+230 Hz
2029-06-23	Saturday 09:30	131°	+5°	0 dB	0°	131°	+5°	182°	-22°	3.6dB	417°K	366891	+212 Hz
2029-06-23	Saturday 10:00	137°	+8°	0 dB	0°	137°	+8°	189°	-22°	3.6dB	420°K	366908	+190 Hz
2029-06-23	Saturday 10:30	143°	+11°	0 dB	0°	143°	+11°	196°	-23°	3.6dB	422°K	366925	+165 Hz
2029-06-23	Saturday 11:00	149°	+14°	0 dB	0°	149°	+14°	203°	-23°	3.7dB	425°K	366943	+137 Hz
2029-06-23	Saturday 11:30	155°	+16°	0 dB	0°	155°	+16°	211°	-23°	3.7dB	428°K	366961	+107 Hz
2029-06-23	Saturday 12:00	162°	+18°	0 dB	0°	162°	+18°	218°	-23°	3.7dB	430°K	366980	+74 Hz
2029-06-23	Saturday 12:30	169°	+19°	0 dB	0°	169°	+19°	225°	-23°	3.7dB	433°K	366999	+40 Hz
2029-06-23	Saturday 13:00	176°	+20°	0 dB	0°	176°	+20°	232°	-23°	3.8dB	435°K	367019	+5 Hz
2029-06-23	Saturday 13:30	183°	+20°	0 dB	0°	183°	+20°	239°	-23°	3.8dB	438°K	367039	-30 Hz
2029-06-23	Saturday 14:00	190°	+19°	0 dB	0°	190°	+19°	247°	-23°	3.8dB	441°K	367059	-65 Hz
2029-06-23	Saturday 14:30	197°	+18°	0 dB	0°	197°	+18°	254°	-23°	3.8dB	443°K	367080	-99 Hz
2029-06-23	Saturday 15:00	204°	+16°	0 dB	0°	204°	+16°	261°	-23°	3.9dB	446°K	367102	-131 Hz
2029-06-23	Saturday 15:30	210°	+14°	0 dB	0°	210°	+14°	268°	-23°	3.9dB	449°K	367124	-161 Hz
2029-06-23	Saturday 16:00	217°	+11°	0 dB	0°	217°	+11°	275°	-23°	3.9dB	451°K	367147	-189 Hz
2029-06-23	Saturday 16:30	223°	+8°	0 dB	0°	223°	+8°	283°	-23°	3.9dB	454°K	367170	-214 Hz
2029-06-23	Saturday 17:00	228°	+4°	0 dB	0°	228°	+4°	290°	-23°	4.0dB	456°K	367193	-235 Hz
2029-06-23	Saturday 17:30	234°	+0°	0 dB	0°	234°	+0°	297°	-23°	4.0dB	459°K	367217	-253 Hz
2029-06-24	Sunday 10:30	132°	+3°	0 dB	0°	132°	+3°	182°	-24°	5.4dB	653°K	368327	+198 Hz
2029-06-24	Sunday 11:00	137°	+7°	0 dB	0°	137°	+7°	189°	-24°	5.5dB	664°K	368369	+176 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-24	Sunday	11:30	143°	+10°	0 dB	0°	143°	+10°	196°	-24°	5.6dB	676°K	368410 +152 Hz
2029-06-24	Sunday	12:00	149°	+13°	0 dB	0°	149°	+13°	203°	-24°	5.6dB	687°K	368453 +125 Hz
2029-06-24	Sunday	12:30	156°	+15°	0 dB	0°	156°	+15°	210°	-24°	5.7dB	698°K	368495 +95 Hz
2029-06-24	Sunday	13:00	162°	+17°	0 dB	0°	162°	+17°	218°	-24°	5.8dB	710°K	368539 +63 Hz
2029-06-24	Sunday	13:30	169°	+18°	0 dB	0°	169°	+18°	225°	-24°	5.8dB	721°K	368582 +29 Hz
2029-06-24	Sunday	14:00	176°	+18°	0 dB	0°	176°	+18°	232°	-24°	5.9dB	733°K	368627 -5 Hz
2029-06-24	Sunday	14:30	183°	+19°	0 dB	0°	183°	+19°	239°	-24°	5.9dB	744°K	368671 -40 Hz
2029-06-24	Sunday	15:00	190°	+18°	0 dB	0°	190°	+18°	246°	-24°	6.0dB	755°K	368717 -74 Hz
2029-06-24	Sunday	15:30	197°	+17°	0 dB	0°	197°	+17°	254°	-24°	6.1dB	767°K	368762 -107 Hz
2029-06-24	Sunday	16:00	203°	+15°	0 dB	0°	203°	+15°	261°	-24°	6.1dB	778°K	368808 -139 Hz
2029-06-24	Sunday	16:30	210°	+13°	0 dB	0°	210°	+13°	268°	-24°	6.2dB	790°K	368855 -170 Hz
2029-06-24	Sunday	17:00	216°	+10°	0 dB	0°	216°	+10°	275°	-24°	6.3dB	801°K	368902 -197 Hz
2029-06-24	Sunday	17:30	222°	+7°	0 dB	0°	222°	+7°	282°	-24°	6.3dB	812°K	368950 -222 Hz
2029-06-24	Sunday	18:00	227°	+3°	0 dB	0°	227°	+3°	289°	-24°	6.4dB	824°K	368998 -243 Hz
2029-06-24	Sunday	18:30	233°	-0°	0 dB	0°	233°	-0°	297°	-24°	6.4dB	835°K	369047 -261 Hz
2029-06-25	Monday	11:30	132°	+3°	0 dB	0°	132°	+3°	181°	-24°	10.5dB	2196°K	370985 +187 Hz
2029-06-25	Monday	12:00	137°	+7°	0 dB	0°	137°	+7°	188°	-24°	10.7dB	2269°K	371050 +167 Hz
2029-06-25	Monday	12:30	143°	+10°	0 dB	0°	143°	+10°	196°	-24°	10.8dB	2342°K	371116 +142 Hz
2029-06-25	Monday	13:00	149°	+13°	0 dB	0°	149°	+13°	203°	-24°	10.9dB	2415°K	371182 +115 Hz
2029-06-25	Monday	13:30	155°	+15°	0 dB	0°	155°	+15°	210°	-24°	11.1dB	2488°K	371248 +85 Hz
2029-06-25	Monday	14:00	162°	+17°	0 dB	0°	162°	+17°	217°	-24°	11.2dB	2561°K	371315 +54 Hz
2029-06-25	Monday	14:30	169°	+18°	0 dB	0°	169°	+18°	224°	-24°	11.3dB	2634°K	371383 +20 Hz
2029-06-25	Monday	15:00	176°	+19°	0 dB	0°	176°	+19°	232°	-24°	11.4dB	2707°K	371450 -14 Hz
2029-06-25	Monday	15:30	183°	+19°	0 dB	0°	183°	+19°	239°	-24°	11.6dB	2780°K	371519 -49 Hz
2029-06-25	Monday	16:00	190°	+18°	0 dB	0°	190°	+18°	246°	-24°	11.7dB	2852°K	371587 -83 Hz
2029-06-25	Monday	16:30	197°	+17°	0 dB	0°	197°	+17°	253°	-24°	11.8dB	2925°K	371656 -117 Hz
2029-06-25	Monday	17:00	203°	+15°	0 dB	0°	203°	+15°	260°	-24°	11.9dB	2998°K	371726 -149 Hz
2029-06-25	Monday	17:30	210°	+13°	0 dB	0°	210°	+13°	268°	-24°	12.0dB	3070°K	371796 -180 Hz
2029-06-25	Monday	18:00	216°	+11°	0 dB	0°	216°	+11°	275°	-24°	12.1dB	3143°K	371866 -208 Hz
2029-06-25	Monday	18:30	222°	+7°	0 dB	0°	222°	+7°	282°	-24°	12.2dB	3215°K	371937 -233 Hz
2029-06-25	Monday	19:00	227°	+4°	0 dB	0°	227°	+4°	289°	-24°	12.3dB	3288°K	372009 -255 Hz
2029-06-25	Monday	19:30	233°	+0°	0 dB	0°	233°	+0°	296°	-24°	12.3dB	3266°K	372080 -273 Hz
2029-06-26	Tuesday	12:00	126°	+0°	0 dB	0°	126°	+0°	174°	-23°	9.3dB	1579°K	374675 +198 Hz
2029-06-26	Tuesday	12:30	131°	+4°	0 dB	0°	131°	+4°	181°	-23°	9.2dB	1528°K	374760 +181 Hz
2029-06-26	Tuesday	13:00	137°	+8°	0 dB	0°	137°	+8°	189°	-23°	9.1dB	1478°K	374845 +160 Hz
2029-06-26	Tuesday	13:30	142°	+11°	0 dB	0°	142°	+11°	196°	-22°	8.9dB	1428°K	374931 +135 Hz
2029-06-26	Tuesday	14:00	149°	+14°	0 dB	0°	149°	+14°	203°	-22°	8.8dB	1378°K	375017 +108 Hz
2029-06-26	Tuesday	14:30	155°	+17°	0 dB	0°	155°	+17°	210°	-22°	8.6dB	1328°K	375104 +77 Hz
2029-06-26	Tuesday	15:00	162°	+19°	0 dB	0°	162°	+19°	218°	-22°	8.5dB	1278°K	375191 +45 Hz
2029-06-26	Tuesday	15:30	169°	+20°	0 dB	0°	169°	+20°	225°	-22°	8.3dB	1228°K	375278 +11 Hz
2029-06-26	Tuesday	16:00	176°	+21°	0 dB	0°	176°	+21°	232°	-22°	8.1dB	1178°K	375365 -24 Hz
2029-06-26	Tuesday	16:30	183°	+21°	0 dB	0°	183°	+21°	239°	-22°	8.0dB	1129°K	375453 -59 Hz
2029-06-26	Tuesday	17:00	190°	+20°	0 dB	0°	190°	+20°	246°	-22°	7.8dB	1079°K	375541 -94 Hz
2029-06-26	Tuesday	17:30	197°	+19°	0 dB	0°	197°	+19°	254°	-22°	7.6dB	1029°K	375630 -129 Hz
2029-06-26	Tuesday	18:00	204°	+17°	0 dB	0°	204°	+17°	261°	-22°	7.4dB	980°K	375719 -162 Hz
2029-06-26	Tuesday	18:30	211°	+15°	0 dB	0°	211°	+15°	268°	-22°	7.2dB	930°K	375808 -193 Hz
2029-06-26	Tuesday	19:00	217°	+12°	0 dB	0°	217°	+12°	275°	-22°	7.0dB	881°K	375897 -221 Hz
2029-06-26	Tuesday	19:30	223°	+9°	0 dB	0°	223°	+9°	282°	-22°	6.9dB	859°K	375987 -247 Hz
2029-06-26	Tuesday	20:00	229°	+6°	0 dB	0°	229°	+6°	290°	-22°	6.8dB	844°K	376077 -269 Hz
2029-06-26	Tuesday	20:30	234°	+2°	0 dB	0°	234°	+2°	297°	-22°	6.7dB	830°K	376168 -287 Hz
2029-06-27	wednesday	13:00	124°	+3°	0 dB	0°	124°	+3°	175°	-20°	4.5dB	458°K	379309 +196 Hz
2029-06-27	wednesday	13:30	130°	+8°	0 dB	0°	130°	+8°	183°	-19°	4.5dB	452°K	379408 +178 Hz
2029-06-27	wednesday	14:00	136°	+11°	0 dB	0°	136°	+11°	190°	-19°	4.4dB	446°K	379508 +155 Hz
2029-06-27	wednesday	14:30	142°	+15°	0 dB	0°	142°	+15°	197°	-19°	4.4dB	440°K	379607 +130 Hz
2029-06-27	wednesday	15:00	148°	+18°	0 dB	0°	148°	+18°	204°	-19°	4.4dB	435°K	379707 +101 Hz
2029-06-27	wednesday	15:30	155°	+20°	0 dB	0°	155°	+20°	211°	-19°	4.3dB	429°K	379807 +69 Hz
2029-06-27	wednesday	16:00	162°	+22°	0 dB	0°	162°	+22°	219°	-19°	4.3dB	423°K	379908 +36 Hz
2029-06-27	wednesday	16:30	170°	+23°	0 dB	0°	170°	+23°	226°	-19°	4.2dB	417°K	380008 +1 Hz
2029-06-27	wednesday	17:00	177°	+24°	0 dB	0°	177°	+24°	233°	-19°	4.2dB	411°K	380109 -35 Hz
2029-06-27	wednesday	17:30	185°	+24°	0 dB	0°	185°	+24°	240°	-19°	4.1dB	405°K	380210 -72 Hz
2029-06-27	wednesday	18:00	192°	+23°	0 dB	0°	192°	+23°	248°	-19°	4.1dB	400°K	380311 -108 Hz
2029-06-27	wednesday	18:30	199°	+22°	0 dB	0°	199°	+22°	255°	-19°	4.0dB	394°K	380412 -143 Hz
2029-06-27	wednesday	19:00	206°	+20°	0 dB	0°	206°	+20°	262°	-19°	4.0dB	388°K	380514 -176 Hz
2029-06-27	wednesday	19:30	213°	+18°	0 dB	0°	213°	+18°	269°	-19°	3.9dB	382°K	380615 -208 Hz
2029-06-27	wednesday	20:00	220°	+15°	0 dB	0°	220°	+15°	277°	-19°	3.9dB	377°K	380717 -236 Hz
2029-06-27	wednesday	20:30	226°	+11°	0 dB	0°	226°	+11°	284°	-18°	3.8dB	371°K	380819 -262 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-06-27	wednesday 21:00	232°	+8°	0 dB	0°	232°	+8°	291°	-18°	3.8dB	368°K	380921	-284 Hz
2029-06-27	wednesday 21:30	237°	+4°	0 dB	0°	237°	+4°	298°	-18°	3.8dB	366°K	381024	-302 Hz
2029-06-28	Thursday 13:30	118°	+4°	0 dB	0°	118°	+4°	170°	-16°	3.5dB	326°K	384360	+211 Hz
2029-06-28	Thursday 14:00	124°	+8°	0 dB	0°	124°	+8°	177°	-15°	3.5dB	326°K	384465	+195 Hz
2029-06-28	Thursday 14:30	129°	+12°	0 dB	0°	129°	+12°	185°	-15°	3.5dB	326°K	384571	+175 Hz
2029-06-28	Thursday 15:00	135°	+16°	0 dB	0°	135°	+16°	192°	-15°	3.5dB	326°K	384677	+151 Hz
2029-06-28	Thursday 15:30	142°	+19°	0 dB	0°	142°	+19°	199°	-15°	3.5dB	326°K	384782	+124 Hz
2029-06-28	Thursday 16:00	149°	+22°	0 dB	0°	149°	+22°	206°	-15°	3.5dB	326°K	384888	+94 Hz
2029-06-28	Thursday 16:30	156°	+25°	0 dB	0°	156°	+25°	214°	-15°	3.5dB	326°K	384994	+61 Hz
2029-06-28	Thursday 17:00	163°	+27°	0 dB	0°	163°	+27°	221°	-15°	3.5dB	326°K	385100	+26 Hz
2029-06-28	Thursday 17:30	171°	+28°	0 dB	0°	171°	+28°	228°	-15°	3.5dB	326°K	385205	-11 Hz
2029-06-28	Thursday 18:00	179°	+28°	0 dB	0°	179°	+28°	235°	-15°	3.5dB	326°K	385311	-48 Hz
2029-06-28	Thursday 18:30	187°	+28°	0 dB	0°	187°	+28°	243°	-15°	3.5dB	326°K	385417	-86 Hz
2029-06-28	Thursday 19:00	195°	+27°	0 dB	0°	195°	+27°	250°	-15°	3.5dB	326°K	385523	-122 Hz
2029-06-28	Thursday 19:30	203°	+26°	0 dB	0°	203°	+26°	257°	-14°	3.5dB	326°K	385629	-158 Hz
2029-06-28	Thursday 20:00	210°	+23°	0 dB	0°	210°	+23°	264°	-14°	3.5dB	326°K	385734	-192 Hz
2029-06-28	Thursday 20:30	217°	+21°	0 dB	0°	217°	+21°	272°	-14°	3.6dB	326°K	385840	-223 Hz
2029-06-28	Thursday 21:00	224°	+17°	0 dB	0°	224°	+17°	279°	-14°	3.6dB	326°K	385946	-252 Hz
2029-06-28	Thursday 21:30	230°	+14°	0 dB	0°	230°	+14°	286°	-14°	3.6dB	326°K	386052	-277 Hz
2029-06-28	Thursday 22:00	236°	+10°	0 dB	0°	236°	+10°	293°	-14°	3.6dB	326°K	386158	-298 Hz
2029-06-28	Thursday 22:30	242°	+6°	0 dB	0°	242°	+6°	301°	-14°	3.6dB	326°K	386263	-315 Hz
2029-06-28	Thursday 23:00	247°	+1°	0 dB	0°	247°	+1°	308°	-14°	3.6dB	326°K	386369	-328 Hz
2029-06-29	Friday 13:30	107°	-0°	0 dB	0°	107°	-0°	159°	-11°	3.7dB	326°K	389412	+236 Hz
2029-06-29	Friday 14:00	112°	+4°	0 dB	0°	112°	+4°	166°	-11°	3.7dB	326°K	389515	+227 Hz
2029-06-29	Friday 14:30	117°	+9°	0 dB	0°	117°	+9°	173°	-11°	3.7dB	326°K	389619	+213 Hz
2029-06-29	Friday 15:00	123°	+14°	0 dB	0°	123°	+14°	180°	-11°	3.7dB	325°K	389722	+195 Hz
2029-06-29	Friday 15:30	129°	+18°	0 dB	0°	129°	+18°	188°	-11°	3.7dB	324°K	389825	+173 Hz
2029-06-29	Friday 16:00	136°	+22°	0 dB	0°	136°	+22°	195°	-10°	3.7dB	323°K	389928	+147 Hz
2029-06-29	Friday 16:30	143°	+25°	0 dB	0°	143°	+25°	202°	-10°	3.7dB	322°K	390031	+117 Hz
2029-06-29	Friday 17:00	150°	+28°	0 dB	0°	150°	+28°	209°	-10°	3.7dB	321°K	390133	+85 Hz
2029-06-29	Friday 17:30	158°	+30°	0 dB	0°	158°	+30°	217°	-10°	3.7dB	320°K	390236	+50 Hz
2029-06-29	Friday 18:00	166°	+32°	0 dB	0°	166°	+32°	224°	-10°	3.7dB	319°K	390338	+14 Hz
2029-06-29	Friday 18:30	174°	+33°	0 dB	0°	174°	+33°	231°	-10°	3.7dB	318°K	390441	-24 Hz
2029-06-29	Friday 19:00	183°	+33°	0 dB	0°	183°	+33°	239°	-10°	3.7dB	317°K	390543	-63 Hz
2029-06-29	Friday 19:30	192°	+33°	0 dB	0°	192°	+33°	246°	-10°	3.7dB	316°K	390645	-101 Hz
2029-06-29	Friday 20:00	200°	+31°	0 dB	0°	200°	+31°	253°	-10°	3.6dB	315°K	390746	-138 Hz
2029-06-29	Friday 20:30	208°	+29°	0 dB	0°	208°	+29°	260°	-10°	3.6dB	314°K	390848	-174 Hz
2029-06-29	Friday 21:00	216°	+27°	0 dB	0°	216°	+27°	268°	-9°	3.6dB	313°K	390949	-207 Hz
2029-06-29	Friday 21:30	223°	+24°	0 dB	0°	223°	+24°	275°	-9°	3.6dB	312°K	391051	-238 Hz
2029-06-29	Friday 22:00	230°	+20°	0 dB	0°	230°	+20°	282°	-9°	3.6dB	311°K	391152	-266 Hz
2029-06-29	Friday 22:30	236°	+16°	0 dB	0°	236°	+16°	289°	-9°	3.6dB	310°K	391252	-289 Hz
2029-06-29	Friday 23:00	242°	+12°	0 dB	0°	242°	+12°	297°	-9°	3.6dB	309°K	391353	-309 Hz
2029-06-29	Friday 23:30	248°	+7°	0 dB	0°	248°	+7°	304°	-9°	3.6dB	308°K	391454	-325 Hz
2029-06-30	Saturday 00:00	253°	+3°	0 dB	0°	253°	+3°	311°	-9°	3.6dB	307°K	391554	-336 Hz
2029-06-30	Saturday 14:00	101°	+1°	0 dB	0°	101°	+1°	155°	-6°	3.2dB	268°K	394271	+249 Hz
2029-06-30	Saturday 14:30	106°	+6°	0 dB	0°	106°	+6°	162°	-6°	3.2dB	267°K	394364	+242 Hz
2029-06-30	Saturday 15:00	111°	+11°	0 dB	0°	111°	+11°	170°	-6°	3.2dB	265°K	394457	+231 Hz
2029-06-30	Saturday 15:30	117°	+16°	0 dB	0°	117°	+16°	177°	-6°	3.2dB	263°K	394550	+215 Hz
2029-06-30	Saturday 16:00	123°	+20°	0 dB	0°	123°	+20°	184°	-6°	3.2dB	262°K	394642	+194 Hz
2029-06-30	Saturday 16:30	130°	+24°	0 dB	0°	130°	+24°	191°	-5°	3.1dB	260°K	394735	+169 Hz
2029-06-30	Saturday 17:00	137°	+28°	0 dB	0°	137°	+28°	199°	-5°	3.1dB	258°K	394826	+141 Hz
2029-06-30	Saturday 17:30	144°	+31°	0 dB	0°	144°	+31°	206°	-5°	3.1dB	257°K	394918	+109 Hz
2029-06-30	Saturday 18:00	152°	+34°	0 dB	0°	152°	+34°	213°	-5°	3.1dB	255°K	395009	+75 Hz
2029-06-30	Saturday 18:30	161°	+36°	0 dB	0°	161°	+36°	221°	-5°	3.1dB	253°K	395100	+38 Hz
2029-06-30	Saturday 19:00	170°	+38°	0 dB	0°	170°	+38°	228°	-5°	3.0dB	252°K	395191	0 Hz
2029-06-30	Saturday 19:30	179°	+38°	0 dB	0°	179°	+38°	235°	-5°	3.0dB	250°K	395281	-38 Hz
2029-06-30	Saturday 20:00	188°	+38°	0 dB	0°	188°	+38°	242°	-5°	3.0dB	248°K	395371	-77 Hz
2029-06-30	Saturday 20:30	197°	+37°	0 dB	0°	197°	+37°	250°	-5°	3.0dB	247°K	395461	-116 Hz
2029-06-30	Saturday 21:00	206°	+35°	0 dB	0°	206°	+35°	257°	-5°	3.0dB	245°K	395550	-153 Hz
2029-06-30	Saturday 21:30	214°	+33°	0 dB	0°	214°	+33°	264°	-4°	3.0dB	244°K	395639	-188 Hz
2029-06-30	Saturday 22:00	222°	+30°	0 dB	0°	222°	+30°	272°	-4°	2.9dB	243°K	395728	-220 Hz
2029-06-30	Saturday 22:30	230°	+26°	0 dB	0°	230°	+26°	279°	-4°	2.9dB	243°K	395816	-250 Hz
2029-06-30	Saturday 23:00	236°	+22°	0 dB	0°	236°	+22°	286°	-4°	2.9dB	243°K	395904	-276 Hz
2029-06-30	Saturday 23:30	243°	+18°	0 dB	0°	243°	+18°	293°	-4°	3.0dB	243°K	395992	-298 Hz
2029-07-01	Sunday 00:00	249°	+13°	0 dB	0°	249°	+13°	301°	-4°	3.0dB	243°K	396079	-315 Hz
2029-07-01	Sunday 00:30	254°	+9°	0 dB	0°	254°	+9°	308°	-4°	3.0dB	243°K	396166	-328 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-01	Sunday	01:00	260°	+4°	0 dB	0°	260°	+4°	315°	-4°	3.0dB	243°K	396253 -336 Hz
2029-07-01	Sunday	14:30	095°	+3°	0 dB	0°	095°	+3°	152°	-1°	3.1dB	243°K	398454 +263 Hz
2029-07-01	Sunday	15:00	100°	+8°	0 dB	0°	100°	+8°	159°	-1°	3.1dB	243°K	398530 +258 Hz
2029-07-01	Sunday	15:30	106°	+13°	0 dB	0°	106°	+13°	167°	-1°	3.1dB	243°K	398606 +248 Hz
2029-07-01	Sunday	16:00	111°	+18°	0 dB	0°	111°	+18°	174°	-1°	3.1dB	242°K	398681 +234 Hz
2029-07-01	Sunday	16:30	117°	+22°	0 dB	0°	117°	+22°	181°	-0°	3.1dB	242°K	398756 +215 Hz
2029-07-01	Sunday	17:00	124°	+27°	0 dB	0°	124°	+27°	188°	-0°	3.1dB	242°K	398830 +191 Hz
2029-07-01	Sunday	17:30	131°	+31°	0 dB	0°	131°	+31°	196°	-0°	3.1dB	242°K	398904 +164 Hz
2029-07-01	Sunday	18:00	138°	+35°	0 dB	0°	138°	+35°	203°	-0°	3.1dB	242°K	398978 +133 Hz
2029-07-01	Sunday	18:30	146°	+38°	0 dB	0°	146°	+38°	210°	+0°	3.1dB	242°K	399051 +100 Hz
2029-07-01	Sunday	19:00	155°	+41°	0 dB	0°	155°	+41°	218°	+0°	3.1dB	242°K	399123 +64 Hz
2029-07-01	Sunday	19:30	165°	+42°	0 dB	0°	165°	+42°	225°	+0°	3.1dB	242°K	399195 +26 Hz
2029-07-01	Sunday	20:00	175°	+43°	0 dB	0°	175°	+43°	232°	+0°	3.1dB	241°K	399267 -13 Hz
2029-07-01	Sunday	20:30	185°	+43°	0 dB	0°	185°	+43°	240°	+0°	3.1dB	241°K	399339 -52 Hz
2029-07-01	Sunday	21:00	195°	+43°	0 dB	0°	195°	+43°	247°	+1°	3.1dB	241°K	399409 -91 Hz
2029-07-01	Sunday	21:30	205°	+41°	0 dB	0°	205°	+41°	254°	+1°	3.1dB	241°K	399480 -129 Hz
2029-07-01	Sunday	22:00	214°	+39°	0 dB	0°	214°	+39°	261°	+1°	3.1dB	241°K	399550 -165 Hz
2029-07-01	Sunday	22:30	222°	+36°	0 dB	0°	222°	+36°	269°	+1°	3.1dB	241°K	399619 -199 Hz
2029-07-01	Sunday	23:00	230°	+32°	0 dB	0°	230°	+32°	276°	+1°	3.1dB	241°K	399689 -230 Hz
2029-07-01	Sunday	23:30	237°	+28°	0 dB	0°	237°	+28°	283°	+1°	3.1dB	240°K	399757 -257 Hz
2029-07-02	Monday	00:00	244°	+24°	0 dB	0°	244°	+24°	291°	+1°	3.1dB	240°K	399825 -281 Hz
2029-07-02	Monday	00:30	250°	+19°	0 dB	0°	250°	+19°	298°	+1°	3.1dB	240°K	399893 -300 Hz
2029-07-02	Monday	01:00	256°	+14°	0 dB	0°	256°	+14°	305°	+1°	3.1dB	240°K	399960 -315 Hz
2029-07-02	Monday	01:30	261°	+10°	0 dB	0°	261°	+10°	312°	+1°	3.1dB	240°K	400027 -325 Hz
2029-07-02	Monday	02:00	267°	+5°	0 dB	0°	267°	+5°	320°	+2°	3.1dB	240°K	400094 -330 Hz
2029-07-02	Monday	02:30	272°	-0°	0 dB	0°	272°	-0°	327°	+2°	3.1dB	240°K	400160 -330 Hz
2029-07-02	Monday	15:00	089°	+4°	0 dB	0°	089°	+4°	149°	+4°	3.1dB	239°K	401652 +276 Hz
2029-07-02	Monday	15:30	095°	+10°	0 dB	0°	095°	+10°	157°	+4°	3.1dB	239°K	401705 +272 Hz
2029-07-02	Monday	16:00	100°	+15°	0 dB	0°	100°	+15°	164°	+4°	3.1dB	239°K	401758 +264 Hz
2029-07-02	Monday	16:30	105°	+20°	0 dB	0°	105°	+20°	171°	+5°	3.1dB	239°K	401811 +252 Hz
2029-07-02	Monday	17:00	111°	+25°	0 dB	0°	111°	+25°	178°	+5°	3.1dB	239°K	401862 +234 Hz
2029-07-02	Monday	17:30	118°	+29°	0 dB	0°	118°	+29°	186°	+5°	3.2dB	239°K	401914 +212 Hz
2029-07-02	Monday	18:00	124°	+34°	0 dB	0°	124°	+34°	193°	+5°	3.2dB	239°K	401964 +187 Hz
2029-07-02	Monday	18:30	132°	+38°	0 dB	0°	132°	+38°	200°	+5°	3.2dB	239°K	402015 +157 Hz
2029-07-02	Monday	19:00	140°	+41°	0 dB	0°	140°	+41°	208°	+5°	3.2dB	239°K	402064 +124 Hz
2029-07-02	Monday	19:30	149°	+44°	0 dB	0°	149°	+44°	215°	+5°	3.2dB	239°K	402114 +89 Hz
2029-07-02	Monday	20:00	159°	+47°	0 dB	0°	159°	+47°	222°	+5°	3.2dB	239°K	402162 +52 Hz
2029-07-02	Monday	20:30	170°	+48°	0 dB	0°	170°	+48°	229°	+5°	3.2dB	239°K	402210 +14 Hz
2029-07-02	Monday	21:00	181°	+49°	0 dB	0°	181°	+49°	237°	+5°	3.2dB	239°K	402258 -25 Hz
2029-07-02	Monday	21:30	192°	+48°	0 dB	0°	192°	+48°	244°	+6°	3.2dB	239°K	402305 -64 Hz
2029-07-02	Monday	22:00	203°	+47°	0 dB	0°	203°	+47°	251°	+6°	3.2dB	239°K	402352 -102 Hz
2029-07-02	Monday	22:30	213°	+44°	0 dB	0°	213°	+44°	259°	+6°	3.2dB	243°K	402398 -139 Hz
2029-07-02	Monday	23:00	222°	+41°	0 dB	0°	222°	+41°	266°	+6°	3.2dB	244°K	402444 -174 Hz
2029-07-02	Monday	23:30	230°	+38°	0 dB	0°	230°	+38°	273°	+6°	3.2dB	244°K	402489 -206 Hz
2029-07-03	Tuesday	00:00	238°	+34°	0 dB	0°	238°	+34°	281°	+6°	3.3dB	245°K	402533 -234 Hz
2029-07-03	Tuesday	00:30	245°	+29°	0 dB	0°	245°	+29°	288°	+6°	3.3dB	245°K	402577 -259 Hz
2029-07-03	Tuesday	01:00	251°	+25°	0 dB	0°	251°	+25°	295°	+6°	3.3dB	246°K	402621 -280 Hz
2029-07-03	Tuesday	01:30	257°	+20°	0 dB	0°	257°	+20°	302°	+6°	3.3dB	246°K	402664 -296 Hz
2029-07-03	Tuesday	02:00	263°	+15°	0 dB	0°	263°	+15°	310°	+6°	3.3dB	247°K	402706 -308 Hz
2029-07-03	Tuesday	02:30	268°	+10°	0 dB	0°	268°	+10°	317°	+7°	3.3dB	248°K	402748 -315 Hz
2029-07-03	Tuesday	03:00	273°	+5°	0 dB	0°	273°	+5°	324°	+7°	3.3dB	248°K	402789 -317 Hz
2029-07-03	Tuesday	03:30	279°	+0°	0 dB	0°	279°	+0°	332°	+7°	3.3dB	249°K	402830 -314 Hz
2029-07-03	Tuesday	15:00	079°	+1°	0 dB	0°	079°	+1°	139°	+9°	3.5dB	261°K	403619 +284 Hz
2029-07-03	Tuesday	15:30	084°	+6°	0 dB	0°	084°	+6°	147°	+9°	3.5dB	261°K	403647 +287 Hz
2029-07-03	Tuesday	16:00	089°	+11°	0 dB	0°	089°	+11°	154°	+9°	3.5dB	262°K	403674 +286 Hz
2029-07-03	Tuesday	16:30	094°	+16°	0 dB	0°	094°	+16°	161°	+9°	3.6dB	262°K	403701 +279 Hz
2029-07-03	Tuesday	17:00	100°	+21°	0 dB	0°	100°	+21°	168°	+9°	3.6dB	263°K	403727 +268 Hz
2029-07-03	Tuesday	17:30	106°	+26°	0 dB	0°	106°	+26°	176°	+9°	3.6dB	264°K	403753 +253 Hz
2029-07-03	Tuesday	18:00	112°	+31°	0 dB	0°	112°	+31°	183°	+10°	3.6dB	264°K	403778 +233 Hz
2029-07-03	Tuesday	18:30	118°	+36°	0 dB	0°	118°	+36°	190°	+10°	3.6dB	265°K	403802 +208 Hz
2029-07-03	Tuesday	19:00	126°	+40°	0 dB	0°	126°	+40°	198°	+10°	3.6dB	265°K	403826 +181 Hz
2029-07-03	Tuesday	19:30	134°	+44°	0 dB	0°	134°	+44°	205°	+10°	3.6dB	266°K	403849 +149 Hz
2029-07-03	Tuesday	20:00	143°	+48°	0 dB	0°	143°	+48°	212°	+10°	3.6dB	266°K	403872 +115 Hz
2029-07-03	Tuesday	20:30	153°	+51°	0 dB	0°	153°	+51°	219°	+10°	3.6dB	267°K	403894 +79 Hz
2029-07-03	Tuesday	21:00	165°	+53°	0 dB	0°	165°	+53°	227°	+10°	3.6dB	267°K	403916 +42 Hz
2029-07-03	Tuesday	21:30	177°	+53°	0 dB	0°	177°	+53°	234°	+10°	3.6dB	268°K	403937 +3 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-03	Tuesday 22:00	189°	+53°	0 dB	0°	189°	+53°	241°	+10°	3.6dB	268°K	403958	-36 Hz
2029-07-03	Tuesday 22:30	201°	+52°	0 dB	0°	201°	+52°	249°	+10°	3.7dB	269°K	403978	-74 Hz
2029-07-03	Tuesday 23:00	212°	+50°	0 dB	0°	212°	+50°	256°	+11°	3.7dB	269°K	403997	-111 Hz
2029-07-03	Tuesday 23:30	222°	+47°	0 dB	0°	222°	+47°	263°	+11°	3.7dB	270°K	404016	-146 Hz
2029-07-04	wednesday00:00	231°	+43°	0 dB	0°	231°	+43°	270°	+11°	3.7dB	271°K	404034	-178 Hz
2029-07-04	wednesday00:30	239°	+39°	0 dB	0°	239°	+39°	278°	+11°	3.7dB	271°K	404052	-208 Hz
2029-07-04	wednesday01:00	246°	+35°	0 dB	0°	246°	+35°	285°	+11°	3.7dB	272°K	404069	-234 Hz
2029-07-04	wednesday01:30	252°	+30°	0 dB	0°	252°	+30°	292°	+11°	3.7dB	272°K	404086	-256 Hz
2029-07-04	wednesday02:00	258°	+25°	0 dB	0°	258°	+25°	300°	+11°	3.7dB	273°K	404102	-274 Hz
2029-07-04	wednesday02:30	264°	+20°	0 dB	0°	264°	+20°	307°	+11°	3.7dB	273°K	404118	-287 Hz
2029-07-04	wednesday03:00	269°	+15°	0 dB	0°	269°	+15°	314°	+11°	3.7dB	274°K	404133	-296 Hz
2029-07-04	wednesday03:30	275°	+10°	0 dB	0°	275°	+10°	321°	+11°	3.7dB	274°K	404147	-299 Hz
2029-07-04	wednesday04:00	280°	+5°	0 dB	0°	280°	+5°	329°	+11°	3.7dB	275°K	404161	-298 Hz
2029-07-04	wednesday04:30	285°	+1°	0 dB	0°	285°	+1°	336°	+12°	3.7dB	275°K	404174	-292 Hz
2029-07-04	wednesday15:00	074°	+2°	0 dB	0°	074°	+2°	136°	+14°	3.9dB	287°K	404326	+291 Hz
2029-07-04	wednesday16:00	079°	+7°	0 dB	0°	079°	+7°	144°	+14°	3.9dB	288°K	404326	+296 Hz
2029-07-04	wednesday16:30	084°	+12°	0 dB	0°	084°	+12°	151°	+14°	3.9dB	289°K	404326	+297 Hz
2029-07-04	wednesday17:00	089°	+17°	0 dB	0°	089°	+17°	158°	+14°	3.9dB	289°K	404325	+293 Hz
2029-07-04	wednesday17:30	094°	+22°	0 dB	0°	094°	+22°	165°	+14°	3.9dB	290°K	404324	+284 Hz
2029-07-04	wednesday18:00	100°	+28°	0 dB	0°	100°	+28°	173°	+14°	3.9dB	290°K	404323	+270 Hz
2029-07-04	wednesday18:30	106°	+33°	0 dB	0°	106°	+33°	180°	+14°	4.0dB	291°K	404320	+252 Hz
2029-07-04	wednesday19:00	112°	+37°	0 dB	0°	112°	+37°	187°	+14°	4.0dB	291°K	404317	+230 Hz
2029-07-04	wednesday19:30	119°	+42°	0 dB	0°	119°	+42°	195°	+14°	4.0dB	292°K	404314	+203 Hz
2029-07-04	wednesday20:00	127°	+47°	0 dB	0°	127°	+47°	202°	+14°	4.0dB	292°K	404310	+174 Hz
2029-07-04	wednesday20:30	136°	+50°	0 dB	0°	136°	+50°	209°	+14°	4.0dB	293°K	404306	+142 Hz
2029-07-04	wednesday21:00	146°	+54°	0 dB	0°	146°	+54°	216°	+14°	4.0dB	294°K	404301	+107 Hz
2029-07-04	wednesday21:30	158°	+56°	0 dB	0°	158°	+56°	224°	+15°	4.0dB	294°K	404295	+70 Hz
2029-07-04	wednesday22:00	171°	+58°	0 dB	0°	171°	+58°	231°	+15°	4.0dB	295°K	404289	+33 Hz
2029-07-04	wednesday22:30	184°	+58°	0 dB	0°	184°	+58°	238°	+15°	4.0dB	295°K	404282	-5 Hz
2029-07-04	wednesday23:00	197°	+57°	0 dB	0°	197°	+57°	246°	+15°	4.0dB	296°K	404275	-43 Hz
2029-07-04	wednesday23:30	210°	+55°	0 dB	0°	210°	+55°	253°	+15°	4.0dB	296°K	404267	-80 Hz
2029-07-05	Thursday 00:00	221°	+52°	0 dB	0°	221°	+52°	260°	+15°	4.0dB	296°K	404259	-115 Hz
2029-07-05	Thursday 00:30	230°	+49°	0 dB	0°	230°	+49°	267°	+15°	4.0dB	296°K	404250	-148 Hz
2029-07-05	Thursday 01:00	239°	+45°	0 dB	0°	239°	+45°	275°	+15°	4.0dB	297°K	404241	-179 Hz
2029-07-05	Thursday 01:30	246°	+40°	0 dB	0°	246°	+40°	282°	+15°	4.0dB	297°K	404231	-206 Hz
2029-07-05	Thursday 02:00	253°	+35°	0 dB	0°	253°	+35°	289°	+15°	4.0dB	297°K	404220	-229 Hz
2029-07-05	Thursday 02:30	259°	+31°	0 dB	0°	259°	+31°	296°	+15°	4.0dB	297°K	404209	-248 Hz
2029-07-05	Thursday 03:00	265°	+26°	0 dB	0°	265°	+26°	304°	+15°	4.0dB	298°K	404197	-263 Hz
2029-07-05	Thursday 03:30	270°	+21°	0 dB	0°	270°	+21°	311°	+16°	4.0dB	298°K	404185	-274 Hz
2029-07-05	Thursday 04:00	276°	+16°	0 dB	0°	276°	+16°	318°	+16°	4.0dB	298°K	404173	-279 Hz
2029-07-05	Thursday 04:30	281°	+11°	0 dB	0°	281°	+11°	326°	+16°	4.0dB	299°K	404159	-280 Hz
2029-07-05	Thursday 05:00	286°	+6°	0 dB	0°	286°	+6°	333°	+16°	4.0dB	299°K	404146	-277 Hz
2029-07-05	Thursday 05:30	291°	+1°	0 dB	0°	291°	+1°	340°	+16°	4.0dB	299°K	404131	-268 Hz
2029-07-05	Thursday 16:00	069°	+3°	0 dB	0°	069°	+3°	133°	+17°	4.2dB	310°K	403709	+296 Hz
2029-07-05	Thursday 16:30	074°	+8°	0 dB	0°	074°	+8°	140°	+18°	4.2dB	311°K	403683	+303 Hz
2029-07-05	Thursday 17:00	079°	+13°	0 dB	0°	079°	+13°	147°	+18°	4.2dB	313°K	403656	+305 Hz
2029-07-05	Thursday 17:30	084°	+18°	0 dB	0°	084°	+18°	155°	+18°	4.2dB	314°K	403630	+303 Hz
2029-07-05	Thursday 18:00	089°	+23°	0 dB	0°	089°	+23°	162°	+18°	4.2dB	316°K	403602	+297 Hz
2029-07-05	Thursday 18:30	094°	+28°	0 dB	0°	094°	+28°	169°	+18°	4.2dB	317°K	403574	+285 Hz
2029-07-05	Thursday 19:00	099°	+33°	0 dB	0°	099°	+33°	177°	+18°	4.2dB	318°K	403546	+270 Hz
2029-07-05	Thursday 19:30	105°	+38°	0 dB	0°	105°	+38°	184°	+18°	4.3dB	320°K	403517	+250 Hz
2029-07-05	Thursday 20:00	112°	+43°	0 dB	0°	112°	+43°	191°	+18°	4.3dB	321°K	403487	+226 Hz
2029-07-05	Thursday 20:30	119°	+48°	0 dB	0°	119°	+48°	198°	+18°	4.3dB	323°K	403457	+198 Hz
2029-07-05	Thursday 21:00	128°	+52°	0 dB	0°	128°	+52°	206°	+18°	4.3dB	324°K	403427	+168 Hz
2029-07-05	Thursday 21:30	138°	+56°	0 dB	0°	138°	+56°	213°	+18°	4.3dB	326°K	403396	+135 Hz
2029-07-05	Thursday 22:00	150°	+59°	0 dB	0°	150°	+59°	220°	+18°	4.3dB	327°K	403365	+100 Hz
2029-07-05	Thursday 22:30	163°	+61°	0 dB	0°	163°	+61°	227°	+18°	4.4dB	329°K	403333	+63 Hz
2029-07-05	Thursday 23:00	177°	+62°	0 dB	0°	177°	+62°	235°	+18°	4.4dB	330°K	403300	+26 Hz
2029-07-05	Thursday 23:30	192°	+61°	0 dB	0°	192°	+61°	242°	+19°	4.4dB	331°K	403267	-11 Hz
2029-07-06	Friday 00:00	206°	+60°	0 dB	0°	206°	+60°	249°	+19°	4.4dB	333°K	403234	-48 Hz
2029-07-06	Friday 00:30	218°	+57°	0 dB	0°	218°	+57°	257°	+19°	4.4dB	334°K	403200	-83 Hz
2029-07-06	Friday 01:00	229°	+54°	0 dB	0°	229°	+54°	264°	+19°	4.4dB	336°K	403165	-117 Hz
2029-07-06	Friday 01:30	238°	+50°	0 dB	0°	238°	+50°	271°	+19°	4.4dB	337°K	403131	-148 Hz
2029-07-06	Friday 02:00	246°	+45°	0 dB	0°	246°	+45°	278°	+19°	4.5dB	339°K	403095	-176 Hz
2029-07-06	Friday 02:30	253°	+41°	0 dB	0°	253°	+41°	286°	+19°	4.5dB	340°K	403059	-201 Hz
2029-07-06	Friday 03:00	259°	+36°	0 dB	0°	259°	+36°	293°	+19°	4.5dB	342°K	403023	-222 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-06	Friday	03:30	265°	+31°	0 dB	0°	265°	+31°	300°	+19°	4.5dB	343°K	402986 -238 Hz
2029-07-06	Friday	04:00	271°	+26°	0 dB	0°	271°	+26°	307°	+19°	4.5dB	345°K	402949 -251 Hz
2029-07-06	Friday	04:30	276°	+21°	0 dB	0°	276°	+21°	315°	+19°	4.5dB	346°K	402911 -259 Hz
2029-07-06	Friday	05:00	281°	+16°	0 dB	0°	281°	+16°	322°	+19°	4.5dB	348°K	402873 -262 Hz
2029-07-06	Friday	05:30	286°	+11°	0 dB	0°	286°	+11°	329°	+19°	4.5dB	348°K	402834 -261 Hz
2029-07-06	Friday	06:00	291°	+6°	0 dB	0°	291°	+6°	336°	+19°	4.6dB	349°K	402794 -255 Hz
2029-07-06	Friday	06:30	296°	+1°	0 dB	0°	296°	+1°	344°	+19°	4.6dB	350°K	402755 -245 Hz
2029-07-06	Friday	16:30	064°	+3°	0 dB	0°	064°	+3°	129°	+21°	4.7dB	365°K	401863 +297 Hz
2029-07-06	Friday	17:00	069°	+7°	0 dB	0°	069°	+7°	136°	+21°	4.7dB	365°K	401814 +306 Hz
2029-07-06	Friday	17:30	074°	+12°	0 dB	0°	074°	+12°	144°	+21°	4.7dB	366°K	401764 +311 Hz
2029-07-06	Friday	18:00	078°	+17°	0 dB	0°	078°	+17°	151°	+21°	4.7dB	367°K	401714 +311 Hz
2029-07-06	Friday	18:30	083°	+22°	0 dB	0°	083°	+22°	158°	+21°	4.7dB	368°K	401663 +307 Hz
2029-07-06	Friday	19:00	088°	+27°	0 dB	0°	088°	+27°	165°	+21°	4.7dB	368°K	401612 +298 Hz
2029-07-06	Friday	19:30	094°	+32°	0 dB	0°	094°	+32°	173°	+21°	4.7dB	369°K	401561 +285 Hz
2029-07-06	Friday	20:00	099°	+37°	0 dB	0°	099°	+37°	180°	+21°	4.7dB	368°K	401509 +268 Hz
2029-07-06	Friday	20:30	105°	+42°	0 dB	0°	105°	+42°	187°	+21°	4.7dB	368°K	401457 +247 Hz
2029-07-06	Friday	21:00	112°	+47°	0 dB	0°	112°	+47°	194°	+21°	4.7dB	367°K	401404 +222 Hz
2029-07-06	Friday	21:30	120°	+52°	0 dB	0°	120°	+52°	202°	+21°	4.7dB	366°K	401351 +193 Hz
2029-07-06	Friday	22:00	129°	+56°	0 dB	0°	129°	+56°	209°	+21°	4.7dB	365°K	401297 +162 Hz
2029-07-06	Friday	22:30	140°	+60°	0 dB	0°	140°	+60°	216°	+21°	4.7dB	365°K	401244 +129 Hz
2029-07-06	Friday	23:00	153°	+63°	0 dB	0°	153°	+63°	223°	+21°	4.6dB	364°K	401189 +94 Hz
2029-07-06	Friday	23:30	168°	+64°	0 dB	0°	168°	+64°	231°	+21°	4.6dB	363°K	401134 +58 Hz
2029-07-07	Saturday	00:00	184°	+65°	0 dB	0°	184°	+65°	238°	+21°	4.6dB	362°K	401079 +22 Hz
2029-07-07	Saturday	00:30	200°	+64°	0 dB	0°	200°	+64°	245°	+22°	4.6dB	362°K	401024 -15 Hz
2029-07-07	Saturday	01:00	214°	+62°	0 dB	0°	214°	+62°	252°	+22°	4.6dB	361°K	400968 -50 Hz
2029-07-07	Saturday	01:30	226°	+58°	0 dB	0°	226°	+58°	260°	+22°	4.6dB	360°K	400911 -84 Hz
2029-07-07	Saturday	02:00	236°	+54°	0 dB	0°	236°	+54°	267°	+22°	4.6dB	359°K	400854 -116 Hz
2029-07-07	Saturday	02:30	245°	+50°	0 dB	0°	245°	+50°	274°	+22°	4.6dB	359°K	400797 -145 Hz
2029-07-07	Saturday	03:00	252°	+45°	0 dB	0°	252°	+45°	281°	+22°	4.6dB	358°K	400740 -172 Hz
2029-07-07	Saturday	03:30	259°	+41°	0 dB	0°	259°	+41°	289°	+22°	4.5dB	357°K	400682 -194 Hz
2029-07-07	Saturday	04:00	264°	+36°	0 dB	0°	264°	+36°	296°	+22°	4.5dB	356°K	400623 -213 Hz
2029-07-07	Saturday	04:30	270°	+31°	0 dB	0°	270°	+31°	303°	+22°	4.5dB	355°K	400565 -228 Hz
2029-07-07	Saturday	05:00	275°	+25°	0 dB	0°	275°	+25°	310°	+22°	4.5dB	355°K	400505 -239 Hz
2029-07-07	Saturday	05:30	280°	+21°	0 dB	0°	280°	+21°	318°	+22°	4.5dB	354°K	400446 -245 Hz
2029-07-07	Saturday	06:00	285°	+16°	0 dB	0°	285°	+16°	325°	+22°	4.5dB	353°K	400386 -246 Hz
2029-07-07	Saturday	06:30	290°	+11°	0 dB	0°	290°	+11°	332°	+22°	4.5dB	352°K	400326 -243 Hz
2029-07-07	Saturday	07:00	295°	+6°	0 dB	0°	295°	+6°	339°	+22°	4.5dB	352°K	400265 -236 Hz
2029-07-07	Saturday	07:30	300°	+2°	0 dB	0°	300°	+2°	347°	+22°	4.5dB	351°K	400204 -224 Hz
2029-07-07	Saturday	17:00	059°	+2°	0 dB	0°	059°	+2°	124°	+23°	4.5dB	359°K	398976 +294 Hz
2029-07-07	Saturday	17:30	064°	+6°	0 dB	0°	064°	+6°	132°	+23°	4.5dB	360°K	398908 +305 Hz
2029-07-07	Saturday	18:00	069°	+11°	0 dB	0°	069°	+11°	139°	+23°	4.5dB	361°K	398840 +313 Hz
2029-07-07	Saturday	18:30	074°	+16°	0 dB	0°	074°	+16°	146°	+23°	4.5dB	362°K	398771 +316 Hz
2029-07-07	Saturday	19:00	078°	+21°	0 dB	0°	078°	+21°	153°	+23°	4.5dB	362°K	398702 +315 Hz
2029-07-07	Saturday	19:30	083°	+26°	0 dB	0°	083°	+26°	161°	+23°	4.5dB	363°K	398633 +309 Hz
2029-07-07	Saturday	20:00	088°	+31°	0 dB	0°	088°	+31°	168°	+23°	4.5dB	364°K	398563 +299 Hz
2029-07-07	Saturday	20:30	094°	+36°	0 dB	0°	094°	+36°	175°	+23°	4.5dB	365°K	398493 +285 Hz
2029-07-07	Saturday	21:00	099°	+41°	0 dB	0°	099°	+41°	182°	+23°	4.5dB	366°K	398423 +266 Hz
2029-07-07	Saturday	21:30	105°	+46°	0 dB	0°	105°	+46°	190°	+23°	4.5dB	366°K	398352 +244 Hz
2029-07-07	Saturday	22:00	112°	+51°	0 dB	0°	112°	+51°	197°	+23°	4.5dB	367°K	398281 +218 Hz
2029-07-07	Saturday	22:30	121°	+55°	0 dB	0°	121°	+55°	204°	+23°	4.5dB	368°K	398210 +189 Hz
2029-07-07	Saturday	23:00	130°	+59°	0 dB	0°	130°	+59°	211°	+23°	4.6dB	369°K	398139 +158 Hz
2029-07-07	Saturday	23:30	142°	+63°	0 dB	0°	142°	+63°	219°	+23°	4.6dB	370°K	398067 +125 Hz
2029-07-08	Sunday	00:00	157°	+65°	0 dB	0°	157°	+65°	226°	+23°	4.6dB	371°K	397995 +90 Hz
2029-07-08	Sunday	00:30	173°	+67°	0 dB	0°	173°	+67°	233°	+24°	4.6dB	372°K	397922 +54 Hz
2029-07-08	Sunday	01:00	190°	+67°	0 dB	0°	190°	+67°	240°	+24°	4.6dB	373°K	397850 +18 Hz
2029-07-08	Sunday	01:30	206°	+65°	0 dB	0°	206°	+65°	248°	+24°	4.6dB	374°K	397777 -17 Hz
2029-07-08	Sunday	02:00	220°	+62°	0 dB	0°	220°	+62°	255°	+24°	4.6dB	375°K	397704 -52 Hz
2029-07-08	Sunday	02:30	232°	+59°	0 dB	0°	232°	+59°	262°	+24°	4.6dB	376°K	397630 -85 Hz
2029-07-08	Sunday	03:00	241°	+55°	0 dB	0°	241°	+55°	269°	+24°	4.6dB	378°K	397556 -116 Hz
2029-07-08	Sunday	03:30	249°	+50°	0 dB	0°	249°	+50°	277°	+24°	4.6dB	379°K	397482 -144 Hz
2029-07-08	Sunday	04:00	256°	+45°	0 dB	0°	256°	+45°	284°	+24°	4.6dB	380°K	397408 -168 Hz
2029-07-08	Sunday	04:30	262°	+40°	0 dB	0°	262°	+40°	291°	+24°	4.6dB	381°K	397333 -190 Hz
2029-07-08	Sunday	05:00	268°	+35°	0 dB	0°	268°	+35°	298°	+24°	4.6dB	382°K	397259 -207 Hz
2029-07-08	Sunday	05:30	273°	+30°	0 dB	0°	273°	+30°	306°	+24°	4.7dB	383°K	397183 -221 Hz
2029-07-08	Sunday	06:00	278°	+25°	0 dB	0°	278°	+25°	313°	+24°	4.7dB	384°K	397108 -230 Hz
2029-07-08	Sunday	06:30	283°	+20°	0 dB	0°	283°	+20°	320°	+24°	4.7dB	385°K	397032 -234 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-08	Sunday	07:00	288°	+15°	0 dB	0°	288°	+15°	327°	+24°	4.7dB	387°K	396956 -234 Hz
2029-07-08	Sunday	07:30	293°	+11°	0 dB	0°	293°	+11°	334°	+24°	4.7dB	388°K	396880 -230 Hz
2029-07-08	Sunday	08:00	298°	+6°	0 dB	0°	298°	+6°	342°	+24°	4.7dB	389°K	396804 -222 Hz
2029-07-08	Sunday	08:30	303°	+2°	0 dB	0°	303°	+2°	349°	+24°	4.7dB	390°K	396727 -209 Hz
2029-07-08	Sunday	17:30	054°	-0°	0 dB	0°	054°	-0°	119°	+24°	4.8dB	412°K	395308 +286 Hz
2029-07-08	Sunday	18:00	060°	+4°	0 dB	0°	060°	+4°	126°	+24°	4.9dB	414°K	395227 +300 Hz
2029-07-08	Sunday	18:30	064°	+8°	0 dB	0°	064°	+8°	134°	+24°	4.9dB	415°K	395146 +311 Hz
2029-07-08	Sunday	19:00	069°	+13°	0 dB	0°	069°	+13°	141°	+24°	4.9dB	416°K	395064 +317 Hz
2029-07-08	Sunday	19:30	074°	+18°	0 dB	0°	074°	+18°	148°	+24°	4.9dB	418°K	394983 +319 Hz
2029-07-08	Sunday	20:00	079°	+23°	0 dB	0°	079°	+23°	155°	+24°	4.9dB	419°K	394901 +317 Hz
2029-07-08	Sunday	20:30	084°	+28°	0 dB	0°	084°	+28°	163°	+24°	4.9dB	420°K	394819 +310 Hz
2029-07-08	Sunday	21:00	089°	+33°	0 dB	0°	089°	+33°	170°	+24°	4.9dB	421°K	394737 +299 Hz
2029-07-08	Sunday	21:30	094°	+38°	0 dB	0°	094°	+38°	177°	+24°	4.9dB	423°K	394655 +283 Hz
2029-07-08	Sunday	22:00	100°	+43°	0 dB	0°	100°	+43°	184°	+24°	4.9dB	424°K	394573 +264 Hz
2029-07-08	Sunday	22:30	106°	+48°	0 dB	0°	106°	+48°	192°	+24°	4.9dB	425°K	394490 +241 Hz
2029-07-08	Sunday	23:00	113°	+53°	0 dB	0°	113°	+53°	199°	+24°	4.9dB	427°K	394407 +215 Hz
2029-07-08	Sunday	23:30	122°	+57°	0 dB	0°	122°	+57°	206°	+24°	4.9dB	428°K	394324 +185 Hz
2029-07-09	Monday	00:00	132°	+61°	0 dB	0°	132°	+61°	213°	+24°	5.0dB	429°K	394241 +154 Hz
2029-07-09	Monday	00:30	145°	+65°	0 dB	0°	145°	+65°	221°	+24°	5.0dB	431°K	394158 +120 Hz
2029-07-09	Monday	01:00	160°	+67°	0 dB	0°	160°	+67°	228°	+24°	5.0dB	432°K	394075 +85 Hz
2029-07-09	Monday	01:30	177°	+68°	0 dB	0°	177°	+68°	235°	+24°	5.0dB	433°K	393991 +50 Hz
2029-07-09	Monday	02:00	195°	+67°	0 dB	0°	195°	+67°	242°	+24°	5.0dB	435°K	393908 +14 Hz
2029-07-09	Monday	02:30	211°	+65°	0 dB	0°	211°	+65°	249°	+24°	5.0dB	438°K	393824 -21 Hz
2029-07-09	Monday	03:00	224°	+62°	0 dB	0°	224°	+62°	257°	+24°	5.0dB	440°K	393740 -55 Hz
2029-07-09	Monday	03:30	235°	+58°	0 dB	0°	235°	+58°	264°	+24°	5.1dB	443°K	393656 -87 Hz
2029-07-09	Monday	04:00	244°	+54°	0 dB	0°	244°	+54°	271°	+24°	5.1dB	445°K	393571 -117 Hz
2029-07-09	Monday	04:30	252°	+49°	0 dB	0°	252°	+49°	278°	+24°	5.1dB	448°K	393487 -144 Hz
2029-07-09	Monday	05:00	259°	+44°	0 dB	0°	259°	+44°	286°	+24°	5.1dB	450°K	393402 -168 Hz
2029-07-09	Monday	05:30	265°	+39°	0 dB	0°	265°	+39°	293°	+24°	5.1dB	453°K	393318 -189 Hz
2029-07-09	Monday	06:00	270°	+34°	0 dB	0°	270°	+34°	300°	+24°	5.1dB	455°K	393233 -205 Hz
2029-07-09	Monday	06:30	275°	+29°	0 dB	0°	275°	+29°	307°	+24°	5.2dB	458°K	393148 -217 Hz
2029-07-09	Monday	07:00	280°	+24°	0 dB	0°	280°	+24°	315°	+24°	5.2dB	460°K	393063 -226 Hz
2029-07-09	Monday	07:30	285°	+19°	0 dB	0°	285°	+19°	322°	+24°	5.2dB	463°K	392978 -229 Hz
2029-07-09	Monday	08:00	289°	+14°	0 dB	0°	289°	+14°	329°	+24°	5.2dB	465°K	392892 -228 Hz
2029-07-09	Monday	08:30	294°	+10°	0 dB	0°	294°	+10°	336°	+24°	5.2dB	468°K	392807 -223 Hz
2029-07-09	Monday	09:00	299°	+5°	0 dB	0°	299°	+5°	343°	+24°	5.2dB	470°K	392721 -214 Hz
2029-07-09	Monday	09:30	304°	+1°	0 dB	0°	304°	+1°	351°	+24°	5.3dB	473°K	392636 -201 Hz
2029-07-09	Monday	18:30	056°	+1°	0 dB	0°	056°	+1°	121°	+24°	5.4dB	500°K	391078 +292 Hz
2029-07-09	Monday	19:00	061°	+5°	0 dB	0°	061°	+5°	128°	+24°	5.4dB	500°K	390991 +305 Hz
2029-07-09	Monday	19:30	066°	+9°	0 dB	0°	066°	+9°	135°	+24°	5.4dB	500°K	390903 +315 Hz
2029-07-09	Monday	20:00	070°	+14°	0 dB	0°	070°	+14°	143°	+24°	5.4dB	500°K	390816 +320 Hz
2029-07-09	Monday	20:30	075°	+19°	0 dB	0°	075°	+19°	150°	+24°	5.4dB	500°K	390728 +321 Hz
2029-07-09	Monday	21:00	080°	+24°	0 dB	0°	080°	+24°	157°	+24°	5.4dB	500°K	390641 +318 Hz
2029-07-09	Monday	21:30	085°	+29°	0 dB	0°	085°	+29°	164°	+24°	5.4dB	500°K	390553 +310 Hz
2029-07-09	Monday	22:00	090°	+34°	0 dB	0°	090°	+34°	171°	+24°	5.4dB	500°K	390466 +298 Hz
2029-07-09	Monday	22:30	095°	+39°	0 dB	0°	095°	+39°	179°	+24°	5.4dB	500°K	390378 +282 Hz
2029-07-09	Monday	23:00	101°	+44°	0 dB	0°	101°	+44°	186°	+24°	5.4dB	500°K	390291 +262 Hz
2029-07-09	Monday	23:30	108°	+49°	0 dB	0°	108°	+49°	193°	+24°	5.4dB	500°K	390203 +238 Hz
2029-07-10	Tuesday	00:00	115°	+53°	0 dB	0°	115°	+53°	200°	+24°	5.4dB	500°K	390115 +211 Hz
2029-07-10	Tuesday	00:30	124°	+58°	0 dB	0°	124°	+58°	208°	+24°	5.4dB	500°K	390027 +181 Hz
2029-07-10	Tuesday	01:00	135°	+62°	0 dB	0°	135°	+62°	215°	+24°	5.4dB	500°K	389940 +149 Hz
2029-07-10	Tuesday	01:30	148°	+65°	0 dB	0°	148°	+65°	222°	+24°	5.3dB	500°K	389852 +115 Hz
2029-07-10	Tuesday	02:00	164°	+67°	0 dB	0°	164°	+67°	229°	+24°	5.3dB	500°K	389764 +80 Hz
2029-07-10	Tuesday	02:30	181°	+67°	0 dB	0°	181°	+67°	237°	+24°	5.3dB	500°K	389676 +44 Hz
2029-07-10	Tuesday	03:00	198°	+67°	0 dB	0°	198°	+67°	244°	+24°	5.3dB	500°K	389588 +8 Hz
2029-07-10	Tuesday	03:30	213°	+64°	0 dB	0°	213°	+64°	251°	+24°	5.3dB	500°K	389501 -27 Hz
2029-07-10	Tuesday	04:00	226°	+61°	0 dB	0°	226°	+61°	258°	+24°	5.3dB	498°K	389413 -61 Hz
2029-07-10	Tuesday	04:30	237°	+57°	0 dB	0°	237°	+57°	265°	+24°	5.3dB	495°K	389325 -93 Hz
2029-07-10	Tuesday	05:00	245°	+53°	0 dB	0°	245°	+53°	273°	+24°	5.2dB	491°K	389237 -123 Hz
2029-07-10	Tuesday	05:30	253°	+48°	0 dB	0°	253°	+48°	280°	+24°	5.2dB	488°K	389149 -149 Hz
2029-07-10	Tuesday	06:00	259°	+43°	0 dB	0°	259°	+43°	287°	+24°	5.2dB	484°K	389061 -173 Hz
2029-07-10	Tuesday	06:30	265°	+38°	0 dB	0°	265°	+38°	294°	+24°	5.2dB	481°K	388973 -193 Hz
2029-07-10	Tuesday	07:00	270°	+33°	0 dB	0°	270°	+33°	302°	+24°	5.1dB	478°K	388885 -209 Hz
2029-07-10	Tuesday	07:30	275°	+28°	0 dB	0°	275°	+28°	309°	+24°	5.1dB	474°K	388797 -220 Hz
2029-07-10	Tuesday	08:00	280°	+23°	0 dB	0°	280°	+23°	316°	+24°	5.1dB	471°K	388710 -228 Hz
2029-07-10	Tuesday	08:30	285°	+18°	0 dB	0°	285°	+18°	323°	+24°	5.0dB	468°K	388622 -231 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-10	Tuesday	09:00	290°	+13°	0 dB	0°	290°	+13°	331°	+24°	5.0dB	464°K	388534	-229 Hz
2029-07-10	Tuesday	09:30	295°	+8°	0 dB	0°	295°	+8°	338°	+24°	5.0dB	461°K	388446	-223 Hz
2029-07-10	Tuesday	10:00	300°	+4°	0 dB	0°	300°	+4°	345°	+24°	4.9dB	457°K	388358	-213 Hz
2029-07-10	Tuesday	10:30	305°	-0°	0 dB	0°	305°	-0°	352°	+23°	4.9dB	454°K	388270	-199 Hz
2029-07-10	Tuesday	19:30	058°	+0°	0 dB	0°	058°	+0°	122°	+23°	4.4dB	403°K	386697	+296 Hz
2029-07-10	Tuesday	20:00	063°	+5°	0 dB	0°	063°	+5°	130°	+23°	4.4dB	401°K	386610	+308 Hz
2029-07-10	Tuesday	20:30	068°	+9°	0 dB	0°	068°	+9°	137°	+23°	4.3dB	400°K	386523	+317 Hz
2029-07-10	Tuesday	21:00	072°	+14°	0 dB	0°	072°	+14°	144°	+23°	4.3dB	398°K	386436	+322 Hz
2029-07-10	Tuesday	21:30	077°	+19°	0 dB	0°	077°	+19°	151°	+23°	4.3dB	396°K	386350	+322 Hz
2029-07-10	Tuesday	22:00	082°	+24°	0 dB	0°	082°	+24°	158°	+23°	4.3dB	394°K	386263	+318 Hz
2029-07-10	Tuesday	22:30	087°	+29°	0 dB	0°	087°	+29°	166°	+23°	4.3dB	393°K	386177	+309 Hz
2029-07-10	Tuesday	23:00	093°	+34°	0 dB	0°	093°	+34°	173°	+23°	4.2dB	391°K	386090	+297 Hz
2029-07-10	Tuesday	23:30	098°	+39°	0 dB	0°	098°	+39°	180°	+22°	4.2dB	389°K	386004	+279 Hz
2029-07-11	wednesday00:00	104°	+44°	0 dB	0°	104°	+44°	187°	+22°	4.2dB	388°K	385918	+258 Hz	
2029-07-11	wednesday00:30	111°	+48°	0 dB	0°	111°	+48°	195°	+22°	4.2dB	386°K	385831	+234 Hz	
2029-07-11	wednesday01:00	119°	+53°	0 dB	0°	119°	+53°	202°	+22°	4.2dB	384°K	385745	+206 Hz	
2029-07-11	wednesday01:30	128°	+57°	0 dB	0°	128°	+57°	209°	+22°	4.1dB	SUN!	385659	+175 Hz	
2029-07-11	wednesday02:00	140°	+61°	0 dB	0°	140°	+61°	216°	+22°	4.1dB	SUN!	385574	+142 Hz	
2029-07-11	wednesday02:30	153°	+64°	0 dB	0°	153°	+64°	224°	+22°	4.1dB	SUN!	385488	+107 Hz	
2029-07-11	wednesday03:00	168°	+65°	0 dB	0°	168°	+65°	231°	+22°	4.1dB	SUN!	385402	+71 Hz	
2029-07-11	wednesday03:30	184°	+65°	0 dB	0°	184°	+65°	238°	+22°	4.1dB	SUN!	385317	+35 Hz	
2029-07-11	wednesday04:00	200°	+64°	0 dB	0°	200°	+64°	245°	+22°	4.0dB	SUN!	385231	-2 Hz	
2029-07-11	wednesday04:30	214°	+62°	0 dB	0°	214°	+62°	252°	+22°	4.0dB	SUN!	385146	-37 Hz	
2029-07-11	wednesday05:00	226°	+59°	0 dB	0°	226°	+59°	260°	+22°	4.0dB	SUN!	385060	-71 Hz	
2029-07-11	wednesday05:30	236°	+55°	0 dB	0°	236°	+55°	267°	+22°	4.0dB	SUN!	384975	-103 Hz	
2029-07-11	wednesday06:00	245°	+50°	0 dB	0°	245°	+50°	274°	+22°	3.9dB	SUN!	384890	-133 Hz	
2029-07-11	wednesday06:30	252°	+45°	0 dB	0°	252°	+45°	281°	+22°	3.9dB	SUN!	384805	-160 Hz	
2029-07-11	wednesday07:00	258°	+40°	0 dB	0°	258°	+40°	289°	+22°	3.9dB	SUN!	384721	-183 Hz	
2029-07-11	wednesday07:30	264°	+35°	0 dB	0°	264°	+35°	296°	+22°	3.9dB	SUN!	384636	-203 Hz	
2029-07-11	wednesday08:00	270°	+30°	0 dB	0°	270°	+30°	303°	+22°	3.8dB	SUN!	384551	-218 Hz	
2029-07-11	wednesday08:30	275°	+25°	0 dB	0°	275°	+25°	310°	+22°	3.8dB	SUN!	384467	-229 Hz	
2029-07-11	wednesday09:00	280°	+20°	0 dB	0°	280°	+20°	318°	+21°	3.8dB	SUN!	384383	-236 Hz	
2029-07-11	wednesday09:30	284°	+15°	0 dB	0°	284°	+15°	325°	+21°	3.7dB	SUN!	384299	-238 Hz	
2029-07-11	wednesday10:00	289°	+10°	0 dB	0°	289°	+10°	332°	+21°	3.7dB	SUN!	384215	-236 Hz	
2029-07-11	wednesday10:30	294°	+6°	0 dB	0°	294°	+6°	339°	+21°	3.7dB	SUN!	384131	-229 Hz	
2029-07-11	wednesday11:00	299°	+1°	0 dB	0°	299°	+1°	346°	+21°	3.6dB	SUN!	384047	-218 Hz	
2029-07-11	wednesday21:00	066°	+4°	0 dB	0°	066°	+4°	131°	+20°	3.0dB	SUN!	382404	+311 Hz	
2029-07-11	wednesday21:30	071°	+8°	0 dB	0°	071°	+8°	138°	+20°	2.9dB	SUN!	382323	+319 Hz	
2029-07-11	wednesday22:00	076°	+13°	0 dB	0°	076°	+13°	146°	+20°	2.9dB	SUN!	382243	+323 Hz	
2029-07-11	wednesday22:30	081°	+18°	0 dB	0°	081°	+18°	153°	+20°	2.8dB	SUN!	382163	+322 Hz	
2029-07-11	wednesday23:00	086°	+23°	0 dB	0°	086°	+23°	160°	+20°	2.8dB	SUN!	382083	+317 Hz	
2029-07-11	wednesday23:30	091°	+28°	0 dB	0°	091°	+28°	167°	+20°	2.7dB	SUN!	382003	+307 Hz	
2029-07-12	Thursday 00:00	096°	+33°	0 dB	0°	096°	+33°	174°	+20°	2.7dB	SUN!	381924	+293 Hz	
2029-07-12	Thursday 00:30	102°	+38°	0 dB	0°	102°	+38°	182°	+19°	2.7dB	SUN!	381844	+275 Hz	
2029-07-12	Thursday 01:00	109°	+42°	0 dB	0°	109°	+42°	189°	+19°	2.6dB	SUN!	381765	+253 Hz	
2029-07-12	Thursday 01:30	116°	+47°	0 dB	0°	116°	+47°	196°	+19°	2.6dB	SUN!	381686	+227 Hz	
2029-07-12	Thursday 02:00	124°	+51°	0 dB	0°	124°	+51°	203°	+19°	2.5dB	SUN!	381608	+197 Hz	
2029-07-12	Thursday 02:30	134°	+55°	0 dB	0°	134°	+55°	211°	+19°	2.5dB	SUN!	381529	+165 Hz	
2029-07-12	Thursday 03:00	145°	+59°	0 dB	0°	145°	+59°	218°	+19°	2.4dB	SUN!	381451	+131 Hz	
2029-07-12	Thursday 03:30	158°	+61°	0 dB	0°	158°	+61°	225°	+19°	2.4dB	SUN!	381372	+95 Hz	
2029-07-12	Thursday 04:00	172°	+62°	0 dB	0°	172°	+62°	232°	+19°	2.4dB	SUN!	381294	+58 Hz	
2029-07-12	Thursday 04:30	187°	+62°	0 dB	0°	187°	+62°	240°	+19°	2.3dB	SUN!	381217	+21 Hz	
2029-07-12	Thursday 05:00	202°	+61°	0 dB	0°	202°	+61°	247°	+19°	2.3dB	SUN!	381139	-16 Hz	
2029-07-12	Thursday 05:30	214°	+58°	0 dB	0°	214°	+58°	254°	+19°	2.2dB	SUN!	381062	-52 Hz	
2029-07-12	Thursday 06:00	226°	+55°	0 dB	0°	226°	+55°	261°	+19°	2.2dB	SUN!	380985	-87 Hz	
2029-07-12	Thursday 06:30	235°	+51°	0 dB	0°	235°	+51°	269°	+19°	2.1dB	SUN!	380908	-119 Hz	
2029-07-12	Thursday 07:00	243°	+47°	0 dB	0°	243°	+47°	276°	+19°	2.1dB	SUN!	380831	-149 Hz	
2029-07-12	Thursday 07:30	250°	+42°	0 dB	0°	250°	+42°	283°	+18°	2.0dB	226°K	380754	-175 Hz	
2029-07-12	Thursday 08:00	257°	+37°	0 dB	0°	257°	+37°	290°	+18°	2.0dB	225°K	380678	-198 Hz	
2029-07-12	Thursday 08:30	262°	+32°	0 dB	0°	262°	+32°	297°	+18°	2.0dB	224°K	380602	-217 Hz	
2029-07-12	Thursday 09:00	268°	+27°	0 dB	0°	268°	+27°	305°	+18°	2.0dB	223°K	380526	-232 Hz	
2029-07-12	Thursday 09:30	273°	+22°	0 dB	0°	273°	+22°	312°	+18°	1.9dB	222°K	380450	-242 Hz	
2029-07-12	Thursday 10:00	278°	+17°	0 dB	0°	278°	+17°	319°	+18°	1.9dB	221°K	380375	-248 Hz	
2029-07-12	Thursday 10:30	283°	+12°	0 dB	0°	283°	+12°	326°	+18°	1.9dB	220°K	380300	-249 Hz	
2029-07-12	Thursday 11:00	288°	+7°	0 dB	0°	288°	+7°	334°	+18°	1.9dB	219°K	380225	-246 Hz	
2029-07-12	Thursday 11:30	293°	+2°	0 dB	0°	293°	+2°	341°	+18°	1.9dB	218°K	380150	-238 Hz	

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-12	Thursday	22:00	070°	+2°	0 dB	0°	070°	+2°	133°	+16°	1.5dB	197°K	378632	+313 Hz
2029-07-12	Thursday	22:30	075°	+6°	0 dB	0°	075°	+6°	140°	+16°	1.4dB	196°K	378562	+320 Hz
2029-07-12	Thursday	23:00	080°	+11°	0 dB	0°	080°	+11°	147°	+16°	1.4dB	195°K	378493	+323 Hz
2029-07-12	Thursday	23:30	085°	+16°	0 dB	0°	085°	+16°	155°	+16°	1.4dB	194°K	378424	+321 Hz
2029-07-13	Friday	00:00	090°	+21°	0 dB	0°	090°	+21°	162°	+16°	1.4dB	193°K	378355	+314 Hz
2029-07-13	Friday	00:30	096°	+26°	0 dB	0°	096°	+26°	169°	+16°	1.4dB	193°K	378286	+303 Hz
2029-07-13	Friday	01:00	101°	+31°	0 dB	0°	101°	+31°	176°	+15°	1.4dB	192°K	378218	+287 Hz
2029-07-13	Friday	01:30	108°	+36°	0 dB	0°	108°	+36°	184°	+15°	1.3dB	191°K	378150	+268 Hz
2029-07-13	Friday	02:00	114°	+41°	0 dB	0°	114°	+41°	191°	+15°	1.3dB	190°K	378082	+244 Hz
2029-07-13	Friday	02:30	122°	+45°	0 dB	0°	122°	+45°	198°	+15°	1.3dB	189°K	378015	+216 Hz
2029-07-13	Friday	03:00	130°	+49°	0 dB	0°	130°	+49°	205°	+15°	1.3dB	188°K	377947	+185 Hz
2029-07-13	Friday	03:30	140°	+53°	0 dB	0°	140°	+53°	213°	+15°	1.3dB	187°K	377880	+152 Hz
2029-07-13	Friday	04:00	151°	+55°	0 dB	0°	151°	+55°	220°	+15°	1.2dB	186°K	377813	+116 Hz
2029-07-13	Friday	04:30	164°	+57°	0 dB	0°	164°	+57°	227°	+15°	1.2dB	185°K	377747	+79 Hz
2029-07-13	Friday	05:00	177°	+58°	0 dB	0°	177°	+58°	234°	+15°	1.2dB	184°K	377680	+41 Hz
2029-07-13	Friday	05:30	190°	+58°	0 dB	0°	190°	+58°	242°	+15°	1.2dB	183°K	377614	+3 Hz
2029-07-13	Friday	06:00	203°	+56°	0 dB	0°	203°	+56°	249°	+14°	1.1dB	182°K	377549	-35 Hz
2029-07-13	Friday	06:30	214°	+53°	0 dB	0°	214°	+53°	256°	+14°	1.1dB	181°K	377483	-71 Hz
2029-07-13	Friday	07:00	225°	+50°	0 dB	0°	225°	+50°	263°	+14°	1.1dB	180°K	377418	-106 Hz
2029-07-13	Friday	07:30	233°	+46°	0 dB	0°	233°	+46°	271°	+14°	1.1dB	179°K	377353	-139 Hz
2029-07-13	Friday	08:00	241°	+42°	0 dB	0°	241°	+42°	278°	+14°	1.1dB	178°K	377288	-168 Hz
2029-07-13	Friday	08:30	248°	+37°	0 dB	0°	248°	+37°	285°	+14°	1.0dB	177°K	377224	-194 Hz
2029-07-13	Friday	09:00	255°	+32°	0 dB	0°	255°	+32°	292°	+14°	1.0dB	176°K	377159	-217 Hz
2029-07-13	Friday	09:30	260°	+27°	0 dB	0°	260°	+27°	300°	+14°	1.0dB	175°K	377095	-235 Hz
2029-07-13	Friday	10:00	266°	+22°	0 dB	0°	266°	+22°	307°	+14°	1.0dB	174°K	377032	-249 Hz
2029-07-13	Friday	10:30	271°	+17°	0 dB	0°	271°	+17°	314°	+14°	1.0dB	174°K	376968	-258 Hz
2029-07-13	Friday	11:00	276°	+12°	0 dB	0°	276°	+12°	321°	+13°	1.0dB	174°K	376905	-263 Hz
2029-07-13	Friday	11:30	281°	+7°	0 dB	0°	281°	+7°	329°	+13°	1.0dB	174°K	376842	-262 Hz
2029-07-13	Friday	12:00	286°	+2°	0 dB	0°	286°	+2°	336°	+13°	1.0dB	175°K	376780	-258 Hz
2029-07-13	Friday	23:00	075°	-0°	0 dB	0°	075°	-0°	135°	+11°	1.1dB	182°K	375473	+313 Hz
2029-07-13	Friday	23:30	080°	+4°	0 dB	0°	080°	+4°	142°	+11°	1.0dB	182°K	375417	+319 Hz
2029-07-14	Saturday	00:00	085°	+9°	0 dB	0°	085°	+9°	150°	+11°	1.0dB	182°K	375361	+320 Hz
2029-07-14	Saturday	00:30	090°	+14°	0 dB	0°	090°	+14°	157°	+11°	1.0dB	182°K	375305	+317 Hz
2029-07-14	Saturday	01:00	096°	+19°	0 dB	0°	096°	+19°	164°	+11°	1.1dB	183°K	375250	+308 Hz
2029-07-14	Saturday	01:30	101°	+24°	0 dB	0°	101°	+24°	171°	+10°	1.1dB	183°K	375195	+296 Hz
2029-07-14	Saturday	02:00	107°	+29°	0 dB	0°	107°	+29°	179°	+10°	1.1dB	183°K	375140	+278 Hz
2029-07-14	Saturday	02:30	114°	+34°	0 dB	0°	114°	+34°	186°	+10°	1.1dB	183°K	375086	+257 Hz
2029-07-14	Saturday	03:00	121°	+38°	0 dB	0°	121°	+38°	193°	+10°	1.0dB	183°K	375032	+231 Hz
2029-07-14	Saturday	03:30	129°	+42°	0 dB	0°	129°	+42°	200°	+10°	1.0dB	183°K	374978	+202 Hz
2029-07-14	Saturday	04:00	137°	+46°	0 dB	0°	137°	+46°	208°	+10°	1.0dB	183°K	374924	+169 Hz
2029-07-14	Saturday	04:30	147°	+49°	0 dB	0°	147°	+49°	215°	+10°	1.1dB	184°K	374871	+134 Hz
2029-07-14	Saturday	05:00	158°	+51°	0 dB	0°	158°	+51°	222°	+10°	1.1dB	184°K	374818	+98 Hz
2029-07-14	Saturday	05:30	169°	+52°	0 dB	0°	169°	+52°	229°	+10°	1.1dB	184°K	374765	+59 Hz
2029-07-14	Saturday	06:00	181°	+53°	0 dB	0°	181°	+53°	237°	+9°	1.1dB	184°K	374712	+20 Hz
2029-07-14	Saturday	06:30	193°	+52°	0 dB	0°	193°	+52°	244°	+9°	1.0dB	184°K	374660	-18 Hz
2029-07-14	Saturday	07:00	204°	+50°	0 dB	0°	204°	+50°	251°	+9°	1.0dB	184°K	374608	-56 Hz
2029-07-14	Saturday	07:30	214°	+48°	0 dB	0°	214°	+48°	258°	+9°	1.1dB	185°K	374557	-93 Hz
2029-07-14	Saturday	08:00	224°	+44°	0 dB	0°	224°	+44°	266°	+9°	1.1dB	185°K	374505	-128 Hz
2029-07-14	Saturday	08:30	232°	+40°	0 dB	0°	232°	+40°	273°	+9°	1.1dB	185°K	374454	-160 Hz
2029-07-14	Saturday	09:00	239°	+36°	0 dB	0°	239°	+36°	280°	+9°	1.1dB	185°K	374404	-189 Hz
2029-07-14	Saturday	09:30	246°	+32°	0 dB	0°	246°	+32°	287°	+9°	1.1dB	185°K	374353	-214 Hz
2029-07-14	Saturday	10:00	252°	+27°	0 dB	0°	252°	+27°	295°	+9°	1.1dB	185°K	374303	-236 Hz
2029-07-14	Saturday	10:30	258°	+22°	0 dB	0°	258°	+22°	302°	+8°	1.0dB	185°K	374253	-253 Hz
2029-07-14	Saturday	11:00	264°	+17°	0 dB	0°	264°	+17°	309°	+8°	1.1dB	186°K	374203	-265 Hz
2029-07-14	Saturday	11:30	269°	+12°	0 dB	0°	269°	+12°	316°	+8°	1.1dB	186°K	374154	-273 Hz
2029-07-14	Saturday	12:00	274°	+7°	0 dB	0°	274°	+7°	324°	+8°	1.1dB	186°K	374105	-276 Hz
2029-07-14	Saturday	12:30	279°	+1°	0 dB	0°	279°	+1°	331°	+8°	1.1dB	186°K	374056	-274 Hz
2029-07-15	Sunday	00:30	086°	+2°	0 dB	0°	086°	+2°	145°	+5°	1.1dB	193°K	372973	+315 Hz
2029-07-15	Sunday	01:00	091°	+7°	0 dB	0°	091°	+7°	152°	+5°	1.1dB	193°K	372931	+315 Hz
2029-07-15	Sunday	01:30	096°	+12°	0 dB	0°	096°	+12°	159°	+5°	1.1dB	194°K	372890	+309 Hz
2029-07-15	Sunday	02:00	102°	+17°	0 dB	0°	102°	+17°	167°	+5°	1.1dB	194°K	372849	+299 Hz
2029-07-15	Sunday	02:30	108°	+22°	0 dB	0°	108°	+22°	174°	+5°	1.1dB	194°K	372808	+284 Hz
2029-07-15	Sunday	03:00	114°	+26°	0 dB	0°	114°	+26°	181°	+5°	1.2dB	195°K	372767	+265 Hz
2029-07-15	Sunday	03:30	120°	+31°	0 dB	0°	120°	+31°	188°	+4°	1.2dB	195°K	372727	+242 Hz
2029-07-15	Sunday	04:00	128°	+35°	0 dB	0°	128°	+35°	196°	+4°	1.1dB	195°K	372687	+214 Hz
2029-07-15	Sunday	04:30	135°	+38°	0 dB	0°	135°	+38°	203°	+4°	1.2dB	196°K	372648	+184 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-15	Sunday	05:00	144°	+42°	0 dB	0°	144°	+42°	210°	+4°	1.2dB	196°K	372609 +150 Hz
2029-07-15	Sunday	05:30	153°	+44°	0 dB	0°	153°	+44°	218°	+4°	1.2dB	196°K	372570 +114 Hz
2029-07-15	Sunday	06:00	163°	+46°	0 dB	0°	163°	+46°	225°	+4°	1.2dB	197°K	372531 +76 Hz
2029-07-15	Sunday	06:30	174°	+47°	0 dB	0°	174°	+47°	232°	+4°	1.2dB	197°K	372492 +37 Hz
2029-07-15	Sunday	07:00	185°	+47°	0 dB	0°	185°	+47°	239°	+4°	1.2dB	197°K	372454 -2 Hz
2029-07-15	Sunday	07:30	195°	+46°	0 dB	0°	195°	+46°	247°	+4°	1.2dB	197°K	372416 -41 Hz
2029-07-15	Sunday	08:00	205°	+44°	0 dB	0°	205°	+44°	254°	+3°	1.2dB	198°K	372379 -79 Hz
2029-07-15	Sunday	08:30	215°	+41°	0 dB	0°	215°	+41°	261°	+3°	1.2dB	198°K	372341 -115 Hz
2029-07-15	Sunday	09:00	223°	+38°	0 dB	0°	223°	+38°	268°	+3°	1.2dB	198°K	372304 -149 Hz
2029-07-15	Sunday	09:30	231°	+34°	0 dB	0°	231°	+34°	276°	+3°	1.2dB	199°K	372268 -181 Hz
2029-07-15	Sunday	10:00	238°	+30°	0 dB	0°	238°	+30°	283°	+3°	1.2dB	199°K	372231 -208 Hz
2029-07-15	Sunday	10:30	244°	+25°	0 dB	0°	244°	+25°	290°	+3°	1.2dB	199°K	372195 -232 Hz
2029-07-15	Sunday	11:00	250°	+21°	0 dB	0°	250°	+21°	297°	+3°	1.2dB	200°K	372159 -252 Hz
2029-07-15	Sunday	11:30	256°	+16°	0 dB	0°	256°	+16°	305°	+3°	1.2dB	200°K	372123 -268 Hz
2029-07-15	Sunday	12:00	261°	+11°	0 dB	0°	261°	+11°	312°	+2°	1.2dB	200°K	372088 -278 Hz
2029-07-15	Sunday	12:30	267°	+6°	0 dB	0°	267°	+6°	319°	+2°	1.2dB	201°K	372053 -284 Hz
2029-07-15	Sunday	13:00	272°	+0°	0 dB	0°	272°	+0°	326°	+2°	1.2dB	201°K	372018 -285 Hz
2029-07-16	Monday	01:30	092°	-0°	0 dB	0°	092°	-0°	148°	-1°	1.3dB	209°K	371237 +308 Hz
2029-07-16	Monday	02:00	097°	+4°	0 dB	0°	097°	+4°	155°	-1°	1.3dB	209°K	371209 +306 Hz
2029-07-16	Monday	02:30	102°	+9°	0 dB	0°	102°	+9°	162°	-1°	1.3dB	209°K	371182 +298 Hz
2029-07-16	Monday	03:00	108°	+14°	0 dB	0°	108°	+14°	169°	-1°	1.3dB	210°K	371154 +287 Hz
2029-07-16	Monday	03:30	114°	+19°	0 dB	0°	114°	+19°	177°	-1°	1.3dB	210°K	371128 +270 Hz
2029-07-16	Monday	04:00	120°	+23°	0 dB	0°	120°	+23°	184°	-1°	1.3dB	210°K	371101 +249 Hz
2029-07-16	Monday	04:30	127°	+27°	0 dB	0°	127°	+27°	191°	-2°	1.3dB	211°K	371074 +224 Hz
2029-07-16	Monday	05:00	134°	+31°	0 dB	0°	134°	+31°	198°	-2°	1.3dB	211°K	371048 +195 Hz
2029-07-16	Monday	05:30	142°	+34°	0 dB	0°	142°	+34°	206°	-2°	1.3dB	211°K	371022 +164 Hz
2029-07-16	Monday	06:00	150°	+37°	0 dB	0°	150°	+37°	213°	-2°	1.3dB	211°K	370997 +129 Hz
2029-07-16	Monday	06:30	159°	+39°	0 dB	0°	159°	+39°	220°	-2°	1.3dB	212°K	370971 +92 Hz
2029-07-16	Monday	07:00	169°	+40°	0 dB	0°	169°	+40°	227°	-2°	1.3dB	212°K	370946 +54 Hz
2029-07-16	Monday	07:30	178°	+41°	0 dB	0°	178°	+41°	235°	-2°	1.3dB	212°K	370922 +15 Hz
2029-07-16	Monday	08:00	188°	+40°	0 dB	0°	188°	+40°	242°	-2°	1.4dB	213°K	370897 -24 Hz
2029-07-16	Monday	08:30	197°	+39°	0 dB	0°	197°	+39°	249°	-3°	1.4dB	215°K	370873 -63 Hz
2029-07-16	Monday	09:00	206°	+37°	0 dB	0°	206°	+37°	256°	-3°	1.4dB	216°K	370849 -100 Hz
2029-07-16	Monday	09:30	215°	+35°	0 dB	0°	215°	+35°	264°	-3°	1.4dB	218°K	370825 -135 Hz
2029-07-16	Monday	10:00	222°	+31°	0 dB	0°	222°	+31°	271°	-3°	1.5dB	220°K	370801 -168 Hz
2029-07-16	Monday	10:30	230°	+27°	0 dB	0°	230°	+27°	278°	-3°	1.5dB	221°K	370778 -198 Hz
2029-07-16	Monday	11:00	236°	+23°	0 dB	0°	236°	+23°	285°	-3°	1.5dB	223°K	370755 -224 Hz
2029-07-16	Monday	11:30	242°	+19°	0 dB	0°	242°	+19°	293°	-3°	1.5dB	225°K	370732 -246 Hz
2029-07-16	Monday	12:00	248°	+14°	0 dB	0°	248°	+14°	300°	-3°	1.6dB	227°K	370710 -264 Hz
2029-07-16	Monday	12:30	254°	+9°	0 dB	0°	254°	+9°	307°	-3°	1.6dB	228°K	370688 -278 Hz
2029-07-16	Monday	13:00	259°	+4°	0 dB	0°	259°	+4°	314°	-4°	1.6dB	230°K	370666 -286 Hz
2029-07-17	Tuesday	03:00	103°	+2°	0 dB	0°	103°	+2°	157°	-7°	2.3dB	280°K	370152 +294 Hz
2029-07-17	Tuesday	03:30	108°	+7°	0 dB	0°	108°	+7°	165°	-7°	2.3dB	282°K	370137 +285 Hz
2029-07-17	Tuesday	04:00	114°	+11°	0 dB	0°	114°	+11°	172°	-7°	2.3dB	284°K	370123 +271 Hz
2029-07-17	Tuesday	04:30	120°	+16°	0 dB	0°	120°	+16°	179°	-7°	2.4dB	286°K	370108 +253 Hz
2029-07-17	Tuesday	05:00	126°	+20°	0 dB	0°	126°	+20°	186°	-7°	2.4dB	288°K	370094 +231 Hz
2029-07-17	Tuesday	05:30	133°	+23°	0 dB	0°	133°	+23°	194°	-8°	2.4dB	289°K	370080 +205 Hz
2029-07-17	Tuesday	06:00	140°	+27°	0 dB	0°	140°	+27°	201°	-8°	2.4dB	291°K	370067 +176 Hz
2029-07-17	Tuesday	06:30	147°	+30°	0 dB	0°	147°	+30°	208°	-8°	2.4dB	293°K	370054 +143 Hz
2029-07-17	Tuesday	07:00	155°	+32°	0 dB	0°	155°	+32°	215°	-8°	2.5dB	295°K	370040 +108 Hz
2029-07-17	Tuesday	07:30	164°	+34°	0 dB	0°	164°	+34°	223°	-8°	2.5dB	297°K	370028 +71 Hz
2029-07-17	Tuesday	08:00	173°	+35°	0 dB	0°	173°	+35°	230°	-8°	2.5dB	299°K	370015 +33 Hz
2029-07-17	Tuesday	08:30	181°	+35°	0 dB	0°	181°	+35°	237°	-8°	2.5dB	301°K	370003 -5 Hz
2029-07-17	Tuesday	09:00	190°	+34°	0 dB	0°	190°	+34°	244°	-8°	2.6dB	303°K	369991 -43 Hz
2029-07-17	Tuesday	09:30	199°	+33°	0 dB	0°	199°	+33°	252°	-8°	2.6dB	305°K	369979 -81 Hz
2029-07-17	Tuesday	10:00	207°	+31°	0 dB	0°	207°	+31°	259°	-9°	2.6dB	307°K	369967 -117 Hz
2029-07-17	Tuesday	10:30	214°	+28°	0 dB	0°	214°	+28°	266°	-9°	2.6dB	309°K	369956 -151 Hz
2029-07-17	Tuesday	11:00	222°	+25°	0 dB	0°	222°	+25°	273°	-9°	2.6dB	310°K	369944 -182 Hz
2029-07-17	Tuesday	11:30	228°	+21°	0 dB	0°	228°	+21°	281°	-9°	2.7dB	312°K	369933 -210 Hz
2029-07-17	Tuesday	12:00	235°	+17°	0 dB	0°	235°	+17°	288°	-9°	2.7dB	313°K	369923 -235 Hz
2029-07-17	Tuesday	12:30	241°	+13°	0 dB	0°	241°	+13°	295°	-9°	2.7dB	313°K	369912 -255 Hz
2029-07-17	Tuesday	13:00	246°	+8°	0 dB	0°	246°	+8°	302°	-9°	2.7dB	313°K	369902 -271 Hz
2029-07-17	Tuesday	13:30	252°	+3°	0 dB	0°	252°	+3°	310°	-9°	2.7dB	313°K	369892 -283 Hz
2029-07-18	wednesday	04:30	114°	+4°	0 dB	0°	114°	+4°	167°	-13°	2.6dB	310°K	369699 +269 Hz
2029-07-18	wednesday	05:00	119°	+8°	0 dB	0°	119°	+8°	174°	-13°	2.6dB	310°K	369696 +255 Hz
2029-07-18	wednesday	05:30	125°	+12°	0 dB	0°	125°	+12°	181°	-13°	2.6dB	310°K	369693 +236 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-18	wednesday06:00	131°	+16°	0 dB	0°	131°	+16°	189°	-13°	2.6dB	309°K	369691	+213 Hz
2029-07-18	wednesday06:30	138°	+20°	0 dB	0°	138°	+20°	196°	-13°	2.6dB	309°K	369688	+187 Hz
2029-07-18	wednesday07:00	145°	+23°	0 dB	0°	145°	+23°	203°	-13°	2.6dB	309°K	369686	+157 Hz
2029-07-18	wednesday07:30	152°	+25°	0 dB	0°	152°	+25°	210°	-13°	2.6dB	308°K	369685	+124 Hz
2029-07-18	wednesday08:00	159°	+27°	0 dB	0°	159°	+27°	217°	-13°	2.6dB	308°K	369683	+90 Hz
2029-07-18	wednesday08:30	167°	+29°	0 dB	0°	167°	+29°	225°	-13°	2.6dB	308°K	369682	+53 Hz
2029-07-18	wednesday09:00	175°	+29°	0 dB	0°	175°	+29°	232°	-14°	2.6dB	307°K	369681	+16 Hz
2029-07-18	wednesday09:30	184°	+29°	0 dB	0°	184°	+29°	239°	-14°	2.6dB	307°K	369680	-21 Hz
2029-07-18	wednesday10:00	192°	+28°	0 dB	0°	192°	+28°	246°	-14°	2.6dB	307°K	369679	-59 Hz
2029-07-18	wednesday10:30	199°	+27°	0 dB	0°	199°	+27°	254°	-14°	2.6dB	306°K	369679	-95 Hz
2029-07-18	wednesday11:00	207°	+25°	0 dB	0°	207°	+25°	261°	-14°	2.6dB	306°K	369678	-129 Hz
2029-07-18	wednesday11:30	214°	+22°	0 dB	0°	214°	+22°	268°	-14°	2.6dB	306°K	369679	-162 Hz
2029-07-18	wednesday12:00	221°	+19°	0 dB	0°	221°	+19°	275°	-14°	2.6dB	305°K	369679	-191 Hz
2029-07-18	wednesday12:30	227°	+15°	0 dB	0°	227°	+15°	283°	-14°	2.6dB	305°K	369679	-218 Hz
2029-07-18	wednesday13:00	233°	+12°	0 dB	0°	233°	+12°	290°	-14°	2.6dB	305°K	369680	-240 Hz
2029-07-18	wednesday13:30	239°	+7°	0 dB	0°	239°	+7°	297°	-15°	2.6dB	304°K	369681	-259 Hz
2029-07-18	wednesday14:00	244°	+3°	0 dB	0°	244°	+3°	304°	-15°	2.6dB	304°K	369682	-273 Hz
2029-07-19	Thursday 05:30	118°	+1°	0 dB	0°	118°	+1°	168°	-18°	2.9dB	332°K	369828	+254 Hz
2029-07-19	Thursday 06:00	124°	+5°	0 dB	0°	124°	+5°	176°	-18°	2.9dB	334°K	369836	+239 Hz
2029-07-19	Thursday 06:30	129°	+9°	0 dB	0°	129°	+9°	183°	-18°	2.9dB	335°K	369845	+220 Hz
2029-07-19	Thursday 07:00	135°	+13°	0 dB	0°	135°	+13°	190°	-18°	2.9dB	336°K	369854	+197 Hz
2029-07-19	Thursday 07:30	141°	+16°	0 dB	0°	141°	+16°	197°	-18°	3.0dB	338°K	369863	+170 Hz
2029-07-19	Thursday 08:00	148°	+19°	0 dB	0°	148°	+19°	205°	-18°	3.0dB	339°K	369872	+141 Hz
2029-07-19	Thursday 08:30	155°	+21°	0 dB	0°	155°	+21°	212°	-18°	3.0dB	340°K	369881	+109 Hz
2029-07-19	Thursday 09:00	162°	+23°	0 dB	0°	162°	+23°	219°	-18°	3.0dB	342°K	369891	+75 Hz
2029-07-19	Thursday 09:30	170°	+24°	0 dB	0°	170°	+24°	226°	-18°	3.0dB	343°K	369901	+39 Hz
2029-07-19	Thursday 10:00	177°	+25°	0 dB	0°	177°	+25°	233°	-18°	3.0dB	345°K	369911	+3 Hz
2029-07-19	Thursday 10:30	185°	+24°	0 dB	0°	185°	+24°	241°	-18°	3.0dB	346°K	369921	-33 Hz
2029-07-19	Thursday 11:00	192°	+24°	0 dB	0°	192°	+24°	248°	-18°	3.1dB	347°K	369932	-69 Hz
2029-07-19	Thursday 11:30	200°	+22°	0 dB	0°	200°	+22°	255°	-19°	3.1dB	349°K	369943	-104 Hz
2029-07-19	Thursday 12:00	207°	+20°	0 dB	0°	207°	+20°	262°	-19°	3.1dB	350°K	369954	-137 Hz
2029-07-19	Thursday 12:30	213°	+17°	0 dB	0°	213°	+17°	270°	-19°	3.1dB	352°K	369965	-168 Hz
2029-07-19	Thursday 13:00	220°	+14°	0 dB	0°	220°	+14°	277°	-19°	3.1dB	353°K	369976	-196 Hz
2029-07-19	Thursday 13:30	226°	+11°	0 dB	0°	226°	+11°	284°	-19°	3.1dB	354°K	369988	-221 Hz
2029-07-19	Thursday 14:00	232°	+7°	0 dB	0°	232°	+7°	291°	-19°	3.1dB	356°K	370000	-242 Hz
2029-07-19	Thursday 14:30	237°	+3°	0 dB	0°	237°	+3°	298°	-19°	3.2dB	357°K	370012	-260 Hz
2029-07-20	Friday 07:00	126°	+3°	0 dB	0°	126°	+3°	177°	-21°	3.6dB	397°K	370544	+225 Hz
2029-07-20	Friday 07:30	132°	+7°	0 dB	0°	132°	+7°	184°	-21°	3.6dB	398°K	370564	+206 Hz
2029-07-20	Friday 08:00	138°	+10°	0 dB	0°	138°	+10°	191°	-21°	3.6dB	400°K	370584	+183 Hz
2029-07-20	Friday 08:30	144°	+13°	0 dB	0°	144°	+13°	198°	-22°	3.6dB	401°K	370605	+157 Hz
2029-07-20	Friday 09:00	150°	+16°	0 dB	0°	150°	+16°	205°	-22°	3.6dB	402°K	370626	+128 Hz
2029-07-20	Friday 09:30	157°	+18°	0 dB	0°	157°	+18°	213°	-22°	3.6dB	403°K	370647	+97 Hz
2029-07-20	Friday 10:00	164°	+20°	0 dB	0°	164°	+20°	220°	-22°	3.7dB	404°K	370668	+64 Hz
2029-07-20	Friday 10:30	171°	+21°	0 dB	0°	171°	+21°	227°	-22°	3.7dB	405°K	370690	+29 Hz
2029-07-20	Friday 11:00	178°	+21°	0 dB	0°	178°	+21°	234°	-22°	3.7dB	406°K	370712	-6 Hz
2029-07-20	Friday 11:30	185°	+21°	0 dB	0°	185°	+21°	241°	-22°	3.7dB	407°K	370734	-41 Hz
2029-07-20	Friday 12:00	192°	+20°	0 dB	0°	192°	+20°	249°	-22°	3.7dB	408°K	370756	-76 Hz
2029-07-20	Friday 12:30	199°	+19°	0 dB	0°	199°	+19°	256°	-22°	3.7dB	409°K	370779	-110 Hz
2029-07-20	Friday 13:00	206°	+17°	0 dB	0°	206°	+17°	263°	-22°	3.7dB	410°K	370801	-142 Hz
2029-07-20	Friday 13:30	213°	+14°	0 dB	0°	213°	+14°	270°	-22°	3.7dB	411°K	370824	-172 Hz
2029-07-20	Friday 14:00	219°	+11°	0 dB	0°	219°	+11°	277°	-22°	3.7dB	413°K	370848	-199 Hz
2029-07-20	Friday 14:30	225°	+8°	0 dB	0°	225°	+8°	285°	-22°	3.8dB	414°K	370871	-223 Hz
2029-07-20	Friday 15:00	230°	+4°	0 dB	0°	230°	+4°	292°	-22°	3.8dB	415°K	370895	-243 Hz
2029-07-20	Friday 15:30	236°	-0°	0 dB	0°	236°	-0°	299°	-22°	3.8dB	416°K	370919	-260 Hz
2029-07-21	Saturday 08:00	128°	+1°	0 dB	0°	128°	+1°	177°	-24°	4.7dB	522°K	371854	+215 Hz
2029-07-21	Saturday 08:30	134°	+5°	0 dB	0°	134°	+5°	184°	-24°	4.7dB	528°K	371886	+196 Hz
2029-07-21	Saturday 09:00	139°	+8°	0 dB	0°	139°	+8°	191°	-24°	4.8dB	533°K	371919	+173 Hz
2029-07-21	Saturday 09:30	145°	+11°	0 dB	0°	145°	+11°	198°	-24°	4.8dB	539°K	371952	+148 Hz
2029-07-21	Saturday 10:00	151°	+14°	0 dB	0°	151°	+14°	206°	-24°	4.9dB	544°K	371986	+119 Hz
2029-07-21	Saturday 10:30	158°	+16°	0 dB	0°	158°	+16°	213°	-24°	4.9dB	550°K	372020	+89 Hz
2029-07-21	Saturday 11:00	165°	+18°	0 dB	0°	165°	+18°	220°	-24°	4.9dB	555°K	372054	+56 Hz
2029-07-21	Saturday 11:30	171°	+19°	0 dB	0°	171°	+19°	227°	-24°	5.0dB	561°K	372088	+22 Hz
2029-07-21	Saturday 12:00	178°	+19°	0 dB	0°	178°	+19°	234°	-24°	5.0dB	567°K	372122	-12 Hz
2029-07-21	Saturday 12:30	185°	+19°	0 dB	0°	185°	+19°	242°	-24°	5.1dB	572°K	372157	-47 Hz
2029-07-21	Saturday 13:00	192°	+18°	0 dB	0°	192°	+18°	249°	-24°	5.1dB	578°K	372192	-81 Hz
2029-07-21	Saturday 13:30	199°	+17°	0 dB	0°	199°	+17°	256°	-24°	5.1dB	583°K	372228	-114 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-21	Saturday	14:00	206°	+15°	0 dB	0°	206°	+15°	263°	-24°	5.2dB	589°K	372263 -146 Hz
2029-07-21	Saturday	14:30	212°	+12°	0 dB	0°	212°	+12°	270°	-24°	5.2dB	594°K	372299 -175 Hz
2029-07-21	Saturday	15:00	218°	+9°	0 dB	0°	218°	+9°	278°	-24°	5.3dB	600°K	372335 -202 Hz
2029-07-21	Saturday	15:30	224°	+6°	0 dB	0°	224°	+6°	285°	-24°	5.3dB	605°K	372372 -225 Hz
2029-07-21	Saturday	16:00	229°	+2°	0 dB	0°	229°	+2°	292°	-24°	5.4dB	613°K	372408 -245 Hz
2029-07-22	Sunday	09:00	129°	+0°	0 dB	0°	129°	+0°	177°	-24°	8.2dB	1215°K	373815 +207 Hz
2029-07-22	Sunday	09:30	134°	+4°	0 dB	0°	134°	+4°	184°	-24°	8.3dB	1246°K	373861 +189 Hz
2029-07-22	Sunday	10:00	140°	+8°	0 dB	0°	140°	+8°	191°	-24°	8.4dB	1278°K	373907 +167 Hz
2029-07-22	Sunday	10:30	145°	+11°	0 dB	0°	145°	+11°	199°	-24°	8.5dB	1309°K	373954 +141 Hz
2029-07-22	Sunday	11:00	152°	+13°	0 dB	0°	152°	+13°	206°	-24°	8.6dB	1340°K	374001 +113 Hz
2029-07-22	Sunday	11:30	158°	+15°	0 dB	0°	158°	+15°	213°	-24°	8.7dB	1372°K	374048 +83 Hz
2029-07-22	Sunday	12:00	165°	+17°	0 dB	0°	165°	+17°	220°	-24°	8.8dB	1403°K	374096 +50 Hz
2029-07-22	Sunday	12:30	172°	+18°	0 dB	0°	172°	+18°	227°	-24°	8.9dB	1435°K	374144 +16 Hz
2029-07-22	Sunday	13:00	179°	+19°	0 dB	0°	179°	+19°	235°	-24°	9.0dB	1466°K	374192 -18 Hz
2029-07-22	Sunday	13:30	185°	+18°	0 dB	0°	185°	+18°	242°	-24°	9.1dB	1497°K	374240 -53 Hz
2029-07-22	Sunday	14:00	192°	+18°	0 dB	0°	192°	+18°	249°	-24°	9.2dB	1529°K	374289 -87 Hz
2029-07-22	Sunday	14:30	199°	+16°	0 dB	0°	199°	+16°	256°	-24°	9.3dB	1560°K	374338 -120 Hz
2029-07-22	Sunday	15:00	206°	+14°	0 dB	0°	206°	+14°	263°	-24°	9.3dB	1591°K	374387 -151 Hz
2029-07-22	Sunday	15:30	212°	+12°	0 dB	0°	212°	+12°	271°	-24°	9.5dB	1640°K	374436 -180 Hz
2029-07-22	Sunday	16:00	218°	+9°	0 dB	0°	218°	+9°	278°	-24°	9.7dB	1712°K	374486 -207 Hz
2029-07-22	Sunday	16:30	224°	+6°	0 dB	0°	224°	+6°	285°	-24°	9.8dB	1784°K	374536 -231 Hz
2029-07-22	Sunday	17:00	229°	+2°	0 dB	0°	229°	+2°	292°	-24°	10.0dB	1855°K	374586 -251 Hz
2029-07-23	Monday	10:00	128°	+1°	0 dB	0°	128°	+1°	177°	-23°	11.5dB	2613°K	376458 +203 Hz
2029-07-23	Monday	10:30	134°	+5°	0 dB	0°	134°	+5°	184°	-23°	11.4dB	2563°K	376517 +184 Hz
2029-07-23	Monday	11:00	139°	+9°	0 dB	0°	139°	+9°	192°	-23°	11.4dB	2513°K	376577 +162 Hz
2029-07-23	Monday	11:30	145°	+12°	0 dB	0°	145°	+12°	199°	-23°	11.3dB	2462°K	376638 +136 Hz
2029-07-23	Monday	12:00	152°	+14°	0 dB	0°	152°	+14°	206°	-23°	11.2dB	2412°K	376698 +108 Hz
2029-07-23	Monday	12:30	158°	+17°	0 dB	0°	158°	+17°	213°	-23°	11.1dB	2362°K	376759 +77 Hz
2029-07-23	Monday	13:00	165°	+18°	0 dB	0°	165°	+18°	220°	-23°	11.0dB	2312°K	376820 +44 Hz
2029-07-23	Monday	13:30	172°	+19°	0 dB	0°	172°	+19°	228°	-23°	10.9dB	2262°K	376881 +10 Hz
2029-07-23	Monday	14:00	179°	+20°	0 dB	0°	179°	+20°	235°	-23°	10.8dB	2212°K	376943 -25 Hz
2029-07-23	Monday	14:30	186°	+20°	0 dB	0°	186°	+20°	242°	-23°	10.8dB	2162°K	377005 -60 Hz
2029-07-23	Monday	15:00	193°	+19°	0 dB	0°	193°	+19°	249°	-23°	10.7dB	2112°K	377067 -95 Hz
2029-07-23	Monday	15:30	200°	+17°	0 dB	0°	200°	+17°	256°	-23°	10.6dB	2062°K	377129 -128 Hz
2029-07-23	Monday	16:00	206°	+15°	0 dB	0°	206°	+15°	264°	-23°	10.5dB	2012°K	377192 -160 Hz
2029-07-23	Monday	16:30	213°	+13°	0 dB	0°	213°	+13°	271°	-23°	10.4dB	1962°K	377255 -190 Hz
2029-07-23	Monday	17:00	219°	+10°	0 dB	0°	219°	+10°	278°	-23°	10.2dB	1912°K	377318 -217 Hz
2029-07-23	Monday	17:30	225°	+7°	0 dB	0°	225°	+7°	285°	-23°	10.1dB	1862°K	377382 -240 Hz
2029-07-23	Monday	18:00	230°	+3°	0 dB	0°	230°	+3°	293°	-23°	10.0dB	1813°K	377445 -261 Hz
2029-07-24	Tuesday	10:30	122°	-0°	0 dB	0°	122°	-0°	171°	-21°	6.1dB	679°K	379686 +216 Hz
2029-07-24	Tuesday	11:00	127°	+4°	0 dB	0°	127°	+4°	178°	-21°	6.0dB	665°K	379758 +201 Hz
2029-07-24	Tuesday	11:30	133°	+8°	0 dB	0°	133°	+8°	185°	-21°	5.9dB	651°K	379830 +181 Hz
2029-07-24	Tuesday	12:00	139°	+11°	0 dB	0°	139°	+11°	192°	-21°	5.9dB	638°K	379903 +158 Hz
2029-07-24	Tuesday	12:30	145°	+14°	0 dB	0°	145°	+14°	200°	-21°	5.8dB	624°K	379976 +131 Hz
2029-07-24	Tuesday	13:00	151°	+17°	0 dB	0°	151°	+17°	207°	-21°	5.7dB	610°K	380048 +102 Hz
2029-07-24	Tuesday	13:30	158°	+19°	0 dB	0°	158°	+19°	214°	-21°	5.6dB	597°K	380121 +70 Hz
2029-07-24	Tuesday	14:00	165°	+21°	0 dB	0°	165°	+21°	221°	-21°	5.5dB	583°K	380195 +36 Hz
2029-07-24	Tuesday	14:30	172°	+22°	0 dB	0°	172°	+22°	229°	-21°	5.4dB	570°K	380268 +1 Hz
2029-07-24	Tuesday	15:00	180°	+22°	0 dB	0°	180°	+22°	236°	-21°	5.3dB	556°K	380342 -35 Hz
2029-07-24	Tuesday	15:30	187°	+22°	0 dB	0°	187°	+22°	243°	-20°	5.2dB	542°K	380416 -71 Hz
2029-07-24	Tuesday	16:00	194°	+21°	0 dB	0°	194°	+21°	250°	-20°	5.1dB	529°K	380490 -106 Hz
2029-07-24	Tuesday	16:30	202°	+20°	0 dB	0°	202°	+20°	258°	-20°	5.1dB	519°K	380564 -140 Hz
2029-07-24	Tuesday	17:00	208°	+18°	0 dB	0°	208°	+18°	265°	-20°	5.0dB	513°K	380639 -173 Hz
2029-07-24	Tuesday	17:30	215°	+15°	0 dB	0°	215°	+15°	272°	-20°	5.0dB	507°K	380714 -203 Hz
2029-07-24	Tuesday	18:00	221°	+12°	0 dB	0°	221°	+12°	279°	-20°	4.9dB	501°K	380789 -230 Hz
2029-07-24	Tuesday	18:30	227°	+9°	0 dB	0°	227°	+9°	286°	-20°	4.9dB	495°K	380864 -254 Hz
2029-07-24	Tuesday	19:00	233°	+5°	0 dB	0°	233°	+5°	294°	-20°	4.9dB	489°K	380939 -274 Hz
2029-07-24	Tuesday	19:30	238°	+1°	0 dB	0°	238°	+1°	301°	-20°	4.8dB	484°K	381015 -291 Hz
2029-07-25	wednesday	11:30	121°	+4°	0 dB	0°	121°	+4°	173°	-17°	3.7dB	349°K	383534 +216 Hz
2029-07-25	wednesday	12:00	127°	+8°	0 dB	0°	127°	+8°	180°	-17°	3.7dB	348°K	383615 +199 Hz
2029-07-25	wednesday	12:30	132°	+12°	0 dB	0°	132°	+12°	187°	-17°	3.7dB	346°K	383697 +178 Hz
2029-07-25	wednesday	13:00	138°	+15°	0 dB	0°	138°	+15°	194°	-17°	3.7dB	345°K	383778 +153 Hz
2029-07-25	wednesday	13:30	145°	+19°	0 dB	0°	145°	+19°	202°	-17°	3.6dB	343°K	383860 +125 Hz
2029-07-25	wednesday	14:00	152°	+21°	0 dB	0°	152°	+21°	209°	-17°	3.6dB	341°K	383942 +94 Hz
2029-07-25	wednesday	14:30	159°	+23°	0 dB	0°	159°	+23°	216°	-17°	3.6dB	340°K	384025 +60 Hz
2029-07-25	wednesday	15:00	166°	+25°	0 dB	0°	166°	+25°	223°	-17°	3.6dB	338°K	384107 +25 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-25	wednesday15:30	174°	+26°	0 dB	0°	174°	+26°	231°	-17°	3.6dB	337°K	384190	-11 Hz
2029-07-25	wednesday16:00	182°	+26°	0 dB	0°	182°	+26°	238°	-17°	3.6dB	335°K	384272	-48 Hz
2029-07-25	wednesday16:30	190°	+26°	0 dB	0°	190°	+26°	245°	-17°	3.6dB	333°K	384355	-85 Hz
2029-07-25	wednesday17:00	197°	+25°	0 dB	0°	197°	+25°	252°	-17°	3.6dB	332°K	384438	-121 Hz
2029-07-25	wednesday17:30	205°	+23°	0 dB	0°	205°	+23°	259°	-16°	3.5dB	330°K	384521	-156 Hz
2029-07-25	wednesday18:00	212°	+21°	0 dB	0°	212°	+21°	267°	-16°	3.5dB	329°K	384604	-189 Hz
2029-07-25	wednesday18:30	219°	+18°	0 dB	0°	219°	+18°	274°	-16°	3.5dB	327°K	384687	-219 Hz
2029-07-25	wednesday19:00	225°	+15°	0 dB	0°	225°	+15°	281°	-16°	3.5dB	326°K	384771	-246 Hz
2029-07-25	wednesday19:30	231°	+11°	0 dB	0°	231°	+11°	288°	-16°	3.5dB	326°K	384854	-270 Hz
2029-07-25	wednesday20:00	237°	+7°	0 dB	0°	237°	+7°	296°	-16°	3.5dB	326°K	384938	-290 Hz
2029-07-25	wednesday20:30	242°	+3°	0 dB	0°	242°	+3°	303°	-16°	3.5dB	326°K	385022	-305 Hz
2029-07-26	Thursday 12:00	115°	+4°	0 dB	0°	115°	+4°	168°	-13°	3.6dB	326°K	387665	+229 Hz
2029-07-26	Thursday 12:30	120°	+9°	0 dB	0°	120°	+9°	175°	-13°	3.6dB	326°K	387752	+215 Hz
2029-07-26	Thursday 13:00	126°	+13°	0 dB	0°	126°	+13°	182°	-13°	3.6dB	326°K	387838	+196 Hz
2029-07-26	Thursday 13:30	132°	+17°	0 dB	0°	132°	+17°	190°	-13°	3.6dB	326°K	387925	+172 Hz
2029-07-26	Thursday 14:00	139°	+21°	0 dB	0°	139°	+21°	197°	-13°	3.6dB	326°K	388011	+146 Hz
2029-07-26	Thursday 14:30	146°	+24°	0 dB	0°	146°	+24°	204°	-13°	3.7dB	326°K	388098	+116 Hz
2029-07-26	Thursday 15:00	153°	+26°	0 dB	0°	153°	+26°	211°	-12°	3.7dB	326°K	388184	+83 Hz
2029-07-26	Thursday 15:30	161°	+29°	0 dB	0°	161°	+29°	219°	-12°	3.7dB	326°K	388271	+48 Hz
2029-07-26	Thursday 16:00	169°	+30°	0 dB	0°	169°	+30°	226°	-12°	3.7dB	326°K	388357	+11 Hz
2029-07-26	Thursday 16:30	177°	+31°	0 dB	0°	177°	+31°	233°	-12°	3.7dB	326°K	388444	-27 Hz
2029-07-26	Thursday 17:00	185°	+31°	0 dB	0°	185°	+31°	241°	-12°	3.7dB	326°K	388531	-65 Hz
2029-07-26	Thursday 17:30	193°	+30°	0 dB	0°	193°	+30°	248°	-12°	3.7dB	326°K	388618	-102 Hz
2029-07-26	Thursday 18:00	201°	+29°	0 dB	0°	201°	+29°	255°	-12°	3.7dB	326°K	388704	-139 Hz
2029-07-26	Thursday 18:30	209°	+27°	0 dB	0°	209°	+27°	262°	-12°	3.7dB	326°K	388791	-174 Hz
2029-07-26	Thursday 19:00	217°	+24°	0 dB	0°	217°	+24°	270°	-12°	3.7dB	326°K	388878	-206 Hz
2029-07-26	Thursday 19:30	224°	+21°	0 dB	0°	224°	+21°	277°	-12°	3.7dB	326°K	388965	-236 Hz
2029-07-26	Thursday 20:00	230°	+17°	0 dB	0°	230°	+17°	284°	-11°	3.7dB	326°K	389051	-263 Hz
2029-07-26	Thursday 20:30	236°	+13°	0 dB	0°	236°	+13°	291°	-11°	3.7dB	326°K	389138	-285 Hz
2029-07-26	Thursday 21:00	242°	+9°	0 dB	0°	242°	+9°	299°	-11°	3.7dB	326°K	389225	-304 Hz
2029-07-26	Thursday 21:30	248°	+4°	0 dB	0°	248°	+4°	306°	-11°	3.7dB	326°K	389312	-318 Hz
2029-07-26	Thursday 22:00	253°	-0°	0 dB	0°	253°	-0°	313°	-11°	3.7dB	326°K	389399	-328 Hz
2029-07-27	Friday 12:00	103°	+0°	0 dB	0°	103°	+0°	157°	-8°	3.5dB	301°K	391818	+250 Hz
2029-07-27	Friday 12:30	109°	+5°	0 dB	0°	109°	+5°	164°	-8°	3.5dB	300°K	391904	+242 Hz
2029-07-27	Friday 13:00	114°	+10°	0 dB	0°	114°	+10°	171°	-8°	3.5dB	299°K	391990	+229 Hz
2029-07-27	Friday 13:30	120°	+15°	0 dB	0°	120°	+15°	179°	-8°	3.5dB	298°K	392075	+212 Hz
2029-07-27	Friday 14:00	126°	+19°	0 dB	0°	126°	+19°	186°	-8°	3.5dB	297°K	392160	+191 Hz
2029-07-27	Friday 14:30	132°	+23°	0 dB	0°	132°	+23°	193°	-8°	3.5dB	296°K	392246	+165 Hz
2029-07-27	Friday 15:00	139°	+27°	0 dB	0°	139°	+27°	200°	-8°	3.5dB	294°K	392331	+136 Hz
2029-07-27	Friday 15:30	147°	+30°	0 dB	0°	147°	+30°	208°	-8°	3.4dB	292°K	392416	+104 Hz
2029-07-27	Friday 16:00	155°	+32°	0 dB	0°	155°	+32°	215°	-7°	3.4dB	291°K	392501	+69 Hz
2029-07-27	Friday 16:30	163°	+34°	0 dB	0°	163°	+34°	222°	-7°	3.4dB	289°K	392586	+33 Hz
2029-07-27	Friday 17:00	172°	+36°	0 dB	0°	172°	+36°	230°	-7°	3.4dB	287°K	392671	-5 Hz
2029-07-27	Friday 17:30	181°	+36°	0 dB	0°	181°	+36°	237°	-7°	3.4dB	286°K	392756	-44 Hz
2029-07-27	Friday 18:00	190°	+36°	0 dB	0°	190°	+36°	244°	-7°	3.4dB	284°K	392840	-83 Hz
2029-07-27	Friday 18:30	199°	+34°	0 dB	0°	199°	+34°	251°	-7°	3.3dB	282°K	392925	-121 Hz
2029-07-27	Friday 19:00	207°	+33°	0 dB	0°	207°	+33°	259°	-7°	3.3dB	281°K	393009	-157 Hz
2029-07-27	Friday 19:30	215°	+30°	0 dB	0°	215°	+30°	266°	-7°	3.3dB	279°K	393094	-192 Hz
2029-07-27	Friday 20:00	223°	+27°	0 dB	0°	223°	+27°	273°	-7°	3.3dB	277°K	393178	-224 Hz
2029-07-27	Friday 20:30	230°	+23°	0 dB	0°	230°	+23°	280°	-6°	3.3dB	276°K	393262	-252 Hz
2029-07-27	Friday 21:00	236°	+19°	0 dB	0°	236°	+19°	288°	-6°	3.3dB	274°K	393346	-277 Hz
2029-07-27	Friday 21:30	242°	+15°	0 dB	0°	242°	+15°	295°	-6°	3.2dB	272°K	393430	-298 Hz
2029-07-27	Friday 22:00	248°	+11°	0 dB	0°	248°	+11°	302°	-6°	3.2dB	270°K	393513	-315 Hz
2029-07-27	Friday 22:30	254°	+6°	0 dB	0°	254°	+6°	310°	-6°	3.2dB	269°K	393597	-327 Hz
2029-07-27	Friday 23:00	259°	+1°	0 dB	0°	259°	+1°	317°	-6°	3.2dB	267°K	393680	-334 Hz
2029-07-28	Saturday 12:30	098°	+2°	0 dB	0°	098°	+2°	153°	-3°	2.9dB	243°K	395872	+260 Hz
2029-07-28	Saturday 13:00	103°	+7°	0 dB	0°	103°	+7°	161°	-3°	2.9dB	243°K	395950	+254 Hz
2029-07-28	Saturday 13:30	108°	+12°	0 dB	0°	108°	+12°	168°	-3°	3.0dB	243°K	396029	+243 Hz
2029-07-28	Saturday 14:00	114°	+17°	0 dB	0°	114°	+17°	175°	-3°	3.0dB	243°K	396107	+228 Hz
2029-07-28	Saturday 14:30	120°	+21°	0 dB	0°	120°	+21°	183°	-3°	3.0dB	243°K	396185	+208 Hz
2029-07-28	Saturday 15:00	126°	+26°	0 dB	0°	126°	+26°	190°	-3°	3.0dB	243°K	396263	+184 Hz
2029-07-28	Saturday 15:30	133°	+30°	0 dB	0°	133°	+30°	197°	-2°	3.0dB	243°K	396340	+156 Hz
2029-07-28	Saturday 16:00	141°	+33°	0 dB	0°	141°	+33°	204°	-2°	3.0dB	243°K	396417	+125 Hz
2029-07-28	Saturday 16:30	149°	+36°	0 dB	0°	149°	+36°	212°	-2°	3.0dB	243°K	396494	+91 Hz
2029-07-28	Saturday 17:00	158°	+39°	0 dB	0°	158°	+39°	219°	-2°	3.0dB	243°K	396571	+54 Hz
2029-07-28	Saturday 17:30	167°	+40°	0 dB	0°	167°	+40°	226°	-2°	3.0dB	243°K	396648	+16 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-28	Saturday	18:00	177°	+41°	0 dB	0°	177°	+41°	234°	-2°	3.0dB	243°K	396724 -23 Hz
2029-07-28	Saturday	18:30	186°	+41°	0 dB	0°	186°	+41°	241°	-2°	3.0dB	243°K	396800 -62 Hz
2029-07-28	Saturday	19:00	196°	+40°	0 dB	0°	196°	+40°	248°	-2°	3.0dB	243°K	396876 -101 Hz
2029-07-28	Saturday	19:30	205°	+39°	0 dB	0°	205°	+39°	255°	-2°	3.0dB	243°K	396951 -138 Hz
2029-07-28	Saturday	20:00	214°	+36°	0 dB	0°	214°	+36°	263°	-2°	3.0dB	243°K	397027 -174 Hz
2029-07-28	Saturday	20:30	222°	+33°	0 dB	0°	222°	+33°	270°	-1°	3.0dB	243°K	397102 -207 Hz
2029-07-28	Saturday	21:00	230°	+29°	0 dB	0°	230°	+29°	277°	-1°	3.0dB	243°K	397177 -238 Hz
2029-07-28	Saturday	21:30	237°	+25°	0 dB	0°	237°	+25°	285°	-1°	3.0dB	243°K	397251 -264 Hz
2029-07-28	Saturday	22:00	243°	+21°	0 dB	0°	243°	+21°	292°	-1°	3.0dB	243°K	397326 -287 Hz
2029-07-28	Saturday	22:30	249°	+17°	0 dB	0°	249°	+17°	299°	-1°	3.0dB	243°K	397400 -306 Hz
2029-07-28	Saturday	23:00	255°	+12°	0 dB	0°	255°	+12°	306°	-1°	3.0dB	243°K	397474 -320 Hz
2029-07-28	Saturday	23:30	261°	+7°	0 dB	0°	261°	+7°	314°	-1°	3.0dB	243°K	397547 -329 Hz
2029-07-29	Sunday	00:00	266°	+2°	0 dB	0°	266°	+2°	321°	-1°	3.0dB	243°K	397620 -334 Hz
2029-07-29	Sunday	13:00	092°	+4°	0 dB	0°	092°	+4°	151°	+2°	3.0dB	239°K	399423 +269 Hz
2029-07-29	Sunday	13:30	097°	+9°	0 dB	0°	097°	+9°	158°	+2°	3.0dB	239°K	399488 +265 Hz
2029-07-29	Sunday	14:00	102°	+14°	0 dB	0°	102°	+14°	165°	+2°	3.0dB	239°K	399552 +257 Hz
2029-07-29	Sunday	14:30	108°	+19°	0 dB	0°	108°	+19°	172°	+2°	3.1dB	239°K	399617 +243 Hz
2029-07-29	Sunday	15:00	114°	+24°	0 dB	0°	114°	+24°	180°	+2°	3.1dB	239°K	399681 +225 Hz
2029-07-29	Sunday	15:30	120°	+28°	0 dB	0°	120°	+28°	187°	+3°	3.1dB	239°K	399744 +202 Hz
2029-07-29	Sunday	16:00	127°	+33°	0 dB	0°	127°	+33°	194°	+3°	3.1dB	239°K	399808 +176 Hz
2029-07-29	Sunday	16:30	135°	+37°	0 dB	0°	135°	+37°	202°	+3°	3.1dB	239°K	399871 +145 Hz
2029-07-29	Sunday	17:00	143°	+40°	0 dB	0°	143°	+40°	209°	+3°	3.1dB	239°K	399933 +112 Hz
2029-07-29	Sunday	17:30	152°	+43°	0 dB	0°	152°	+43°	216°	+3°	3.1dB	239°K	399996 +77 Hz
2029-07-29	Sunday	18:00	162°	+45°	0 dB	0°	162°	+45°	223°	+3°	3.1dB	239°K	400058 +39 Hz
2029-07-29	Sunday	18:30	172°	+46°	0 dB	0°	172°	+46°	231°	+3°	3.1dB	239°K	400119 0 Hz
2029-07-29	Sunday	19:00	183°	+46°	0 dB	0°	183°	+46°	238°	+3°	3.1dB	239°K	400180 -39 Hz
2029-07-29	Sunday	19:30	193°	+46°	0 dB	0°	193°	+46°	245°	+3°	3.1dB	239°K	400241 -78 Hz
2029-07-29	Sunday	20:00	204°	+44°	0 dB	0°	204°	+44°	253°	+4°	3.1dB	239°K	400302 -116 Hz
2029-07-29	Sunday	20:30	213°	+42°	0 dB	0°	213°	+42°	260°	+4°	3.1dB	239°K	400362 -152 Hz
2029-07-29	Sunday	21:00	222°	+39°	0 dB	0°	222°	+39°	267°	+4°	3.1dB	239°K	400421 -187 Hz
2029-07-29	Sunday	21:30	230°	+35°	0 dB	0°	230°	+35°	274°	+4°	3.1dB	239°K	400481 -218 Hz
2029-07-29	Sunday	22:00	237°	+31°	0 dB	0°	237°	+31°	282°	+4°	3.1dB	239°K	400540 -247 Hz
2029-07-29	Sunday	22:30	244°	+27°	0 dB	0°	244°	+27°	289°	+4°	3.1dB	239°K	400598 -271 Hz
2029-07-29	Sunday	23:00	250°	+22°	0 dB	0°	250°	+22°	296°	+4°	3.1dB	239°K	400656 -291 Hz
2029-07-29	Sunday	23:30	256°	+18°	0 dB	0°	256°	+18°	304°	+4°	3.1dB	239°K	400714 -307 Hz
2029-07-30	Monday	00:00	262°	+13°	0 dB	0°	262°	+13°	311°	+4°	3.1dB	239°K	400772 -318 Hz
2029-07-30	Monday	00:30	267°	+8°	0 dB	0°	267°	+8°	318°	+4°	3.1dB	239°K	400829 -324 Hz
2029-07-30	Monday	01:00	273°	+3°	0 dB	0°	273°	+3°	325°	+5°	3.1dB	239°K	400885 -325 Hz
2029-07-30	Monday	13:00	081°	+0°	0 dB	0°	081°	+0°	140°	+7°	3.3dB	250°K	402123 +276 Hz
2029-07-30	Monday	13:30	086°	+5°	0 dB	0°	086°	+5°	148°	+7°	3.3dB	251°K	402169 +279 Hz
2029-07-30	Monday	14:00	091°	+10°	0 dB	0°	091°	+10°	155°	+7°	3.3dB	251°K	402215 +276 Hz
2029-07-30	Monday	14:30	097°	+16°	0 dB	0°	097°	+16°	162°	+7°	3.4dB	252°K	402260 +269 Hz
2029-07-30	Monday	15:00	102°	+21°	0 dB	0°	102°	+21°	170°	+7°	3.4dB	252°K	402305 +258 Hz
2029-07-30	Monday	15:30	108°	+26°	0 dB	0°	108°	+26°	177°	+7°	3.4dB	253°K	402349 +241 Hz
2029-07-30	Monday	16:00	114°	+30°	0 dB	0°	114°	+30°	184°	+8°	3.4dB	253°K	402393 +220 Hz
2029-07-30	Monday	16:30	121°	+35°	0 dB	0°	121°	+35°	191°	+8°	3.4dB	254°K	402437 +195 Hz
2029-07-30	Monday	17:00	128°	+39°	0 dB	0°	128°	+39°	199°	+8°	3.4dB	254°K	402480 +167 Hz
2029-07-30	Monday	17:30	137°	+43°	0 dB	0°	137°	+43°	206°	+8°	3.4dB	255°K	402522 +135 Hz
2029-07-30	Monday	18:00	146°	+46°	0 dB	0°	146°	+46°	213°	+8°	3.4dB	256°K	402565 +100 Hz
2029-07-30	Monday	18:30	156°	+49°	0 dB	0°	156°	+49°	221°	+8°	3.4dB	256°K	402606 +64 Hz
2029-07-30	Monday	19:00	167°	+51°	0 dB	0°	167°	+51°	228°	+8°	3.4dB	257°K	402648 +25 Hz
2029-07-30	Monday	19:30	179°	+51°	0 dB	0°	179°	+51°	235°	+8°	3.4dB	257°K	402688 -13 Hz
2029-07-30	Monday	20:00	190°	+51°	0 dB	0°	190°	+51°	242°	+8°	3.5dB	258°K	402729 -52 Hz
2029-07-30	Monday	20:30	202°	+50°	0 dB	0°	202°	+50°	250°	+8°	3.5dB	258°K	402769 -90 Hz
2029-07-30	Monday	21:00	212°	+48°	0 dB	0°	212°	+48°	257°	+9°	3.5dB	259°K	402808 -127 Hz
2029-07-30	Monday	21:30	222°	+45°	0 dB	0°	222°	+45°	264°	+9°	3.5dB	259°K	402847 -162 Hz
2029-07-30	Monday	22:00	230°	+41°	0 dB	0°	230°	+41°	272°	+9°	3.5dB	260°K	402885 -195 Hz
2029-07-30	Monday	22:30	238°	+37°	0 dB	0°	238°	+37°	279°	+9°	3.5dB	260°K	402923 -224 Hz
2029-07-30	Monday	23:00	245°	+33°	0 dB	0°	245°	+33°	286°	+9°	3.5dB	261°K	402961 -249 Hz
2029-07-30	Monday	23:30	252°	+28°	0 dB	0°	252°	+28°	293°	+9°	3.5dB	261°K	402998 -271 Hz
2029-07-31	Tuesday	00:00	258°	+23°	0 dB	0°	258°	+23°	301°	+9°	3.5dB	262°K	403034 -288 Hz
2029-07-31	Tuesday	00:30	263°	+18°	0 dB	0°	263°	+18°	308°	+9°	3.5dB	263°K	403070 -301 Hz
2029-07-31	Tuesday	01:00	269°	+13°	0 dB	0°	269°	+13°	315°	+9°	3.5dB	263°K	403106 -309 Hz
2029-07-31	Tuesday	01:30	274°	+8°	0 dB	0°	274°	+8°	323°	+9°	3.6dB	264°K	403141 -312 Hz
2029-07-31	Tuesday	02:00	279°	+3°	0 dB	0°	279°	+3°	330°	+10°	3.6dB	264°K	403176 -310 Hz
2029-07-31	Tuesday	13:30	076°	+2°	0 dB	0°	076°	+2°	138°	+12°	3.8dB	277°K	403834 +283 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-07-31	Tuesday	14:00	081°	+7°	0 dB	0°	081°	+7°	145°	+12°	3.8dB	277°K	403857	+287 Hz
2029-07-31	Tuesday	14:30	086°	+12°	0 dB	0°	086°	+12°	152°	+12°	3.8dB	278°K	403879	+287 Hz
2029-07-31	Tuesday	15:00	091°	+17°	0 dB	0°	091°	+17°	159°	+12°	3.8dB	278°K	403900	+282 Hz
2029-07-31	Tuesday	15:30	097°	+22°	0 dB	0°	097°	+22°	167°	+12°	3.8dB	279°K	403921	+272 Hz
2029-07-31	Tuesday	16:00	102°	+27°	0 dB	0°	102°	+27°	174°	+12°	3.8dB	279°K	403942	+257 Hz
2029-07-31	Tuesday	16:30	108°	+32°	0 dB	0°	108°	+32°	181°	+12°	3.8dB	280°K	403962	+238 Hz
2029-07-31	Tuesday	17:00	115°	+37°	0 dB	0°	115°	+37°	189°	+12°	3.8dB	280°K	403981	+215 Hz
2029-07-31	Tuesday	17:30	122°	+41°	0 dB	0°	122°	+41°	196°	+12°	3.8dB	281°K	404000	+188 Hz
2029-07-31	Tuesday	18:00	130°	+46°	0 dB	0°	130°	+46°	203°	+12°	3.8dB	282°K	404018	+158 Hz
2029-07-31	Tuesday	18:30	139°	+49°	0 dB	0°	139°	+49°	210°	+13°	3.8dB	282°K	404036	+125 Hz
2029-07-31	Tuesday	19:00	149°	+52°	0 dB	0°	149°	+52°	218°	+13°	3.8dB	283°K	404053	+90 Hz
2029-07-31	Tuesday	19:30	161°	+55°	0 dB	0°	161°	+55°	225°	+13°	3.8dB	283°K	404070	+53 Hz
2029-07-31	Tuesday	20:00	173°	+56°	0 dB	0°	173°	+56°	232°	+13°	3.9dB	284°K	404087	+15 Hz
2029-07-31	Tuesday	20:30	186°	+56°	0 dB	0°	186°	+56°	240°	+13°	3.9dB	284°K	404102	-24 Hz
2029-07-31	Tuesday	21:00	199°	+55°	0 dB	0°	199°	+55°	247°	+13°	3.9dB	285°K	404117	-62 Hz
2029-07-31	Tuesday	21:30	210°	+53°	0 dB	0°	210°	+53°	254°	+13°	3.9dB	285°K	404132	-99 Hz
2029-07-31	Tuesday	22:00	221°	+50°	0 dB	0°	221°	+50°	261°	+13°	3.9dB	286°K	404146	-134 Hz
2029-07-31	Tuesday	22:30	230°	+47°	0 dB	0°	230°	+47°	269°	+13°	3.9dB	286°K	404160	-167 Hz
2029-07-31	Tuesday	23:00	239°	+42°	0 dB	0°	239°	+42°	276°	+13°	3.9dB	287°K	404173	-197 Hz
2029-07-31	Tuesday	23:30	246°	+38°	0 dB	0°	246°	+38°	283°	+13°	3.9dB	288°K	404185	-223 Hz
2029-08-01	wednesday	00:00	253°	+33°	0 dB	0°	253°	+33°	290°	+14°	3.9dB	288°K	404197	-246 Hz
2029-08-01	wednesday	00:30	259°	+28°	0 dB	0°	259°	+28°	298°	+14°	3.9dB	289°K	404209	-265 Hz
2029-08-01	wednesday	01:00	264°	+23°	0 dB	0°	264°	+23°	305°	+14°	3.9dB	289°K	404220	-279 Hz
2029-08-01	wednesday	01:30	270°	+18°	0 dB	0°	270°	+18°	312°	+14°	3.9dB	290°K	404230	-289 Hz
2029-08-01	wednesday	02:00	275°	+13°	0 dB	0°	275°	+13°	320°	+14°	3.9dB	290°K	404240	-294 Hz
2029-08-01	wednesday	02:30	280°	+9°	0 dB	0°	280°	+9°	327°	+14°	3.9dB	291°K	404249	-294 Hz
2029-08-01	wednesday	03:00	286°	+4°	0 dB	0°	286°	+4°	334°	+14°	3.9dB	291°K	404258	-290 Hz
2029-08-01	wednesday	04:00	071°	+3°	0 dB	0°	071°	+3°	134°	+16°	4.1dB	300°K	404311	+288 Hz
2029-08-01	wednesday	04:30	076°	+8°	0 dB	0°	076°	+8°	142°	+16°	4.1dB	300°K	404307	+295 Hz
2029-08-01	wednesday	05:00	081°	+13°	0 dB	0°	081°	+13°	149°	+16°	4.1dB	300°K	404302	+296 Hz
2029-08-01	wednesday	05:30	086°	+18°	0 dB	0°	086°	+18°	156°	+16°	4.1dB	300°K	404297	+293 Hz
2029-08-01	wednesday	06:00	091°	+23°	0 dB	0°	091°	+23°	163°	+16°	4.1dB	301°K	404292	+286 Hz
2029-08-01	wednesday	06:30	096°	+28°	0 dB	0°	096°	+28°	171°	+16°	4.1dB	301°K	404285	+273 Hz
2029-08-01	wednesday	07:00	102°	+33°	0 dB	0°	102°	+33°	178°	+16°	4.1dB	301°K	404279	+257 Hz
2029-08-01	wednesday	07:30	108°	+38°	0 dB	0°	108°	+38°	185°	+16°	4.1dB	301°K	404271	+236 Hz
2029-08-01	wednesday	08:00	115°	+43°	0 dB	0°	115°	+43°	193°	+16°	4.1dB	302°K	404264	+211 Hz
2029-08-01	wednesday	08:30	123°	+47°	0 dB	0°	123°	+47°	200°	+17°	4.1dB	302°K	404255	+183 Hz
2029-08-01	wednesday	09:00	131°	+51°	0 dB	0°	131°	+51°	207°	+17°	4.1dB	302°K	404246	+151 Hz
2029-08-01	wednesday	09:30	141°	+55°	0 dB	0°	141°	+55°	214°	+17°	4.1dB	303°K	404237	+118 Hz
2029-08-01	wednesday	10:00	153°	+58°	0 dB	0°	153°	+58°	222°	+17°	4.1dB	303°K	404227	+82 Hz
2029-08-01	wednesday	10:30	166°	+60°	0 dB	0°	166°	+60°	229°	+17°	4.1dB	303°K	404216	+45 Hz
2029-08-01	wednesday	11:00	180°	+60°	0 dB	0°	180°	+60°	236°	+17°	4.1dB	303°K	404205	+8 Hz
2029-08-01	wednesday	11:30	194°	+60°	0 dB	0°	194°	+60°	243°	+17°	4.1dB	304°K	404193	+30 Hz
2029-08-01	wednesday	12:00	208°	+58°	0 dB	0°	208°	+58°	251°	+17°	4.1dB	304°K	404181	-67 Hz
2029-08-01	wednesday	12:30	219°	+55°	0 dB	0°	219°	+55°	258°	+17°	4.1dB	306°K	404168	-102 Hz
2029-08-01	wednesday	13:00	230°	+52°	0 dB	0°	230°	+52°	265°	+17°	4.1dB	307°K	404155	-135 Hz
2029-08-01	wednesday	13:30	239°	+48°	0 dB	0°	239°	+48°	273°	+17°	4.1dB	308°K	404141	-166 Hz
2029-08-02	Thursday	00:00	246°	+43°	0 dB	0°	246°	+43°	280°	+17°	4.2dB	310°K	404126	-194 Hz
2029-08-02	Thursday	00:30	253°	+38°	0 dB	0°	253°	+38°	287°	+17°	4.2dB	311°K	404111	-218 Hz
2029-08-02	Thursday	01:00	259°	+34°	0 dB	0°	259°	+34°	294°	+17°	4.2dB	313°K	404095	-238 Hz
2029-08-02	Thursday	01:30	265°	+29°	0 dB	0°	265°	+29°	302°	+18°	4.2dB	314°K	404079	-254 Hz
2029-08-02	Thursday	02:00	270°	+24°	0 dB	0°	270°	+24°	309°	+18°	4.2dB	316°K	404062	-266 Hz
2029-08-02	Thursday	02:30	276°	+19°	0 dB	0°	276°	+19°	316°	+18°	4.3dB	317°K	404045	-273 Hz
2029-08-02	Thursday	03:00	281°	+14°	0 dB	0°	281°	+14°	323°	+18°	4.3dB	319°K	404027	-275 Hz
2029-08-02	Thursday	03:30	286°	+9°	0 dB	0°	286°	+9°	331°	+18°	4.3dB	320°K	404009	-273 Hz
2029-08-02	Thursday	04:00	291°	+4°	0 dB	0°	291°	+4°	338°	+18°	4.3dB	321°K	403990	-266 Hz
2029-08-02	Thursday	14:30	066°	+3°	0 dB	0°	066°	+3°	131°	+19°	4.6dB	350°K	403462	+292 Hz
2029-08-02	Thursday	15:00	071°	+8°	0 dB	0°	071°	+8°	138°	+19°	4.6dB	350°K	403431	+301 Hz
2029-08-02	Thursday	15:30	076°	+12°	0 dB	0°	076°	+12°	145°	+19°	4.6dB	351°K	403399	+304 Hz
2029-08-02	Thursday	16:00	081°	+17°	0 dB	0°	081°	+17°	152°	+20°	4.6dB	352°K	403367	+304 Hz
2029-08-02	Thursday	16:30	086°	+23°	0 dB	0°	086°	+23°	160°	+20°	4.6dB	353°K	403334	+299 Hz
2029-08-02	Thursday	17:00	091°	+28°	0 dB	0°	091°	+28°	167°	+20°	4.6dB	353°K	403301	+289 Hz
2029-08-02	Thursday	17:30	096°	+33°	0 dB	0°	096°	+33°	174°	+20°	4.6dB	354°K	403267	+275 Hz
2029-08-02	Thursday	18:00	102°	+38°	0 dB	0°	102°	+38°	182°	+20°	4.6dB	355°K	403232	+256 Hz
2029-08-02	Thursday	18:30	108°	+43°	0 dB	0°	108°	+43°	189°	+20°	4.6dB	356°K	403197	+234 Hz
2029-08-02	Thursday	19:00	115°	+48°	0 dB	0°	115°	+48°	196°	+20°	4.6dB	356°K	403162	+208 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-02	Thursday	19:30	123°	+52°	0 dB	0°	123°	+52°	203°	+20°	4.6dB	357°K	403126	+179 Hz
2029-08-02	Thursday	20:00	133°	+56°	0 dB	0°	133°	+56°	211°	+20°	4.7dB	358°K	403089	+147 Hz
2029-08-02	Thursday	20:30	144°	+60°	0 dB	0°	144°	+60°	218°	+20°	4.7dB	359°K	403052	+113 Hz
2029-08-02	Thursday	21:00	157°	+62°	0 dB	0°	157°	+62°	225°	+20°	4.7dB	359°K	403014	+77 Hz
2029-08-02	Thursday	21:30	172°	+63°	0 dB	0°	172°	+63°	232°	+20°	4.7dB	360°K	402976	+41 Hz
2029-08-02	Thursday	22:00	188°	+64°	0 dB	0°	188°	+64°	240°	+20°	4.7dB	361°K	402937	+4 Hz
2029-08-02	Thursday	22:30	203°	+62°	0 dB	0°	203°	+62°	247°	+20°	4.7dB	362°K	402898	-33 Hz
2029-08-02	Thursday	23:00	216°	+60°	0 dB	0°	216°	+60°	254°	+20°	4.7dB	362°K	402858	-68 Hz
2029-08-02	Thursday	23:30	227°	+56°	0 dB	0°	227°	+56°	261°	+20°	4.7dB	363°K	402817	-102 Hz
2029-08-03	Friday	00:00	237°	+52°	0 dB	0°	237°	+52°	269°	+21°	4.7dB	364°K	402776	-133 Hz
2029-08-03	Friday	00:30	245°	+48°	0 dB	0°	245°	+48°	276°	+21°	4.7dB	365°K	402735	-162 Hz
2029-08-03	Friday	01:00	253°	+43°	0 dB	0°	253°	+43°	283°	+21°	4.7dB	365°K	402693	-188 Hz
2029-08-03	Friday	01:30	259°	+38°	0 dB	0°	259°	+38°	291°	+21°	4.7dB	366°K	402650	-210 Hz
2029-08-03	Friday	02:00	265°	+33°	0 dB	0°	265°	+33°	298°	+21°	4.7dB	367°K	402607	-228 Hz
2029-08-03	Friday	02:30	270°	+28°	0 dB	0°	270°	+28°	305°	+21°	4.7dB	368°K	402564	-241 Hz
2029-08-03	Friday	03:00	275°	+23°	0 dB	0°	275°	+23°	312°	+21°	4.7dB	368°K	402519	-251 Hz
2029-08-03	Friday	03:30	280°	+18°	0 dB	0°	280°	+18°	320°	+21°	4.7dB	369°K	402475	-255 Hz
2029-08-03	Friday	04:00	285°	+14°	0 dB	0°	285°	+14°	327°	+21°	4.7dB	369°K	402429	-256 Hz
2029-08-03	Friday	04:30	290°	+9°	0 dB	0°	290°	+9°	334°	+21°	4.7dB	368°K	402384	-251 Hz
2029-08-03	Friday	05:00	295°	+4°	0 dB	0°	295°	+4°	341°	+21°	4.7dB	367°K	402337	-243 Hz
2029-08-03	Friday	05:30	301°	-0°	0 dB	0°	301°	-0°	349°	+21°	4.7dB	366°K	402291	-230 Hz
2029-08-03	Friday	15:00	061°	+2°	0 dB	0°	061°	+2°	126°	+22°	4.5dB	352°K	401303	+294 Hz
2029-08-03	Friday	15:30	066°	+7°	0 dB	0°	066°	+7°	134°	+22°	4.5dB	351°K	401246	+304 Hz
2029-08-03	Friday	16:00	071°	+12°	0 dB	0°	071°	+12°	141°	+22°	4.5dB	350°K	401189	+311 Hz
2029-08-03	Friday	16:30	076°	+16°	0 dB	0°	076°	+16°	148°	+22°	4.5dB	350°K	401131	+313 Hz
2029-08-03	Friday	17:00	081°	+21°	0 dB	0°	081°	+21°	156°	+22°	4.5dB	349°K	401072	+310 Hz
2029-08-03	Friday	17:30	085°	+26°	0 dB	0°	085°	+26°	163°	+22°	4.5dB	348°K	401013	+303 Hz
2029-08-03	Friday	18:00	091°	+32°	0 dB	0°	091°	+32°	170°	+22°	4.5dB	348°K	400954	+292 Hz
2029-08-03	Friday	18:30	096°	+37°	0 dB	0°	096°	+37°	177°	+22°	4.5dB	349°K	400894	+276 Hz
2029-08-03	Friday	19:00	102°	+42°	0 dB	0°	102°	+42°	185°	+22°	4.5dB	349°K	400833	+257 Hz
2029-08-03	Friday	19:30	108°	+47°	0 dB	0°	108°	+47°	192°	+22°	4.5dB	350°K	400772	+233 Hz
2029-08-03	Friday	20:00	116°	+51°	0 dB	0°	116°	+51°	199°	+22°	4.5dB	351°K	400711	+206 Hz
2029-08-03	Friday	20:30	124°	+56°	0 dB	0°	124°	+56°	206°	+23°	4.5dB	352°K	400649	+177 Hz
2029-08-03	Friday	21:00	135°	+60°	0 dB	0°	135°	+60°	214°	+23°	4.5dB	352°K	400586	+144 Hz
2029-08-03	Friday	21:30	147°	+63°	0 dB	0°	147°	+63°	221°	+23°	4.5dB	353°K	400523	+110 Hz
2029-08-03	Friday	22:00	162°	+65°	0 dB	0°	162°	+65°	228°	+23°	4.5dB	354°K	400460	+75 Hz
2029-08-03	Friday	22:30	178°	+66°	0 dB	0°	178°	+66°	235°	+23°	4.5dB	355°K	400396	+39 Hz
2029-08-03	Friday	23:00	195°	+66°	0 dB	0°	195°	+66°	243°	+23°	4.5dB	356°K	400332	+3 Hz
2029-08-03	Friday	23:30	210°	+64°	0 dB	0°	210°	+64°	250°	+23°	4.5dB	356°K	400267	-33 Hz
2029-08-04	Saturday	00:00	223°	+61°	0 dB	0°	223°	+61°	257°	+23°	4.5dB	357°K	400202	-67 Hz
2029-08-04	Saturday	00:30	234°	+57°	0 dB	0°	234°	+57°	264°	+23°	4.5dB	358°K	400136	-99 Hz
2029-08-04	Saturday	01:00	243°	+53°	0 dB	0°	243°	+53°	272°	+23°	4.5dB	359°K	400070	-129 Hz
2029-08-04	Saturday	01:30	251°	+48°	0 dB	0°	251°	+48°	279°	+23°	4.5dB	359°K	400003	-156 Hz
2029-08-04	Saturday	02:00	257°	+43°	0 dB	0°	257°	+43°	286°	+23°	4.5dB	360°K	399936	-180 Hz
2029-08-04	Saturday	02:30	263°	+38°	0 dB	0°	263°	+38°	293°	+23°	4.5dB	361°K	399868	-200 Hz
2029-08-04	Saturday	03:00	269°	+33°	0 dB	0°	269°	+33°	301°	+23°	4.6dB	362°K	399800	-217 Hz
2029-08-04	Saturday	03:30	274°	+28°	0 dB	0°	274°	+28°	308°	+23°	4.6dB	363°K	399732	-229 Hz
2029-08-04	Saturday	04:00	279°	+23°	0 dB	0°	279°	+23°	315°	+23°	4.6dB	363°K	399663	-236 Hz
2029-08-04	Saturday	04:30	284°	+18°	0 dB	0°	284°	+18°	322°	+23°	4.6dB	364°K	399593	-239 Hz
2029-08-04	Saturday	05:00	289°	+13°	0 dB	0°	289°	+13°	330°	+23°	4.6dB	365°K	399523	-238 Hz
2029-08-04	Saturday	05:30	294°	+9°	0 dB	0°	294°	+9°	337°	+23°	4.6dB	366°K	399453	-232 Hz
2029-08-04	Saturday	06:00	299°	+4°	0 dB	0°	299°	+4°	344°	+23°	4.6dB	367°K	399382	-222 Hz
2029-08-04	Saturday	06:30	304°	-0°	0 dB	0°	304°	-0°	351°	+23°	4.6dB	367°K	399311	-208 Hz
2029-08-04	Saturday	15:30	057°	+1°	0 dB	0°	057°	+1°	122°	+24°	4.7dB	387°K	397955	+292 Hz
2029-08-04	Saturday	16:00	062°	+5°	0 dB	0°	062°	+5°	129°	+24°	4.7dB	388°K	397876	+305 Hz
2029-08-04	Saturday	16:30	066°	+10°	0 dB	0°	066°	+10°	136°	+24°	4.7dB	389°K	397796	+314 Hz
2029-08-04	Saturday	17:00	071°	+14°	0 dB	0°	071°	+14°	143°	+24°	4.7dB	390°K	397716	+319 Hz
2029-08-04	Saturday	17:30	076°	+19°	0 dB	0°	076°	+19°	151°	+24°	4.8dB	391°K	397636	+320 Hz
2029-08-04	Saturday	18:00	081°	+24°	0 dB	0°	081°	+24°	158°	+24°	4.8dB	392°K	397555	+316 Hz
2029-08-04	Saturday	18:30	086°	+29°	0 dB	0°	086°	+29°	165°	+24°	4.8dB	393°K	397473	+308 Hz
2029-08-04	Saturday	19:00	091°	+34°	0 dB	0°	091°	+34°	172°	+24°	4.8dB	395°K	397392	+295 Hz
2029-08-04	Saturday	19:30	096°	+39°	0 dB	0°	096°	+39°	180°	+24°	4.8dB	396°K	397310	+278 Hz
2029-08-04	Saturday	20:00	102°	+44°	0 dB	0°	102°	+44°	187°	+24°	4.8dB	397°K	397227	+258 Hz
2029-08-04	Saturday	20:30	109°	+49°	0 dB	0°	109°	+49°	194°	+24°	4.8dB	398°K	397144	+233 Hz
2029-08-04	Saturday	21:00	117°	+54°	0 dB	0°	117°	+54°	201°	+24°	4.8dB	399°K	397061	+206 Hz
2029-08-04	Saturday	21:30	126°	+58°	0 dB	0°	126°	+58°	209°	+24°	4.8dB	400°K	396978	+176 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-04	Saturday	22:00	137°	+62°	0 dB	0°	137°	+62°	216°	+24°	4.8dB	402°K	396894 +143 Hz
2029-08-04	Saturday	22:30	150°	+65°	0 dB	0°	150°	+65°	223°	+24°	4.8dB	403°K	396809 +109 Hz
2029-08-04	Saturday	23:00	166°	+67°	0 dB	0°	166°	+67°	230°	+24°	4.8dB	404°K	396725 +74 Hz
2029-08-04	Saturday	23:30	184°	+68°	0 dB	0°	184°	+68°	238°	+24°	4.8dB	406°K	396640 +38 Hz
2029-08-05	Sunday	00:00	201°	+66°	0 dB	0°	201°	+66°	245°	+24°	4.9dB	407°K	396554 +3 Hz
2029-08-05	Sunday	00:30	216°	+64°	0 dB	0°	216°	+64°	252°	+24°	4.9dB	408°K	396468 -32 Hz
2029-08-05	Sunday	01:00	228°	+61°	0 dB	0°	228°	+61°	259°	+24°	4.9dB	409°K	396382 -65 Hz
2029-08-05	Sunday	01:30	238°	+57°	0 dB	0°	238°	+57°	267°	+24°	4.9dB	411°K	396296 -97 Hz
2029-08-05	Sunday	02:00	247°	+52°	0 dB	0°	247°	+52°	274°	+24°	4.9dB	412°K	396209 -126 Hz
2029-08-05	Sunday	02:30	254°	+47°	0 dB	0°	254°	+47°	281°	+24°	4.9dB	413°K	396122 -152 Hz
2029-08-05	Sunday	03:00	261°	+42°	0 dB	0°	261°	+42°	288°	+24°	4.9dB	415°K	396034 -175 Hz
2029-08-05	Sunday	03:30	266°	+37°	0 dB	0°	266°	+37°	295°	+24°	4.9dB	416°K	395946 -193 Hz
2029-08-05	Sunday	04:00	272°	+32°	0 dB	0°	272°	+32°	303°	+24°	4.9dB	417°K	395858 -208 Hz
2029-08-05	Sunday	04:30	277°	+27°	0 dB	0°	277°	+27°	310°	+24°	4.9dB	419°K	395769 -219 Hz
2029-08-05	Sunday	05:00	281°	+22°	0 dB	0°	281°	+22°	317°	+24°	4.9dB	420°K	395680 -225 Hz
2029-08-05	Sunday	05:30	286°	+17°	0 dB	0°	286°	+17°	324°	+24°	4.9dB	421°K	395591 -227 Hz
2029-08-05	Sunday	06:00	291°	+13°	0 dB	0°	291°	+13°	332°	+24°	5.0dB	423°K	395502 -225 Hz
2029-08-05	Sunday	06:30	296°	+8°	0 dB	0°	296°	+8°	339°	+24°	5.0dB	424°K	395412 -218 Hz
2029-08-05	Sunday	07:00	301°	+4°	0 dB	0°	301°	+4°	346°	+24°	5.0dB	425°K	395321 -207 Hz
2029-08-05	Sunday	16:30	058°	+2°	0 dB	0°	058°	+2°	124°	+24°	5.2dB	464°K	393548 +302 Hz
2029-08-05	Sunday	17:00	063°	+7°	0 dB	0°	063°	+7°	131°	+24°	5.2dB	467°K	393452 +315 Hz
2029-08-05	Sunday	17:30	067°	+11°	0 dB	0°	067°	+11°	138°	+24°	5.3dB	469°K	393356 +323 Hz
2029-08-05	Sunday	18:00	072°	+16°	0 dB	0°	072°	+16°	145°	+24°	5.3dB	472°K	393259 +326 Hz
2029-08-05	Sunday	18:30	077°	+21°	0 dB	0°	077°	+21°	153°	+24°	5.3dB	474°K	393162 +326 Hz
2029-08-05	Sunday	19:00	082°	+26°	0 dB	0°	082°	+26°	160°	+24°	5.3dB	477°K	393065 +321 Hz
2029-08-05	Sunday	19:30	087°	+31°	0 dB	0°	087°	+31°	167°	+24°	5.3dB	479°K	392967 +312 Hz
2029-08-05	Sunday	20:00	092°	+36°	0 dB	0°	092°	+36°	174°	+24°	5.3dB	482°K	392870 +298 Hz
2029-08-05	Sunday	20:30	097°	+41°	0 dB	0°	097°	+41°	181°	+24°	5.4dB	484°K	392772 +280 Hz
2029-08-05	Sunday	21:00	103°	+46°	0 dB	0°	103°	+46°	189°	+24°	5.4dB	487°K	392674 +259 Hz
2029-08-05	Sunday	21:30	110°	+51°	0 dB	0°	110°	+51°	196°	+24°	5.4dB	489°K	392575 +234 Hz
2029-08-05	Sunday	22:00	118°	+55°	0 dB	0°	118°	+55°	203°	+24°	5.4dB	492°K	392476 +206 Hz
2029-08-05	Sunday	22:30	128°	+59°	0 dB	0°	128°	+59°	210°	+24°	5.4dB	494°K	392378 +175 Hz
2029-08-05	Sunday	23:00	140°	+63°	0 dB	0°	140°	+63°	218°	+24°	5.4dB	497°K	392278 +142 Hz
2029-08-05	Sunday	23:30	154°	+66°	0 dB	0°	154°	+66°	225°	+24°	5.4dB	499°K	392179 +108 Hz
2029-08-06	Monday	00:00	170°	+67°	0 dB	0°	170°	+67°	232°	+24°	5.4dB	500°K	392079 +72 Hz
2029-08-06	Monday	00:30	188°	+68°	0 dB	0°	188°	+68°	239°	+24°	5.4dB	500°K	391980 +37 Hz
2029-08-06	Monday	01:00	205°	+66°	0 dB	0°	205°	+66°	247°	+24°	5.4dB	500°K	391880 +1 Hz
2029-08-06	Monday	01:30	219°	+63°	0 dB	0°	219°	+63°	254°	+24°	5.4dB	500°K	391779 -33 Hz
2029-08-06	Monday	02:00	231°	+60°	0 dB	0°	231°	+60°	261°	+24°	5.4dB	500°K	391679 -66 Hz
2029-08-06	Monday	02:30	241°	+56°	0 dB	0°	241°	+56°	268°	+24°	5.4dB	500°K	391578 -97 Hz
2029-08-06	Monday	03:00	249°	+51°	0 dB	0°	249°	+51°	275°	+24°	5.4dB	500°K	391477 -126 Hz
2029-08-06	Monday	03:30	256°	+46°	0 dB	0°	256°	+46°	283°	+24°	5.4dB	500°K	391376 -151 Hz
2029-08-06	Monday	04:00	262°	+41°	0 dB	0°	262°	+41°	290°	+24°	5.4dB	500°K	391275 -173 Hz
2029-08-06	Monday	04:30	268°	+36°	0 dB	0°	268°	+36°	297°	+24°	5.4dB	500°K	391174 -191 Hz
2029-08-06	Monday	05:00	273°	+31°	0 dB	0°	273°	+31°	304°	+24°	5.4dB	500°K	391072 -205 Hz
2029-08-06	Monday	05:30	278°	+26°	0 dB	0°	278°	+26°	312°	+24°	5.4dB	500°K	390970 -215 Hz
2029-08-06	Monday	06:00	282°	+21°	0 dB	0°	282°	+21°	319°	+24°	5.4dB	500°K	390868 -220 Hz
2029-08-06	Monday	06:30	287°	+16°	0 dB	0°	287°	+16°	326°	+24°	5.4dB	500°K	390766 -222 Hz
2029-08-06	Monday	07:00	292°	+11°	0 dB	0°	292°	+11°	333°	+24°	5.4dB	500°K	390663 -218 Hz
2029-08-06	Monday	07:30	297°	+7°	0 dB	0°	297°	+7°	341°	+24°	5.4dB	500°K	390561 -211 Hz
2029-08-06	Monday	08:00	302°	+2°	0 dB	0°	302°	+2°	348°	+24°	5.4dB	500°K	390458 -199 Hz
2029-08-06	Monday	17:30	059°	+3°	0 dB	0°	059°	+3°	125°	+24°	5.0dB	467°K	388479 +310 Hz
2029-08-06	Monday	18:00	064°	+7°	0 dB	0°	064°	+7°	132°	+24°	5.0dB	463°K	388373 +322 Hz
2029-08-06	Monday	18:30	069°	+12°	0 dB	0°	069°	+12°	140°	+23°	5.0dB	460°K	388268 +329 Hz
2029-08-06	Monday	19:00	074°	+16°	0 dB	0°	074°	+16°	147°	+23°	4.9dB	456°K	388162 +332 Hz
2029-08-06	Monday	19:30	079°	+21°	0 dB	0°	079°	+21°	154°	+23°	4.9dB	453°K	388056 +330 Hz
2029-08-06	Monday	20:00	084°	+26°	0 dB	0°	084°	+26°	161°	+23°	4.9dB	450°K	387951 +324 Hz
2029-08-06	Monday	20:30	089°	+31°	0 dB	0°	089°	+31°	169°	+23°	4.8dB	446°K	387845 +314 Hz
2029-08-06	Monday	21:00	094°	+36°	0 dB	0°	094°	+36°	176°	+23°	4.8dB	443°K	387739 +300 Hz
2029-08-06	Monday	21:30	100°	+41°	0 dB	0°	100°	+41°	183°	+23°	4.7dB	439°K	387633 +281 Hz
2029-08-06	Monday	22:00	106°	+46°	0 dB	0°	106°	+46°	190°	+23°	4.7dB	436°K	387527 +259 Hz
2029-08-06	Monday	22:30	113°	+51°	0 dB	0°	113°	+51°	197°	+23°	4.7dB	433°K	387420 +233 Hz
2029-08-06	Monday	23:00	122°	+55°	0 dB	0°	122°	+55°	205°	+23°	4.6dB	429°K	387314 +204 Hz
2029-08-06	Monday	23:30	132°	+59°	0 dB	0°	132°	+59°	212°	+23°	4.6dB	426°K	387208 +172 Hz
2029-08-07	Tuesday	00:00	144°	+63°	0 dB	0°	144°	+63°	219°	+23°	4.6dB	423°K	387102 +139 Hz
2029-08-07	Tuesday	00:30	158°	+65°	0 dB	0°	158°	+65°	226°	+23°	4.5dB	419°K	386995 +104 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-07	Tuesday	01:00	174°	+66°	0 dB	0°	174°	+66°	234°	+23°	4.5dB	416°K	386889 +68 Hz
2029-08-07	Tuesday	01:30	191°	+66°	0 dB	0°	191°	+66°	241°	+23°	4.5dB	413°K	386782 +32 Hz
2029-08-07	Tuesday	02:00	207°	+64°	0 dB	0°	207°	+64°	248°	+23°	4.5dB	411°K	386676 -4 Hz
2029-08-07	Tuesday	02:30	220°	+62°	0 dB	0°	220°	+62°	255°	+23°	4.4dB	409°K	386569 -38 Hz
2029-08-07	Tuesday	03:00	232°	+58°	0 dB	0°	232°	+58°	263°	+23°	4.4dB	408°K	386462 -72 Hz
2029-08-07	Tuesday	03:30	241°	+54°	0 dB	0°	241°	+54°	270°	+23°	4.4dB	406°K	386356 -102 Hz
2029-08-07	Tuesday	04:00	249°	+49°	0 dB	0°	249°	+49°	277°	+23°	4.4dB	404°K	386249 -131 Hz
2029-08-07	Tuesday	04:30	256°	+44°	0 dB	0°	256°	+44°	284°	+23°	4.3dB	402°K	386142 -156 Hz
2029-08-07	Tuesday	05:00	262°	+39°	0 dB	0°	262°	+39°	291°	+23°	4.3dB	401°K	386035 -177 Hz
2029-08-07	Tuesday	05:30	267°	+34°	0 dB	0°	267°	+34°	299°	+23°	4.3dB	399°K	385929 -195 Hz
2029-08-07	Tuesday	06:00	272°	+29°	0 dB	0°	272°	+29°	306°	+23°	4.3dB	397°K	385822 -209 Hz
2029-08-07	Tuesday	06:30	277°	+24°	0 dB	0°	277°	+24°	313°	+23°	4.3dB	396°K	385715 -218 Hz
2029-08-07	Tuesday	07:00	282°	+19°	0 dB	0°	282°	+19°	320°	+23°	4.2dB	394°K	385608 -223 Hz
2029-08-07	Tuesday	07:30	287°	+14°	0 dB	0°	287°	+14°	328°	+23°	4.2dB	392°K	385502 -223 Hz
2029-08-07	Tuesday	08:00	292°	+9°	0 dB	0°	292°	+9°	335°	+22°	4.2dB	391°K	385395 -219 Hz
2029-08-07	Tuesday	08:30	297°	+5°	0 dB	0°	297°	+5°	342°	+22°	4.2dB	389°K	385288 -210 Hz
2029-08-07	Tuesday	09:00	302°	+0°	0 dB	0°	302°	+0°	349°	+22°	4.2dB	387°K	385181 -198 Hz
2029-08-07	Tuesday	18:30	062°	+2°	0 dB	0°	062°	+2°	127°	+21°	3.7dB	348°K	383158 +316 Hz
2029-08-07	Tuesday	19:00	067°	+6°	0 dB	0°	067°	+6°	134°	+21°	3.6dB	346°K	383052 +326 Hz
2029-08-07	Tuesday	19:30	072°	+11°	0 dB	0°	072°	+11°	141°	+21°	3.6dB	343°K	382946 +333 Hz
2029-08-07	Tuesday	20:00	076°	+16°	0 dB	0°	076°	+16°	148°	+21°	3.6dB	341°K	382840 +335 Hz
2029-08-07	Tuesday	20:30	081°	+21°	0 dB	0°	081°	+21°	156°	+21°	3.5dB	338°K	382734 +333 Hz
2029-08-07	Tuesday	21:00	086°	+26°	0 dB	0°	086°	+26°	163°	+21°	3.5dB	336°K	382629 +326 Hz
2029-08-07	Tuesday	21:30	092°	+31°	0 dB	0°	092°	+31°	170°	+21°	3.5dB	333°K	382523 +314 Hz
2029-08-07	Tuesday	22:00	097°	+36°	0 dB	0°	097°	+36°	177°	+21°	3.4dB	330°K	382418 +299 Hz
2029-08-07	Tuesday	22:30	103°	+41°	0 dB	0°	103°	+41°	184°	+21°	3.4dB	328°K	382313 +279 Hz
2029-08-07	Tuesday	23:00	110°	+45°	0 dB	0°	110°	+45°	192°	+21°	3.4dB	325°K	382207 +256 Hz
2029-08-07	Tuesday	23:30	117°	+50°	0 dB	0°	117°	+50°	199°	+21°	3.3dB	323°K	382102 +229 Hz
2029-08-08	wednesday	00:00	126°	+54°	0 dB	0°	126°	+54°	206°	+21°	3.3dB	320°K	381997 +199 Hz
2029-08-08	wednesday	00:30	136°	+58°	0 dB	0°	136°	+58°	213°	+21°	3.3dB	318°K	381893 +166 Hz
2029-08-08	wednesday	01:00	149°	+61°	0 dB	0°	149°	+61°	221°	+21°	3.2dB	315°K	381788 +131 Hz
2029-08-08	wednesday	01:30	163°	+63°	0 dB	0°	163°	+63°	228°	+21°	3.2dB	313°K	381683 +95 Hz
2029-08-08	wednesday	02:00	178°	+64°	0 dB	0°	178°	+64°	235°	+20°	3.2dB	310°K	381579 +59 Hz
2029-08-08	wednesday	02:30	193°	+63°	0 dB	0°	193°	+63°	242°	+20°	3.1dB	308°K	381474 +22 Hz
2029-08-08	wednesday	03:00	208°	+61°	0 dB	0°	208°	+61°	250°	+20°	3.1dB	305°K	381370 -14 Hz
2029-08-08	wednesday	03:30	220°	+59°	0 dB	0°	220°	+59°	257°	+20°	3.1dB	302°K	381266 -50 Hz
2029-08-08	wednesday	04:00	231°	+55°	0 dB	0°	231°	+55°	264°	+20°	3.0dB	299°K	381162 -83 Hz
2029-08-08	wednesday	04:30	240°	+51°	0 dB	0°	240°	+51°	271°	+20°	3.0dB	296°K	381058 -114 Hz
2029-08-08	wednesday	05:00	247°	+46°	0 dB	0°	247°	+46°	278°	+20°	2.9dB	293°K	380955 -142 Hz
2029-08-08	wednesday	05:30	254°	+41°	0 dB	0°	254°	+41°	286°	+20°	2.9dB	290°K	380851 -167 Hz
2029-08-08	wednesday	06:00	260°	+36°	0 dB	0°	260°	+36°	293°	+20°	2.9dB	287°K	380748 -189 Hz
2029-08-08	wednesday	06:30	266°	+31°	0 dB	0°	266°	+31°	300°	+20°	2.8dB	284°K	380645 -206 Hz
2029-08-08	wednesday	07:00	271°	+26°	0 dB	0°	271°	+26°	307°	+20°	2.8dB	281°K	380542 -219 Hz
2029-08-08	wednesday	07:30	276°	+21°	0 dB	0°	276°	+21°	315°	+20°	2.7dB	278°K	380439 -227 Hz
2029-08-08	wednesday	08:00	281°	+16°	0 dB	0°	281°	+16°	322°	+20°	2.7dB	275°K	380336 -232 Hz
2029-08-08	wednesday	08:30	286°	+11°	0 dB	0°	286°	+11°	329°	+20°	2.6dB	272°K	380234 -231 Hz
2029-08-08	wednesday	09:00	291°	+6°	0 dB	0°	291°	+6°	336°	+20°	2.6dB	269°K	380132 -226 Hz
2029-08-08	wednesday	09:30	296°	+2°	0 dB	0°	296°	+2°	344°	+19°	2.6dB	266°K	380029 -217 Hz
2029-08-08	wednesday	19:30	065°	+0°	0 dB	0°	065°	+0°	128°	+18°	1.8dB	219°K	378029 +318 Hz
2029-08-08	wednesday	20:00	070°	+5°	0 dB	0°	070°	+5°	135°	+18°	1.8dB	218°K	377932 +328 Hz
2029-08-08	wednesday	20:30	075°	+10°	0 dB	0°	075°	+10°	143°	+18°	1.7dB	217°K	377834 +334 Hz
2029-08-08	wednesday	21:00	080°	+14°	0 dB	0°	080°	+14°	150°	+18°	1.7dB	216°K	377737 +335 Hz
2029-08-08	wednesday	21:30	085°	+19°	0 dB	0°	085°	+19°	157°	+18°	1.7dB	215°K	377641 +332 Hz
2029-08-08	wednesday	22:00	091°	+24°	0 dB	0°	091°	+24°	164°	+17°	1.7dB	214°K	377544 +323 Hz
2029-08-08	wednesday	22:30	096°	+29°	0 dB	0°	096°	+29°	172°	+17°	1.7dB	213°K	377448 +311 Hz
2029-08-08	wednesday	23:00	102°	+34°	0 dB	0°	102°	+34°	179°	+17°	1.6dB	212°K	377352 +294 Hz
2029-08-08	wednesday	23:30	108°	+39°	0 dB	0°	108°	+39°	186°	+17°	1.6dB	211°K	377256 +273 Hz
2029-08-09	Thursday	00:00	115°	+44°	0 dB	0°	115°	+44°	193°	+17°	1.6dB	210°K	377160 +248 Hz
2029-08-09	Thursday	00:30	123°	+48°	0 dB	0°	123°	+48°	201°	+17°	1.6dB	209°K	377065 +219 Hz
2029-08-09	Thursday	01:00	132°	+52°	0 dB	0°	132°	+52°	208°	+17°	1.6dB	208°K	376970 +188 Hz
2029-08-09	Thursday	01:30	142°	+55°	0 dB	0°	142°	+55°	215°	+17°	1.5dB	207°K	376876 +154 Hz
2029-08-09	Thursday	02:00	154°	+58°	0 dB	0°	154°	+58°	222°	+17°	1.5dB	206°K	376781 +118 Hz
2029-08-09	Thursday	02:30	167°	+60°	0 dB	0°	167°	+60°	230°	+17°	1.5dB	205°K	376687 +81 Hz
2029-08-09	Thursday	03:00	181°	+60°	0 dB	0°	181°	+60°	237°	+17°	1.5dB	204°K	376593 +44 Hz
2029-08-09	Thursday	03:30	195°	+59°	0 dB	0°	195°	+59°	244°	+17°	1.5dB	203°K	376500 +6 Hz
2029-08-09	Thursday	04:00	208°	+57°	0 dB	0°	208°	+57°	251°	+16°	1.4dB	202°K	376407 -31 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-09	Thursday	04:30	219°	+54°	0 dB	0°	219°	+54°	258°	+16°	1.4dB	201°K	376314	-67 Hz
2029-08-09	Thursday	05:00	229°	+51°	0 dB	0°	229°	+51°	266°	+16°	1.4dB	200°K	376221	-101 Hz
2029-08-09	Thursday	05:30	238°	+46°	0 dB	0°	238°	+46°	273°	+16°	1.4dB	199°K	376129	-132 Hz
2029-08-09	Thursday	06:00	245°	+42°	0 dB	0°	245°	+42°	280°	+16°	1.4dB	198°K	376037	-160 Hz
2029-08-09	Thursday	06:30	252°	+37°	0 dB	0°	252°	+37°	287°	+16°	1.3dB	197°K	375945	-185 Hz
2029-08-09	Thursday	07:00	258°	+32°	0 dB	0°	258°	+32°	295°	+16°	1.3dB	196°K	375854	-206 Hz
2029-08-09	Thursday	07:30	264°	+27°	0 dB	0°	264°	+27°	302°	+16°	1.3dB	195°K	375763	-223 Hz
2029-08-09	Thursday	08:00	269°	+22°	0 dB	0°	269°	+22°	309°	+16°	1.3dB	194°K	375672	-235 Hz
2029-08-09	Thursday	08:30	274°	+17°	0 dB	0°	274°	+17°	316°	+16°	1.2dB	193°K	375582	-243 Hz
2029-08-09	Thursday	09:00	279°	+12°	0 dB	0°	279°	+12°	324°	+16°	1.2dB	193°K	375492	-246 Hz
2029-08-09	Thursday	09:30	284°	+7°	0 dB	0°	284°	+7°	331°	+15°	1.2dB	192°K	375402	-244 Hz
2029-08-09	Thursday	10:00	289°	+2°	0 dB	0°	289°	+2°	338°	+15°	1.2dB	191°K	375312	-238 Hz
2029-08-09	Thursday	21:00	075°	+3°	0 dB	0°	075°	+3°	137°	+13°	0.8dB	SUN!	373435	+326 Hz
2029-08-09	Thursday	21:30	080°	+7°	0 dB	0°	080°	+7°	145°	+13°	0.8dB	SUN!	373354	+331 Hz
2029-08-09	Thursday	22:00	085°	+12°	0 dB	0°	085°	+12°	152°	+13°	0.8dB	SUN!	373273	+331 Hz
2029-08-09	Thursday	22:30	090°	+17°	0 dB	0°	090°	+17°	159°	+13°	0.8dB	SUN!	373193	+326 Hz
2029-08-09	Thursday	23:00	096°	+22°	0 dB	0°	096°	+22°	166°	+13°	0.8dB	SUN!	373113	+316 Hz
2029-08-09	Thursday	23:30	101°	+27°	0 dB	0°	101°	+27°	174°	+13°	0.8dB	SUN!	373034	+302 Hz
2029-08-10	Friday	00:00	107°	+32°	0 dB	0°	107°	+32°	181°	+13°	0.8dB	SUN!	372955	+284 Hz
2029-08-10	Friday	00:30	114°	+37°	0 dB	0°	114°	+37°	188°	+12°	0.8dB	SUN!	372876	+261 Hz
2029-08-10	Friday	01:00	121°	+41°	0 dB	0°	121°	+41°	195°	+12°	0.9dB	SUN!	372798	+234 Hz
2029-08-10	Friday	01:30	129°	+45°	0 dB	0°	129°	+45°	203°	+12°	0.9dB	SUN!	372720	+204 Hz
2029-08-10	Friday	02:00	138°	+49°	0 dB	0°	138°	+49°	210°	+12°	0.8dB	SUN!	372643	+172 Hz
2029-08-10	Friday	02:30	149°	+52°	0 dB	0°	149°	+52°	217°	+12°	0.9dB	SUN!	372566	+136 Hz
2029-08-10	Friday	03:00	160°	+54°	0 dB	0°	160°	+54°	224°	+12°	0.9dB	SUN!	372489	+99 Hz
2029-08-10	Friday	03:30	172°	+55°	0 dB	0°	172°	+55°	231°	+12°	0.9dB	SUN!	372413	+61 Hz
2029-08-10	Friday	04:00	185°	+55°	0 dB	0°	185°	+55°	239°	+12°	0.9dB	SUN!	372337	+22 Hz
2029-08-10	Friday	04:30	197°	+54°	0 dB	0°	197°	+54°	246°	+12°	0.9dB	SUN!	372262	-16 Hz
2029-08-10	Friday	05:00	208°	+52°	0 dB	0°	208°	+52°	253°	+11°	0.9dB	SUN!	372187	-54 Hz
2029-08-10	Friday	05:30	219°	+49°	0 dB	0°	219°	+49°	260°	+11°	0.9dB	SUN!	372113	-90 Hz
2029-08-10	Friday	06:00	228°	+45°	0 dB	0°	228°	+45°	268°	+11°	0.9dB	SUN!	372038	-124 Hz
2029-08-10	Friday	06:30	236°	+41°	0 dB	0°	236°	+41°	275°	+11°	0.9dB	SUN!	371965	-155 Hz
2029-08-10	Friday	07:00	243°	+37°	0 dB	0°	243°	+37°	282°	+11°	0.9dB	SUN!	371892	-183 Hz
2029-08-10	Friday	07:30	250°	+32°	0 dB	0°	250°	+32°	289°	+11°	0.9dB	SUN!	371819	-207 Hz
2029-08-10	Friday	08:00	256°	+27°	0 dB	0°	256°	+27°	297°	+11°	0.9dB	SUN!	371747	-227 Hz
2029-08-10	Friday	08:30	261°	+22°	0 dB	0°	261°	+22°	304°	+11°	0.9dB	SUN!	371675	-243 Hz
2029-08-10	Friday	09:00	267°	+17°	0 dB	0°	267°	+17°	311°	+11°	0.9dB	SUN!	371603	-254 Hz
2029-08-10	Friday	09:30	272°	+12°	0 dB	0°	272°	+12°	318°	+10°	0.9dB	SUN!	371532	-260 Hz
2029-08-10	Friday	10:00	277°	+7°	0 dB	0°	277°	+7°	326°	+10°	0.9dB	SUN!	371462	-262 Hz
2029-08-10	Friday	10:30	282°	+2°	0 dB	0°	282°	+2°	333°	+10°	0.9dB	SUN!	371392	-259 Hz
2029-08-10	Friday	22:00	080°	+0°	0 dB	0°	080°	+0°	139°	+8°	0.9dB	187°K	369905	+320 Hz
2029-08-10	Friday	22:30	085°	+5°	0 dB	0°	085°	+5°	147°	+8°	0.9dB	187°K	369846	+323 Hz
2029-08-10	Friday	23:00	091°	+10°	0 dB	0°	091°	+10°	154°	+7°	0.9dB	187°K	369788	+322 Hz
2029-08-10	Friday	23:30	096°	+15°	0 dB	0°	096°	+15°	161°	+7°	0.9dB	188°K	369729	+315 Hz
2029-08-11	Saturday	00:00	101°	+20°	0 dB	0°	101°	+20°	168°	+7°	0.9dB	188°K	369672	+304 Hz
2029-08-11	Saturday	00:30	107°	+24°	0 dB	0°	107°	+24°	176°	+7°	0.9dB	188°K	369615	+288 Hz
2029-08-11	Saturday	01:00	114°	+29°	0 dB	0°	114°	+29°	183°	+7°	0.9dB	189°K	369558	+268 Hz
2029-08-11	Saturday	01:30	120°	+34°	0 dB	0°	120°	+34°	190°	+7°	0.9dB	189°K	369502	+244 Hz
2029-08-11	Saturday	02:00	128°	+38°	0 dB	0°	128°	+38°	197°	+7°	0.9dB	189°K	369447	+215 Hz
2029-08-11	Saturday	02:30	136°	+41°	0 dB	0°	136°	+41°	205°	+7°	0.9dB	190°K	369391	+184 Hz
2029-08-11	Saturday	03:00	145°	+44°	0 dB	0°	145°	+44°	212°	+6°	0.9dB	190°K	369337	+150 Hz
2029-08-11	Saturday	03:30	155°	+47°	0 dB	0°	155°	+47°	219°	+6°	0.9dB	190°K	369283	+113 Hz
2029-08-11	Saturday	04:00	165°	+49°	0 dB	0°	165°	+49°	226°	+6°	0.9dB	191°K	369229	+75 Hz
2029-08-11	Saturday	04:30	176°	+49°	0 dB	0°	176°	+49°	234°	+6°	0.9dB	191°K	369176	+36 Hz
2029-08-11	Saturday	05:00	187°	+49°	0 dB	0°	187°	+49°	241°	+6°	0.9dB	191°K	369123	-3 Hz
2029-08-11	Saturday	05:30	198°	+48°	0 dB	0°	198°	+48°	248°	+6°	0.9dB	192°K	369071	-42 Hz
2029-08-11	Saturday	06:00	208°	+46°	0 dB	0°	208°	+46°	255°	+6°	0.9dB	192°K	369019	-79 Hz
2029-08-11	Saturday	06:30	218°	+43°	0 dB	0°	218°	+43°	263°	+6°	0.9dB	192°K	368968	-115 Hz
2029-08-11	Saturday	07:00	226°	+39°	0 dB	0°	226°	+39°	270°	+6°	0.9dB	193°K	368918	-149 Hz
2029-08-11	Saturday	07:30	234°	+35°	0 dB	0°	234°	+35°	277°	+5°	0.9dB	193°K	368867	-179 Hz
2029-08-11	Saturday	08:00	241°	+31°	0 dB	0°	241°	+31°	284°	+5°	0.9dB	193°K	368818	-206 Hz
2029-08-11	Saturday	08:30	247°	+26°	0 dB	0°	247°	+26°	292°	+5°	0.9dB	193°K	368768	-230 Hz
2029-08-11	Saturday	09:00	253°	+21°	0 dB	0°	253°	+21°	299°	+5°	0.9dB	194°K	368720	-248 Hz
2029-08-11	Saturday	09:30	259°	+16°	0 dB	0°	259°	+16°	306°	+5°	0.9dB	194°K	368672	-263 Hz
2029-08-11	Saturday	10:00	264°	+11°	0 dB	0°	264°	+11°	313°	+5°	0.9dB	194°K	368624	-273 Hz
2029-08-11	Saturday	10:30	269°	+6°	0 dB	0°	269°	+6°	321°	+5°	1.0dB	195°K	368577	-278 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-11	Saturday	11:00	274°	+1°	0 dB	0°	274°	+1°	328°	+5°	1.0dB	195°K	368530	-278 Hz
2029-08-11	Saturday	23:30	091°	+2°	0 dB	0°	091°	+2°	149°	+1°	1.0dB	203°K	367527	+311 Hz
2029-08-12	Sunday	00:00	096°	+7°	0 dB	0°	096°	+7°	156°	+1°	1.0dB	203°K	367493	+308 Hz
2029-08-12	Sunday	00:30	102°	+12°	0 dB	0°	102°	+12°	164°	+1°	1.1dB	204°K	367460	+300 Hz
2029-08-12	Sunday	01:00	108°	+17°	0 dB	0°	108°	+17°	171°	+1°	1.1dB	204°K	367428	+287 Hz
2029-08-12	Sunday	01:30	114°	+21°	0 dB	0°	114°	+21°	178°	+1°	1.1dB	204°K	367396	+269 Hz
2029-08-12	Sunday	02:00	120°	+26°	0 dB	0°	120°	+26°	185°	+1°	1.1dB	205°K	367364	+248 Hz
2029-08-12	Sunday	02:30	127°	+30°	0 dB	0°	127°	+30°	192°	+1°	1.1dB	205°K	367333	+222 Hz
2029-08-12	Sunday	03:00	134°	+34°	0 dB	0°	134°	+34°	200°	+1°	1.1dB	205°K	367303	+192 Hz
2029-08-12	Sunday	03:30	142°	+37°	0 dB	0°	142°	+37°	207°	+0°	1.1dB	206°K	367273	+160 Hz
2029-08-12	Sunday	04:00	151°	+40°	0 dB	0°	151°	+40°	214°	+0°	1.1dB	206°K	367243	+125 Hz
2029-08-12	Sunday	04:30	160°	+42°	0 dB	0°	160°	+42°	221°	+0°	1.1dB	206°K	367214	+87 Hz
2029-08-12	Sunday	05:00	170°	+43°	0 dB	0°	170°	+43°	229°	+0°	1.1dB	207°K	367186	+49 Hz
2029-08-12	Sunday	05:30	180°	+43°	0 dB	0°	180°	+43°	236°	-0°	1.1dB	207°K	367158	-10 Hz
2029-08-12	Sunday	06:00	190°	+43°	0 dB	0°	190°	+43°	243°	-0°	1.1dB	207°K	367130	+30 Hz
2029-08-12	Sunday	06:30	200°	+41°	0 dB	0°	200°	+41°	250°	-0°	1.1dB	207°K	367103	-68 Hz
2029-08-12	Sunday	07:00	209°	+39°	0 dB	0°	209°	+39°	258°	-0°	1.1dB	208°K	367077	-105 Hz
2029-08-12	Sunday	07:30	217°	+36°	0 dB	0°	217°	+36°	265°	-0°	1.1dB	208°K	367051	-140 Hz
2029-08-12	Sunday	08:00	225°	+33°	0 dB	0°	225°	+33°	272°	-1°	1.1dB	208°K	367026	-173 Hz
2029-08-12	Sunday	08:30	232°	+29°	0 dB	0°	232°	+29°	279°	-1°	1.1dB	209°K	367001	-202 Hz
2029-08-12	Sunday	09:00	239°	+24°	0 dB	0°	239°	+24°	287°	-1°	1.1dB	209°K	366976	-228 Hz
2029-08-12	Sunday	09:30	245°	+20°	0 dB	0°	245°	+20°	294°	-1°	1.1dB	209°K	366952	-250 Hz
2029-08-12	Sunday	10:00	251°	+15°	0 dB	0°	251°	+15°	301°	-1°	1.1dB	210°K	366929	-267 Hz
2029-08-12	Sunday	10:30	256°	+10°	0 dB	0°	256°	+10°	308°	-1°	1.1dB	210°K	366906	-280 Hz
2029-08-12	Sunday	11:00	262°	+5°	0 dB	0°	262°	+5°	316°	-1°	1.1dB	210°K	366883	-288 Hz
2029-08-12	Sunday	11:30	267°	+0°	0 dB	0°	267°	+0°	323°	-1°	1.1dB	211°K	366862	-291 Hz
2029-08-13	Monday	01:00	102°	+4°	0 dB	0°	102°	+4°	159°	-5°	1.7dB	249°K	366456	+290 Hz
2029-08-13	Monday	01:30	108°	+9°	0 dB	0°	108°	+9°	166°	-5°	1.7dB	251°K	366448	+281 Hz
2029-08-13	Monday	02:00	114°	+13°	0 dB	0°	114°	+13°	173°	-5°	1.7dB	253°K	366440	+266 Hz
2029-08-13	Monday	02:30	120°	+18°	0 dB	0°	120°	+18°	180°	-5°	1.8dB	255°K	366433	+248 Hz
2029-08-13	Monday	03:00	126°	+22°	0 dB	0°	126°	+22°	187°	-5°	1.8dB	256°K	366426	+225 Hz
2029-08-13	Monday	03:30	133°	+26°	0 dB	0°	133°	+26°	195°	-5°	1.8dB	258°K	366420	+198 Hz
2029-08-13	Monday	04:00	140°	+29°	0 dB	0°	140°	+29°	202°	-6°	1.8dB	260°K	366414	+168 Hz
2029-08-13	Monday	04:30	148°	+32°	0 dB	0°	148°	+32°	209°	-6°	1.9dB	262°K	366409	+135 Hz
2029-08-13	Monday	05:00	156°	+34°	0 dB	0°	156°	+34°	216°	-6°	1.9dB	264°K	366404	+99 Hz
2029-08-13	Monday	05:30	165°	+36°	0 dB	0°	165°	+36°	224°	-6°	1.9dB	266°K	366400	+62 Hz
2029-08-13	Monday	06:00	174°	+37°	0 dB	0°	174°	+37°	231°	-6°	1.9dB	268°K	366396	+23 Hz
2029-08-13	Monday	06:30	183°	+37°	0 dB	0°	183°	+37°	238°	-6°	2.0dB	270°K	366392	-16 Hz
2029-08-13	Monday	07:00	192°	+36°	0 dB	0°	192°	+36°	245°	-6°	2.0dB	271°K	366389	-54 Hz
2029-08-13	Monday	07:30	200°	+35°	0 dB	0°	200°	+35°	253°	-6°	2.0dB	273°K	366387	-92 Hz
2029-08-13	Monday	08:00	209°	+32°	0 dB	0°	209°	+32°	260°	-7°	2.0dB	275°K	366384	-128 Hz
2029-08-13	Monday	08:30	217°	+30°	0 dB	0°	217°	+30°	267°	-7°	2.1dB	277°K	366383	-162 Hz
2029-08-13	Monday	09:00	224°	+26°	0 dB	0°	224°	+26°	274°	-7°	2.1dB	279°K	366382	-193 Hz
2029-08-13	Monday	09:30	231°	+22°	0 dB	0°	231°	+22°	282°	-7°	2.1dB	281°K	366381	-221 Hz
2029-08-13	Monday	10:00	237°	+18°	0 dB	0°	237°	+18°	289°	-7°	2.1dB	283°K	366381	-245 Hz
2029-08-13	Monday	10:30	243°	+14°	0 dB	0°	243°	+14°	296°	-7°	2.2dB	285°K	366381	-265 Hz
2029-08-13	Monday	11:00	248°	+9°	0 dB	0°	248°	+9°	303°	-7°	2.2dB	287°K	366381	-281 Hz
2029-08-13	Monday	11:30	254°	+4°	0 dB	0°	254°	+4°	311°	-7°	2.2dB	289°K	366383	-292 Hz
2029-08-14	Tuesday	02:00	108°	+1°	0 dB	0°	108°	+1°	161°	-11°	2.5dB	313°K	366604	+271 Hz
2029-08-14	Tuesday	02:30	113°	+6°	0 dB	0°	113°	+6°	168°	-11°	2.5dB	313°K	366618	+261 Hz
2029-08-14	Tuesday	03:00	119°	+10°	0 dB	0°	119°	+10°	175°	-11°	2.5dB	313°K	366632	+245 Hz
2029-08-14	Tuesday	03:30	125°	+14°	0 dB	0°	125°	+14°	182°	-11°	2.5dB	313°K	366647	+226 Hz
2029-08-14	Tuesday	04:00	131°	+18°	0 dB	0°	131°	+18°	189°	-11°	2.5dB	313°K	366662	+202 Hz
2029-08-14	Tuesday	04:30	138°	+22°	0 dB	0°	138°	+22°	197°	-11°	2.5dB	313°K	366678	+175 Hz
2029-08-14	Tuesday	05:00	145°	+25°	0 dB	0°	145°	+25°	204°	-11°	2.5dB	313°K	366694	+144 Hz
2029-08-14	Tuesday	05:30	152°	+27°	0 dB	0°	152°	+27°	211°	-11°	2.5dB	313°K	366710	+111 Hz
2029-08-14	Tuesday	06:00	160°	+29°	0 dB	0°	160°	+29°	218°	-12°	2.5dB	313°K	366727	+76 Hz
2029-08-14	Tuesday	06:30	168°	+31°	0 dB	0°	168°	+31°	226°	-12°	2.5dB	313°K	366744	+39 Hz
2029-08-14	Tuesday	07:00	176°	+31°	0 dB	0°	176°	+31°	233°	-12°	2.5dB	313°K	366762	+1 Hz
2029-08-14	Tuesday	07:30	185°	+31°	0 dB	0°	185°	+31°	240°	-12°	2.5dB	312°K	366780	-37 Hz
2029-08-14	Tuesday	08:00	193°	+30°	0 dB	0°	193°	+30°	247°	-12°	2.5dB	312°K	366798	-74 Hz
2029-08-14	Tuesday	08:30	201°	+28°	0 dB	0°	201°	+28°	255°	-12°	2.5dB	312°K	366816	-110 Hz
2029-08-14	Tuesday	09:00	209°	+26°	0 dB	0°	209°	+26°	262°	-12°	2.5dB	311°K	366836	-145 Hz
2029-08-14	Tuesday	09:30	216°	+23°	0 dB	0°	216°	+23°	269°	-12°	2.5dB	311°K	366855	-178 Hz
2029-08-14	Tuesday	10:00	223°	+20°	0 dB	0°	223°	+20°	276°	-12°	2.5dB	311°K	366875	-207 Hz
2029-08-14	Tuesday	10:30	229°	+16°	0 dB	0°	229°	+16°	284°	-13°	2.5dB	310°K	366895	-233 Hz

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-14	Tuesday 11:00	235°	+12°	0 dB	0°	235°	+12°	291°	-13°	2.5dB	310°K	366916	-256 Hz
2029-08-14	Tuesday 11:30	241°	+8°	0 dB	0°	241°	+8°	298°	-13°	2.5dB	310°K	366937	-274 Hz
2029-08-14	Tuesday 12:00	246°	+4°	0 dB	0°	246°	+4°	305°	-13°	2.5dB	309°K	366958	-288 Hz
2029-08-15	wednesday03:30	118°	+3°	0 dB	0°	118°	+3°	169°	-16°	2.6dB	317°K	367792	+242 Hz
2029-08-15	wednesday04:00	123°	+7°	0 dB	0°	123°	+7°	177°	-16°	2.6dB	318°K	367825	+226 Hz
2029-08-15	wednesday04:30	129°	+11°	0 dB	0°	129°	+11°	184°	-16°	2.6dB	319°K	367857	+206 Hz
2029-08-15	wednesday05:00	135°	+15°	0 dB	0°	135°	+15°	191°	-16°	2.7dB	320°K	367890	+182 Hz
2029-08-15	wednesday05:30	142°	+18°	0 dB	0°	142°	+18°	198°	-16°	2.7dB	321°K	367923	+155 Hz
2029-08-15	wednesday06:00	148°	+21°	0 dB	0°	148°	+21°	205°	-16°	2.7dB	321°K	367956	+125 Hz
2029-08-15	wednesday06:30	155°	+23°	0 dB	0°	155°	+23°	213°	-17°	2.7dB	322°K	367990	+92 Hz
2029-08-15	wednesday07:00	163°	+25°	0 dB	0°	163°	+25°	220°	-17°	2.7dB	323°K	368024	+58 Hz
2029-08-15	wednesday07:30	170°	+26°	0 dB	0°	170°	+26°	227°	-17°	2.7dB	324°K	368059	+22 Hz
2029-08-15	wednesday08:00	178°	+26°	0 dB	0°	178°	+26°	234°	-17°	2.7dB	325°K	368093	-15 Hz
2029-08-15	wednesday08:30	186°	+26°	0 dB	0°	186°	+26°	242°	-17°	2.7dB	326°K	368128	-52 Hz
2029-08-15	wednesday09:00	194°	+25°	0 dB	0°	194°	+25°	249°	-17°	2.7dB	327°K	368163	-88 Hz
2029-08-15	wednesday09:30	201°	+23°	0 dB	0°	201°	+23°	256°	-17°	2.8dB	328°K	368199	-123 Hz
2029-08-15	wednesday10:00	208°	+21°	0 dB	0°	208°	+21°	263°	-17°	2.8dB	330°K	368235	-156 Hz
2029-08-15	wednesday10:30	215°	+18°	0 dB	0°	215°	+18°	270°	-17°	2.8dB	331°K	368271	-187 Hz
2029-08-15	wednesday11:00	221°	+15°	0 dB	0°	221°	+15°	278°	-17°	2.8dB	333°K	368307	-215 Hz
2029-08-15	wednesday11:30	227°	+12°	0 dB	0°	227°	+12°	285°	-17°	2.8dB	334°K	368344	-240 Hz
2029-08-15	wednesday12:00	233°	+8°	0 dB	0°	233°	+8°	292°	-18°	2.8dB	335°K	368381	-261 Hz
2029-08-15	wednesday12:30	239°	+3°	0 dB	0°	239°	+3°	299°	-18°	2.9dB	337°K	368418	-278 Hz
2029-08-16	Thursday 04:30	121°	+0°	0 dB	0°	121°	+0°	170°	-20°	3.4dB	379°K	369745	+227 Hz
2029-08-16	Thursday 05:00	127°	+4°	0 dB	0°	127°	+4°	178°	-20°	3.4dB	380°K	369790	+211 Hz
2029-08-16	Thursday 05:30	132°	+8°	0 dB	0°	132°	+8°	185°	-20°	3.4dB	381°K	369836	+191 Hz
2029-08-16	Thursday 06:00	138°	+11°	0 dB	0°	138°	+11°	192°	-20°	3.4dB	383°K	369882	+168 Hz
2029-08-16	Thursday 06:30	144°	+15°	0 dB	0°	144°	+15°	199°	-20°	3.4dB	384°K	369928	+141 Hz
2029-08-16	Thursday 07:00	151°	+17°	0 dB	0°	151°	+17°	206°	-21°	3.4dB	385°K	369974	+111 Hz
2029-08-16	Thursday 07:30	158°	+19°	0 dB	0°	158°	+19°	214°	-21°	3.5dB	386°K	370020	+79 Hz
2029-08-16	Thursday 08:00	165°	+21°	0 dB	0°	165°	+21°	221°	-21°	3.5dB	388°K	370067	+46 Hz
2029-08-16	Thursday 08:30	172°	+22°	0 dB	0°	172°	+22°	228°	-21°	3.5dB	389°K	370114	+11 Hz
2029-08-16	Thursday 09:00	179°	+22°	0 dB	0°	179°	+22°	235°	-21°	3.5dB	390°K	370161	-25 Hz
2029-08-16	Thursday 09:30	186°	+22°	0 dB	0°	186°	+22°	242°	-21°	3.5dB	391°K	370209	-61 Hz
2029-08-16	Thursday 10:00	194°	+21°	0 dB	0°	194°	+21°	250°	-21°	3.5dB	392°K	370256	-96 Hz
2029-08-16	Thursday 10:30	201°	+19°	0 dB	0°	201°	+19°	257°	-21°	3.5dB	394°K	370304	-129 Hz
2029-08-16	Thursday 11:00	208°	+17°	0 dB	0°	208°	+17°	264°	-21°	3.6dB	395°K	370352	-161 Hz
2029-08-16	Thursday 11:30	214°	+15°	0 dB	0°	214°	+15°	271°	-21°	3.6dB	396°K	370400	-191 Hz
2029-08-16	Thursday 12:00	220°	+11°	0 dB	0°	220°	+11°	279°	-21°	3.6dB	397°K	370448	-218 Hz
2029-08-16	Thursday 12:30	226°	+8°	0 dB	0°	226°	+8°	286°	-21°	3.6dB	398°K	370497	-242 Hz
2029-08-16	Thursday 13:00	232°	+4°	0 dB	0°	232°	+4°	293°	-21°	3.6dB	399°K	370545	-262 Hz
2029-08-16	Thursday 13:30	237°	+0°	0 dB	0°	237°	+0°	300°	-21°	3.6dB	400°K	370594	-278 Hz
2029-08-17	Friday 06:00	129°	+2°	0 dB	0°	129°	+2°	178°	-23°	4.2dB	461°K	372308	+201 Hz
2029-08-17	Friday 06:30	134°	+6°	0 dB	0°	134°	+6°	185°	-23°	4.3dB	463°K	372362	+181 Hz
2029-08-17	Friday 07:00	140°	+9°	0 dB	0°	140°	+9°	192°	-23°	4.3dB	466°K	372417	+158 Hz
2029-08-17	Friday 07:30	146°	+12°	0 dB	0°	146°	+12°	200°	-23°	4.3dB	468°K	372472	+132 Hz
2029-08-17	Friday 08:00	152°	+15°	0 dB	0°	152°	+15°	207°	-23°	4.3dB	471°K	372527	+103 Hz
2029-08-17	Friday 08:30	159°	+17°	0 dB	0°	159°	+17°	214°	-23°	4.3dB	473°K	372583	+72 Hz
2029-08-17	Friday 09:00	166°	+18°	0 dB	0°	166°	+18°	221°	-23°	4.4dB	476°K	372638	+39 Hz
2029-08-17	Friday 09:30	173°	+19°	0 dB	0°	173°	+19°	228°	-23°	4.4dB	479°K	372693	+5 Hz
2029-08-17	Friday 10:00	180°	+20°	0 dB	0°	180°	+20°	236°	-23°	4.4dB	484°K	372749	-30 Hz
2029-08-17	Friday 10:30	187°	+19°	0 dB	0°	187°	+19°	243°	-23°	4.5dB	490°K	372805	-65 Hz
2029-08-17	Friday 11:00	194°	+18°	0 dB	0°	194°	+18°	250°	-23°	4.5dB	495°K	372861	-99 Hz
2029-08-17	Friday 11:30	200°	+17°	0 dB	0°	200°	+17°	257°	-23°	4.6dB	501°K	372917	-132 Hz
2029-08-17	Friday 12:00	207°	+15°	0 dB	0°	207°	+15°	265°	-23°	4.6dB	506°K	372973	-163 Hz
2029-08-17	Friday 12:30	213°	+12°	0 dB	0°	213°	+12°	272°	-23°	4.7dB	512°K	373029	-192 Hz
2029-08-17	Friday 13:00	219°	+9°	0 dB	0°	219°	+9°	279°	-24°	4.7dB	517°K	373086	-218 Hz
2029-08-17	Friday 13:30	225°	+6°	0 dB	0°	225°	+6°	286°	-24°	4.8dB	523°K	373143	-241 Hz
2029-08-17	Friday 14:00	231°	+2°	0 dB	0°	231°	+2°	293°	-24°	4.8dB	528°K	373199	-261 Hz
2029-08-18	Saturday 07:00	130°	+1°	0 dB	0°	130°	+1°	178°	-24°	6.6dB	820°K	375199	+196 Hz
2029-08-18	Saturday 07:30	135°	+5°	0 dB	0°	135°	+5°	186°	-24°	6.7dB	831°K	375260	+177 Hz
2029-08-18	Saturday 08:00	141°	+8°	0 dB	0°	141°	+8°	193°	-24°	6.8dB	842°K	375321	+154 Hz
2029-08-18	Saturday 08:30	147°	+11°	0 dB	0°	147°	+11°	200°	-24°	6.8dB	853°K	375382	+128 Hz
2029-08-18	Saturday 09:00	153°	+14°	0 dB	0°	153°	+14°	207°	-24°	6.9dB	864°K	375443	+99 Hz
2029-08-18	Saturday 09:30	159°	+16°	0 dB	0°	159°	+16°	214°	-24°	7.0dB	886°K	375504	+68 Hz
2029-08-18	Saturday 10:00	166°	+17°	0 dB	0°	166°	+17°	222°	-24°	7.1dB	917°K	375565	+36 Hz
2029-08-18	Saturday 10:30	173°	+18°	0 dB	0°	173°	+18°	229°	-24°	7.3dB	948°K	375626	+2 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-18	Saturday	11:00	180°	+19°	0 dB	0°	180°	+19°	236°	-24°	7.4dB	979°K	375688 -33 Hz
2029-08-18	Saturday	11:30	187°	+18°	0 dB	0°	187°	+18°	243°	-24°	7.5dB	1010°K	375749 -67 Hz
2029-08-18	Saturday	12:00	194°	+17°	0 dB	0°	194°	+17°	250°	-24°	7.6dB	1040°K	375811 -101 Hz
2029-08-18	Saturday	12:30	200°	+16°	0 dB	0°	200°	+16°	258°	-24°	7.8dB	1071°K	375872 -134 Hz
2029-08-18	Saturday	13:00	207°	+14°	0 dB	0°	207°	+14°	265°	-24°	7.9dB	1102°K	375934 -165 Hz
2029-08-18	Saturday	13:30	213°	+11°	0 dB	0°	213°	+11°	272°	-24°	8.0dB	1133°K	375996 -193 Hz
2029-08-18	Saturday	14:00	219°	+8°	0 dB	0°	219°	+8°	279°	-24°	8.1dB	1164°K	376058 -219 Hz
2029-08-18	Saturday	14:30	225°	+5°	0 dB	0°	225°	+5°	286°	-24°	8.2dB	1195°K	376120 -242 Hz
2029-08-18	Saturday	15:00	230°	+1°	0 dB	0°	230°	+1°	294°	-24°	8.3dB	1226°K	376182 -262 Hz
2029-08-19	Sunday	08:00	130°	+2°	0 dB	0°	130°	+2°	179°	-24°	12.4dB	3122°K	378344 +195 Hz
2029-08-19	Sunday	08:30	135°	+6°	0 dB	0°	135°	+6°	186°	-24°	12.5dB	3192°K	378409 +176 Hz
2029-08-19	Sunday	09:00	141°	+9°	0 dB	0°	141°	+9°	193°	-24°	12.6dB	3261°K	378474 +153 Hz
2029-08-19	Sunday	09:30	147°	+12°	0 dB	0°	147°	+12°	200°	-24°	12.6dB	3287°K	378539 +127 Hz
2029-08-19	Sunday	10:00	153°	+15°	0 dB	0°	153°	+15°	208°	-24°	12.5dB	3237°K	378604 +98 Hz
2029-08-19	Sunday	10:30	160°	+17°	0 dB	0°	160°	+17°	215°	-24°	12.5dB	3187°K	378669 +66 Hz
2029-08-19	Sunday	11:00	166°	+18°	0 dB	0°	166°	+18°	222°	-24°	12.4dB	3138°K	378734 +33 Hz
2029-08-19	Sunday	11:30	173°	+19°	0 dB	0°	173°	+19°	229°	-24°	12.3dB	3088°K	378800 -1 Hz
2029-08-19	Sunday	12:00	180°	+19°	0 dB	0°	180°	+19°	236°	-24°	12.3dB	3038°K	378865 -35 Hz
2029-08-19	Sunday	12:30	187°	+19°	0 dB	0°	187°	+19°	244°	-24°	12.2dB	2988°K	378931 -70 Hz
2029-08-19	Sunday	13:00	194°	+18°	0 dB	0°	194°	+18°	251°	-24°	12.1dB	2939°K	378996 -104 Hz
2029-08-19	Sunday	13:30	201°	+17°	0 dB	0°	201°	+17°	258°	-24°	12.1dB	2889°K	379062 -137 Hz
2029-08-19	Sunday	14:00	208°	+15°	0 dB	0°	208°	+15°	265°	-23°	12.0dB	2839°K	379128 -168 Hz
2029-08-19	Sunday	14:30	214°	+12°	0 dB	0°	214°	+12°	273°	-23°	11.9dB	2790°K	379193 -197 Hz
2029-08-19	Sunday	15:00	220°	+9°	0 dB	0°	220°	+9°	280°	-23°	11.9dB	2740°K	379259 -223 Hz
2029-08-19	Sunday	15:30	226°	+6°	0 dB	0°	226°	+6°	287°	-23°	11.8dB	2691°K	379325 -246 Hz
2029-08-19	Sunday	16:00	231°	+2°	0 dB	0°	231°	+2°	294°	-23°	11.7dB	2641°K	379391 -266 Hz
2029-08-20	Monday	08:30	124°	-0°	0 dB	0°	124°	-0°	172°	-22°	7.9dB	1034°K	381604 +213 Hz
2029-08-20	Monday	09:00	129°	+4°	0 dB	0°	129°	+4°	180°	-22°	7.7dB	986°K	381672 +197 Hz
2029-08-20	Monday	09:30	135°	+8°	0 dB	0°	135°	+8°	187°	-22°	7.5dB	938°K	381740 +176 Hz
2029-08-20	Monday	10:00	141°	+11°	0 dB	0°	141°	+11°	194°	-22°	7.3dB	891°K	381808 +152 Hz
2029-08-20	Monday	10:30	147°	+14°	0 dB	0°	147°	+14°	201°	-22°	7.2dB	862°K	381877 +125 Hz
2029-08-20	Monday	11:00	153°	+17°	0 dB	0°	153°	+17°	209°	-22°	7.1dB	848°K	381945 +96 Hz
2029-08-20	Monday	11:30	160°	+19°	0 dB	0°	160°	+19°	216°	-22°	7.0dB	835°K	382013 +64 Hz
2029-08-20	Monday	12:00	167°	+20°	0 dB	0°	167°	+20°	223°	-22°	7.0dB	821°K	382082 +30 Hz
2029-08-20	Monday	12:30	174°	+21°	0 dB	0°	174°	+21°	230°	-22°	6.9dB	807°K	382150 -5 Hz
2029-08-20	Monday	13:00	181°	+21°	0 dB	0°	181°	+21°	238°	-21°	6.8dB	794°K	382219 -41 Hz
2029-08-20	Monday	13:30	189°	+21°	0 dB	0°	189°	+21°	245°	-21°	6.8dB	780°K	382287 -76 Hz
2029-08-20	Monday	14:00	196°	+20°	0 dB	0°	196°	+20°	252°	-21°	6.7dB	767°K	382356 -111 Hz
2029-08-20	Monday	14:30	203°	+18°	0 dB	0°	203°	+18°	259°	-21°	6.6dB	753°K	382425 -144 Hz
2029-08-20	Monday	15:00	210°	+16°	0 dB	0°	210°	+16°	266°	-21°	6.6dB	740°K	382493 -176 Hz
2029-08-20	Monday	15:30	216°	+14°	0 dB	0°	216°	+14°	274°	-21°	6.5dB	726°K	382562 -205 Hz
2029-08-20	Monday	16:00	222°	+10°	0 dB	0°	222°	+10°	281°	-21°	6.4dB	713°K	382631 -231 Hz
2029-08-20	Monday	16:30	228°	+7°	0 dB	0°	228°	+7°	288°	-21°	6.3dB	699°K	382700 -254 Hz
2029-08-20	Monday	17:00	234°	+3°	0 dB	0°	234°	+3°	295°	-21°	6.3dB	686°K	382769 -273 Hz
2029-08-21	Tuesday	09:30	123°	+3°	0 dB	0°	123°	+3°	174°	-19°	4.3dB	403°K	385071 +215 Hz
2029-08-21	Tuesday	10:00	129°	+8°	0 dB	0°	129°	+8°	181°	-19°	4.3dB	397°K	385142 +198 Hz
2029-08-21	Tuesday	10:30	134°	+11°	0 dB	0°	134°	+11°	189°	-19°	4.2dB	392°K	385212 +176 Hz
2029-08-21	Tuesday	11:00	141°	+15°	0 dB	0°	141°	+15°	196°	-19°	4.2dB	386°K	385283 +151 Hz
2029-08-21	Tuesday	11:30	147°	+18°	0 dB	0°	147°	+18°	203°	-19°	4.1dB	380°K	385354 +122 Hz
2029-08-21	Tuesday	12:00	154°	+20°	0 dB	0°	154°	+20°	210°	-18°	4.1dB	375°K	385424 +91 Hz
2029-08-21	Tuesday	12:30	161°	+22°	0 dB	0°	161°	+22°	218°	-18°	4.0dB	369°K	385495 +58 Hz
2029-08-21	Tuesday	13:00	168°	+24°	0 dB	0°	168°	+24°	225°	-18°	4.0dB	368°K	385566 +22 Hz
2029-08-21	Tuesday	13:30	176°	+25°	0 dB	0°	176°	+25°	232°	-18°	4.0dB	366°K	385637 -14 Hz
2029-08-21	Tuesday	14:00	183°	+25°	0 dB	0°	183°	+25°	239°	-18°	4.0dB	364°K	385707 -50 Hz
2029-08-21	Tuesday	14:30	191°	+24°	0 dB	0°	191°	+24°	247°	-18°	3.9dB	363°K	385778 -87 Hz
2029-08-21	Tuesday	15:00	199°	+23°	0 dB	0°	199°	+23°	254°	-18°	3.9dB	361°K	385849 -122 Hz
2029-08-21	Tuesday	15:30	206°	+21°	0 dB	0°	206°	+21°	261°	-18°	3.9dB	360°K	385920 -156 Hz
2029-08-21	Tuesday	16:00	213°	+19°	0 dB	0°	213°	+19°	268°	-18°	3.9dB	358°K	385991 -188 Hz
2029-08-21	Tuesday	16:30	219°	+16°	0 dB	0°	219°	+16°	276°	-18°	3.9dB	356°K	386062 -217 Hz
2029-08-21	Tuesday	17:00	226°	+13°	0 dB	0°	226°	+13°	283°	-18°	3.9dB	355°K	386133 -243 Hz
2029-08-21	Tuesday	17:30	232°	+9°	0 dB	0°	232°	+9°	290°	-18°	3.9dB	353°K	386204 -266 Hz
2029-08-21	Tuesday	18:00	237°	+5°	0 dB	0°	237°	+5°	297°	-18°	3.9dB	352°K	386275 -285 Hz
2029-08-21	Tuesday	18:30	243°	+1°	0 dB	0°	243°	+1°	305°	-17°	3.8dB	350°K	386346 -299 Hz
2029-08-22	wednesday	10:00	117°	+4°	0 dB	0°	117°	+4°	169°	-15°	3.7dB	326°K	388565 +232 Hz
2029-08-22	wednesday	10:30	123°	+8°	0 dB	0°	123°	+8°	177°	-15°	3.7dB	326°K	388637 +216 Hz
2029-08-22	wednesday	11:00	128°	+12°	0 dB	0°	128°	+12°	184°	-15°	3.7dB	326°K	388709 +197 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-22	wednesday11:30	134°	+16°	0 dB	0°	134°	+16°	191°	-15°	3.7dB	326°K	388781	+173 Hz
2029-08-22	wednesday12:00	141°	+20°	0 dB	0°	141°	+20°	198°	-14°	3.7dB	326°K	388852	+146 Hz
2029-08-22	wednesday12:30	148°	+23°	0 dB	0°	148°	+23°	206°	-14°	3.7dB	326°K	388924	+115 Hz
2029-08-22	wednesday13:00	155°	+25°	0 dB	0°	155°	+25°	213°	-14°	3.7dB	326°K	388996	+82 Hz
2029-08-22	wednesday13:30	163°	+27°	0 dB	0°	163°	+27°	220°	-14°	3.7dB	326°K	389068	+47 Hz
2029-08-22	wednesday14:00	170°	+28°	0 dB	0°	170°	+28°	227°	-14°	3.7dB	326°K	389140	+11 Hz
2029-08-22	wednesday14:30	179°	+29°	0 dB	0°	179°	+29°	235°	-14°	3.7dB	326°K	389212	-27 Hz
2029-08-22	wednesday15:00	187°	+29°	0 dB	0°	187°	+29°	242°	-14°	3.7dB	326°K	389284	-64 Hz
2029-08-22	wednesday15:30	195°	+28°	0 dB	0°	195°	+28°	249°	-14°	3.7dB	326°K	389356	-101 Hz
2029-08-22	wednesday16:00	202°	+26°	0 dB	0°	202°	+26°	257°	-14°	3.7dB	326°K	389428	-137 Hz
2029-08-22	wednesday16:30	210°	+24°	0 dB	0°	210°	+24°	264°	-14°	3.7dB	326°K	389500	-172 Hz
2029-08-22	wednesday17:00	217°	+22°	0 dB	0°	217°	+22°	271°	-14°	3.7dB	326°K	389572	-203 Hz
2029-08-22	wednesday17:30	224°	+18°	0 dB	0°	224°	+18°	278°	-13°	3.7dB	326°K	389644	-232 Hz
2029-08-22	wednesday18:00	230°	+15°	0 dB	0°	230°	+15°	286°	-13°	3.7dB	326°K	389716	-258 Hz
2029-08-22	wednesday18:30	236°	+11°	0 dB	0°	236°	+11°	293°	-13°	3.7dB	326°K	389788	-280 Hz
2029-08-22	wednesday19:00	242°	+7°	0 dB	0°	242°	+7°	300°	-13°	3.7dB	326°K	389860	-297 Hz
2029-08-22	wednesday19:30	248°	+2°	0 dB	0°	248°	+2°	307°	-13°	3.7dB	326°K	389932	-310 Hz
2029-08-23	Thursday 10:00	106°	-0°	0 dB	0°	106°	-0°	158°	-10°	3.8dB	320°K	392014	+254 Hz
2029-08-23	Thursday 10:30	111°	+5°	0 dB	0°	111°	+5°	165°	-10°	3.8dB	319°K	392086	+245 Hz
2029-08-23	Thursday 11:00	116°	+9°	0 dB	0°	116°	+9°	173°	-10°	3.7dB	318°K	392157	+232 Hz
2029-08-23	Thursday 11:30	122°	+14°	0 dB	0°	122°	+14°	180°	-10°	3.7dB	317°K	392229	+214 Hz
2029-08-23	Thursday 12:00	128°	+18°	0 dB	0°	128°	+18°	187°	-10°	3.7dB	316°K	392300	+192 Hz
2029-08-23	Thursday 12:30	135°	+22°	0 dB	0°	135°	+22°	194°	-10°	3.7dB	315°K	392372	+166 Hz
2029-08-23	Thursday 13:00	142°	+25°	0 dB	0°	142°	+25°	202°	-10°	3.7dB	314°K	392443	+137 Hz
2029-08-23	Thursday 13:30	149°	+28°	0 dB	0°	149°	+28°	209°	-10°	3.7dB	313°K	392514	+104 Hz
2029-08-23	Thursday 14:00	157°	+31°	0 dB	0°	157°	+31°	216°	-9°	3.7dB	312°K	392585	+69 Hz
2029-08-23	Thursday 14:30	165°	+33°	0 dB	0°	165°	+33°	224°	-9°	3.7dB	311°K	392657	+33 Hz
2029-08-23	Thursday 15:00	174°	+34°	0 dB	0°	174°	+34°	231°	-9°	3.7dB	310°K	392728	-5 Hz
2029-08-23	Thursday 15:30	182°	+34°	0 dB	0°	182°	+34°	238°	-9°	3.7dB	309°K	392799	-44 Hz
2029-08-23	Thursday 16:00	191°	+33°	0 dB	0°	191°	+33°	245°	-9°	3.7dB	308°K	392870	-82 Hz
2029-08-23	Thursday 16:30	200°	+32°	0 dB	0°	200°	+32°	253°	-9°	3.6dB	307°K	392941	-120 Hz
2029-08-23	Thursday 17:00	208°	+30°	0 dB	0°	208°	+30°	260°	-9°	3.6dB	306°K	393012	-156 Hz
2029-08-23	Thursday 17:30	216°	+28°	0 dB	0°	216°	+28°	267°	-9°	3.6dB	305°K	393083	-189 Hz
2029-08-23	Thursday 18:00	223°	+24°	0 dB	0°	223°	+24°	274°	-9°	3.6dB	304°K	393154	-221 Hz
2029-08-23	Thursday 18:30	230°	+21°	0 dB	0°	230°	+21°	282°	-9°	3.6dB	303°K	393225	-249 Hz
2029-08-23	Thursday 19:00	236°	+17°	0 dB	0°	236°	+17°	289°	-8°	3.6dB	302°K	393295	-273 Hz
2029-08-23	Thursday 19:30	242°	+13°	0 dB	0°	242°	+13°	296°	-8°	3.6dB	301°K	393366	-293 Hz
2029-08-23	Thursday 20:00	248°	+8°	0 dB	0°	248°	+8°	304°	-8°	3.6dB	300°K	393437	-309 Hz
2029-08-23	Thursday 20:30	253°	+4°	0 dB	0°	253°	+4°	311°	-8°	3.6dB	299°K	393508	-320 Hz
2029-08-24	Friday 10:30	100°	+1°	0 dB	0°	100°	+1°	155°	-5°	3.1dB	255°K	395457	+263 Hz
2029-08-24	Friday 11:00	105°	+6°	0 dB	0°	105°	+6°	162°	-5°	3.1dB	253°K	395526	+257 Hz
2029-08-24	Friday 11:30	111°	+11°	0 dB	0°	111°	+11°	169°	-5°	3.0dB	251°K	395594	+245 Hz
2029-08-24	Friday 12:00	116°	+16°	0 dB	0°	116°	+16°	176°	-5°	3.0dB	250°K	395662	+229 Hz
2029-08-24	Friday 12:30	122°	+20°	0 dB	0°	122°	+20°	184°	-5°	3.0dB	248°K	395730	+209 Hz
2029-08-24	Friday 13:00	129°	+25°	0 dB	0°	129°	+25°	191°	-5°	3.0dB	246°K	395798	+184 Hz
2029-08-24	Friday 13:30	136°	+28°	0 dB	0°	136°	+28°	198°	-5°	3.0dB	245°K	395866	+156 Hz
2029-08-24	Friday 14:00	143°	+32°	0 dB	0°	143°	+32°	206°	-4°	2.9dB	243°K	395934	+124 Hz
2029-08-24	Friday 14:30	151°	+35°	0 dB	0°	151°	+35°	213°	-4°	3.0dB	243°K	396002	+90 Hz
2029-08-24	Friday 15:00	160°	+37°	0 dB	0°	160°	+37°	220°	-4°	3.0dB	243°K	396069	+53 Hz
2029-08-24	Friday 15:30	169°	+38°	0 dB	0°	169°	+38°	227°	-4°	3.0dB	243°K	396137	+15 Hz
2029-08-24	Friday 16:00	178°	+39°	0 dB	0°	178°	+39°	235°	-4°	3.0dB	243°K	396204	-24 Hz
2029-08-24	Friday 16:30	188°	+39°	0 dB	0°	188°	+39°	242°	-4°	3.0dB	243°K	396272	-63 Hz
2029-08-24	Friday 17:00	197°	+38°	0 dB	0°	197°	+38°	249°	-4°	3.0dB	243°K	396339	-102 Hz
2029-08-24	Friday 17:30	206°	+36°	0 dB	0°	206°	+36°	257°	-4°	3.0dB	243°K	396406	-139 Hz
2029-08-24	Friday 18:00	214°	+34°	0 dB	0°	214°	+34°	264°	-4°	3.0dB	243°K	396473	-174 Hz
2029-08-24	Friday 18:30	222°	+31°	0 dB	0°	222°	+31°	271°	-4°	3.0dB	243°K	396540	-207 Hz
2029-08-24	Friday 19:00	230°	+27°	0 dB	0°	230°	+27°	278°	-3°	3.0dB	243°K	396606	-237 Hz
2029-08-24	Friday 19:30	236°	+23°	0 dB	0°	236°	+23°	286°	-3°	3.0dB	243°K	396673	-263 Hz
2029-08-24	Friday 20:00	243°	+19°	0 dB	0°	243°	+19°	293°	-3°	3.0dB	243°K	396739	-286 Hz
2029-08-24	Friday 20:30	249°	+14°	0 dB	0°	249°	+14°	300°	-3°	3.0dB	243°K	396806	-303 Hz
2029-08-24	Friday 21:00	254°	+10°	0 dB	0°	254°	+10°	308°	-3°	3.0dB	243°K	396872	-317 Hz
2029-08-24	Friday 21:30	260°	+5°	0 dB	0°	260°	+5°	315°	-3°	3.0dB	243°K	396938	-325 Hz
2029-08-24	Friday 22:00	265°	-0°	0 dB	0°	265°	-0°	322°	-3°	3.0dB	243°K	397004	-329 Hz
2029-08-25	Saturday 11:00	094°	+3°	0 dB	0°	094°	+3°	152°	-0°	3.1dB	242°K	398666	+271 Hz
2029-08-25	Saturday 11:30	099°	+8°	0 dB	0°	099°	+8°	159°	+0°	3.1dB	242°K	398728	+266 Hz
2029-08-25	Saturday 12:00	105°	+13°	0 dB	0°	105°	+13°	166°	+0°	3.0dB	241°K	398789	+256 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-25	Saturday	12:30	110°	+18°	0 dB	0°	110°	+18°	173°	+0°	3.0dB	241°K	398851 +242 Hz
2029-08-25	Saturday	13:00	116°	+23°	0 dB	0°	116°	+23°	181°	+0°	3.1dB	241°K	398912 +223 Hz
2029-08-25	Saturday	13:30	123°	+27°	0 dB	0°	123°	+27°	188°	+0°	3.1dB	241°K	398973 +200 Hz
2029-08-25	Saturday	14:00	130°	+31°	0 dB	0°	130°	+31°	195°	+1°	3.1dB	241°K	399034 +173 Hz
2029-08-25	Saturday	14:30	137°	+35°	0 dB	0°	137°	+35°	203°	+1°	3.1dB	241°K	399094 +142 Hz
2029-08-25	Saturday	15:00	145°	+38°	0 dB	0°	145°	+38°	210°	+1°	3.1dB	241°K	399155 +109 Hz
2029-08-25	Saturday	15:30	154°	+41°	0 dB	0°	154°	+41°	217°	+1°	3.0dB	240°K	399215 +73 Hz
2029-08-25	Saturday	16:00	164°	+43°	0 dB	0°	164°	+43°	224°	+1°	3.1dB	240°K	399275 +35 Hz
2029-08-25	Saturday	16:30	174°	+44°	0 dB	0°	174°	+44°	232°	+1°	3.1dB	240°K	399335 -4 Hz
2029-08-25	Saturday	17:00	184°	+44°	0 dB	0°	184°	+44°	239°	+1°	3.1dB	240°K	399395 -43 Hz
2029-08-25	Saturday	17:30	194°	+44°	0 dB	0°	194°	+44°	246°	+1°	3.1dB	240°K	399454 -82 Hz
2029-08-25	Saturday	18:00	204°	+42°	0 dB	0°	204°	+42°	254°	+1°	3.1dB	240°K	399513 -120 Hz
2029-08-25	Saturday	18:30	213°	+40°	0 dB	0°	213°	+40°	261°	+1°	3.1dB	240°K	399572 -157 Hz
2029-08-25	Saturday	19:00	222°	+37°	0 dB	0°	222°	+37°	268°	+2°	3.1dB	240°K	399631 -191 Hz
2029-08-25	Saturday	19:30	230°	+33°	0 dB	0°	230°	+33°	275°	+2°	3.1dB	239°K	399690 -222 Hz
2029-08-25	Saturday	20:00	237°	+29°	0 dB	0°	237°	+29°	283°	+2°	3.1dB	239°K	399748 -250 Hz
2029-08-25	Saturday	20:30	244°	+25°	0 dB	0°	244°	+25°	290°	+2°	3.1dB	239°K	399806 -274 Hz
2029-08-25	Saturday	21:00	250°	+20°	0 dB	0°	250°	+20°	297°	+2°	3.1dB	239°K	399864 -294 Hz
2029-08-25	Saturday	21:30	256°	+15°	0 dB	0°	256°	+15°	305°	+2°	3.1dB	239°K	399922 -309 Hz
2029-08-25	Saturday	22:00	261°	+10°	0 dB	0°	261°	+10°	312°	+2°	3.1dB	239°K	399980 -319 Hz
2029-08-25	Saturday	22:30	267°	+6°	0 dB	0°	267°	+6°	319°	+2°	3.1dB	239°K	400037 -325 Hz
2029-08-25	Saturday	22:30	272°	+1°	0 dB	0°	272°	+1°	326°	+2°	3.1dB	239°K	400094 -326 Hz
2029-08-26	Sunday	11:30	088°	+5°	0 dB	0°	088°	+5°	149°	+5°	3.1dB	239°K	401445 +277 Hz
2029-08-26	Sunday	12:00	094°	+10°	0 dB	0°	094°	+10°	156°	+5°	3.1dB	239°K	401495 +274 Hz
2029-08-26	Sunday	12:30	099°	+15°	0 dB	0°	099°	+15°	163°	+5°	3.1dB	239°K	401546 +266 Hz
2029-08-26	Sunday	13:00	105°	+20°	0 dB	0°	105°	+20°	171°	+5°	3.1dB	239°K	401596 +254 Hz
2029-08-26	Sunday	13:30	110°	+25°	0 dB	0°	110°	+25°	178°	+5°	3.1dB	239°K	401646 +236 Hz
2029-08-26	Sunday	14:00	117°	+29°	0 dB	0°	117°	+29°	185°	+5°	3.1dB	239°K	401695 +215 Hz
2029-08-26	Sunday	14:30	123°	+34°	0 dB	0°	123°	+34°	192°	+6°	3.2dB	244°K	401745 +189 Hz
2029-08-26	Sunday	15:00	131°	+38°	0 dB	0°	131°	+38°	200°	+6°	3.2dB	244°K	401794 +160 Hz
2029-08-26	Sunday	15:30	139°	+42°	0 dB	0°	139°	+42°	207°	+6°	3.2dB	245°K	401843 +128 Hz
2029-08-26	Sunday	16:00	148°	+45°	0 dB	0°	148°	+45°	214°	+6°	3.2dB	245°K	401891 +92 Hz
2029-08-26	Sunday	16:30	158°	+47°	0 dB	0°	158°	+47°	222°	+6°	3.3dB	246°K	401939 +55 Hz
2029-08-26	Sunday	17:00	169°	+49°	0 dB	0°	169°	+49°	229°	+6°	3.3dB	246°K	401987 +17 Hz
2029-08-26	Sunday	17:30	180°	+49°	0 dB	0°	180°	+49°	236°	+6°	3.3dB	247°K	402035 -12 Hz
2029-08-26	Sunday	18:00	191°	+49°	0 dB	0°	191°	+49°	243°	+6°	3.3dB	247°K	402082 -61 Hz
2029-08-26	Sunday	18:30	202°	+48°	0 dB	0°	202°	+48°	251°	+6°	3.3dB	248°K	402129 -99 Hz
2029-08-26	Sunday	19:00	212°	+45°	0 dB	0°	212°	+45°	258°	+6°	3.3dB	248°K	402176 -136 Hz
2029-08-26	Sunday	19:30	222°	+42°	0 dB	0°	222°	+42°	265°	+7°	3.3dB	249°K	402222 -171 Hz
2029-08-26	Sunday	20:00	230°	+39°	0 dB	0°	230°	+39°	273°	+7°	3.3dB	249°K	402268 -203 Hz
2029-08-26	Sunday	20:30	238°	+35°	0 dB	0°	238°	+35°	280°	+7°	3.3dB	250°K	402314 -232 Hz
2029-08-26	Sunday	21:00	245°	+30°	0 dB	0°	245°	+30°	287°	+7°	3.3dB	251°K	402359 -258 Hz
2029-08-26	Sunday	21:30	251°	+26°	0 dB	0°	251°	+26°	294°	+7°	3.3dB	251°K	402404 -279 Hz
2029-08-26	Sunday	22:00	257°	+21°	0 dB	0°	257°	+21°	302°	+7°	3.4dB	252°K	402449 -296 Hz
2029-08-26	Sunday	22:30	263°	+16°	0 dB	0°	263°	+16°	309°	+7°	3.4dB	252°K	402494 -308 Hz
2029-08-26	Sunday	23:00	268°	+11°	0 dB	0°	268°	+11°	316°	+7°	3.4dB	253°K	402538 -315 Hz
2029-08-26	Sunday	23:30	273°	+6°	0 dB	0°	273°	+6°	324°	+7°	3.4dB	253°K	402582 -318 Hz
2029-08-27	Monday	00:00	279°	+1°	0 dB	0°	279°	+1°	331°	+7°	3.4dB	254°K	402626 -316 Hz
2029-08-27	Monday	11:30	078°	+1°	0 dB	0°	078°	+1°	139°	+10°	3.6dB	266°K	403536 +278 Hz
2029-08-27	Monday	12:00	083°	+6°	0 dB	0°	083°	+6°	146°	+10°	3.6dB	267°K	403572 +282 Hz
2029-08-27	Monday	12:30	088°	+11°	0 dB	0°	088°	+11°	153°	+10°	3.6dB	267°K	403607 +281 Hz
2029-08-27	Monday	13:00	093°	+16°	0 dB	0°	093°	+16°	160°	+10°	3.6dB	268°K	403642 +275 Hz
2029-08-27	Monday	13:30	099°	+21°	0 dB	0°	099°	+21°	168°	+10°	3.6dB	268°K	403676 +265 Hz
2029-08-27	Monday	14:00	104°	+26°	0 dB	0°	104°	+26°	175°	+10°	3.6dB	269°K	403710 +249 Hz
2029-08-27	Monday	14:30	110°	+31°	0 dB	0°	110°	+31°	182°	+10°	3.6dB	269°K	403743 +230 Hz
2029-08-27	Monday	15:00	117°	+36°	0 dB	0°	117°	+36°	190°	+10°	3.7dB	270°K	403777 +206 Hz
2029-08-27	Monday	15:30	124°	+40°	0 dB	0°	124°	+40°	197°	+10°	3.7dB	271°K	403809 +178 Hz
2029-08-27	Monday	16:00	132°	+45°	0 dB	0°	132°	+45°	204°	+11°	3.7dB	271°K	403842 +147 Hz
2029-08-27	Monday	16:30	142°	+48°	0 dB	0°	142°	+48°	211°	+11°	3.7dB	272°K	403874 +114 Hz
2029-08-27	Monday	17:00	152°	+51°	0 dB	0°	152°	+51°	219°	+11°	3.7dB	272°K	403906 +78 Hz
2029-08-27	Monday	17:30	163°	+53°	0 dB	0°	163°	+53°	226°	+11°	3.7dB	273°K	403937 +40 Hz
2029-08-27	Monday	18:00	175°	+54°	0 dB	0°	175°	+54°	233°	+11°	3.7dB	273°K	403968 +2 Hz
2029-08-27	Monday	18:30	188°	+54°	0 dB	0°	188°	+54°	241°	+11°	3.7dB	274°K	403998 +37 Hz
2029-08-27	Monday	19:00	200°	+53°	0 dB	0°	200°	+53°	248°	+11°	3.7dB	274°K	404029 -75 Hz
2029-08-27	Monday	19:30	211°	+51°	0 dB	0°	211°	+51°	255°	+11°	3.7dB	275°K	404058 -112 Hz
2029-08-27	Monday	20:00	221°	+48°	0 dB	0°	221°	+48°	262°	+11°	3.7dB	275°K	404088 -147 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-27	Monday	20:30	230°	+44°	0 dB	0°	230°	+44°	270°	+11°	3.8dB	276°K	404117 -180 Hz
2029-08-27	Monday	21:00	238°	+40°	0 dB	0°	238°	+40°	277°	+11°	3.8dB	277°K	404145 -210 Hz
2029-08-27	Monday	21:30	246°	+36°	0 dB	0°	246°	+36°	284°	+12°	3.8dB	277°K	404173 -237 Hz
2029-08-27	Monday	22:00	252°	+31°	0 dB	0°	252°	+31°	292°	+12°	3.8dB	278°K	404201 -259 Hz
2029-08-27	Monday	22:30	258°	+26°	0 dB	0°	258°	+26°	299°	+12°	3.8dB	278°K	404229 -278 Hz
2029-08-27	Monday	23:00	264°	+21°	0 dB	0°	264°	+21°	306°	+12°	3.8dB	279°K	404255 -291 Hz
2029-08-27	Monday	23:30	269°	+16°	0 dB	0°	269°	+16°	313°	+12°	3.8dB	279°K	404282 -300 Hz
2029-08-28	Tuesday	00:00	275°	+11°	0 dB	0°	275°	+11°	321°	+12°	3.8dB	280°K	404308 -305 Hz
2029-08-28	Tuesday	00:30	280°	+6°	0 dB	0°	280°	+6°	328°	+12°	3.8dB	280°K	404334 -304 Hz
2029-08-28	Tuesday	01:00	285°	+2°	0 dB	0°	285°	+2°	335°	+12°	3.8dB	281°K	404359 -299 Hz
2029-08-28	Tuesday	12:00	073°	+2°	0 dB	0°	073°	+2°	135°	+14°	4.0dB	293°K	404810 +281 Hz
2029-08-28	Tuesday	12:30	078°	+7°	0 dB	0°	078°	+7°	143°	+14°	4.0dB	294°K	404826 +287 Hz
2029-08-28	Tuesday	13:00	083°	+12°	0 dB	0°	083°	+12°	150°	+14°	4.0dB	294°K	404841 +288 Hz
2029-08-28	Tuesday	13:30	088°	+17°	0 dB	0°	088°	+17°	157°	+14°	4.0dB	295°K	404855 +284 Hz
2029-08-28	Tuesday	14:00	093°	+22°	0 dB	0°	093°	+22°	165°	+14°	4.0dB	295°K	404870 +276 Hz
2029-08-28	Tuesday	14:30	099°	+27°	0 dB	0°	099°	+27°	172°	+14°	4.0dB	296°K	404883 +263 Hz
2029-08-28	Tuesday	15:00	104°	+32°	0 dB	0°	104°	+32°	179°	+15°	4.0dB	296°K	404897 +245 Hz
2029-08-28	Tuesday	15:30	111°	+37°	0 dB	0°	111°	+37°	186°	+15°	4.0dB	296°K	404909 +223 Hz
2029-08-28	Tuesday	16:00	118°	+42°	0 dB	0°	118°	+42°	194°	+15°	4.0dB	296°K	404922 +198 Hz
2029-08-28	Tuesday	16:30	125°	+46°	0 dB	0°	125°	+46°	201°	+15°	4.1dB	297°K	404934 +169 Hz
2029-08-28	Tuesday	17:00	134°	+50°	0 dB	0°	134°	+50°	208°	+15°	4.1dB	297°K	404945 +137 Hz
2029-08-28	Tuesday	17:30	144°	+54°	0 dB	0°	144°	+54°	216°	+15°	4.1dB	297°K	404956 +102 Hz
2029-08-28	Tuesday	18:00	156°	+56°	0 dB	0°	156°	+56°	223°	+15°	4.1dB	298°K	404967 +66 Hz
2029-08-28	Tuesday	18:30	169°	+58°	0 dB	0°	169°	+58°	230°	+15°	4.1dB	298°K	404977 +29 Hz
2029-08-28	Tuesday	19:00	182°	+59°	0 dB	0°	182°	+59°	237°	+15°	4.1dB	298°K	404986 -9 Hz
2029-08-28	Tuesday	19:30	196°	+58°	0 dB	0°	196°	+58°	245°	+15°	4.1dB	298°K	404995 -47 Hz
2029-08-28	Tuesday	20:00	209°	+56°	0 dB	0°	209°	+56°	252°	+15°	4.1dB	299°K	405004 -84 Hz
2029-08-28	Tuesday	20:30	220°	+53°	0 dB	0°	220°	+53°	259°	+15°	4.1dB	299°K	405012 -120 Hz
2029-08-28	Tuesday	21:00	230°	+50°	0 dB	0°	230°	+50°	266°	+16°	4.1dB	299°K	405020 -153 Hz
2029-08-28	Tuesday	21:30	238°	+46°	0 dB	0°	238°	+46°	274°	+16°	4.1dB	300°K	405027 -184 Hz
2029-08-28	Tuesday	22:00	246°	+41°	0 dB	0°	246°	+41°	281°	+16°	4.1dB	300°K	405034 -211 Hz
2029-08-28	Tuesday	22:30	253°	+36°	0 dB	0°	253°	+36°	288°	+16°	4.1dB	300°K	405040 -235 Hz
2029-08-28	Tuesday	23:00	259°	+32°	0 dB	0°	259°	+32°	296°	+16°	4.1dB	300°K	405046 -255 Hz
2029-08-28	Tuesday	23:30	265°	+27°	0 dB	0°	265°	+27°	303°	+16°	4.1dB	301°K	405051 -270 Hz
2029-08-29	wednesday	00:00	270°	+22°	0 dB	0°	270°	+22°	310°	+16°	4.1dB	301°K	405056 -281 Hz
2029-08-29	wednesday	00:30	275°	+17°	0 dB	0°	275°	+17°	317°	+16°	4.1dB	301°K	405061 -287 Hz
2029-08-29	wednesday	01:00	280°	+12°	0 dB	0°	280°	+12°	325°	+16°	4.1dB	301°K	405065 -289 Hz
2029-08-29	wednesday	01:30	286°	+7°	0 dB	0°	286°	+7°	332°	+16°	4.1dB	302°K	405068 -286 Hz
2029-08-29	wednesday	02:00	291°	+2°	0 dB	0°	291°	+2°	339°	+16°	4.1dB	302°K	405071 -278 Hz
2029-08-29	wednesday	12:30	068°	+3°	0 dB	0°	068°	+3°	132°	+18°	4.4dB	324°K	405020 +284 Hz
2029-08-29	wednesday	13:00	073°	+7°	0 dB	0°	073°	+7°	139°	+18°	4.4dB	326°K	405012 +292 Hz
2029-08-29	wednesday	13:30	078°	+12°	0 dB	0°	078°	+12°	147°	+18°	4.4dB	327°K	405003 +295 Hz
2029-08-29	wednesday	14:00	083°	+17°	0 dB	0°	083°	+17°	154°	+18°	4.4dB	328°K	404994 +293 Hz
2029-08-29	wednesday	14:30	088°	+22°	0 dB	0°	088°	+22°	161°	+18°	4.4dB	330°K	404985 +287 Hz
2029-08-29	wednesday	15:00	093°	+28°	0 dB	0°	093°	+28°	168°	+18°	4.4dB	331°K	404975 +277 Hz
2029-08-29	wednesday	15:30	098°	+33°	0 dB	0°	098°	+33°	176°	+18°	4.5dB	333°K	404964 +261 Hz
2029-08-29	wednesday	16:00	104°	+38°	0 dB	0°	104°	+38°	183°	+18°	4.5dB	334°K	404953 +242 Hz
2029-08-29	wednesday	16:30	111°	+43°	0 dB	0°	111°	+43°	190°	+18°	4.5dB	336°K	404942 +219 Hz
2029-08-29	wednesday	17:00	118°	+47°	0 dB	0°	118°	+47°	197°	+18°	4.5dB	337°K	404930 +192 Hz
2029-08-29	wednesday	17:30	126°	+52°	0 dB	0°	126°	+52°	205°	+19°	4.5dB	339°K	404917 +162 Hz
2029-08-29	wednesday	18:00	136°	+56°	0 dB	0°	136°	+56°	212°	+19°	4.5dB	340°K	404904 +129 Hz
2029-08-29	wednesday	18:30	148°	+59°	0 dB	0°	148°	+59°	219°	+19°	4.6dB	342°K	404891 +94 Hz
2029-08-29	wednesday	19:00	161°	+61°	0 dB	0°	161°	+61°	227°	+19°	4.6dB	343°K	404877 +58 Hz
2029-08-29	wednesday	19:30	175°	+62°	0 dB	0°	175°	+62°	234°	+19°	4.6dB	344°K	404862 +21 Hz
2029-08-29	wednesday	20:00	190°	+62°	0 dB	0°	190°	+62°	241°	+19°	4.6dB	346°K	404847 -16 Hz
2029-08-29	wednesday	20:30	205°	+60°	0 dB	0°	205°	+60°	248°	+19°	4.6dB	347°K	404832 -53 Hz
2029-08-29	wednesday	21:00	217°	+58°	0 dB	0°	217°	+58°	256°	+19°	4.6dB	348°K	404815 -88 Hz
2029-08-29	wednesday	21:30	228°	+55°	0 dB	0°	228°	+55°	263°	+19°	4.6dB	349°K	404799 -122 Hz
2029-08-29	wednesday	22:00	238°	+51°	0 dB	0°	238°	+51°	270°	+19°	4.6dB	350°K	404782 -153 Hz
2029-08-29	wednesday	22:30	246°	+46°	0 dB	0°	246°	+46°	277°	+19°	4.6dB	350°K	404764 -182 Hz
2029-08-29	wednesday	23:00	253°	+41°	0 dB	0°	253°	+41°	285°	+19°	4.7dB	351°K	404746 -207 Hz
2029-08-29	wednesday	23:30	259°	+36°	0 dB	0°	259°	+36°	292°	+19°	4.7dB	352°K	404727 -228 Hz
2029-08-30	Thursday	00:00	265°	+32°	0 dB	0°	265°	+32°	299°	+19°	4.7dB	353°K	404708 -245 Hz
2029-08-30	Thursday	00:30	270°	+26°	0 dB	0°	270°	+26°	307°	+19°	4.7dB	353°K	404688 -258 Hz
2029-08-30	Thursday	01:00	275°	+21°	0 dB	0°	275°	+21°	314°	+20°	4.7dB	354°K	404668 -267 Hz
2029-08-30	Thursday	01:30	280°	+17°	0 dB	0°	280°	+17°	321°	+20°	4.7dB	355°K	404647 -271 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-08-30	Thursday	02:00	285°	+12°	0 dB	0°	285°	+12°	328°	+20°	4.7dB	355°K	404625	-270 Hz
2029-08-30	Thursday	02:30	290°	+7°	0 dB	0°	290°	+7°	336°	+20°	4.7dB	356°K	404604	-265 Hz
2029-08-30	Thursday	03:00	296°	+2°	0 dB	0°	296°	+2°	343°	+20°	4.7dB	357°K	404581	-255 Hz
2029-08-30	Thursday	13:00	063°	+2°	0 dB	0°	063°	+2°	128°	+21°	4.8dB	367°K	404022	+286 Hz
2029-08-30	Thursday	13:30	068°	+7°	0 dB	0°	068°	+7°	135°	+21°	4.8dB	366°K	403989	+296 Hz
2029-08-30	Thursday	14:00	073°	+12°	0 dB	0°	073°	+12°	143°	+21°	4.8dB	365°K	403955	+302 Hz
2029-08-30	Thursday	14:30	078°	+17°	0 dB	0°	078°	+17°	150°	+21°	4.8dB	364°K	403920	+303 Hz
2029-08-30	Thursday	15:00	083°	+22°	0 dB	0°	083°	+22°	157°	+21°	4.8dB	364°K	403885	+299 Hz
2029-08-30	Thursday	15:30	088°	+27°	0 dB	0°	088°	+27°	164°	+21°	4.7dB	363°K	403849	+291 Hz
2029-08-30	Thursday	16:00	093°	+32°	0 dB	0°	093°	+32°	172°	+21°	4.7dB	362°K	403813	+279 Hz
2029-08-30	Thursday	16:30	098°	+37°	0 dB	0°	098°	+37°	179°	+21°	4.7dB	361°K	403776	+262 Hz
2029-08-30	Thursday	17:00	104°	+42°	0 dB	0°	104°	+42°	186°	+21°	4.7dB	361°K	403739	+241 Hz
2029-08-30	Thursday	17:30	111°	+47°	0 dB	0°	111°	+47°	193°	+21°	4.7dB	360°K	403701	+217 Hz
2029-08-30	Thursday	18:00	119°	+52°	0 dB	0°	119°	+52°	201°	+21°	4.7dB	359°K	403663	+189 Hz
2029-08-30	Thursday	18:30	128°	+56°	0 dB	0°	128°	+56°	208°	+21°	4.7dB	358°K	403624	+158 Hz
2029-08-30	Thursday	19:00	139°	+60°	0 dB	0°	139°	+60°	215°	+21°	4.7dB	358°K	403585	+125 Hz
2029-08-30	Thursday	19:30	151°	+63°	0 dB	0°	151°	+63°	223°	+22°	4.7dB	357°K	403545	+90 Hz
2029-08-30	Thursday	20:00	166°	+64°	0 dB	0°	166°	+64°	230°	+22°	4.7dB	356°K	403504	+55 Hz
2029-08-30	Thursday	20:30	182°	+65°	0 dB	0°	182°	+65°	237°	+22°	4.6dB	355°K	403463	+18 Hz
2029-08-30	Thursday	21:00	198°	+64°	0 dB	0°	198°	+64°	244°	+22°	4.6dB	355°K	403422	-18 Hz
2029-08-30	Thursday	21:30	213°	+62°	0 dB	0°	213°	+62°	252°	+22°	4.6dB	354°K	403380	-54 Hz
2029-08-30	Thursday	22:00	225°	+59°	0 dB	0°	225°	+59°	259°	+22°	4.6dB	353°K	403337	-88 Hz
2029-08-30	Thursday	22:30	235°	+55°	0 dB	0°	235°	+55°	266°	+22°	4.6dB	352°K	403294	-120 Hz
2029-08-30	Thursday	23:00	244°	+51°	0 dB	0°	244°	+51°	273°	+22°	4.6dB	352°K	403250	-149 Hz
2029-08-30	Thursday	23:30	251°	+46°	0 dB	0°	251°	+46°	281°	+22°	4.6dB	351°K	403206	-176 Hz
2029-08-31	Friday	00:00	258°	+41°	0 dB	0°	258°	+41°	288°	+22°	4.6dB	350°K	403161	-199 Hz
2029-08-31	Friday	00:30	264°	+36°	0 dB	0°	264°	+36°	295°	+22°	4.6dB	349°K	403116	-218 Hz
2029-08-31	Friday	01:00	269°	+31°	0 dB	0°	269°	+31°	302°	+22°	4.6dB	349°K	403070	-234 Hz
2029-08-31	Friday	01:30	275°	+26°	0 dB	0°	275°	+26°	310°	+22°	4.5dB	348°K	403024	-245 Hz
2029-08-31	Friday	02:00	280°	+21°	0 dB	0°	280°	+21°	317°	+22°	4.5dB	348°K	402977	-251 Hz
2029-08-31	Friday	02:30	284°	+16°	0 dB	0°	284°	+16°	324°	+22°	4.6dB	349°K	402930	-253 Hz
2029-08-31	Friday	03:00	289°	+11°	0 dB	0°	289°	+11°	331°	+22°	4.6dB	350°K	402882	-250 Hz
2029-08-31	Friday	03:30	294°	+7°	0 dB	0°	294°	+7°	339°	+22°	4.6dB	350°K	402833	-243 Hz
2029-08-31	Friday	04:00	299°	+2°	0 dB	0°	299°	+2°	346°	+22°	4.6dB	351°K	402784	-232 Hz
2029-08-31	Friday	13:30	058°	+1°	0 dB	0°	058°	+1°	124°	+23°	4.7dB	366°K	401753	+288 Hz
2029-08-31	Friday	14:00	063°	+6°	0 dB	0°	063°	+6°	131°	+23°	4.7dB	367°K	401693	+300 Hz
2029-08-31	Friday	14:30	068°	+10°	0 dB	0°	068°	+10°	138°	+23°	4.7dB	367°K	401633	+308 Hz
2029-08-31	Friday	15:00	073°	+15°	0 dB	0°	073°	+15°	145°	+23°	4.7dB	368°K	401573	+312 Hz
2029-08-31	Friday	15:30	078°	+20°	0 dB	0°	078°	+20°	153°	+23°	4.7dB	369°K	401512	+311 Hz
2029-08-31	Friday	16:00	083°	+25°	0 dB	0°	083°	+25°	160°	+23°	4.7dB	370°K	401450	+306 Hz
2029-08-31	Friday	16:30	088°	+30°	0 dB	0°	088°	+30°	167°	+23°	4.7dB	371°K	401388	+296 Hz
2029-08-31	Friday	17:00	093°	+35°	0 dB	0°	093°	+35°	174°	+23°	4.7dB	372°K	401325	+282 Hz
2029-08-31	Friday	17:30	099°	+40°	0 dB	0°	099°	+40°	182°	+23°	4.7dB	373°K	401262	+264 Hz
2029-08-31	Friday	18:00	105°	+45°	0 dB	0°	105°	+45°	189°	+23°	4.7dB	374°K	401199	+242 Hz
2029-08-31	Friday	18:30	112°	+50°	0 dB	0°	112°	+50°	196°	+23°	4.7dB	375°K	401134	+217 Hz
2029-08-31	Friday	19:00	120°	+55°	0 dB	0°	120°	+55°	203°	+23°	4.8dB	376°K	401070	+189 Hz
2029-08-31	Friday	19:30	130°	+59°	0 dB	0°	130°	+59°	211°	+23°	4.8dB	378°K	401005	+158 Hz
2029-08-31	Friday	20:00	141°	+63°	0 dB	0°	141°	+63°	218°	+23°	4.8dB	379°K	400939	+124 Hz
2029-08-31	Friday	20:30	155°	+65°	0 dB	0°	155°	+65°	225°	+23°	4.8dB	380°K	400873	+90 Hz
2029-08-31	Friday	21:00	172°	+67°	0 dB	0°	172°	+67°	232°	+23°	4.8dB	381°K	400806	+54 Hz
2029-08-31	Friday	21:30	189°	+67°	0 dB	0°	189°	+67°	240°	+23°	4.8dB	382°K	400739	+18 Hz
2029-08-31	Friday	22:00	205°	+65°	0 dB	0°	205°	+65°	247°	+23°	4.8dB	383°K	400671	-17 Hz
2029-08-31	Friday	22:30	219°	+63°	0 dB	0°	219°	+63°	254°	+24°	4.8dB	384°K	400603	-52 Hz
2029-08-31	Friday	23:00	231°	+59°	0 dB	0°	231°	+59°	261°	+24°	4.8dB	385°K	400534	-85 Hz
2029-08-31	Friday	23:30	240°	+55°	0 dB	0°	240°	+55°	269°	+24°	4.8dB	386°K	400465	-116 Hz
2029-09-01	Saturday	00:00	249°	+50°	0 dB	0°	249°	+50°	276°	+24°	4.8dB	387°K	400395	-144 Hz
2029-09-01	Saturday	00:30	256°	+45°	0 dB	0°	256°	+45°	283°	+24°	4.8dB	389°K	400325	-169 Hz
2029-09-01	Saturday	01:00	262°	+40°	0 dB	0°	262°	+40°	290°	+24°	4.9dB	390°K	400254	-191 Hz
2029-09-01	Saturday	01:30	267°	+35°	0 dB	0°	267°	+35°	298°	+24°	4.9dB	391°K	400183	-208 Hz
2029-09-01	Saturday	02:00	273°	+30°	0 dB	0°	273°	+30°	305°	+24°	4.9dB	392°K	400111	-222 Hz
2029-09-01	Saturday	02:30	278°	+25°	0 dB	0°	278°	+25°	312°	+24°	4.9dB	393°K	400039	-231 Hz
2029-09-01	Saturday	03:00	283°	+20°	0 dB	0°	283°	+20°	319°	+24°	4.9dB	394°K	399966	-236 Hz
2029-09-01	Saturday	03:30	287°	+16°	0 dB	0°	287°	+16°	327°	+24°	4.9dB	395°K	399893	-236 Hz
2029-09-01	Saturday	04:00	292°	+11°	0 dB	0°	292°	+11°	334°	+24°	4.9dB	396°K	399819	-232 Hz
2029-09-01	Saturday	04:30	297°	+6°	0 dB	0°	297°	+6°	341°	+24°	4.9dB	397°K	399745	-224 Hz
2029-09-01	Saturday	05:00	302°	+2°	0 dB	0°	302°	+2°	348°	+24°	4.9dB	399°K	399670	-212 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-01	Saturday	14:30	059°	+4°	0 dB	0°	059°	+4°	126°	+24°	5.1dB	423°K	398159 +302 Hz
2029-09-01	Saturday	15:00	064°	+8°	0 dB	0°	064°	+8°	133°	+24°	5.1dB	424°K	398074 +313 Hz
2029-09-01	Saturday	15:30	069°	+13°	0 dB	0°	069°	+13°	141°	+24°	5.1dB	425°K	397990 +319 Hz
2029-09-01	Saturday	16:00	074°	+17°	0 dB	0°	074°	+17°	148°	+24°	5.1dB	427°K	397904 +322 Hz
2029-09-01	Saturday	16:30	079°	+22°	0 dB	0°	079°	+22°	155°	+24°	5.1dB	428°K	397819 +320 Hz
2029-09-01	Saturday	17:00	084°	+27°	0 dB	0°	084°	+27°	162°	+24°	5.1dB	429°K	397733 +313 Hz
2029-09-01	Saturday	17:30	089°	+32°	0 dB	0°	089°	+32°	170°	+24°	5.1dB	431°K	397646 +302 Hz
2029-09-01	Saturday	18:00	094°	+37°	0 dB	0°	094°	+37°	177°	+24°	5.1dB	432°K	397559 +287 Hz
2029-09-01	Saturday	18:30	100°	+42°	0 dB	0°	100°	+42°	184°	+24°	5.1dB	433°K	397472 +268 Hz
2029-09-01	Saturday	19:00	106°	+47°	0 dB	0°	106°	+47°	191°	+24°	5.1dB	434°K	397384 +246 Hz
2029-09-01	Saturday	19:30	113°	+52°	0 dB	0°	113°	+52°	198°	+24°	5.2dB	437°K	397296 +220 Hz
2029-09-01	Saturday	20:00	122°	+57°	0 dB	0°	122°	+57°	206°	+24°	5.2dB	439°K	397207 +190 Hz
2029-09-01	Saturday	20:30	132°	+61°	0 dB	0°	132°	+61°	213°	+24°	5.2dB	442°K	397118 +159 Hz
2029-09-01	Saturday	21:00	145°	+64°	0 dB	0°	145°	+64°	220°	+24°	5.2dB	444°K	397028 +126 Hz
2029-09-01	Saturday	21:30	160°	+67°	0 dB	0°	160°	+67°	227°	+24°	5.2dB	447°K	396938 +91 Hz
2029-09-01	Saturday	22:00	177°	+68°	0 dB	0°	177°	+68°	235°	+24°	5.2dB	449°K	396847 +55 Hz
2029-09-01	Saturday	22:30	194°	+67°	0 dB	0°	194°	+67°	242°	+24°	5.3dB	451°K	396757 +20 Hz
2029-09-01	Saturday	23:00	210°	+65°	0 dB	0°	210°	+65°	249°	+24°	5.3dB	454°K	396665 -16 Hz
2029-09-01	Saturday	23:30	224°	+62°	0 dB	0°	224°	+62°	256°	+24°	5.3dB	456°K	396573 -50 Hz
2029-09-02	Sunday	00:00	235°	+58°	0 dB	0°	235°	+58°	264°	+24°	5.3dB	459°K	396481 -82 Hz
2029-09-02	Sunday	00:30	244°	+54°	0 dB	0°	244°	+54°	271°	+24°	5.3dB	461°K	396388 -112 Hz
2029-09-02	Sunday	01:00	251°	+49°	0 dB	0°	251°	+49°	278°	+24°	5.3dB	464°K	396295 -139 Hz
2029-09-02	Sunday	01:30	258°	+44°	0 dB	0°	258°	+44°	285°	+24°	5.4dB	466°K	396202 -163 Hz
2029-09-02	Sunday	02:00	264°	+39°	0 dB	0°	264°	+39°	293°	+24°	5.4dB	469°K	396108 -184 Hz
2029-09-02	Sunday	02:30	269°	+34°	0 dB	0°	269°	+34°	300°	+24°	5.4dB	471°K	396014 -200 Hz
2029-09-02	Sunday	03:00	275°	+29°	0 dB	0°	275°	+29°	307°	+24°	5.4dB	474°K	395919 -213 Hz
2029-09-02	Sunday	03:30	279°	+24°	0 dB	0°	279°	+24°	314°	+24°	5.4dB	476°K	395824 -221 Hz
2029-09-02	Sunday	04:00	284°	+19°	0 dB	0°	284°	+19°	322°	+24°	5.4dB	478°K	395728 -224 Hz
2029-09-02	Sunday	04:30	289°	+14°	0 dB	0°	289°	+14°	329°	+24°	5.5dB	481°K	395632 -224 Hz
2029-09-02	Sunday	05:00	294°	+10°	0 dB	0°	294°	+10°	336°	+24°	5.5dB	483°K	395536 -219 Hz
2029-09-02	Sunday	05:30	299°	+5°	0 dB	0°	299°	+5°	343°	+24°	5.5dB	486°K	395439 -209 Hz
2029-09-02	Sunday	06:00	304°	+1°	0 dB	0°	304°	+1°	350°	+24°	5.5dB	488°K	395342 -196 Hz
2029-09-02	Sunday	15:00	056°	+0°	0 dB	0°	056°	+0°	121°	+24°	5.5dB	500°K	393526 +301 Hz
2029-09-02	Sunday	15:30	061°	+5°	0 dB	0°	061°	+5°	128°	+24°	5.5dB	500°K	393422 +315 Hz
2029-09-02	Sunday	16:00	066°	+9°	0 dB	0°	066°	+9°	135°	+24°	5.5dB	500°K	393317 +325 Hz
2029-09-02	Sunday	16:30	071°	+14°	0 dB	0°	071°	+14°	142°	+24°	5.5dB	500°K	393212 +330 Hz
2029-09-02	Sunday	17:00	075°	+19°	0 dB	0°	075°	+19°	150°	+24°	5.5dB	500°K	393107 +332 Hz
2029-09-02	Sunday	17:30	080°	+23°	0 dB	0°	080°	+23°	157°	+24°	5.5dB	500°K	393001 +329 Hz
2029-09-02	Sunday	18:00	085°	+28°	0 dB	0°	085°	+28°	164°	+24°	5.5dB	500°K	392895 +321 Hz
2029-09-02	Sunday	18:30	090°	+33°	0 dB	0°	090°	+33°	171°	+24°	5.5dB	500°K	392788 +309 Hz
2029-09-02	Sunday	19:00	096°	+38°	0 dB	0°	096°	+38°	179°	+24°	5.5dB	500°K	392682 +293 Hz
2029-09-02	Sunday	19:30	102°	+43°	0 dB	0°	102°	+43°	186°	+24°	5.5dB	500°K	392574 +273 Hz
2029-09-02	Sunday	20:00	108°	+48°	0 dB	0°	108°	+48°	193°	+24°	5.5dB	500°K	392467 +249 Hz
2029-09-02	Sunday	20:30	116°	+53°	0 dB	0°	116°	+53°	200°	+24°	5.5dB	500°K	392359 +222 Hz
2029-09-02	Sunday	21:00	125°	+57°	0 dB	0°	125°	+57°	208°	+24°	5.5dB	500°K	392251 +192 Hz
2029-09-02	Sunday	21:30	136°	+61°	0 dB	0°	136°	+61°	215°	+24°	5.4dB	500°K	392143 +160 Hz
2029-09-02	Sunday	22:00	149°	+64°	0 dB	0°	149°	+64°	222°	+24°	5.4dB	497°K	392034 +126 Hz
2029-09-02	Sunday	22:30	164°	+66°	0 dB	0°	164°	+66°	229°	+24°	5.4dB	493°K	391925 +91 Hz
2029-09-02	Sunday	23:00	181°	+67°	0 dB	0°	181°	+67°	237°	+24°	5.4dB	490°K	391816 +55 Hz
2029-09-02	Sunday	23:30	198°	+66°	0 dB	0°	198°	+66°	244°	+24°	5.3dB	487°K	391706 +20 Hz
2029-09-03	Monday	00:00	213°	+64°	0 dB	0°	213°	+64°	251°	+24°	5.3dB	483°K	391596 -16 Hz
2029-09-03	Monday	00:30	226°	+61°	0 dB	0°	226°	+61°	258°	+23°	5.3dB	480°K	391486 -49 Hz
2029-09-03	Monday	01:00	236°	+57°	0 dB	0°	236°	+57°	265°	+23°	5.2dB	477°K	391375 -81 Hz
2029-09-03	Monday	01:30	245°	+52°	0 dB	0°	245°	+52°	273°	+23°	5.2dB	474°K	391265 -111 Hz
2029-09-03	Monday	02:00	252°	+47°	0 dB	0°	252°	+47°	280°	+23°	5.2dB	470°K	391153 -138 Hz
2029-09-03	Monday	02:30	259°	+43°	0 dB	0°	259°	+43°	287°	+23°	5.1dB	467°K	391042 -161 Hz
2029-09-03	Monday	03:00	265°	+38°	0 dB	0°	265°	+38°	294°	+23°	5.1dB	464°K	390930 -181 Hz
2029-09-03	Monday	03:30	270°	+32°	0 dB	0°	270°	+32°	302°	+23°	5.1dB	460°K	390818 -197 Hz
2029-09-03	Monday	04:00	275°	+27°	0 dB	0°	275°	+27°	309°	+23°	5.0dB	457°K	390706 -208 Hz
2029-09-03	Monday	04:30	280°	+22°	0 dB	0°	280°	+22°	316°	+23°	5.0dB	454°K	390593 -215 Hz
2029-09-03	Monday	05:00	285°	+17°	0 dB	0°	285°	+17°	323°	+23°	5.0dB	450°K	390481 -218 Hz
2029-09-03	Monday	05:30	290°	+13°	0 dB	0°	290°	+13°	331°	+23°	4.9dB	447°K	390367 -217 Hz
2029-09-03	Monday	06:00	294°	+8°	0 dB	0°	294°	+8°	338°	+23°	4.9dB	444°K	390254 -211 Hz
2029-09-03	Monday	06:30	299°	+3°	0 dB	0°	299°	+3°	345°	+23°	4.9dB	440°K	390140 -200 Hz
2029-09-03	Monday	16:00	058°	+0°	0 dB	0°	058°	+0°	123°	+22°	4.4dB	395°K	387935 +313 Hz
2029-09-03	Monday	16:30	063°	+5°	0 dB	0°	063°	+5°	130°	+22°	4.3dB	393°K	387817 +326 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-03	Monday	17:00	068°	+9°	0 dB	0°	068°	+9°	137°	+22°	4.3dB	392°K	387699 +335 Hz
2029-09-03	Monday	17:30	073°	+14°	0 dB	0°	073°	+14°	144°	+22°	4.3dB	390°K	387580 +340 Hz
2029-09-03	Monday	18:00	078°	+19°	0 dB	0°	078°	+19°	151°	+22°	4.3dB	388°K	387461 +340 Hz
2029-09-03	Monday	18:30	083°	+24°	0 dB	0°	083°	+24°	159°	+22°	4.3dB	387°K	387342 +336 Hz
2029-09-03	Monday	19:00	088°	+29°	0 dB	0°	088°	+29°	166°	+22°	4.2dB	385°K	387223 +327 Hz
2029-09-03	Monday	19:30	093°	+34°	0 dB	0°	093°	+34°	173°	+22°	4.2dB	383°K	387104 +314 Hz
2029-09-03	Monday	20:00	099°	+39°	0 dB	0°	099°	+39°	180°	+22°	4.2dB	382°K	386984 +297 Hz
2029-09-03	Monday	20:30	105°	+43°	0 dB	0°	105°	+43°	188°	+22°	4.2dB	380°K	386865 +276 Hz
2029-09-03	Monday	21:00	112°	+48°	0 dB	0°	112°	+48°	195°	+22°	4.1dB	378°K	386745 +251 Hz
2029-09-03	Monday	21:30	120°	+53°	0 dB	0°	120°	+53°	202°	+22°	4.1dB	377°K	386625 +223 Hz
2029-09-03	Monday	22:00	129°	+57°	0 dB	0°	129°	+57°	209°	+22°	4.1dB	375°K	386505 +192 Hz
2029-09-03	Monday	22:30	140°	+60°	0 dB	0°	140°	+60°	217°	+22°	4.1dB	373°K	386384 +159 Hz
2029-09-03	Monday	23:00	154°	+63°	0 dB	0°	154°	+63°	224°	+22°	4.1dB	372°K	386264 +124 Hz
2029-09-03	Monday	23:30	169°	+65°	0 dB	0°	169°	+65°	231°	+22°	4.0dB	370°K	386143 +88 Hz
2029-09-04	Tuesday	00:00	185°	+65°	0 dB	0°	185°	+65°	238°	+22°	4.0dB	368°K	386023 +52 Hz
2029-09-04	Tuesday	00:30	201°	+64°	0 dB	0°	201°	+64°	245°	+22°	4.0dB	366°K	385902 +16 Hz
2029-09-04	Tuesday	01:00	215°	+61°	0 dB	0°	215°	+61°	253°	+22°	3.9dB	363°K	385781 -20 Hz
2029-09-04	Tuesday	01:30	226°	+58°	0 dB	0°	226°	+58°	260°	+22°	3.9dB	361°K	385660 -54 Hz
2029-09-04	Tuesday	02:00	236°	+54°	0 dB	0°	236°	+54°	267°	+21°	3.9dB	358°K	385538 -86 Hz
2029-09-04	Tuesday	02:30	245°	+50°	0 dB	0°	245°	+50°	274°	+21°	3.9dB	356°K	385417 -115 Hz
2029-09-04	Tuesday	03:00	252°	+45°	0 dB	0°	252°	+45°	282°	+21°	3.8dB	353°K	385295 -142 Hz
2029-09-04	Tuesday	03:30	258°	+40°	0 dB	0°	258°	+40°	289°	+21°	3.8dB	351°K	385174 -165 Hz
2029-09-04	Tuesday	04:00	264°	+35°	0 dB	0°	264°	+35°	296°	+21°	3.8dB	348°K	385052 -184 Hz
2029-09-04	Tuesday	04:30	269°	+30°	0 dB	0°	269°	+30°	303°	+21°	3.7dB	346°K	384930 -199 Hz
2029-09-04	Tuesday	05:00	274°	+25°	0 dB	0°	274°	+25°	311°	+21°	3.7dB	343°K	384808 -210 Hz
2029-09-04	Tuesday	05:30	279°	+20°	0 dB	0°	279°	+20°	318°	+21°	3.7dB	341°K	384686 -217 Hz
2029-09-04	Tuesday	06:00	284°	+15°	0 dB	0°	284°	+15°	325°	+21°	3.6dB	338°K	384564 -219 Hz
2029-09-04	Tuesday	06:30	289°	+10°	0 dB	0°	289°	+10°	332°	+21°	3.6dB	336°K	384442 -216 Hz
2029-09-04	Tuesday	07:00	294°	+5°	0 dB	0°	294°	+5°	340°	+21°	3.6dB	333°K	384320 -209 Hz
2029-09-04	Tuesday	07:30	299°	+1°	0 dB	0°	299°	+1°	347°	+21°	3.5dB	331°K	384197 -198 Hz
2029-09-04	Tuesday	17:30	066°	+3°	0 dB	0°	066°	+3°	131°	+20°	2.8dB	276°K	381739 +335 Hz
2029-09-04	Tuesday	18:00	071°	+8°	0 dB	0°	071°	+8°	139°	+19°	2.7dB	273°K	381615 +343 Hz
2029-09-04	Tuesday	18:30	076°	+13°	0 dB	0°	076°	+13°	146°	+19°	2.7dB	270°K	381492 +347 Hz
2029-09-04	Tuesday	19:00	081°	+18°	0 dB	0°	081°	+18°	153°	+19°	2.6dB	267°K	381369 +346 Hz
2029-09-04	Tuesday	19:30	086°	+23°	0 dB	0°	086°	+23°	160°	+19°	2.6dB	264°K	381246 +341 Hz
2029-09-04	Tuesday	20:00	092°	+28°	0 dB	0°	092°	+28°	168°	+19°	2.5dB	261°K	381123 +331 Hz
2029-09-04	Tuesday	20:30	097°	+33°	0 dB	0°	097°	+33°	175°	+19°	2.5dB	258°K	381000 +316 Hz
2029-09-04	Tuesday	21:00	103°	+38°	0 dB	0°	103°	+38°	182°	+19°	2.4dB	255°K	380877 +298 Hz
2029-09-04	Tuesday	21:30	109°	+42°	0 dB	0°	109°	+42°	189°	+19°	2.4dB	253°K	380754 +275 Hz
2029-09-04	Tuesday	22:00	117°	+47°	0 dB	0°	117°	+47°	197°	+19°	2.4dB	250°K	380631 +249 Hz
2029-09-04	Tuesday	22:30	125°	+51°	0 dB	0°	125°	+51°	204°	+19°	2.3dB	247°K	380508 +220 Hz
2029-09-04	Tuesday	23:00	135°	+55°	0 dB	0°	135°	+55°	211°	+19°	2.3dB	244°K	380385 +187 Hz
2029-09-04	Tuesday	23:30	146°	+58°	0 dB	0°	146°	+58°	218°	+19°	2.2dB	241°K	380262 +153 Hz
2029-09-05	wednesday	00:00	159°	+61°	0 dB	0°	159°	+61°	226°	+19°	2.2dB	238°K	380139 +117 Hz
2029-09-05	wednesday	00:30	173°	+62°	0 dB	0°	173°	+62°	233°	+19°	2.1dB	235°K	380017 +80 Hz
2029-09-05	wednesday	01:00	188°	+62°	0 dB	0°	188°	+62°	240°	+18°	2.1dB	232°K	379894 +43 Hz
2029-09-05	wednesday	01:30	202°	+60°	0 dB	0°	202°	+60°	247°	+18°	2.0dB	229°K	379771 +6 Hz
2029-09-05	wednesday	02:00	215°	+58°	0 dB	0°	215°	+58°	254°	+18°	2.0dB	226°K	379649 -30 Hz
2029-09-05	wednesday	02:30	226°	+54°	0 dB	0°	226°	+54°	262°	+18°	1.9dB	225°K	379526 -65 Hz
2029-09-05	wednesday	03:00	235°	+50°	0 dB	0°	235°	+50°	269°	+18°	1.9dB	224°K	379404 -97 Hz
2029-09-05	wednesday	03:30	243°	+46°	0 dB	0°	243°	+46°	276°	+18°	1.9dB	223°K	379282 -127 Hz
2029-09-05	wednesday	04:00	250°	+41°	0 dB	0°	250°	+41°	283°	+18°	1.9dB	222°K	379160 -153 Hz
2029-09-05	wednesday	04:30	257°	+36°	0 dB	0°	257°	+36°	291°	+18°	1.9dB	221°K	379037 -176 Hz
2029-09-05	wednesday	05:00	262°	+31°	0 dB	0°	262°	+31°	298°	+18°	1.8dB	220°K	378915 -194 Hz
2029-09-05	wednesday	05:30	268°	+26°	0 dB	0°	268°	+26°	305°	+18°	1.8dB	219°K	378794 -209 Hz
2029-09-05	wednesday	06:00	273°	+21°	0 dB	0°	273°	+21°	312°	+18°	1.8dB	218°K	378672 -219 Hz
2029-09-05	wednesday	06:30	278°	+16°	0 dB	0°	278°	+16°	320°	+18°	1.8dB	217°K	378550 -224 Hz
2029-09-05	wednesday	07:00	283°	+11°	0 dB	0°	283°	+11°	327°	+18°	1.8dB	216°K	378429 -225 Hz
2029-09-05	wednesday	07:30	288°	+6°	0 dB	0°	288°	+6°	334°	+17°	1.7dB	215°K	378307 -222 Hz
2029-09-05	wednesday	08:00	293°	+1°	0 dB	0°	293°	+1°	341°	+17°	1.7dB	214°K	378186 -214 Hz
2029-09-05	wednesday	18:30	070°	+2°	0 dB	0°	070°	+2°	133°	+15°	1.3dB	193°K	375675 +339 Hz
2029-09-05	wednesday	19:00	075°	+6°	0 dB	0°	075°	+6°	141°	+15°	1.2dB	192°K	375557 +346 Hz
2029-09-05	wednesday	19:30	080°	+11°	0 dB	0°	080°	+11°	148°	+15°	1.2dB	191°K	375440 +349 Hz
2029-09-05	wednesday	20:00	086°	+16°	0 dB	0°	086°	+16°	155°	+15°	1.2dB	190°K	375323 +347 Hz
2029-09-05	wednesday	20:30	091°	+21°	0 dB	0°	091°	+21°	162°	+15°	1.2dB	189°K	375206 +340 Hz
2029-09-05	wednesday	21:00	096°	+26°	0 dB	0°	096°	+26°	169°	+15°	1.1dB	188°K	375090 +328 Hz

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Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-05	wednesday21:30	102°	+31°	0 dB	0°	102°	+31°	177°	+15°	1.1dB	187°K	374973	+313 Hz
2029-09-05	wednesday22:00	108°	+36°	0 dB	0°	108°	+36°	184°	+15°	1.1dB	186°K	374857	+292 Hz
2029-09-05	wednesday22:30	115°	+40°	0 dB	0°	115°	+40°	191°	+15°	1.1dB	185°K	374741	+268 Hz
2029-09-05	wednesday23:00	123°	+45°	0 dB	0°	123°	+45°	198°	+15°	1.0dB	184°K	374626	+241 Hz
2029-09-05	wednesday23:30	131°	+49°	0 dB	0°	131°	+49°	206°	+15°	1.0dB	183°K	374511	+210 Hz
2029-09-06	Thursday 00:00	141°	+52°	0 dB	0°	141°	+52°	213°	+14°	1.0dB	182°K	374396	+176 Hz
2029-09-06	Thursday 00:30	152°	+55°	0 dB	0°	152°	+55°	220°	+14°	1.0dB	181°K	374281	+140 Hz
2029-09-06	Thursday 01:00	164°	+57°	0 dB	0°	164°	+57°	227°	+14°	1.0dB	180°K	374166	+103 Hz
2029-09-06	Thursday 01:30	177°	+57°	0 dB	0°	177°	+57°	235°	+14°	0.9dB	179°K	374052	+65 Hz
2029-09-06	Thursday 02:00	191°	+57°	0 dB	0°	191°	+57°	242°	+14°	0.9dB	178°K	373938	+27 Hz
2029-09-06	Thursday 02:30	203°	+55°	0 dB	0°	203°	+55°	249°	+14°	0.9dB	178°K	373824	-11 Hz
2029-09-06	Thursday 03:00	214°	+53°	0 dB	0°	214°	+53°	256°	+14°	0.9dB	177°K	373711	-48 Hz
2029-09-06	Thursday 03:30	225°	+50°	0 dB	0°	225°	+50°	264°	+14°	0.9dB	176°K	373598	-82 Hz
2029-09-06	Thursday 04:00	233°	+46°	0 dB	0°	233°	+46°	271°	+14°	0.8dB	175°K	373485	-115 Hz
2029-09-06	Thursday 04:30	241°	+41°	0 dB	0°	241°	+41°	278°	+14°	0.8dB	174°K	373373	-144 Hz
2029-09-06	Thursday 05:00	248°	+37°	0 dB	0°	248°	+37°	285°	+13°	0.8dB	174°K	373261	-170 Hz
2029-09-06	Thursday 05:30	254°	+32°	0 dB	0°	254°	+32°	293°	+13°	0.8dB	174°K	373149	-193 Hz
2029-09-06	Thursday 06:00	260°	+27°	0 dB	0°	260°	+27°	300°	+13°	0.8dB	174°K	373037	-211 Hz
2029-09-06	Thursday 06:30	266°	+22°	0 dB	0°	266°	+22°	307°	+13°	0.8dB	175°K	372926	-224 Hz
2029-09-06	Thursday 07:00	271°	+17°	0 dB	0°	271°	+17°	314°	+13°	0.8dB	175°K	372815	-233 Hz
2029-09-06	Thursday 07:30	276°	+11°	0 dB	0°	276°	+11°	322°	+13°	0.8dB	175°K	372705	-238 Hz
2029-09-06	Thursday 08:00	281°	+6°	0 dB	0°	281°	+6°	329°	+13°	0.8dB	176°K	372594	-237 Hz
2029-09-06	Thursday 08:30	286°	+1°	0 dB	0°	286°	+1°	336°	+13°	0.8dB	176°K	372484	-233 Hz
2029-09-06	Thursday 20:00	080°	+4°	0 dB	0°	080°	+4°	143°	+10°	0.8dB	183°K	370058	+343 Hz
2029-09-06	Thursday 20:30	086°	+9°	0 dB	0°	086°	+9°	150°	+10°	0.8dB	183°K	369958	+344 Hz
2029-09-06	Thursday 21:00	091°	+14°	0 dB	0°	091°	+14°	157°	+10°	0.8dB	183°K	369857	+340 Hz
2029-09-06	Thursday 21:30	096°	+19°	0 dB	0°	096°	+19°	164°	+10°	0.8dB	183°K	369758	+332 Hz
2029-09-06	Thursday 22:00	102°	+24°	0 dB	0°	102°	+24°	171°	+10°	0.8dB	184°K	369658	+319 Hz
2029-09-06	Thursday 22:30	108°	+29°	0 dB	0°	108°	+29°	179°	+10°	0.8dB	184°K	369559	+302 Hz
2029-09-06	Thursday 23:00	114°	+33°	0 dB	0°	114°	+33°	186°	+10°	0.8dB	184°K	369461	+280 Hz
2029-09-06	Thursday 23:30	121°	+38°	0 dB	0°	121°	+38°	193°	+10°	0.8dB	184°K	369363	+254 Hz
2029-09-07	Friday 00:00	129°	+42°	0 dB	0°	129°	+42°	200°	+9°	0.8dB	184°K	369265	+225 Hz
2029-09-07	Friday 00:30	138°	+45°	0 dB	0°	138°	+45°	208°	+9°	0.8dB	184°K	369168	+192 Hz
2029-09-07	Friday 01:00	147°	+48°	0 dB	0°	147°	+48°	215°	+9°	0.8dB	184°K	369072	+157 Hz
2029-09-07	Friday 01:30	158°	+50°	0 dB	0°	158°	+50°	222°	+9°	0.8dB	185°K	368976	+120 Hz
2029-09-07	Friday 02:00	169°	+52°	0 dB	0°	169°	+52°	229°	+9°	0.8dB	185°K	368880	+82 Hz
2029-09-07	Friday 02:30	181°	+52°	0 dB	0°	181°	+52°	237°	+9°	0.8dB	185°K	368785	+43 Hz
2029-09-07	Friday 03:00	193°	+51°	0 dB	0°	193°	+51°	244°	+9°	0.8dB	185°K	368690	+4 Hz
2029-09-07	Friday 03:30	204°	+50°	0 dB	0°	204°	+50°	251°	+9°	0.8dB	185°K	368596	-34 Hz
2029-09-07	Friday 04:00	214°	+47°	0 dB	0°	214°	+47°	258°	+8°	0.8dB	185°K	368502	-71 Hz
2029-09-07	Friday 04:30	223°	+44°	0 dB	0°	223°	+44°	266°	+8°	0.8dB	186°K	368409	-106 Hz
2029-09-07	Friday 05:00	231°	+40°	0 dB	0°	231°	+40°	273°	+8°	0.8dB	186°K	368316	-138 Hz
2029-09-07	Friday 05:30	239°	+36°	0 dB	0°	239°	+36°	280°	+8°	0.8dB	186°K	368224	-167 Hz
2029-09-07	Friday 06:00	246°	+31°	0 dB	0°	246°	+31°	287°	+8°	0.8dB	186°K	368132	-192 Hz
2029-09-07	Friday 06:30	252°	+26°	0 dB	0°	252°	+26°	295°	+8°	0.8dB	186°K	368041	-214 Hz
2029-09-07	Friday 07:00	258°	+21°	0 dB	0°	258°	+21°	302°	+8°	0.8dB	186°K	367950	-231 Hz
2029-09-07	Friday 07:30	263°	+16°	0 dB	0°	263°	+16°	309°	+8°	0.8dB	187°K	367860	-243 Hz
2029-09-07	Friday 08:00	268°	+11°	0 dB	0°	268°	+11°	316°	+8°	0.8dB	187°K	367770	-251 Hz
2029-09-07	Friday 08:30	273°	+6°	0 dB	0°	273°	+6°	324°	+7°	0.8dB	187°K	367681	-254 Hz
2029-09-07	Friday 09:00	279°	+1°	0 dB	0°	279°	+1°	331°	+7°	0.8dB	188°K	367592	-253 Hz
2029-09-07	Friday 21:00	086°	+1°	0 dB	0°	086°	+1°	145°	+4°	0.8dB	195°K	365627	+332 Hz
2029-09-07	Friday 21:30	091°	+6°	0 dB	0°	091°	+6°	152°	+4°	0.8dB	196°K	365552	+332 Hz
2029-09-07	Friday 22:00	097°	+11°	0 dB	0°	097°	+11°	159°	+4°	0.8dB	196°K	365478	+327 Hz
2029-09-07	Friday 22:30	102°	+16°	0 dB	0°	102°	+16°	166°	+4°	0.8dB	196°K	365404	+317 Hz
2029-09-07	Friday 23:00	108°	+21°	0 dB	0°	108°	+21°	174°	+4°	0.8dB	197°K	365332	+302 Hz
2029-09-07	Friday 23:30	114°	+25°	0 dB	0°	114°	+25°	181°	+4°	0.8dB	SUN!	365259	+283 Hz
2029-09-08	Saturday 00:00	121°	+30°	0 dB	0°	121°	+30°	188°	+4°	0.8dB	SUN!	365188	+260 Hz
2029-09-08	Saturday 00:30	128°	+34°	0 dB	0°	128°	+34°	195°	+4°	0.8dB	SUN!	365116	+232 Hz
2029-09-08	Saturday 01:00	135°	+38°	0 dB	0°	135°	+38°	203°	+3°	0.8dB	SUN!	365046	+202 Hz
2029-09-08	Saturday 01:30	144°	+41°	0 dB	0°	144°	+41°	210°	+3°	0.8dB	SUN!	364976	+168 Hz
2029-09-08	Saturday 02:00	153°	+43°	0 dB	0°	153°	+43°	217°	+3°	0.9dB	SUN!	364907	+132 Hz
2029-09-08	Saturday 02:30	163°	+45°	0 dB	0°	163°	+45°	224°	+3°	0.8dB	SUN!	364838	+94 Hz
2029-09-08	Saturday 03:00	173°	+46°	0 dB	0°	173°	+46°	232°	+3°	0.8dB	SUN!	364770	+55 Hz
2029-09-08	Saturday 03:30	184°	+46°	0 dB	0°	184°	+46°	239°	+3°	0.9dB	SUN!	364703	+16 Hz
2029-09-08	Saturday 04:00	194°	+45°	0 dB	0°	194°	+45°	246°	+3°	0.9dB	SUN!	364636	-23 Hz
2029-09-08	Saturday 04:30	204°	+43°	0 dB	0°	204°	+43°	253°	+3°	0.9dB	SUN!	364570	-61 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-08	Saturday	05:00	213°	+41°	0 dB	0°	213°	+41°	260°	+2°	0.9dB	SUN!	364504 -98 Hz
2029-09-08	Saturday	05:30	222°	+37°	0 dB	0°	222°	+37°	268°	+2°	0.9dB	SUN!	364439 -132 Hz
2029-09-08	Saturday	06:00	230°	+34°	0 dB	0°	230°	+34°	275°	+2°	0.9dB	SUN!	364375 -164 Hz
2029-09-08	Saturday	06:30	237°	+30°	0 dB	0°	237°	+30°	282°	+2°	0.9dB	SUN!	364312 -192 Hz
2029-09-08	Saturday	07:00	243°	+25°	0 dB	0°	243°	+25°	289°	+2°	0.9dB	SUN!	364249 -216 Hz
2029-09-08	Saturday	07:30	249°	+20°	0 dB	0°	249°	+20°	297°	+2°	0.9dB	SUN!	364186 -237 Hz
2029-09-08	Saturday	08:00	255°	+15°	0 dB	0°	255°	+15°	304°	+2°	0.9dB	SUN!	364125 -252 Hz
2029-09-08	Saturday	08:30	260°	+10°	0 dB	0°	260°	+10°	311°	+2°	0.9dB	SUN!	364064 -264 Hz
2029-09-08	Saturday	09:00	265°	+5°	0 dB	0°	265°	+5°	318°	+1°	0.9dB	SUN!	364003 -270 Hz
2029-09-08	Saturday	09:30	271°	+0°	0 dB	0°	271°	+0°	326°	+1°	0.9dB	SUN!	363944 -272 Hz
2029-09-08	Saturday	22:30	097°	+3°	0 dB	0°	097°	+3°	154°	-2°	1.0dB	SUN!	362624 +313 Hz
2029-09-08	Saturday	23:00	102°	+8°	0 dB	0°	102°	+8°	161°	-2°	1.0dB	SUN!	362582 +306 Hz
2029-09-08	Saturday	23:30	108°	+13°	0 dB	0°	108°	+13°	168°	-2°	1.0dB	SUN!	362541 +295 Hz
2029-09-09	Sunday	00:00	114°	+17°	0 dB	0°	114°	+17°	176°	-2°	1.0dB	SUN!	362501 +279 Hz
2029-09-09	Sunday	00:30	120°	+22°	0 dB	0°	120°	+22°	183°	-2°	1.0dB	SUN!	362462 +258 Hz
2029-09-09	Sunday	01:00	126°	+26°	0 dB	0°	126°	+26°	190°	-3°	1.0dB	SUN!	362423 +234 Hz
2029-09-09	Sunday	01:30	134°	+30°	0 dB	0°	134°	+30°	197°	-3°	1.1dB	SUN!	362385 +206 Hz
2029-09-09	Sunday	02:00	141°	+33°	0 dB	0°	141°	+33°	205°	-3°	1.1dB	SUN!	362347 +174 Hz
2029-09-09	Sunday	02:30	149°	+36°	0 dB	0°	149°	+36°	212°	-3°	1.1dB	SUN!	362310 +140 Hz
2029-09-09	Sunday	03:00	158°	+38°	0 dB	0°	158°	+38°	219°	-3°	1.1dB	SUN!	362274 +103 Hz
2029-09-09	Sunday	03:30	167°	+39°	0 dB	0°	167°	+39°	226°	-3°	1.2dB	SUN!	362239 +65 Hz
2029-09-09	Sunday	04:00	177°	+40°	0 dB	0°	177°	+40°	233°	-3°	1.2dB	SUN!	362204 +26 Hz
2029-09-09	Sunday	04:30	186°	+39°	0 dB	0°	186°	+39°	241°	-3°	1.2dB	SUN!	362170 -13 Hz
2029-09-09	Sunday	05:00	195°	+38°	0 dB	0°	195°	+38°	248°	-4°	1.2dB	SUN!	362137 -52 Hz
2029-09-09	Sunday	05:30	204°	+37°	0 dB	0°	204°	+37°	255°	-4°	1.3dB	SUN!	362105 -89 Hz
2029-09-09	Sunday	06:00	213°	+34°	0 dB	0°	213°	+34°	262°	-4°	1.3dB	236°K	362073 -125 Hz
2029-09-09	Sunday	06:30	220°	+31°	0 dB	0°	220°	+31°	270°	-4°	1.3dB	238°K	362041 -158 Hz
2029-09-09	Sunday	07:00	228°	+27°	0 dB	0°	228°	+27°	277°	-4°	1.3dB	240°K	362011 -189 Hz
2029-09-09	Sunday	07:30	234°	+23°	0 dB	0°	234°	+23°	284°	-4°	1.4dB	241°K	361981 -216 Hz
2029-09-09	Sunday	08:00	241°	+19°	0 dB	0°	241°	+19°	291°	-4°	1.4dB	243°K	361952 -239 Hz
2029-09-09	Sunday	08:30	246°	+14°	0 dB	0°	246°	+14°	299°	-4°	1.4dB	245°K	361924 -258 Hz
2029-09-09	Sunday	09:00	252°	+9°	0 dB	0°	252°	+9°	306°	-5°	1.4dB	247°K	361896 -272 Hz
2029-09-09	Sunday	09:30	257°	+5°	0 dB	0°	257°	+5°	313°	-5°	1.5dB	249°K	361869 -282 Hz
2029-09-09	Sunday	23:30	102°	-0°	0 dB	0°	102°	-0°	156°	-8°	2.2dB	304°K	361400 +289 Hz
2029-09-10	Monday	00:00	108°	+4°	0 dB	0°	108°	+4°	163°	-8°	2.2dB	306°K	361393 +281 Hz
2029-09-10	Monday	00:30	113°	+9°	0 dB	0°	113°	+9°	170°	-8°	2.2dB	308°K	361387 +269 Hz
2029-09-10	Monday	01:00	119°	+13°	0 dB	0°	119°	+13°	177°	-8°	2.2dB	310°K	361382 +252 Hz
2029-09-10	Monday	01:30	125°	+18°	0 dB	0°	125°	+18°	185°	-9°	2.3dB	312°K	361377 +231 Hz
2029-09-10	Monday	02:00	132°	+21°	0 dB	0°	132°	+21°	192°	-9°	2.3dB	313°K	361374 +206 Hz
2029-09-10	Monday	02:30	139°	+25°	0 dB	0°	139°	+25°	199°	-9°	2.3dB	313°K	361370 +177 Hz
2029-09-10	Monday	03:00	146°	+28°	0 dB	0°	146°	+28°	206°	-9°	2.3dB	313°K	361368 +145 Hz
2029-09-10	Monday	03:30	154°	+30°	0 dB	0°	154°	+30°	213°	-9°	2.3dB	313°K	361366 +111 Hz
2029-09-10	Monday	04:00	162°	+32°	0 dB	0°	162°	+32°	221°	-9°	2.3dB	313°K	361365 +75 Hz
2029-09-10	Monday	04:30	170°	+33°	0 dB	0°	170°	+33°	228°	-9°	2.3dB	313°K	361365 +37 Hz
2029-09-10	Monday	05:00	179°	+34°	0 dB	0°	179°	+34°	235°	-9°	2.3dB	313°K	361365 -1 Hz
2029-09-10	Monday	05:30	188°	+33°	0 dB	0°	188°	+33°	242°	-10°	2.3dB	313°K	361366 -40 Hz
2029-09-10	Monday	06:00	196°	+32°	0 dB	0°	196°	+32°	250°	-10°	2.3dB	313°K	361368 -78 Hz
2029-09-10	Monday	06:30	204°	+30°	0 dB	0°	204°	+30°	257°	-10°	2.3dB	313°K	361370 -114 Hz
2029-09-10	Monday	07:00	212°	+28°	0 dB	0°	212°	+28°	264°	-10°	2.3dB	313°K	361373 -149 Hz
2029-09-10	Monday	07:30	219°	+25°	0 dB	0°	219°	+25°	271°	-10°	2.3dB	313°K	361377 -181 Hz
2029-09-10	Monday	08:00	226°	+21°	0 dB	0°	226°	+21°	279°	-10°	2.3dB	313°K	361381 -210 Hz
2029-09-10	Monday	08:30	232°	+17°	0 dB	0°	232°	+17°	286°	-10°	2.3dB	313°K	361386 -235 Hz
2029-09-10	Monday	09:00	238°	+13°	0 dB	0°	238°	+13°	293°	-10°	2.3dB	313°K	361392 -257 Hz
2029-09-10	Monday	09:30	244°	+9°	0 dB	0°	244°	+9°	300°	-10°	2.3dB	313°K	361398 -274 Hz
2029-09-10	Monday	10:00	249°	+4°	0 dB	0°	249°	+4°	307°	-11°	2.3dB	313°K	361406 -287 Hz
2029-09-11	Tuesday	01:00	113°	+1°	0 dB	0°	113°	+1°	164°	-14°	2.2dB	305°K	361925 +255 Hz
2029-09-11	Tuesday	01:30	118°	+5°	0 dB	0°	118°	+5°	171°	-14°	2.2dB	305°K	361953 +242 Hz
2029-09-11	Tuesday	02:00	124°	+10°	0 dB	0°	124°	+10°	179°	-14°	2.2dB	305°K	361980 +225 Hz
2029-09-11	Tuesday	02:30	130°	+14°	0 dB	0°	130°	+14°	186°	-14°	2.2dB	304°K	362009 +204 Hz
2029-09-11	Tuesday	03:00	136°	+17°	0 dB	0°	136°	+17°	193°	-14°	2.2dB	304°K	362038 +179 Hz
2029-09-11	Tuesday	03:30	143°	+20°	0 dB	0°	143°	+20°	200°	-14°	2.2dB	305°K	362068 +150 Hz
2029-09-11	Tuesday	04:00	150°	+23°	0 dB	0°	150°	+23°	207°	-15°	2.2dB	305°K	362098 +119 Hz
2029-09-11	Tuesday	04:30	157°	+25°	0 dB	0°	157°	+25°	215°	-15°	2.2dB	306°K	362129 +85 Hz
2029-09-11	Tuesday	05:00	164°	+27°	0 dB	0°	164°	+27°	222°	-15°	2.2dB	307°K	362160 +50 Hz
2029-09-11	Tuesday	05:30	172°	+28°	0 dB	0°	172°	+28°	229°	-15°	2.2dB	308°K	362193 +13 Hz
2029-09-11	Tuesday	06:00	180°	+28°	0 dB	0°	180°	+28°	236°	-15°	2.3dB	309°K	362225 -24 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-11	Tuesday	06:30	188°	+28°	0 dB	0°	188°	+28°	244°	-15°	2.3dB	310°K	362259 -62 Hz
2029-09-11	Tuesday	07:00	196°	+26°	0 dB	0°	196°	+26°	251°	-15°	2.3dB	311°K	362292 -98 Hz
2029-09-11	Tuesday	07:30	204°	+25°	0 dB	0°	204°	+25°	258°	-15°	2.3dB	312°K	362327 -133 Hz
2029-09-11	Tuesday	08:00	211°	+22°	0 dB	0°	211°	+22°	265°	-15°	2.3dB	313°K	362362 -166 Hz
2029-09-11	Tuesday	08:30	218°	+19°	0 dB	0°	218°	+19°	272°	-15°	2.3dB	313°K	362398 -197 Hz
2029-09-11	Tuesday	09:00	224°	+16°	0 dB	0°	224°	+16°	280°	-16°	2.3dB	314°K	362434 -225 Hz
2029-09-11	Tuesday	09:30	230°	+12°	0 dB	0°	230°	+12°	287°	-16°	2.3dB	315°K	362471 -249 Hz
2029-09-11	Tuesday	10:00	236°	+8°	0 dB	0°	236°	+8°	294°	-16°	2.4dB	316°K	362508 -269 Hz
2029-09-11	Tuesday	10:30	241°	+4°	0 dB	0°	241°	+4°	301°	-16°	2.4dB	317°K	362546 -285 Hz
2029-09-12	wednesday	02:30	122°	+2°	0 dB	0°	122°	+2°	172°	-19°	2.9dB	357°K	364051 +220 Hz
2029-09-12	wednesday	03:00	127°	+6°	0 dB	0°	127°	+6°	179°	-19°	2.9dB	359°K	364107 +203 Hz
2029-09-12	wednesday	03:30	133°	+10°	0 dB	0°	133°	+10°	187°	-19°	2.9dB	360°K	364163 +182 Hz
2029-09-12	wednesday	04:00	139°	+14°	0 dB	0°	139°	+14°	194°	-19°	2.9dB	361°K	364219 +157 Hz
2029-09-12	wednesday	04:30	145°	+17°	0 dB	0°	145°	+17°	201°	-19°	3.0dB	363°K	364276 +129 Hz
2029-09-12	wednesday	05:00	152°	+19°	0 dB	0°	152°	+19°	208°	-19°	3.0dB	364°K	364334 +98 Hz
2029-09-12	wednesday	05:30	159°	+21°	0 dB	0°	159°	+21°	215°	-19°	3.0dB	365°K	364392 +66 Hz
2029-09-12	wednesday	06:00	166°	+23°	0 dB	0°	166°	+23°	223°	-19°	3.0dB	367°K	364450 +31 Hz
2029-09-12	wednesday	06:30	174°	+23°	0 dB	0°	174°	+23°	230°	-19°	3.0dB	368°K	364509 -5 Hz
2029-09-12	wednesday	07:00	181°	+24°	0 dB	0°	181°	+24°	237°	-19°	3.0dB	369°K	364568 -41 Hz
2029-09-12	wednesday	07:30	188°	+23°	0 dB	0°	188°	+23°	244°	-19°	3.0dB	370°K	364628 -77 Hz
2029-09-12	wednesday	08:00	196°	+22°	0 dB	0°	196°	+22°	251°	-20°	3.1dB	372°K	364688 -112 Hz
2029-09-12	wednesday	08:30	203°	+20°	0 dB	0°	203°	+20°	259°	-20°	3.1dB	373°K	364749 -146 Hz
2029-09-12	wednesday	09:00	210°	+18°	0 dB	0°	210°	+18°	266°	-20°	3.1dB	374°K	364810 -178 Hz
2029-09-12	wednesday	09:30	216°	+15°	0 dB	0°	216°	+15°	273°	-20°	3.1dB	375°K	364871 -207 Hz
2029-09-12	wednesday	10:00	222°	+12°	0 dB	0°	222°	+12°	280°	-20°	3.1dB	377°K	364933 -233 Hz
2029-09-12	wednesday	10:30	228°	+8°	0 dB	0°	228°	+8°	287°	-20°	3.1dB	378°K	364995 -257 Hz
2029-09-12	wednesday	11:00	234°	+4°	0 dB	0°	234°	+4°	295°	-20°	3.1dB	379°K	365058 -276 Hz
2029-09-12	wednesday	11:30	239°	+0°	0 dB	0°	239°	+0°	302°	-20°	3.2dB	380°K	365122 -291 Hz
2029-09-13	Thursday	03:30	124°	-0°	0 dB	0°	124°	-0°	172°	-22°	3.6dB	417°K	367353 +204 Hz
2029-09-13	Thursday	04:00	129°	+4°	0 dB	0°	129°	+4°	180°	-22°	3.6dB	420°K	367429 +187 Hz
2029-09-13	Thursday	04:30	135°	+7°	0 dB	0°	135°	+7°	187°	-22°	3.7dB	422°K	367504 +166 Hz
2029-09-13	Thursday	05:00	141°	+11°	0 dB	0°	141°	+11°	194°	-22°	3.7dB	425°K	367581 +142 Hz
2029-09-13	Thursday	05:30	147°	+14°	0 dB	0°	147°	+14°	201°	-22°	3.7dB	428°K	367657 +115 Hz
2029-09-13	Thursday	06:00	153°	+16°	0 dB	0°	153°	+16°	208°	-22°	3.8dB	430°K	367734 +85 Hz
2029-09-13	Thursday	06:30	160°	+18°	0 dB	0°	160°	+18°	216°	-22°	3.8dB	433°K	367811 +53 Hz
2029-09-13	Thursday	07:00	167°	+19°	0 dB	0°	167°	+19°	223°	-22°	3.8dB	435°K	367889 +20 Hz
2029-09-13	Thursday	07:30	174°	+20°	0 dB	0°	174°	+20°	230°	-22°	3.8dB	438°K	367966 -15 Hz
2029-09-13	Thursday	08:00	181°	+20°	0 dB	0°	181°	+20°	237°	-22°	3.9dB	441°K	368044 -50 Hz
2029-09-13	Thursday	08:30	188°	+20°	0 dB	0°	188°	+20°	244°	-22°	3.9dB	443°K	368123 -85 Hz
2029-09-13	Thursday	09:00	195°	+19°	0 dB	0°	195°	+19°	252°	-23°	3.9dB	446°K	368201 -119 Hz
2029-09-13	Thursday	09:30	202°	+17°	0 dB	0°	202°	+17°	259°	-23°	3.9dB	448°K	368280 -152 Hz
2029-09-13	Thursday	10:00	209°	+15°	0 dB	0°	209°	+15°	266°	-23°	4.0dB	451°K	368359 -183 Hz
2029-09-13	Thursday	10:30	215°	+12°	0 dB	0°	215°	+12°	273°	-23°	4.0dB	454°K	368439 -212 Hz
2029-09-13	Thursday	11:00	221°	+9°	0 dB	0°	221°	+9°	280°	-23°	4.0dB	456°K	368519 -238 Hz
2029-09-13	Thursday	11:30	227°	+6°	0 dB	0°	227°	+6°	288°	-23°	4.0dB	459°K	368599 -260 Hz
2029-09-13	Thursday	12:00	232°	+2°	0 dB	0°	232°	+2°	295°	-23°	4.1dB	461°K	368679 -279 Hz
2029-09-14	Friday	05:00	130°	+2°	0 dB	0°	130°	+2°	180°	-24°	5.6dB	654°K	371546 +179 Hz
2029-09-14	Friday	05:30	136°	+6°	0 dB	0°	136°	+6°	187°	-24°	5.6dB	665°K	371634 +159 Hz
2029-09-14	Friday	06:00	142°	+9°	0 dB	0°	142°	+9°	194°	-24°	5.7dB	676°K	371722 +135 Hz
2029-09-14	Friday	06:30	148°	+12°	0 dB	0°	148°	+12°	201°	-24°	5.8dB	687°K	371810 +108 Hz
2029-09-14	Friday	07:00	154°	+15°	0 dB	0°	154°	+15°	208°	-24°	5.8dB	698°K	371898 +79 Hz
2029-09-14	Friday	07:30	160°	+17°	0 dB	0°	160°	+17°	216°	-24°	5.9dB	709°K	371986 +48 Hz
2029-09-14	Friday	08:00	167°	+18°	0 dB	0°	167°	+18°	223°	-24°	6.0dB	720°K	372074 +15 Hz
2029-09-14	Friday	08:30	174°	+19°	0 dB	0°	174°	+19°	230°	-24°	6.0dB	732°K	372163 -19 Hz
2029-09-14	Friday	09:00	181°	+19°	0 dB	0°	181°	+19°	237°	-24°	6.1dB	743°K	372252 -54 Hz
2029-09-14	Friday	09:30	188°	+19°	0 dB	0°	188°	+19°	244°	-24°	6.2dB	754°K	372341 -89 Hz
2029-09-14	Friday	10:00	195°	+18°	0 dB	0°	195°	+18°	252°	-24°	6.2dB	765°K	372430 -122 Hz
2029-09-14	Friday	10:30	202°	+16°	0 dB	0°	202°	+16°	259°	-24°	6.3dB	776°K	372519 -155 Hz
2029-09-14	Friday	11:00	208°	+14°	0 dB	0°	208°	+14°	266°	-24°	6.4dB	787°K	372608 -186 Hz
2029-09-14	Friday	11:30	214°	+11°	0 dB	0°	214°	+11°	273°	-24°	6.4dB	798°K	372698 -214 Hz
2029-09-14	Friday	12:00	220°	+8°	0 dB	0°	220°	+8°	280°	-24°	6.5dB	809°K	372787 -239 Hz
2029-09-14	Friday	12:30	226°	+5°	0 dB	0°	226°	+5°	288°	-24°	6.5dB	820°K	372877 -262 Hz
2029-09-14	Friday	13:00	231°	+1°	0 dB	0°	231°	+1°	295°	-24°	6.6dB	831°K	372966 -280 Hz
2029-09-15	Saturday	06:00	130°	+3°	0 dB	0°	130°	+3°	180°	-24°	10.6dB	2084°K	376069 +177 Hz
2029-09-15	Saturday	06:30	136°	+6°	0 dB	0°	136°	+6°	187°	-24°	10.7dB	2154°K	376162 +157 Hz
2029-09-15	Saturday	07:00	142°	+9°	0 dB	0°	142°	+9°	194°	-24°	10.8dB	2225°K	376254 +134 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-15	Saturday	07:30	148°	+12°	0 dB	0°	148°	+12°	202°	-24°	11.0dB	2295°K	376346 +107 Hz
2029-09-15	Saturday	08:00	154°	+15°	0 dB	0°	154°	+15°	209°	-24°	11.1dB	2365°K	376439 +78 Hz
2029-09-15	Saturday	08:30	161°	+17°	0 dB	0°	161°	+17°	216°	-24°	11.2dB	2436°K	376531 +46 Hz
2029-09-15	Saturday	09:00	168°	+18°	0 dB	0°	168°	+18°	223°	-24°	11.4dB	2506°K	376623 +13 Hz
2029-09-15	Saturday	09:30	174°	+19°	0 dB	0°	174°	+19°	230°	-24°	11.5dB	2576°K	376716 -21 Hz
2029-09-15	Saturday	10:00	181°	+19°	0 dB	0°	181°	+19°	238°	-24°	11.6dB	2646°K	376808 -56 Hz
2029-09-15	Saturday	10:30	188°	+19°	0 dB	0°	188°	+19°	245°	-24°	11.7dB	2716°K	376900 -90 Hz
2029-09-15	Saturday	11:00	195°	+18°	0 dB	0°	195°	+18°	252°	-24°	11.8dB	2786°K	376993 -124 Hz
2029-09-15	Saturday	11:30	202°	+16°	0 dB	0°	202°	+16°	259°	-24°	11.9dB	2856°K	377085 -157 Hz
2029-09-15	Saturday	12:00	209°	+14°	0 dB	0°	209°	+14°	266°	-24°	12.0dB	2926°K	377178 -187 Hz
2029-09-15	Saturday	12:30	215°	+11°	0 dB	0°	215°	+11°	274°	-24°	12.1dB	2996°K	377270 -216 Hz
2029-09-15	Saturday	13:00	221°	+8°	0 dB	0°	221°	+8°	281°	-24°	12.2dB	3065°K	377363 -241 Hz
2029-09-15	Saturday	13:30	227°	+5°	0 dB	0°	227°	+5°	288°	-24°	12.3dB	3135°K	377455 -263 Hz
2029-09-15	Saturday	14:00	232°	+1°	0 dB	0°	232°	+1°	295°	-24°	12.4dB	3205°K	377547 -282 Hz
2029-09-16	Sunday	06:30	125°	+0°	0 dB	0°	125°	+0°	173°	-22°	10.0dB	1754°K	380584 +197 Hz
2029-09-16	Sunday	07:00	130°	+4°	0 dB	0°	130°	+4°	181°	-22°	9.9dB	1705°K	380675 +180 Hz
2029-09-16	Sunday	07:30	136°	+8°	0 dB	0°	136°	+8°	188°	-22°	9.8dB	1657°K	380767 +160 Hz
2029-09-16	Sunday	08:00	142°	+11°	0 dB	0°	142°	+11°	195°	-22°	9.7dB	1609°K	380858 +136 Hz
2029-09-16	Sunday	08:30	148°	+14°	0 dB	0°	148°	+14°	202°	-22°	9.6dB	1560°K	380949 +108 Hz
2029-09-16	Sunday	09:00	154°	+17°	0 dB	0°	154°	+17°	210°	-22°	9.4dB	1512°K	381040 +78 Hz
2029-09-16	Sunday	09:30	161°	+19°	0 dB	0°	161°	+19°	217°	-22°	9.3dB	1464°K	381131 +46 Hz
2029-09-16	Sunday	10:00	168°	+20°	0 dB	0°	168°	+20°	224°	-22°	9.2dB	1416°K	381222 +13 Hz
2029-09-16	Sunday	10:30	175°	+21°	0 dB	0°	175°	+21°	231°	-22°	9.0dB	1368°K	381313 -22 Hz
2029-09-16	Sunday	11:00	182°	+21°	0 dB	0°	182°	+21°	238°	-22°	8.9dB	1320°K	381403 -58 Hz
2029-09-16	Sunday	11:30	190°	+20°	0 dB	0°	190°	+20°	246°	-22°	8.7dB	1272°K	381494 -93 Hz
2029-09-16	Sunday	12:00	197°	+19°	0 dB	0°	197°	+19°	253°	-22°	8.6dB	1224°K	381585 -127 Hz
2029-09-16	Sunday	12:30	204°	+18°	0 dB	0°	204°	+18°	260°	-22°	8.4dB	1176°K	381675 -160 Hz
2029-09-16	Sunday	13:00	210°	+15°	0 dB	0°	210°	+15°	267°	-22°	8.3dB	1129°K	381766 -191 Hz
2029-09-16	Sunday	13:30	217°	+13°	0 dB	0°	217°	+13°	275°	-22°	8.1dB	1081°K	381856 -220 Hz
2029-09-16	Sunday	14:00	223°	+9°	0 dB	0°	223°	+9°	282°	-22°	7.9dB	1033°K	381946 -245 Hz
2029-09-16	Sunday	14:30	228°	+6°	0 dB	0°	228°	+6°	289°	-22°	7.7dB	986°K	382036 -267 Hz
2029-09-16	Sunday	15:00	234°	+2°	0 dB	0°	234°	+2°	296°	-22°	7.5dB	938°K	382126 -286 Hz
2029-09-17	Monday	07:30	124°	+3°	0 dB	0°	124°	+3°	175°	-20°	5.1dB	490°K	385046 +203 Hz
2029-09-17	Monday	08:00	130°	+7°	0 dB	0°	130°	+7°	182°	-20°	5.0dB	485°K	385133 +185 Hz
2029-09-17	Monday	08:30	136°	+11°	0 dB	0°	136°	+11°	189°	-20°	5.0dB	479°K	385220 +163 Hz
2029-09-17	Monday	09:00	142°	+14°	0 dB	0°	142°	+14°	197°	-20°	4.9dB	473°K	385306 +138 Hz
2029-09-17	Monday	09:30	148°	+17°	0 dB	0°	148°	+17°	204°	-19°	4.9dB	467°K	385392 +109 Hz
2029-09-17	Monday	10:00	155°	+20°	0 dB	0°	155°	+20°	211°	-19°	4.8dB	462°K	385479 +78 Hz
2029-09-17	Monday	10:30	162°	+22°	0 dB	0°	162°	+22°	218°	-19°	4.8dB	456°K	385565 +45 Hz
2029-09-17	Monday	11:00	169°	+23°	0 dB	0°	169°	+23°	226°	-19°	4.8dB	450°K	385651 +10 Hz
2029-09-17	Monday	11:30	177°	+24°	0 dB	0°	177°	+24°	233°	-19°	4.7dB	445°K	385736 -26 Hz
2029-09-17	Monday	12:00	184°	+24°	0 dB	0°	184°	+24°	240°	-19°	4.7dB	439°K	385822 -62 Hz
2029-09-17	Monday	12:30	192°	+23°	0 dB	0°	192°	+23°	247°	-19°	4.6dB	434°K	385908 -98 Hz
2029-09-17	Monday	13:00	199°	+22°	0 dB	0°	199°	+22°	255°	-19°	4.6dB	428°K	385993 -133 Hz
2029-09-17	Monday	13:30	206°	+20°	0 dB	0°	206°	+20°	262°	-19°	4.5dB	422°K	386078 -167 Hz
2029-09-17	Monday	14:00	213°	+18°	0 dB	0°	213°	+18°	269°	-19°	4.5dB	417°K	386164 -198 Hz
2029-09-17	Monday	14:30	219°	+15°	0 dB	0°	219°	+15°	276°	-19°	4.4dB	411°K	386249 -227 Hz
2029-09-17	Monday	15:00	226°	+11°	0 dB	0°	226°	+11°	284°	-19°	4.4dB	405°K	386334 -252 Hz
2029-09-17	Monday	15:30	232°	+8°	0 dB	0°	232°	+8°	291°	-19°	4.3dB	400°K	386418 -274 Hz
2029-09-17	Monday	16:00	237°	+4°	0 dB	0°	237°	+4°	298°	-19°	4.3dB	394°K	386503 -292 Hz
2029-09-18	Tuesday	08:00	118°	+3°	0 dB	0°	118°	+3°	170°	-16°	3.7dB	326°K	389142 +224 Hz
2029-09-18	Tuesday	08:30	124°	+8°	0 dB	0°	124°	+8°	177°	-16°	3.7dB	326°K	389222 +208 Hz
2029-09-18	Tuesday	09:00	130°	+12°	0 dB	0°	130°	+12°	185°	-16°	3.7dB	326°K	389302 +188 Hz
2029-09-18	Tuesday	09:30	136°	+15°	0 dB	0°	136°	+15°	192°	-16°	3.7dB	326°K	389382 +164 Hz
2029-09-18	Tuesday	10:00	142°	+19°	0 dB	0°	142°	+19°	199°	-16°	3.7dB	326°K	389461 +137 Hz
2029-09-18	Tuesday	10:30	149°	+22°	0 dB	0°	149°	+22°	206°	-16°	3.7dB	326°K	389541 +107 Hz
2029-09-18	Tuesday	11:00	156°	+24°	0 dB	0°	156°	+24°	214°	-16°	3.7dB	326°K	389620 +74 Hz
2029-09-18	Tuesday	11:30	164°	+26°	0 dB	0°	164°	+26°	221°	-15°	3.7dB	326°K	389699 +39 Hz
2029-09-18	Tuesday	12:00	171°	+27°	0 dB	0°	171°	+27°	228°	-15°	3.7dB	326°K	389779 +3 Hz
2029-09-18	Tuesday	12:30	179°	+28°	0 dB	0°	179°	+28°	235°	-15°	3.7dB	326°K	389858 -34 Hz
2029-09-18	Tuesday	13:00	187°	+27°	0 dB	0°	187°	+27°	243°	-15°	3.7dB	326°K	389936 -72 Hz
2029-09-18	Tuesday	13:30	195°	+27°	0 dB	0°	195°	+27°	250°	-15°	3.7dB	326°K	390015 -108 Hz
2029-09-18	Tuesday	14:00	203°	+25°	0 dB	0°	203°	+25°	257°	-15°	3.7dB	326°K	390094 -144 Hz
2029-09-18	Tuesday	14:30	210°	+23°	0 dB	0°	210°	+23°	264°	-15°	3.7dB	326°K	390172 -177 Hz
2029-09-18	Tuesday	15:00	217°	+20°	0 dB	0°	217°	+20°	272°	-15°	3.7dB	326°K	390250 -209 Hz
2029-09-18	Tuesday	15:30	224°	+17°	0 dB	0°	224°	+17°	279°	-15°	3.8dB	326°K	390328 -237 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-18	Tuesday 16:00	230°	+13°	0 dB	0°	230°	+13°	286°	-15°	3.8dB	326°K	390406	-262 Hz
2029-09-18	Tuesday 16:30	236°	+9°	0 dB	0°	236°	+9°	294°	-15°	3.8dB	326°K	390484	-283 Hz
2029-09-18	Tuesday 17:00	242°	+5°	0 dB	0°	242°	+5°	301°	-15°	3.8dB	326°K	390562	-300 Hz
2029-09-18	Tuesday 17:30	247°	+1°	0 dB	0°	247°	+1°	308°	-14°	3.8dB	326°K	390639	-313 Hz
2029-09-19	wednesday08:30	113°	+4°	0 dB	0°	113°	+4°	166°	-12°	3.9dB	326°K	392892	+242 Hz
2029-09-19	wednesday09:00	118°	+9°	0 dB	0°	118°	+9°	173°	-12°	3.9dB	326°K	392965	+228 Hz
2029-09-19	wednesday09:30	124°	+13°	0 dB	0°	124°	+13°	181°	-11°	3.9dB	326°K	393037	+210 Hz
2029-09-19	wednesday10:00	130°	+17°	0 dB	0°	130°	+17°	188°	-11°	3.9dB	326°K	393110	+188 Hz
2029-09-19	wednesday10:30	136°	+21°	0 dB	0°	136°	+21°	195°	-11°	3.9dB	326°K	393182	+162 Hz
2029-09-19	wednesday11:00	143°	+24°	0 dB	0°	143°	+24°	202°	-11°	3.9dB	326°K	393254	+132 Hz
2029-09-19	wednesday11:30	150°	+27°	0 dB	0°	150°	+27°	210°	-11°	3.9dB	326°K	393326	+100 Hz
2029-09-19	wednesday12:00	158°	+29°	0 dB	0°	158°	+29°	217°	-11°	3.9dB	326°K	393398	+65 Hz
2029-09-19	wednesday12:30	166°	+31°	0 dB	0°	166°	+31°	224°	-11°	3.9dB	326°K	393469	+29 Hz
2029-09-19	wednesday13:00	175°	+32°	0 dB	0°	175°	+32°	231°	-11°	3.9dB	326°K	393541	-9 Hz
2029-09-19	wednesday13:30	183°	+32°	0 dB	0°	183°	+32°	239°	-11°	3.9dB	326°K	393612	-47 Hz
2029-09-19	wednesday14:00	192°	+32°	0 dB	0°	192°	+32°	246°	-11°	3.9dB	325°K	393683	-85 Hz
2029-09-19	wednesday14:30	200°	+30°	0 dB	0°	200°	+30°	253°	-11°	3.9dB	324°K	393754	-122 Hz
2029-09-19	wednesday15:00	208°	+28°	0 dB	0°	208°	+28°	261°	-10°	3.9dB	323°K	393825	-158 Hz
2029-09-19	wednesday15:30	215°	+26°	0 dB	0°	215°	+26°	268°	-10°	3.9dB	322°K	393895	-191 Hz
2029-09-19	wednesday16:00	223°	+23°	0 dB	0°	223°	+23°	275°	-10°	3.9dB	321°K	393966	-222 Hz
2029-09-19	wednesday16:30	229°	+19°	0 dB	0°	229°	+19°	282°	-10°	3.8dB	320°K	394036	-249 Hz
2029-09-19	wednesday17:00	236°	+15°	0 dB	0°	236°	+15°	290°	-10°	3.8dB	319°K	394106	-273 Hz
2029-09-19	wednesday17:30	242°	+11°	0 dB	0°	242°	+11°	297°	-10°	3.8dB	318°K	394176	-293 Hz
2029-09-19	wednesday18:00	247°	+7°	0 dB	0°	247°	+7°	304°	-10°	3.8dB	317°K	394246	-308 Hz
2029-09-19	wednesday18:30	253°	+2°	0 dB	0°	253°	+2°	311°	-10°	3.8dB	316°K	394316	-319 Hz
2029-09-20	Thursday 08:30	101°	+0°	0 dB	0°	101°	+0°	155°	-7°	3.5dB	283°K	396200	+263 Hz
2029-09-20	Thursday 09:00	107°	+5°	0 dB	0°	107°	+5°	163°	-7°	3.5dB	281°K	396265	+256 Hz
2029-09-20	Thursday 09:30	112°	+10°	0 dB	0°	112°	+10°	170°	-7°	3.5dB	280°K	396330	+245 Hz
2029-09-20	Thursday 10:00	118°	+15°	0 dB	0°	118°	+15°	177°	-7°	3.4dB	278°K	396394	+228 Hz
2029-09-20	Thursday 10:30	124°	+19°	0 dB	0°	124°	+19°	184°	-7°	3.4dB	276°K	396459	+208 Hz
2029-09-20	Thursday 11:00	130°	+23°	0 dB	0°	130°	+23°	192°	-6°	3.4dB	275°K	396523	+183 Hz
2029-09-20	Thursday 11:30	137°	+27°	0 dB	0°	137°	+27°	199°	-6°	3.4dB	273°K	396587	+154 Hz
2029-09-20	Thursday 12:00	145°	+30°	0 dB	0°	145°	+30°	206°	-6°	3.4dB	271°K	396651	+123 Hz
2029-09-20	Thursday 12:30	153°	+33°	0 dB	0°	153°	+33°	214°	-6°	3.4dB	270°K	396715	+88 Hz
2029-09-20	Thursday 13:00	161°	+35°	0 dB	0°	161°	+35°	221°	-6°	3.3dB	268°K	396779	+52 Hz
2029-09-20	Thursday 13:30	170°	+37°	0 dB	0°	170°	+37°	228°	-6°	3.3dB	266°K	396842	+14 Hz
2029-09-20	Thursday 14:00	179°	+37°	0 dB	0°	179°	+37°	235°	-6°	3.3dB	265°K	396905	-25 Hz
2029-09-20	Thursday 14:30	188°	+37°	0 dB	0°	188°	+37°	243°	-6°	3.3dB	263°K	396968	-64 Hz
2029-09-20	Thursday 15:00	197°	+36°	0 dB	0°	197°	+36°	250°	-6°	3.2dB	261°K	397031	-102 Hz
2029-09-20	Thursday 15:30	206°	+34°	0 dB	0°	206°	+34°	257°	-6°	3.2dB	260°K	397094	-139 Hz
2029-09-20	Thursday 16:00	214°	+32°	0 dB	0°	214°	+32°	264°	-5°	3.2dB	258°K	397157	-174 Hz
2029-09-20	Thursday 16:30	222°	+29°	0 dB	0°	222°	+29°	272°	-5°	3.2dB	256°K	397219	-207 Hz
2029-09-20	Thursday 17:00	229°	+25°	0 dB	0°	229°	+25°	279°	-5°	3.2dB	255°K	397281	-236 Hz
2029-09-20	Thursday 17:30	236°	+21°	0 dB	0°	236°	+21°	286°	-5°	3.2dB	253°K	397343	-262 Hz
2029-09-20	Thursday 18:00	242°	+17°	0 dB	0°	242°	+17°	294°	-5°	3.1dB	252°K	397405	-284 Hz
2029-09-20	Thursday 18:30	248°	+12°	0 dB	0°	248°	+12°	301°	-5°	3.1dB	250°K	397467	-301 Hz
2029-09-20	Thursday 19:00	254°	+8°	0 dB	0°	254°	+8°	308°	-5°	3.1dB	248°K	397528	-314 Hz
2029-09-20	Thursday 19:30	259°	+3°	0 dB	0°	259°	+3°	315°	-5°	3.1dB	247°K	397590	-323 Hz
2029-09-21	Friday 09:00	096°	+2°	0 dB	0°	096°	+2°	152°	-2°	3.1dB	243°K	399181	+273 Hz
2029-09-21	Friday 09:30	101°	+7°	0 dB	0°	101°	+7°	159°	-2°	3.1dB	243°K	399238	+268 Hz
2029-09-21	Friday 10:00	106°	+12°	0 dB	0°	106°	+12°	167°	-2°	3.1dB	243°K	399294	+258 Hz
2029-09-21	Friday 10:30	112°	+17°	0 dB	0°	112°	+17°	174°	-2°	3.1dB	243°K	399350	+243 Hz
2029-09-21	Friday 11:00	118°	+22°	0 dB	0°	118°	+22°	181°	-1°	3.1dB	243°K	399406	+224 Hz
2029-09-21	Friday 11:30	124°	+26°	0 dB	0°	124°	+26°	189°	-1°	3.1dB	243°K	399462	+200 Hz
2029-09-21	Friday 12:00	131°	+30°	0 dB	0°	131°	+30°	196°	-1°	3.1dB	243°K	399517	+173 Hz
2029-09-21	Friday 12:30	139°	+34°	0 dB	0°	139°	+34°	203°	-1°	3.1dB	243°K	399573	+142 Hz
2029-09-21	Friday 13:00	147°	+37°	0 dB	0°	147°	+37°	210°	-1°	3.1dB	243°K	399628	+108 Hz
2029-09-21	Friday 13:30	156°	+39°	0 dB	0°	156°	+39°	218°	-1°	3.1dB	243°K	399683	+72 Hz
2029-09-21	Friday 14:00	165°	+41°	0 dB	0°	165°	+41°	225°	-1°	3.1dB	243°K	399738	+34 Hz
2029-09-21	Friday 14:30	175°	+42°	0 dB	0°	175°	+42°	232°	-1°	3.1dB	243°K	399792	-4 Hz
2029-09-21	Friday 15:00	185°	+42°	0 dB	0°	185°	+42°	240°	-1°	3.1dB	242°K	399847	-44 Hz
2029-09-21	Friday 15:30	195°	+42°	0 dB	0°	195°	+42°	247°	-1°	3.1dB	242°K	399901	-83 Hz
2029-09-21	Friday 16:00	204°	+40°	0 dB	0°	204°	+40°	254°	-0°	3.1dB	242°K	399955	-121 Hz
2029-09-21	Friday 16:30	213°	+38°	0 dB	0°	213°	+38°	261°	-0°	3.1dB	242°K	400009	-157 Hz
2029-09-21	Friday 17:00	222°	+35°	0 dB	0°	222°	+35°	269°	-0°	3.1dB	242°K	400063	-191 Hz
2029-09-21	Friday 17:30	229°	+31°	0 dB	0°	229°	+31°	276°	-0°	3.1dB	242°K	400116	-222 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-21	Friday	18:00	236°	+27°	0 dB	0°	236°	+27°	283°	-0°	3.1dB	242°K	400169 -249 Hz
2029-09-21	Friday	18:30	243°	+23°	0 dB	0°	243°	+23°	291°	+0°	3.1dB	241°K	400223 -273 Hz
2029-09-21	Friday	19:00	249°	+18°	0 dB	0°	249°	+18°	298°	+0°	3.1dB	241°K	400275 -292 Hz
2029-09-21	Friday	19:30	255°	+14°	0 dB	0°	255°	+14°	305°	+0°	3.1dB	241°K	400328 -307 Hz
2029-09-21	Friday	20:00	260°	+9°	0 dB	0°	260°	+9°	313°	+0°	3.1dB	241°K	400381 -317 Hz
2029-09-21	Friday	20:30	266°	+4°	0 dB	0°	266°	+4°	320°	+0°	3.1dB	241°K	400433 -323 Hz
2029-09-22	Saturday	09:30	090°	+4°	0 dB	0°	090°	+4°	149°	+3°	3.1dB	239°K	401726 +279 Hz
2029-09-22	Saturday	10:00	095°	+9°	0 dB	0°	095°	+9°	157°	+3°	3.1dB	239°K	401773 +276 Hz
2029-09-22	Saturday	10:30	101°	+14°	0 dB	0°	101°	+14°	164°	+3°	3.1dB	239°K	401820 +268 Hz
2029-09-22	Saturday	11:00	106°	+19°	0 dB	0°	106°	+19°	171°	+3°	3.1dB	239°K	401866 +255 Hz
2029-09-22	Saturday	11:30	112°	+24°	0 dB	0°	112°	+24°	178°	+4°	3.2dB	239°K	401913 +237 Hz
2029-09-22	Saturday	12:00	118°	+28°	0 dB	0°	118°	+28°	186°	+4°	3.2dB	239°K	401959 +215 Hz
2029-09-22	Saturday	12:30	125°	+33°	0 dB	0°	125°	+33°	193°	+4°	3.2dB	239°K	402005 +189 Hz
2029-09-22	Saturday	13:00	133°	+37°	0 dB	0°	133°	+37°	200°	+4°	3.2dB	239°K	402051 +160 Hz
2029-09-22	Saturday	13:30	141°	+40°	0 dB	0°	141°	+40°	208°	+4°	3.2dB	239°K	402096 +127 Hz
2029-09-22	Saturday	14:00	150°	+43°	0 dB	0°	150°	+43°	215°	+4°	3.2dB	239°K	402141 +91 Hz
2029-09-22	Saturday	14:30	160°	+46°	0 dB	0°	160°	+46°	222°	+4°	3.2dB	239°K	402187 +54 Hz
2029-09-22	Saturday	15:00	170°	+47°	0 dB	0°	170°	+47°	229°	+4°	3.2dB	239°K	402231 +16 Hz
2029-09-22	Saturday	15:30	181°	+48°	0 dB	0°	181°	+48°	237°	+4°	3.2dB	239°K	402276 -24 Hz
2029-09-22	Saturday	16:00	192°	+47°	0 dB	0°	192°	+47°	244°	+4°	3.2dB	239°K	402321 -63 Hz
2029-09-22	Saturday	16:30	202°	+46°	0 dB	0°	202°	+46°	251°	+5°	3.2dB	239°K	402365 -101 Hz
2029-09-22	Saturday	17:00	212°	+43°	0 dB	0°	212°	+43°	259°	+5°	3.2dB	239°K	402409 -138 Hz
2029-09-22	Saturday	17:30	221°	+40°	0 dB	0°	221°	+40°	266°	+5°	3.2dB	239°K	402453 -173 Hz
2029-09-22	Saturday	18:00	230°	+37°	0 dB	0°	230°	+37°	273°	+5°	3.2dB	239°K	402496 -205 Hz
2029-09-22	Saturday	18:30	237°	+33°	0 dB	0°	237°	+33°	281°	+5°	3.2dB	239°K	402540 -234 Hz
2029-09-22	Saturday	19:00	244°	+29°	0 dB	0°	244°	+29°	288°	+5°	3.2dB	239°K	402583 -259 Hz
2029-09-22	Saturday	19:30	250°	+24°	0 dB	0°	250°	+24°	295°	+5°	3.2dB	239°K	402626 -280 Hz
2029-09-22	Saturday	20:00	256°	+19°	0 dB	0°	256°	+19°	302°	+5°	3.2dB	239°K	402668 -296 Hz
2029-09-22	Saturday	20:30	262°	+14°	0 dB	0°	262°	+14°	310°	+5°	3.2dB	239°K	402711 -308 Hz
2029-09-22	Saturday	21:00	267°	+9°	0 dB	0°	267°	+9°	317°	+5°	3.2dB	243°K	402753 -315 Hz
2029-09-22	Saturday	21:30	273°	+4°	0 dB	0°	273°	+4°	324°	+6°	3.3dB	244°K	402795 -318 Hz
2029-09-23	Sunday	09:30	080°	+0°	0 dB	0°	080°	+0°	139°	+8°	3.5dB	257°K	403734 +280 Hz
2029-09-23	Sunday	10:00	085°	+5°	0 dB	0°	085°	+5°	146°	+8°	3.5dB	257°K	403771 +283 Hz
2029-09-23	Sunday	10:30	090°	+10°	0 dB	0°	090°	+10°	154°	+8°	3.5dB	258°K	403806 +282 Hz
2029-09-23	Sunday	11:00	095°	+15°	0 dB	0°	095°	+15°	161°	+8°	3.5dB	258°K	403842 +275 Hz
2029-09-23	Sunday	11:30	101°	+20°	0 dB	0°	101°	+20°	168°	+8°	3.5dB	259°K	403878 +264 Hz
2029-09-23	Sunday	12:00	106°	+25°	0 dB	0°	106°	+25°	176°	+8°	3.5dB	259°K	403913 +248 Hz
2029-09-23	Sunday	12:30	112°	+30°	0 dB	0°	112°	+30°	183°	+8°	3.5dB	260°K	403948 +228 Hz
2029-09-23	Sunday	13:00	119°	+35°	0 dB	0°	119°	+35°	190°	+9°	3.5dB	260°K	403982 +204 Hz
2029-09-23	Sunday	13:30	126°	+39°	0 dB	0°	126°	+39°	197°	+9°	3.6dB	261°K	404017 +176 Hz
2029-09-23	Sunday	14:00	134°	+43°	0 dB	0°	134°	+43°	205°	+9°	3.6dB	262°K	404051 +144 Hz
2029-09-23	Sunday	14:30	144°	+47°	0 dB	0°	144°	+47°	212°	+9°	3.6dB	262°K	404085 +110 Hz
2029-09-23	Sunday	15:00	154°	+50°	0 dB	0°	154°	+50°	219°	+9°	3.6dB	263°K	404118 +74 Hz
2029-09-23	Sunday	15:30	165°	+51°	0 dB	0°	165°	+51°	227°	+9°	3.6dB	263°K	404152 +36 Hz
2029-09-23	Sunday	16:00	177°	+52°	0 dB	0°	177°	+52°	234°	+9°	3.6dB	264°K	404185 -3 Hz
2029-09-23	Sunday	16:30	188°	+52°	0 dB	0°	188°	+52°	241°	+9°	3.6dB	264°K	404218 -42 Hz
2029-09-23	Sunday	17:00	200°	+51°	0 dB	0°	200°	+51°	248°	+9°	3.6dB	265°K	404250 -80 Hz
2029-09-23	Sunday	17:30	211°	+49°	0 dB	0°	211°	+49°	256°	+9°	3.6dB	265°K	404282 -117 Hz
2029-09-23	Sunday	18:00	221°	+46°	0 dB	0°	221°	+46°	263°	+10°	3.6dB	266°K	404314 -152 Hz
2029-09-23	Sunday	18:30	230°	+43°	0 dB	0°	230°	+43°	270°	+10°	3.6dB	266°K	404346 -185 Hz
2029-09-23	Sunday	19:00	238°	+39°	0 dB	0°	238°	+39°	278°	+10°	3.6dB	267°K	404378 -215 Hz
2029-09-23	Sunday	19:30	245°	+34°	0 dB	0°	245°	+34°	285°	+10°	3.6dB	267°K	404409 -242 Hz
2029-09-23	Sunday	20:00	251°	+29°	0 dB	0°	251°	+29°	292°	+10°	3.7dB	268°K	404440 -264 Hz
2029-09-23	Sunday	20:30	257°	+25°	0 dB	0°	257°	+25°	299°	+10°	3.7dB	269°K	404471 -282 Hz
2029-09-23	Sunday	21:00	263°	+20°	0 dB	0°	263°	+20°	307°	+10°	3.7dB	269°K	404501 -296 Hz
2029-09-23	Sunday	21:30	268°	+15°	0 dB	0°	268°	+15°	314°	+10°	3.7dB	270°K	404531 -304 Hz
2029-09-23	Sunday	22:00	274°	+10°	0 dB	0°	274°	+10°	321°	+10°	3.7dB	270°K	404561 -308 Hz
2029-09-23	Sunday	22:30	279°	+5°	0 dB	0°	279°	+5°	329°	+10°	3.7dB	271°K	404591 -308 Hz
2029-09-23	Sunday	23:00	284°	-0°	0 dB	0°	284°	-0°	336°	+10°	3.7dB	271°K	404620 -302 Hz
2029-09-24	Monday	10:00	074°	+1°	0 dB	0°	074°	+1°	136°	+12°	3.9dB	283°K	405195 +280 Hz
2029-09-24	Monday	10:30	079°	+6°	0 dB	0°	079°	+6°	143°	+13°	3.9dB	284°K	405218 +285 Hz
2029-09-24	Monday	11:00	085°	+11°	0 dB	0°	085°	+11°	151°	+13°	3.9dB	284°K	405240 +286 Hz
2029-09-24	Monday	11:30	090°	+17°	0 dB	0°	090°	+17°	158°	+13°	3.9dB	285°K	405263 +282 Hz
2029-09-24	Monday	12:00	095°	+22°	0 dB	0°	095°	+22°	165°	+13°	3.9dB	286°K	405285 +273 Hz
2029-09-24	Monday	12:30	100°	+27°	0 dB	0°	100°	+27°	173°	+13°	3.9dB	286°K	405306 +259 Hz
2029-09-24	Monday	13:00	106°	+32°	0 dB	0°	106°	+32°	180°	+13°	3.9dB	287°K	405327 +241 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-24	Monday	13:30	113°	+37°	0 dB	0°	113°	+37°	187°	+13°	3.9dB	287°K	405348 +218 Hz
2029-09-24	Monday	14:00	120°	+41°	0 dB	0°	120°	+41°	194°	+13°	4.0dB	288°K	405369 +192 Hz
2029-09-24	Monday	14:30	128°	+46°	0 dB	0°	128°	+46°	202°	+13°	4.0dB	288°K	405389 +162 Hz
2029-09-24	Monday	15:00	137°	+49°	0 dB	0°	137°	+49°	209°	+13°	4.0dB	289°K	405409 +130 Hz
2029-09-24	Monday	15:30	147°	+53°	0 dB	0°	147°	+53°	216°	+13°	4.0dB	289°K	405429 +95 Hz
2029-09-24	Monday	16:00	158°	+55°	0 dB	0°	158°	+55°	224°	+13°	4.0dB	290°K	405449 +58 Hz
2029-09-24	Monday	16:30	171°	+57°	0 dB	0°	171°	+57°	231°	+14°	4.0dB	291°K	405468 +20 Hz
2029-09-24	Monday	17:00	184°	+57°	0 dB	0°	184°	+57°	238°	+14°	4.0dB	291°K	405486 -18 Hz
2029-09-24	Monday	17:30	197°	+56°	0 dB	0°	197°	+56°	245°	+14°	4.0dB	292°K	405505 -56 Hz
2029-09-24	Monday	18:00	209°	+54°	0 dB	0°	209°	+54°	253°	+14°	4.0dB	292°K	405523 -93 Hz
2029-09-24	Monday	18:30	220°	+51°	0 dB	0°	220°	+51°	260°	+14°	4.0dB	293°K	405541 -129 Hz
2029-09-24	Monday	19:00	229°	+48°	0 dB	0°	229°	+48°	267°	+14°	4.0dB	293°K	405558 -162 Hz
2029-09-24	Monday	19:30	238°	+44°	0 dB	0°	238°	+44°	275°	+14°	4.0dB	294°K	405576 -193 Hz
2029-09-24	Monday	20:00	245°	+39°	0 dB	0°	245°	+39°	282°	+14°	4.0dB	294°K	405592 -220 Hz
2029-09-24	Monday	20:30	252°	+35°	0 dB	0°	252°	+35°	289°	+14°	4.1dB	295°K	405609 -244 Hz
2029-09-24	Monday	21:00	258°	+30°	0 dB	0°	258°	+30°	296°	+14°	4.1dB	295°K	405625 -264 Hz
2029-09-24	Monday	21:30	264°	+25°	0 dB	0°	264°	+25°	304°	+14°	4.1dB	296°K	405641 -279 Hz
2029-09-24	Monday	22:00	269°	+20°	0 dB	0°	269°	+20°	311°	+14°	4.1dB	296°K	405657 -290 Hz
2029-09-24	Monday	22:30	275°	+15°	0 dB	0°	275°	+15°	318°	+15°	4.1dB	296°K	405672 -296 Hz
2029-09-24	Monday	23:00	280°	+10°	0 dB	0°	280°	+10°	325°	+15°	4.1dB	297°K	405687 -297 Hz
2029-09-24	Monday	23:30	285°	+5°	0 dB	0°	285°	+5°	333°	+15°	4.1dB	297°K	405701 -293 Hz
2029-09-25	Tuesday	00:00	290°	+0°	0 dB	0°	290°	+0°	340°	+15°	4.1dB	297°K	405716 -285 Hz
2029-09-25	Tuesday	10:30	069°	+2°	0 dB	0°	069°	+2°	133°	+16°	4.2dB	303°K	405936 +280 Hz
2029-09-25	Tuesday	11:00	074°	+7°	0 dB	0°	074°	+7°	140°	+16°	4.2dB	303°K	405943 +287 Hz
2029-09-25	Tuesday	11:30	079°	+12°	0 dB	0°	079°	+12°	147°	+17°	4.2dB	304°K	405949 +290 Hz
2029-09-25	Tuesday	12:00	084°	+17°	0 dB	0°	084°	+17°	155°	+17°	4.2dB	304°K	405955 +287 Hz
2029-09-25	Tuesday	12:30	089°	+22°	0 dB	0°	089°	+22°	162°	+17°	4.2dB	305°K	405961 +281 Hz
2029-09-25	Tuesday	13:00	095°	+27°	0 dB	0°	095°	+27°	169°	+17°	4.2dB	306°K	405966 +269 Hz
2029-09-25	Tuesday	13:30	100°	+32°	0 dB	0°	100°	+32°	177°	+17°	4.2dB	308°K	405971 +253 Hz
2029-09-25	Tuesday	14:00	106°	+37°	0 dB	0°	106°	+37°	184°	+17°	4.2dB	309°K	405975 +233 Hz
2029-09-25	Tuesday	14:30	113°	+42°	0 dB	0°	113°	+42°	191°	+17°	4.3dB	311°K	405979 +209 Hz
2029-09-25	Tuesday	15:00	120°	+47°	0 dB	0°	120°	+47°	198°	+17°	4.3dB	312°K	405983 +181 Hz
2029-09-25	Tuesday	15:30	129°	+51°	0 dB	0°	129°	+51°	206°	+17°	4.3dB	313°K	405986 +151 Hz
2029-09-25	Tuesday	16:00	139°	+55°	0 dB	0°	139°	+55°	213°	+17°	4.3dB	315°K	405989 +117 Hz
2029-09-25	Tuesday	16:30	150°	+58°	0 dB	0°	150°	+58°	220°	+17°	4.3dB	316°K	405992 +82 Hz
2029-09-25	Tuesday	17:00	163°	+60°	0 dB	0°	163°	+60°	227°	+17°	4.3dB	318°K	405994 +45 Hz
2029-09-25	Tuesday	17:30	177°	+61°	0 dB	0°	177°	+61°	235°	+17°	4.4dB	319°K	405996 +8 Hz
2029-09-25	Tuesday	18:00	192°	+60°	0 dB	0°	192°	+60°	242°	+17°	4.4dB	321°K	405998 -29 Hz
2029-09-25	Tuesday	18:30	205°	+59°	0 dB	0°	205°	+59°	249°	+18°	4.4dB	322°K	405999 -66 Hz
2029-09-25	Tuesday	19:00	218°	+56°	0 dB	0°	218°	+56°	257°	+18°	4.4dB	323°K	406000 -102 Hz
2029-09-25	Tuesday	19:30	228°	+53°	0 dB	0°	228°	+53°	264°	+18°	4.4dB	325°K	406000 -136 Hz
2029-09-25	Tuesday	20:00	237°	+49°	0 dB	0°	237°	+49°	271°	+18°	4.4dB	326°K	406000 -167 Hz
2029-09-25	Tuesday	20:30	245°	+44°	0 dB	0°	245°	+44°	278°	+18°	4.5dB	328°K	406000 -196 Hz
2029-09-25	Tuesday	21:00	252°	+40°	0 dB	0°	252°	+40°	286°	+18°	4.5dB	329°K	405999 -221 Hz
2029-09-25	Tuesday	21:30	259°	+35°	0 dB	0°	259°	+35°	293°	+18°	4.5dB	331°K	405998 -242 Hz
2029-09-25	Tuesday	22:00	264°	+30°	0 dB	0°	264°	+30°	300°	+18°	4.5dB	332°K	405996 -259 Hz
2029-09-25	Tuesday	22:30	270°	+25°	0 dB	0°	270°	+25°	307°	+18°	4.5dB	333°K	405994 -271 Hz
2029-09-25	Tuesday	23:00	275°	+20°	0 dB	0°	275°	+20°	315°	+18°	4.5dB	335°K	405992 -279 Hz
2029-09-25	Tuesday	23:30	280°	+15°	0 dB	0°	280°	+15°	322°	+18°	4.5dB	336°K	405989 -283 Hz
2029-09-26	wednesday	00:00	285°	+10°	0 dB	0°	285°	+10°	329°	+18°	4.6dB	338°K	405986 -281 Hz
2029-09-26	wednesday	00:30	290°	+5°	0 dB	0°	290°	+5°	337°	+18°	4.6dB	339°K	405983 -276 Hz
2029-09-26	wednesday	01:00	295°	+1°	0 dB	0°	295°	+1°	344°	+18°	4.6dB	341°K	405979 -265 Hz
2029-09-26	wednesday	11:00	064°	+2°	0 dB	0°	064°	+2°	129°	+20°	4.8dB	359°K	405818 +279 Hz
2029-09-26	wednesday	11:30	069°	+7°	0 dB	0°	069°	+7°	136°	+20°	4.8dB	359°K	405805 +288 Hz
2029-09-26	wednesday	12:00	074°	+12°	0 dB	0°	074°	+12°	144°	+20°	4.8dB	360°K	405792 +293 Hz
2029-09-26	wednesday	12:30	079°	+17°	0 dB	0°	079°	+17°	151°	+20°	4.8dB	361°K	405779 +293 Hz
2029-09-26	wednesday	13:00	084°	+22°	0 dB	0°	084°	+22°	158°	+20°	4.8dB	362°K	405766 +289 Hz
2029-09-26	wednesday	13:30	089°	+27°	0 dB	0°	089°	+27°	165°	+20°	4.8dB	362°K	405752 +280 Hz
2029-09-26	wednesday	14:00	095°	+32°	0 dB	0°	095°	+32°	173°	+20°	4.8dB	363°K	405737 +267 Hz
2029-09-26	wednesday	14:30	100°	+37°	0 dB	0°	100°	+37°	180°	+20°	4.8dB	364°K	405722 +249 Hz
2029-09-26	wednesday	15:00	106°	+42°	0 dB	0°	106°	+42°	187°	+20°	4.8dB	365°K	405707 +228 Hz
2029-09-26	wednesday	15:30	113°	+47°	0 dB	0°	113°	+47°	195°	+20°	4.8dB	365°K	405691 +202 Hz
2029-09-26	wednesday	16:00	121°	+51°	0 dB	0°	121°	+51°	202°	+20°	4.9dB	366°K	405675 +174 Hz
2029-09-26	wednesday	16:30	130°	+56°	0 dB	0°	130°	+56°	209°	+20°	4.9dB	367°K	405659 +143 Hz
2029-09-26	wednesday	17:00	141°	+59°	0 dB	0°	141°	+59°	216°	+20°	4.9dB	368°K	405642 +109 Hz
2029-09-26	wednesday	17:30	154°	+62°	0 dB	0°	154°	+62°	224°	+20°	4.9dB	368°K	405624 +74 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-26	wednesday18:00	169°	+64°	0 dB	0°	169°	+64°	231°	+20°	4.9dB	369°K	405607	+37 Hz
2029-09-26	wednesday18:30	185°	+64°	0 dB	0°	185°	+64°	238°	+21°	4.9dB	369°K	405588	+1 Hz
2029-09-26	wednesday19:00	200°	+63°	0 dB	0°	200°	+63°	245°	+21°	4.9dB	368°K	405570	-36 Hz
2029-09-26	wednesday19:30	214°	+61°	0 dB	0°	214°	+61°	253°	+21°	4.9dB	367°K	405550	-72 Hz
2029-09-26	wednesday20:00	225°	+57°	0 dB	0°	225°	+57°	260°	+21°	4.8dB	366°K	405531	-106 Hz
2029-09-26	wednesday20:30	236°	+54°	0 dB	0°	236°	+54°	267°	+21°	4.8dB	366°K	405511	-138 Hz
2029-09-26	wednesday21:00	244°	+49°	0 dB	0°	244°	+49°	274°	+21°	4.8dB	365°K	405491	-167 Hz
2029-09-26	wednesday21:30	251°	+44°	0 dB	0°	251°	+44°	282°	+21°	4.8dB	364°K	405470	-194 Hz
2029-09-26	wednesday22:00	258°	+40°	0 dB	0°	258°	+40°	289°	+21°	4.8dB	363°K	405448	-217 Hz
2029-09-26	wednesday22:30	264°	+35°	0 dB	0°	264°	+35°	296°	+21°	4.8dB	363°K	405427	-235 Hz
2029-09-26	wednesday23:00	269°	+30°	0 dB	0°	269°	+30°	304°	+21°	4.8dB	362°K	405405	-250 Hz
2029-09-26	wednesday23:30	275°	+25°	0 dB	0°	275°	+25°	311°	+21°	4.8dB	361°K	405382	-260 Hz
2029-09-27	Thursday 00:00	280°	+20°	0 dB	0°	280°	+20°	318°	+21°	4.8dB	360°K	405359	-266 Hz
2029-09-27	Thursday 00:30	284°	+15°	0 dB	0°	284°	+15°	325°	+21°	4.8dB	360°K	405335	-267 Hz
2029-09-27	Thursday 01:00	289°	+10°	0 dB	0°	289°	+10°	333°	+21°	4.8dB	359°K	405312	-264 Hz
2029-09-27	Thursday 01:30	294°	+5°	0 dB	0°	294°	+5°	340°	+21°	4.8dB	358°K	405287	-256 Hz
2029-09-27	Thursday 02:00	300°	+1°	0 dB	0°	300°	+1°	347°	+21°	4.7dB	357°K	405262	-245 Hz
2029-09-27	Thursday 11:30	060°	+1°	0 dB	0°	060°	+1°	125°	+22°	4.7dB	352°K	404706	+278 Hz
2029-09-27	Thursday 12:00	065°	+6°	0 dB	0°	065°	+6°	132°	+22°	4.7dB	353°K	404672	+290 Hz
2029-09-27	Thursday 12:30	070°	+11°	0 dB	0°	070°	+11°	140°	+22°	4.7dB	353°K	404638	+297 Hz
2029-09-27	Thursday 13:00	075°	+15°	0 dB	0°	075°	+15°	147°	+22°	4.7dB	354°K	404603	+300 Hz
2029-09-27	Thursday 13:30	080°	+20°	0 dB	0°	080°	+20°	154°	+22°	4.7dB	355°K	404568	+299 Hz
2029-09-27	Thursday 14:00	084°	+25°	0 dB	0°	084°	+25°	161°	+22°	4.7dB	356°K	404532	+293 Hz
2029-09-27	Thursday 14:30	089°	+31°	0 dB	0°	089°	+31°	169°	+22°	4.7dB	357°K	404496	+282 Hz
2029-09-27	Thursday 15:00	095°	+36°	0 dB	0°	095°	+36°	176°	+22°	4.7dB	357°K	404460	+267 Hz
2029-09-27	Thursday 15:30	101°	+41°	0 dB	0°	101°	+41°	183°	+22°	4.7dB	358°K	404423	+248 Hz
2029-09-27	Thursday 16:00	107°	+46°	0 dB	0°	107°	+46°	190°	+22°	4.7dB	359°K	404385	+226 Hz
2029-09-27	Thursday 16:30	114°	+50°	0 dB	0°	114°	+50°	198°	+22°	4.7dB	360°K	404347	+199 Hz
2029-09-27	Thursday 17:00	122°	+55°	0 dB	0°	122°	+55°	205°	+23°	4.7dB	360°K	404309	+170 Hz
2029-09-27	Thursday 17:30	132°	+59°	0 dB	0°	132°	+59°	212°	+23°	4.7dB	361°K	404270	+138 Hz
2029-09-27	Thursday 18:00	145°	+62°	0 dB	0°	145°	+62°	219°	+23°	4.7dB	362°K	404231	+105 Hz
2029-09-27	Thursday 18:30	159°	+65°	0 dB	0°	159°	+65°	227°	+23°	4.8dB	363°K	404191	+69 Hz
2029-09-27	Thursday 19:00	175°	+66°	0 dB	0°	175°	+66°	234°	+23°	4.8dB	363°K	404150	+33 Hz
2029-09-27	Thursday 19:30	192°	+66°	0 dB	0°	192°	+66°	241°	+23°	4.8dB	364°K	404110	-3 Hz
2029-09-27	Thursday 20:00	207°	+64°	0 dB	0°	207°	+64°	248°	+23°	4.8dB	365°K	404068	-38 Hz
2029-09-27	Thursday 20:30	221°	+61°	0 dB	0°	221°	+61°	256°	+23°	4.8dB	366°K	404027	-73 Hz
2029-09-27	Thursday 21:00	232°	+58°	0 dB	0°	232°	+58°	263°	+23°	4.8dB	367°K	403985	-106 Hz
2029-09-27	Thursday 21:30	241°	+53°	0 dB	0°	241°	+53°	270°	+23°	4.8dB	367°K	403942	-136 Hz
2029-09-27	Thursday 22:00	249°	+49°	0 dB	0°	249°	+49°	277°	+23°	4.8dB	368°K	403899	-164 Hz
2029-09-27	Thursday 22:30	256°	+44°	0 dB	0°	256°	+44°	285°	+23°	4.8dB	369°K	403855	-189 Hz
2029-09-27	Thursday 23:00	262°	+39°	0 dB	0°	262°	+39°	292°	+23°	4.8dB	370°K	403811	-210 Hz
2029-09-27	Thursday 23:30	268°	+34°	0 dB	0°	268°	+34°	299°	+23°	4.8dB	371°K	403767	-227 Hz
2029-09-28	Friday 00:00	273°	+29°	0 dB	0°	273°	+29°	306°	+23°	4.8dB	372°K	403722	-240 Hz
2029-09-28	Friday 00:30	278°	+24°	0 dB	0°	278°	+24°	314°	+23°	4.8dB	373°K	403676	-248 Hz
2029-09-28	Friday 01:00	283°	+19°	0 dB	0°	283°	+19°	321°	+23°	4.8dB	374°K	403630	-252 Hz
2029-09-28	Friday 01:30	288°	+14°	0 dB	0°	288°	+14°	328°	+23°	4.9dB	375°K	403584	-252 Hz
2029-09-28	Friday 02:00	293°	+9°	0 dB	0°	293°	+9°	335°	+23°	4.9dB	376°K	403537	-247 Hz
2029-09-28	Friday 02:30	298°	+5°	0 dB	0°	298°	+5°	343°	+23°	4.9dB	377°K	403490	-238 Hz
2029-09-28	Friday 03:00	303°	+1°	0 dB	0°	303°	+1°	350°	+23°	4.9dB	378°K	403442	-224 Hz
2029-09-28	Friday 12:00	056°	-0°	0 dB	0°	056°	-0°	120°	+24°	5.0dB	398°K	402500	+278 Hz
2029-09-28	Friday 12:30	061°	+4°	0 dB	0°	061°	+4°	128°	+24°	5.0dB	399°K	402443	+292 Hz
2029-09-28	Friday 13:00	066°	+9°	0 dB	0°	066°	+9°	135°	+24°	5.0dB	400°K	402386	+302 Hz
2029-09-28	Friday 13:30	071°	+13°	0 dB	0°	071°	+13°	142°	+24°	5.1dB	402°K	402328	+307 Hz
2029-09-28	Friday 14:00	075°	+18°	0 dB	0°	075°	+18°	149°	+24°	5.1dB	403°K	402270	+309 Hz
2029-09-28	Friday 14:30	080°	+23°	0 dB	0°	080°	+23°	157°	+24°	5.1dB	404°K	402211	+306 Hz
2029-09-28	Friday 15:00	085°	+28°	0 dB	0°	085°	+28°	164°	+24°	5.1dB	406°K	402152	+298 Hz
2029-09-28	Friday 15:30	090°	+33°	0 dB	0°	090°	+33°	171°	+24°	5.1dB	407°K	402092	+286 Hz
2029-09-28	Friday 16:00	096°	+38°	0 dB	0°	096°	+38°	178°	+24°	5.1dB	408°K	402032	+270 Hz
2029-09-28	Friday 16:30	101°	+43°	0 dB	0°	101°	+43°	186°	+24°	5.1dB	409°K	401971	+250 Hz
2029-09-28	Friday 17:00	108°	+48°	0 dB	0°	108°	+48°	193°	+24°	5.1dB	411°K	401910	+227 Hz
2029-09-28	Friday 17:30	116°	+53°	0 dB	0°	116°	+53°	200°	+24°	5.1dB	412°K	401848	+200 Hz
2029-09-28	Friday 18:00	124°	+57°	0 dB	0°	124°	+57°	207°	+24°	5.1dB	413°K	401786	+170 Hz
2029-09-28	Friday 18:30	135°	+61°	0 dB	0°	135°	+61°	215°	+24°	5.1dB	414°K	401724	+138 Hz
2029-09-28	Friday 19:00	148°	+64°	0 dB	0°	148°	+64°	222°	+24°	5.2dB	416°K	401661	+104 Hz
2029-09-28	Friday 19:30	164°	+67°	0 dB	0°	164°	+67°	229°	+24°	5.2dB	417°K	401597	+69 Hz
2029-09-28	Friday 20:00	181°	+67°	0 dB	0°	181°	+67°	236°	+24°	5.2dB	418°K	401533	+33 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-28	Friday	20:30	198°	+66°	0 dB	0°	198°	+66°	244°	+24°	5.2dB	419°K	401469 -3 Hz
2029-09-28	Friday	21:00	213°	+64°	0 dB	0°	213°	+64°	251°	+24°	5.2dB	421°K	401404 -38 Hz
2029-09-28	Friday	21:30	226°	+61°	0 dB	0°	226°	+61°	258°	+24°	5.2dB	422°K	401338 -72 Hz
2029-09-28	Friday	22:00	237°	+57°	0 dB	0°	237°	+57°	265°	+24°	5.2dB	423°K	401272 -104 Hz
2029-09-28	Friday	22:30	245°	+53°	0 dB	0°	245°	+53°	273°	+24°	5.2dB	425°K	401206 -133 Hz
2029-09-28	Friday	23:00	253°	+48°	0 dB	0°	253°	+48°	280°	+24°	5.2dB	426°K	401139 -160 Hz
2029-09-28	Friday	23:30	259°	+43°	0 dB	0°	259°	+43°	287°	+24°	5.2dB	427°K	401072 -183 Hz
2029-09-29	Saturday	00:00	265°	+38°	0 dB	0°	265°	+38°	294°	+24°	5.2dB	428°K	401004 -202 Hz
2029-09-29	Saturday	00:30	270°	+33°	0 dB	0°	270°	+33°	302°	+24°	5.3dB	430°K	400935 -218 Hz
2029-09-29	Saturday	01:00	276°	+28°	0 dB	0°	276°	+28°	309°	+24°	5.3dB	431°K	400867 -229 Hz
2029-09-29	Saturday	01:30	280°	+23°	0 dB	0°	280°	+23°	316°	+24°	5.3dB	432°K	400797 -236 Hz
2029-09-29	Saturday	02:00	285°	+18°	0 dB	0°	285°	+18°	323°	+24°	5.3dB	433°K	400728 -239 Hz
2029-09-29	Saturday	02:30	290°	+13°	0 dB	0°	290°	+13°	331°	+24°	5.3dB	435°K	400658 -237 Hz
2029-09-29	Saturday	03:00	295°	+8°	0 dB	0°	295°	+8°	338°	+24°	5.3dB	437°K	400587 -231 Hz
2029-09-29	Saturday	03:30	300°	+4°	0 dB	0°	300°	+4°	345°	+24°	5.3dB	440°K	400516 -220 Hz
2029-09-29	Saturday	04:00	305°	-0°	0 dB	0°	305°	-0°	352°	+24°	5.3dB	442°K	400444 -206 Hz
2029-09-29	Saturday	13:00	057°	+1°	0 dB	0°	057°	+1°	123°	+24°	5.6dB	485°K	399075 +293 Hz
2029-09-29	Saturday	13:30	062°	+6°	0 dB	0°	062°	+6°	130°	+24°	5.7dB	488°K	398994 +306 Hz
2029-09-29	Saturday	14:00	067°	+10°	0 dB	0°	067°	+10°	137°	+24°	5.7dB	490°K	398913 +315 Hz
2029-09-29	Saturday	14:30	072°	+15°	0 dB	0°	072°	+15°	144°	+24°	5.7dB	492°K	398832 +319 Hz
2029-09-29	Saturday	15:00	077°	+20°	0 dB	0°	077°	+20°	152°	+24°	5.7dB	495°K	398750 +319 Hz
2029-09-29	Saturday	15:30	082°	+25°	0 dB	0°	082°	+25°	159°	+24°	5.7dB	497°K	398668 +315 Hz
2029-09-29	Saturday	16:00	087°	+30°	0 dB	0°	087°	+30°	166°	+24°	5.7dB	500°K	398585 +306 Hz
2029-09-29	Saturday	16:30	092°	+35°	0 dB	0°	092°	+35°	173°	+24°	5.7dB	500°K	398502 +293 Hz
2029-09-29	Saturday	17:00	097°	+40°	0 dB	0°	097°	+40°	181°	+24°	5.7dB	500°K	398418 +276 Hz
2029-09-29	Saturday	17:30	103°	+45°	0 dB	0°	103°	+45°	188°	+24°	5.7dB	500°K	398334 +255 Hz
2029-09-29	Saturday	18:00	110°	+50°	0 dB	0°	110°	+50°	195°	+24°	5.7dB	500°K	398249 +230 Hz
2029-09-29	Saturday	18:30	118°	+54°	0 dB	0°	118°	+54°	202°	+24°	5.7dB	500°K	398164 +202 Hz
2029-09-29	Saturday	19:00	128°	+59°	0 dB	0°	128°	+59°	210°	+24°	5.7dB	500°K	398078 +172 Hz
2029-09-29	Saturday	19:30	139°	+62°	0 dB	0°	139°	+62°	217°	+24°	5.7dB	500°K	397992 +139 Hz
2029-09-29	Saturday	20:00	153°	+65°	0 dB	0°	153°	+65°	224°	+24°	5.7dB	500°K	397906 +105 Hz
2029-09-29	Saturday	20:30	169°	+67°	0 dB	0°	169°	+67°	231°	+24°	5.7dB	500°K	397819 +69 Hz
2029-09-29	Saturday	21:00	186°	+67°	0 dB	0°	186°	+67°	239°	+24°	5.7dB	500°K	397732 +34 Hz
2029-09-29	Saturday	21:30	203°	+66°	0 dB	0°	203°	+66°	246°	+24°	5.7dB	500°K	397644 -2 Hz
2029-09-29	Saturday	22:00	217°	+63°	0 dB	0°	217°	+63°	253°	+24°	5.7dB	500°K	397556 -37 Hz
2029-09-29	Saturday	22:30	229°	+60°	0 dB	0°	229°	+60°	260°	+24°	5.7dB	500°K	397467 -70 Hz
2029-09-29	Saturday	23:00	239°	+56°	0 dB	0°	239°	+56°	268°	+24°	5.7dB	500°K	397378 -101 Hz
2029-09-29	Saturday	23:30	247°	+51°	0 dB	0°	247°	+51°	275°	+24°	5.7dB	500°K	397289 -130 Hz
2029-09-30	Sunday	00:00	255°	+46°	0 dB	0°	255°	+46°	282°	+24°	5.7dB	500°K	397199 -156 Hz
2029-09-30	Sunday	00:30	261°	+41°	0 dB	0°	261°	+41°	289°	+24°	5.7dB	500°K	397108 -178 Hz
2029-09-30	Sunday	01:00	267°	+36°	0 dB	0°	267°	+36°	297°	+24°	5.7dB	500°K	397017 -197 Hz
2029-09-30	Sunday	01:30	272°	+31°	0 dB	0°	272°	+31°	304°	+24°	5.7dB	500°K	396926 -211 Hz
2029-09-30	Sunday	02:00	277°	+26°	0 dB	0°	277°	+26°	311°	+24°	5.7dB	500°K	396834 -221 Hz
2029-09-30	Sunday	02:30	282°	+21°	0 dB	0°	282°	+21°	318°	+24°	5.7dB	500°K	396742 -227 Hz
2029-09-30	Sunday	03:00	286°	+16°	0 dB	0°	286°	+16°	326°	+23°	5.6dB	500°K	396649 -228 Hz
2029-09-30	Sunday	03:30	291°	+11°	0 dB	0°	291°	+11°	333°	+23°	5.6dB	500°K	396556 -225 Hz
2029-09-30	Sunday	04:00	296°	+7°	0 dB	0°	296°	+7°	340°	+23°	5.6dB	500°K	396463 -218 Hz
2029-09-30	Sunday	04:30	301°	+2°	0 dB	0°	301°	+2°	347°	+23°	5.6dB	500°K	396369 -206 Hz
2029-09-30	Sunday	14:00	059°	+2°	0 dB	0°	059°	+2°	125°	+23°	5.1dB	445°K	394504 +309 Hz
2029-09-30	Sunday	14:30	064°	+6°	0 dB	0°	064°	+6°	132°	+23°	5.1dB	442°K	394402 +321 Hz
2029-09-30	Sunday	15:00	069°	+11°	0 dB	0°	069°	+11°	139°	+23°	5.0dB	438°K	394300 +329 Hz
2029-09-30	Sunday	15:30	074°	+16°	0 dB	0°	074°	+16°	147°	+23°	5.0dB	435°K	394197 +332 Hz
2029-09-30	Sunday	16:00	079°	+21°	0 dB	0°	079°	+21°	154°	+23°	5.0dB	432°K	394093 +331 Hz
2029-09-30	Sunday	16:30	084°	+26°	0 dB	0°	084°	+26°	161°	+23°	4.9dB	429°K	393989 +325 Hz
2029-09-30	Sunday	17:00	089°	+31°	0 dB	0°	089°	+31°	168°	+23°	4.9dB	425°K	393885 +315 Hz
2029-09-30	Sunday	17:30	094°	+36°	0 dB	0°	094°	+36°	176°	+23°	4.9dB	422°K	393781 +301 Hz
2029-09-30	Sunday	18:00	100°	+41°	0 dB	0°	100°	+41°	183°	+23°	4.8dB	419°K	393676 +282 Hz
2029-09-30	Sunday	18:30	106°	+46°	0 dB	0°	106°	+46°	190°	+23°	4.8dB	416°K	393570 +260 Hz
2029-09-30	Sunday	19:00	114°	+50°	0 dB	0°	114°	+50°	197°	+23°	4.8dB	413°K	393464 +234 Hz
2029-09-30	Sunday	19:30	122°	+55°	0 dB	0°	122°	+55°	205°	+23°	4.8dB	411°K	393358 +205 Hz
2029-09-30	Sunday	20:00	132°	+59°	0 dB	0°	132°	+59°	212°	+23°	4.7dB	409°K	393252 +174 Hz
2029-09-30	Sunday	20:30	144°	+62°	0 dB	0°	144°	+62°	219°	+22°	4.7dB	408°K	393145 +140 Hz
2029-09-30	Sunday	21:00	158°	+65°	0 dB	0°	158°	+65°	226°	+22°	4.7dB	406°K	393038 +105 Hz
2029-09-30	Sunday	21:30	174°	+66°	0 dB	0°	174°	+66°	233°	+22°	4.7dB	404°K	392930 +69 Hz
2029-09-30	Sunday	22:00	191°	+65°	0 dB	0°	191°	+65°	241°	+22°	4.7dB	403°K	392822 +33 Hz
2029-09-30	Sunday	22:30	206°	+64°	0 dB	0°	206°	+64°	248°	+22°	4.6dB	401°K	392714 -3 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-09-30	Sunday	23:00	220°	+61°	0 dB	0°	220°	+61°	255°	+22°	4.6dB	400°K	392605 -37 Hz
2029-09-30	Sunday	23:30	231°	+57°	0 dB	0°	231°	+57°	262°	+22°	4.6dB	398°K	392496 -71 Hz
2029-10-01	Monday	00:00	240°	+53°	0 dB	0°	240°	+53°	270°	+22°	4.6dB	396°K	392386 -102 Hz
2029-10-01	Monday	00:30	248°	+49°	0 dB	0°	248°	+49°	277°	+22°	4.6dB	395°K	392276 -130 Hz
2029-10-01	Monday	01:00	255°	+44°	0 dB	0°	255°	+44°	284°	+22°	4.5dB	393°K	392166 -155 Hz
2029-10-01	Monday	01:30	261°	+39°	0 dB	0°	261°	+39°	291°	+22°	4.5dB	392°K	392056 -177 Hz
2029-10-01	Monday	02:00	267°	+34°	0 dB	0°	267°	+34°	299°	+22°	4.5dB	390°K	391945 -194 Hz
2029-10-01	Monday	02:30	272°	+29°	0 dB	0°	272°	+29°	306°	+22°	4.5dB	388°K	391833 -208 Hz
2029-10-01	Monday	03:00	277°	+24°	0 dB	0°	277°	+24°	313°	+22°	4.5dB	387°K	391722 -217 Hz
2029-10-01	Monday	03:30	282°	+19°	0 dB	0°	282°	+19°	320°	+22°	4.4dB	385°K	391610 -221 Hz
2029-10-01	Monday	04:00	287°	+14°	0 dB	0°	287°	+14°	328°	+22°	4.4dB	383°K	391498 -222 Hz
2029-10-01	Monday	04:30	291°	+9°	0 dB	0°	291°	+9°	335°	+22°	4.4dB	382°K	391385 -217 Hz
2029-10-01	Monday	05:00	296°	+4°	0 dB	0°	296°	+4°	342°	+22°	4.4dB	380°K	391272 -209 Hz
2029-10-01	Monday	05:30	301°	-0°	0 dB	0°	301°	-0°	349°	+22°	4.3dB	379°K	391159 -196 Hz
2029-10-01	Monday	15:00	062°	+2°	0 dB	0°	062°	+2°	127°	+21°	3.8dB	337°K	388945 +325 Hz
2029-10-01	Monday	15:30	067°	+6°	0 dB	0°	067°	+6°	134°	+21°	3.8dB	335°K	388825 +336 Hz
2029-10-01	Monday	16:00	072°	+11°	0 dB	0°	072°	+11°	141°	+21°	3.7dB	332°K	388705 +342 Hz
2029-10-01	Monday	16:30	077°	+16°	0 dB	0°	077°	+16°	149°	+21°	3.7dB	330°K	388585 +344 Hz
2029-10-01	Monday	17:00	082°	+20°	0 dB	0°	082°	+20°	156°	+21°	3.7dB	327°K	388465 +342 Hz
2029-10-01	Monday	17:30	087°	+25°	0 dB	0°	087°	+25°	163°	+20°	3.7dB	325°K	388344 +335 Hz
2029-10-01	Monday	18:00	093°	+30°	0 dB	0°	093°	+30°	170°	+20°	3.6dB	323°K	388223 +323 Hz
2029-10-01	Monday	18:30	098°	+35°	0 dB	0°	098°	+35°	178°	+20°	3.6dB	320°K	388102 +308 Hz
2029-10-01	Monday	19:00	104°	+40°	0 dB	0°	104°	+40°	185°	+20°	3.6dB	318°K	387980 +288 Hz
2029-10-01	Monday	19:30	111°	+45°	0 dB	0°	111°	+45°	192°	+20°	3.5dB	315°K	387859 +264 Hz
2029-10-01	Monday	20:00	119°	+50°	0 dB	0°	119°	+50°	199°	+20°	3.5dB	313°K	387737 +237 Hz
2029-10-01	Monday	20:30	127°	+54°	0 dB	0°	127°	+54°	207°	+20°	3.5dB	311°K	387614 +207 Hz
2029-10-01	Monday	21:00	138°	+58°	0 dB	0°	138°	+58°	214°	+20°	3.4dB	308°K	387492 +174 Hz
2029-10-01	Monday	21:30	150°	+61°	0 dB	0°	150°	+61°	221°	+20°	3.4dB	306°K	387369 +139 Hz
2029-10-01	Monday	22:00	164°	+63°	0 dB	0°	164°	+63°	228°	+20°	3.3dB	303°K	387246 +103 Hz
2029-10-01	Monday	22:30	179°	+63°	0 dB	0°	179°	+63°	236°	+20°	3.3dB	300°K	387123 +66 Hz
2029-10-01	Monday	23:00	194°	+63°	0 dB	0°	194°	+63°	243°	+20°	3.3dB	297°K	386999 +30 Hz
2029-10-01	Monday	23:30	208°	+61°	0 dB	0°	208°	+61°	250°	+20°	3.2dB	294°K	386876 -7 Hz
2029-10-02	Tuesday	00:00	220°	+58°	0 dB	0°	220°	+58°	257°	+20°	3.2dB	292°K	386752 -42 Hz
2029-10-02	Tuesday	00:30	231°	+54°	0 dB	0°	231°	+54°	265°	+20°	3.1dB	289°K	386628 -75 Hz
2029-10-02	Tuesday	01:00	240°	+50°	0 dB	0°	240°	+50°	272°	+20°	3.1dB	286°K	386503 -106 Hz
2029-10-02	Tuesday	01:30	247°	+45°	0 dB	0°	247°	+45°	279°	+19°	3.1dB	283°K	386379 -134 Hz
2029-10-02	Tuesday	02:00	254°	+40°	0 dB	0°	254°	+40°	286°	+19°	3.0dB	280°K	386254 -159 Hz
2029-10-02	Tuesday	02:30	260°	+35°	0 dB	0°	260°	+35°	294°	+19°	3.0dB	277°K	386129 -180 Hz
2029-10-02	Tuesday	03:00	266°	+30°	0 dB	0°	266°	+30°	301°	+19°	2.9dB	274°K	386003 -196 Hz
2029-10-02	Tuesday	03:30	271°	+25°	0 dB	0°	271°	+25°	308°	+19°	2.9dB	271°K	385878 -209 Hz
2029-10-02	Tuesday	04:00	276°	+20°	0 dB	0°	276°	+20°	315°	+19°	2.8dB	268°K	385752 -217 Hz
2029-10-02	Tuesday	04:30	281°	+15°	0 dB	0°	281°	+15°	322°	+19°	2.8dB	265°K	385626 -220 Hz
2029-10-02	Tuesday	05:00	286°	+10°	0 dB	0°	286°	+10°	330°	+19°	2.8dB	263°K	385500 -219 Hz
2029-10-02	Tuesday	05:30	291°	+5°	0 dB	0°	291°	+5°	337°	+19°	2.7dB	260°K	385374 -214 Hz
2029-10-02	Tuesday	06:00	296°	+1°	0 dB	0°	296°	+1°	344°	+19°	2.7dB	257°K	385247 -204 Hz
2029-10-02	Tuesday	16:00	066°	+0°	0 dB	0°	066°	+0°	129°	+17°	2.0dB	217°K	382682 +338 Hz
2029-10-02	Tuesday	16:30	071°	+5°	0 dB	0°	071°	+5°	136°	+17°	1.9dB	216°K	382552 +348 Hz
2029-10-02	Tuesday	17:00	076°	+10°	0 dB	0°	076°	+10°	144°	+17°	1.9dB	215°K	382422 +353 Hz
2029-10-02	Tuesday	17:30	081°	+15°	0 dB	0°	081°	+15°	151°	+17°	1.9dB	214°K	382292 +354 Hz
2029-10-02	Tuesday	18:00	086°	+20°	0 dB	0°	086°	+20°	158°	+17°	1.9dB	213°K	382162 +350 Hz
2029-10-02	Tuesday	18:30	092°	+25°	0 dB	0°	092°	+25°	165°	+17°	1.9dB	212°K	382032 +341 Hz
2029-10-02	Tuesday	19:00	097°	+30°	0 dB	0°	097°	+30°	173°	+17°	1.8dB	211°K	381902 +328 Hz
2029-10-02	Tuesday	19:30	103°	+34°	0 dB	0°	103°	+34°	180°	+17°	1.8dB	210°K	381772 +311 Hz
2029-10-02	Tuesday	20:00	109°	+39°	0 dB	0°	109°	+39°	187°	+17°	1.8dB	209°K	381641 +289 Hz
2029-10-02	Tuesday	20:30	116°	+44°	0 dB	0°	116°	+44°	194°	+17°	1.8dB	208°K	381511 +264 Hz
2029-10-02	Tuesday	21:00	124°	+48°	0 dB	0°	124°	+48°	202°	+17°	1.7dB	207°K	381380 +235 Hz
2029-10-02	Tuesday	21:30	134°	+52°	0 dB	0°	134°	+52°	209°	+16°	1.7dB	206°K	381249 +203 Hz
2029-10-02	Tuesday	22:00	144°	+55°	0 dB	0°	144°	+55°	216°	+16°	1.7dB	205°K	381119 +169 Hz
2029-10-02	Tuesday	22:30	156°	+58°	0 dB	0°	156°	+58°	223°	+16°	1.7dB	204°K	380988 +133 Hz
2029-10-02	Tuesday	23:00	169°	+59°	0 dB	0°	169°	+59°	231°	+16°	1.7dB	203°K	380857 +96 Hz
2029-10-02	Tuesday	23:30	183°	+59°	0 dB	0°	183°	+59°	238°	+16°	1.6dB	202°K	380726 +58 Hz
2029-10-03	wednesday	00:00	197°	+58°	0 dB	0°	197°	+58°	245°	+16°	1.6dB	201°K	380595 +21 Hz
2029-10-03	wednesday	00:30	209°	+56°	0 dB	0°	209°	+56°	252°	+16°	1.6dB	200°K	380464 -16 Hz
2029-10-03	wednesday	01:00	221°	+53°	0 dB	0°	221°	+53°	259°	+16°	1.6dB	199°K	380333 -52 Hz
2029-10-03	wednesday	01:30	230°	+50°	0 dB	0°	230°	+50°	267°	+16°	1.6dB	199°K	380202 -85 Hz
2029-10-03	wednesday	02:00	239°	+45°	0 dB	0°	239°	+45°	274°	+16°	1.5dB	198°K	380071 -116 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-03	wednesday02:30	246°	+41°	0 dB	0°	246°	+41°	281°	+16°	1.5dB	197°K	379939	-144 Hz
2029-10-03	wednesday03:00	253°	+36°	0 dB	0°	253°	+36°	288°	+16°	1.5dB	196°K	379808	-168 Hz
2029-10-03	wednesday03:30	259°	+31°	0 dB	0°	259°	+31°	296°	+15°	1.5dB	195°K	379677	-188 Hz
2029-10-03	wednesday04:00	264°	+26°	0 dB	0°	264°	+26°	303°	+15°	1.4dB	194°K	379545	-204 Hz
2029-10-03	wednesday04:30	270°	+21°	0 dB	0°	270°	+21°	310°	+15°	1.4dB	193°K	379414	-215 Hz
2029-10-03	wednesday05:00	275°	+16°	0 dB	0°	275°	+16°	317°	+15°	1.4dB	192°K	379283	-222 Hz
2029-10-03	wednesday05:30	280°	+11°	0 dB	0°	280°	+11°	325°	+15°	1.4dB	191°K	379152	-224 Hz
2029-10-03	wednesday06:00	285°	+6°	0 dB	0°	285°	+6°	332°	+15°	1.4dB	190°K	379020	-222 Hz
2029-10-03	wednesday06:30	290°	+1°	0 dB	0°	290°	+1°	339°	+15°	1.3dB	189°K	378889	-215 Hz
2029-10-03	wednesday17:30	076°	+3°	0 dB	0°	076°	+3°	139°	+13°	0.9dB	175°K	376008	+354 Hz
2029-10-03	wednesday18:00	081°	+8°	0 dB	0°	081°	+8°	146°	+13°	1.0dB	176°K	375878	+358 Hz
2029-10-03	wednesday18:30	086°	+13°	0 dB	0°	086°	+13°	153°	+13°	1.0dB	176°K	375748	+357 Hz
2029-10-03	wednesday19:00	091°	+18°	0 dB	0°	091°	+18°	160°	+12°	0.9dB	176°K	375618	+352 Hz
2029-10-03	wednesday19:30	097°	+23°	0 dB	0°	097°	+23°	168°	+12°	1.0dB	177°K	375488	+342 Hz
2029-10-03	wednesday20:00	103°	+28°	0 dB	0°	103°	+28°	175°	+12°	1.0dB	177°K	375359	+327 Hz
2029-10-03	wednesday20:30	109°	+33°	0 dB	0°	109°	+33°	182°	+12°	0.9dB	177°K	375229	+308 Hz
2029-10-03	wednesday21:00	115°	+37°	0 dB	0°	115°	+37°	189°	+12°	1.0dB	178°K	375100	+284 Hz
2029-10-03	wednesday21:30	123°	+42°	0 dB	0°	123°	+42°	197°	+12°	1.0dB	178°K	374970	+257 Hz
2029-10-03	wednesday22:00	131°	+46°	0 dB	0°	131°	+46°	204°	+12°	0.9dB	178°K	374841	+227 Hz
2029-10-03	wednesday22:30	140°	+49°	0 dB	0°	140°	+49°	211°	+12°	1.0dB	179°K	374712	+193 Hz
2029-10-03	wednesday23:00	151°	+52°	0 dB	0°	151°	+52°	218°	+12°	1.0dB	179°K	374583	+158 Hz
2029-10-03	wednesday23:30	162°	+54°	0 dB	0°	162°	+54°	226°	+12°	0.9dB	179°K	374455	+120 Hz
2029-10-04	Thursday 00:00	174°	+55°	0 dB	0°	174°	+55°	233°	+11°	1.0dB	180°K	374326	+82 Hz
2029-10-04	Thursday 00:30	187°	+54°	0 dB	0°	187°	+54°	240°	+11°	1.0dB	180°K	374198	+44 Hz
2029-10-04	Thursday 01:00	199°	+53°	0 dB	0°	199°	+53°	247°	+11°	1.0dB	180°K	374070	+5 Hz
2029-10-04	Thursday 01:30	210°	+51°	0 dB	0°	210°	+51°	255°	+11°	0.9dB	180°K	373942	-32 Hz
2029-10-04	Thursday 02:00	220°	+48°	0 dB	0°	220°	+48°	262°	+11°	1.0dB	181°K	373814	-68 Hz
2029-10-04	Thursday 02:30	229°	+44°	0 dB	0°	229°	+44°	269°	+11°	1.0dB	181°K	373686	-101 Hz
2029-10-04	Thursday 03:00	237°	+40°	0 dB	0°	237°	+40°	276°	+11°	0.9dB	181°K	373559	-131 Hz
2029-10-04	Thursday 03:30	244°	+36°	0 dB	0°	244°	+36°	284°	+11°	1.0dB	182°K	373432	-159 Hz
2029-10-04	Thursday 04:00	251°	+31°	0 dB	0°	251°	+31°	291°	+11°	1.0dB	182°K	373304	-182 Hz
2029-10-04	Thursday 04:30	257°	+26°	0 dB	0°	257°	+26°	298°	+11°	0.9dB	182°K	373178	-201 Hz
2029-10-04	Thursday 05:00	262°	+21°	0 dB	0°	262°	+21°	305°	+10°	0.9dB	182°K	373051	-216 Hz
2029-10-04	Thursday 05:30	267°	+16°	0 dB	0°	267°	+16°	312°	+10°	1.0dB	183°K	372924	-226 Hz
2029-10-04	Thursday 06:00	273°	+11°	0 dB	0°	273°	+11°	320°	+10°	0.9dB	183°K	372798	-232 Hz
2029-10-04	Thursday 06:30	278°	+6°	0 dB	0°	278°	+6°	327°	+10°	0.9dB	183°K	372672	-232 Hz
2029-10-04	Thursday 07:00	283°	+1°	0 dB	0°	283°	+1°	334°	+10°	0.9dB	183°K	372546	-228 Hz
2029-10-04	Thursday 18:30	081°	+1°	0 dB	0°	081°	+1°	141°	+7°	0.9dB	187°K	369727	+353 Hz
2029-10-04	Thursday 19:00	086°	+6°	0 dB	0°	086°	+6°	148°	+7°	0.9dB	187°K	369608	+356 Hz
2029-10-04	Thursday 19:30	092°	+11°	0 dB	0°	092°	+11°	155°	+7°	0.9dB	188°K	369489	+353 Hz
2029-10-04	Thursday 20:00	097°	+16°	0 dB	0°	097°	+16°	163°	+7°	0.9dB	188°K	369371	+346 Hz
2029-10-04	Thursday 20:30	103°	+20°	0 dB	0°	103°	+20°	170°	+7°	0.9dB	188°K	369253	+334 Hz
2029-10-04	Thursday 21:00	109°	+25°	0 dB	0°	109°	+25°	177°	+7°	0.9dB	189°K	369136	+317 Hz
2029-10-04	Thursday 21:30	115°	+30°	0 dB	0°	115°	+30°	184°	+7°	0.9dB	189°K	369019	+296 Hz
2029-10-04	Thursday 22:00	122°	+34°	0 dB	0°	122°	+34°	192°	+7°	0.9dB	189°K	368902	+271 Hz
2029-10-04	Thursday 22:30	129°	+38°	0 dB	0°	129°	+38°	199°	+7°	0.9dB	190°K	368785	+242 Hz
2029-10-04	Thursday 23:00	138°	+42°	0 dB	0°	138°	+42°	206°	+6°	0.9dB	190°K	368669	+210 Hz
2029-10-04	Thursday 23:30	147°	+45°	0 dB	0°	147°	+45°	213°	+6°	0.9dB	190°K	368554	+176 Hz
2029-10-05	Friday 00:00	157°	+47°	0 dB	0°	157°	+47°	221°	+6°	0.9dB	190°K	368439	+139 Hz
2029-10-05	Friday 00:30	167°	+49°	0 dB	0°	167°	+49°	228°	+6°	0.9dB	191°K	368324	+101 Hz
2029-10-05	Friday 01:00	178°	+49°	0 dB	0°	178°	+49°	235°	+6°	0.9dB	191°K	368209	+62 Hz
2029-10-05	Friday 01:30	190°	+49°	0 dB	0°	190°	+49°	242°	+6°	0.9dB	191°K	368095	+22 Hz
2029-10-05	Friday 02:00	200°	+47°	0 dB	0°	200°	+47°	250°	+6°	0.9dB	192°K	367982	-16 Hz
2029-10-05	Friday 02:30	210°	+45°	0 dB	0°	210°	+45°	257°	+6°	0.9dB	192°K	367868	-54 Hz
2029-10-05	Friday 03:00	219°	+42°	0 dB	0°	219°	+42°	264°	+5°	0.9dB	192°K	367755	-89 Hz
2029-10-05	Friday 03:30	228°	+38°	0 dB	0°	228°	+38°	271°	+5°	0.9dB	193°K	367643	-122 Hz
2029-10-05	Friday 04:00	235°	+34°	0 dB	0°	235°	+34°	279°	+5°	0.9dB	193°K	367531	-152 Hz
2029-10-05	Friday 04:30	242°	+30°	0 dB	0°	242°	+30°	286°	+5°	0.9dB	193°K	367420	-178 Hz
2029-10-05	Friday 05:00	248°	+25°	0 dB	0°	248°	+25°	293°	+5°	0.9dB	194°K	367309	-200 Hz
2029-10-05	Friday 05:30	254°	+20°	0 dB	0°	254°	+20°	300°	+5°	0.9dB	194°K	367198	-218 Hz
2029-10-05	Friday 06:00	260°	+15°	0 dB	0°	260°	+15°	308°	+5°	0.9dB	194°K	367088	-232 Hz
2029-10-05	Friday 06:30	265°	+10°	0 dB	0°	265°	+10°	315°	+5°	0.9dB	195°K	366978	-241 Hz
2029-10-05	Friday 07:00	270°	+5°	0 dB	0°	270°	+5°	322°	+4°	0.9dB	195°K	366869	-245 Hz
2029-10-05	Friday 07:30	275°	-0°	0 dB	0°	275°	-0°	329°	+4°	0.9dB	195°K	366760	-244 Hz
2029-10-05	Friday 20:00	092°	+3°	0 dB	0°	092°	+3°	150°	+1°	0.9dB	203°K	364201	+344 Hz
2029-10-05	Friday 20:30	098°	+8°	0 dB	0°	098°	+8°	158°	+1°	0.9dB	204°K	364105	+339 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-05	Friday	21:00	103°	+13°	0 dB	0°	103°	+13°	165°	+1°	0.9dB	204°K	364010 +331 Hz
2029-10-05	Friday	21:30	109°	+17°	0 dB	0°	109°	+17°	172°	+1°	0.9dB	204°K	363916 +317 Hz
2029-10-05	Friday	22:00	115°	+22°	0 dB	0°	115°	+22°	179°	+1°	0.9dB	205°K	363822 +299 Hz
2029-10-05	Friday	22:30	121°	+26°	0 dB	0°	121°	+26°	186°	+1°	0.9dB	205°K	363729 +276 Hz
2029-10-05	Friday	23:00	128°	+30°	0 dB	0°	128°	+30°	194°	+1°	0.9dB	205°K	363637 +250 Hz
2029-10-05	Friday	23:30	136°	+34°	0 dB	0°	136°	+34°	201°	+0°	0.9dB	206°K	363545 +220 Hz
2029-10-06	Saturday	00:00	144°	+37°	0 dB	0°	144°	+37°	208°	+0°	0.9dB	206°K	363454 +187 Hz
2029-10-06	Saturday	00:30	152°	+40°	0 dB	0°	152°	+40°	215°	+0°	0.9dB	206°K	363363 +151 Hz
2029-10-06	Saturday	01:00	162°	+42°	0 dB	0°	162°	+42°	223°	+0°	0.9dB	207°K	363273 +114 Hz
2029-10-06	Saturday	01:30	172°	+43°	0 dB	0°	172°	+43°	230°	-0°	0.9dB	207°K	363184 +75 Hz
2029-10-06	Saturday	02:00	182°	+43°	0 dB	0°	182°	+43°	237°	-0°	0.9dB	207°K	363095 +36 Hz
2029-10-06	Saturday	02:30	191°	+42°	0 dB	0°	191°	+42°	244°	-0°	0.9dB	208°K	363007 -4 Hz
2029-10-06	Saturday	03:00	201°	+41°	0 dB	0°	201°	+41°	252°	-0°	0.9dB	208°K	362919 -42 Hz
2029-10-06	Saturday	03:30	210°	+38°	0 dB	0°	210°	+38°	259°	-1°	0.9dB	208°K	362832 -79 Hz
2029-10-06	Saturday	04:00	218°	+35°	0 dB	0°	218°	+35°	266°	-1°	0.9dB	209°K	362746 -114 Hz
2029-10-06	Saturday	04:30	226°	+32°	0 dB	0°	226°	+32°	273°	-1°	0.9dB	209°K	362660 -146 Hz
2029-10-06	Saturday	05:00	233°	+28°	0 dB	0°	233°	+28°	281°	-1°	0.9dB	209°K	362575 -175 Hz
2029-10-06	Saturday	05:30	240°	+24°	0 dB	0°	240°	+24°	288°	-1°	0.9dB	210°K	362491 -200 Hz
2029-10-06	Saturday	06:00	246°	+19°	0 dB	0°	246°	+19°	295°	-1°	0.9dB	210°K	362407 -221 Hz
2029-10-06	Saturday	06:30	252°	+14°	0 dB	0°	252°	+14°	302°	-1°	0.9dB	210°K	362324 -237 Hz
2029-10-06	Saturday	07:00	257°	+9°	0 dB	0°	257°	+9°	310°	-1°	0.9dB	211°K	362241 -250 Hz
2029-10-06	Saturday	07:30	262°	+4°	0 dB	0°	262°	+4°	317°	-2°	0.9dB	211°K	362160 -257 Hz
2029-10-06	Saturday	21:00	098°	-0°	0 dB	0°	098°	-0°	152°	-5°	1.4dB	252°K	360211 +323 Hz
2029-10-06	Saturday	21:30	103°	+4°	0 dB	0°	103°	+4°	159°	-5°	1.5dB	254°K	360149 +317 Hz
2029-10-06	Saturday	22:00	109°	+9°	0 dB	0°	109°	+9°	167°	-5°	1.5dB	256°K	360088 +307 Hz
2029-10-06	Saturday	22:30	114°	+14°	0 dB	0°	114°	+14°	174°	-5°	1.5dB	258°K	360027 +292 Hz
2029-10-06	Saturday	23:00	120°	+18°	0 dB	0°	120°	+18°	181°	-5°	1.5dB	259°K	359967 +273 Hz
2029-10-06	Saturday	23:30	127°	+22°	0 dB	0°	127°	+22°	188°	-6°	1.5dB	261°K	359908 +249 Hz
2029-10-07	Sunday	00:00	134°	+26°	0 dB	0°	134°	+26°	196°	-6°	1.6dB	263°K	359850 +222 Hz
2029-10-07	Sunday	00:30	141°	+29°	0 dB	0°	141°	+29°	203°	-6°	1.6dB	265°K	359792 +191 Hz
2029-10-07	Sunday	01:00	149°	+32°	0 dB	0°	149°	+32°	210°	-6°	1.6dB	267°K	359736 +158 Hz
2029-10-07	Sunday	01:30	157°	+34°	0 dB	0°	157°	+34°	217°	-6°	1.6dB	269°K	359680 +122 Hz
2029-10-07	Sunday	02:00	166°	+36°	0 dB	0°	166°	+36°	224°	-6°	1.7dB	271°K	359624 +85 Hz
2029-10-07	Sunday	02:30	175°	+37°	0 dB	0°	175°	+37°	232°	-6°	1.7dB	273°K	359570 +46 Hz
2029-10-07	Sunday	03:00	184°	+37°	0 dB	0°	184°	+37°	239°	-6°	1.7dB	275°K	359516 +7 Hz
2029-10-07	Sunday	03:30	193°	+36°	0 dB	0°	193°	+36°	246°	-6°	1.7dB	277°K	359463 -31 Hz
2029-10-07	Sunday	04:00	201°	+34°	0 dB	0°	201°	+34°	253°	-7°	1.8dB	279°K	359411 -69 Hz
2029-10-07	Sunday	04:30	209°	+32°	0 dB	0°	209°	+32°	261°	-7°	1.8dB	281°K	359359 -105 Hz
2029-10-07	Sunday	05:00	217°	+29°	0 dB	0°	217°	+29°	268°	-7°	1.8dB	284°K	359309 -139 Hz
2029-10-07	Sunday	05:30	224°	+26°	0 dB	0°	224°	+26°	275°	-7°	1.8dB	286°K	359259 -170 Hz
2029-10-07	Sunday	06:00	231°	+22°	0 dB	0°	231°	+22°	282°	-7°	1.9dB	288°K	359210 -197 Hz
2029-10-07	Sunday	06:30	237°	+18°	0 dB	0°	237°	+18°	290°	-7°	1.9dB	290°K	359162 -221 Hz
2029-10-07	Sunday	07:00	243°	+13°	0 dB	0°	243°	+13°	297°	-7°	1.9dB	292°K	359114 -241 Hz
2029-10-07	Sunday	07:30	249°	+8°	0 dB	0°	249°	+8°	304°	-7°	1.9dB	294°K	359067 -256 Hz
2029-10-07	Sunday	08:00	254°	+4°	0 dB	0°	254°	+4°	311°	-8°	1.9dB	296°K	359022 -267 Hz
2029-10-07	Sunday	22:30	108°	+1°	0 dB	0°	108°	+1°	161°	-11°	2.1dB	SUN!	358042 +289 Hz
2029-10-07	Sunday	23:00	114°	+6°	0 dB	0°	114°	+6°	168°	-11°	2.1dB	SUN!	358021 +278 Hz
2029-10-07	Sunday	23:30	119°	+10°	0 dB	0°	119°	+10°	175°	-11°	2.1dB	SUN!	358000 +263 Hz
2029-10-08	Monday	00:00	125°	+14°	0 dB	0°	125°	+14°	182°	-11°	2.1dB	SUN!	357980 +243 Hz
2029-10-08	Monday	00:30	131°	+18°	0 dB	0°	131°	+18°	190°	-11°	2.1dB	SUN!	357962 +219 Hz
2029-10-08	Monday	01:00	138°	+21°	0 dB	0°	138°	+21°	197°	-12°	2.1dB	SUN!	357943 +192 Hz
2029-10-08	Monday	01:30	145°	+24°	0 dB	0°	145°	+24°	204°	-12°	2.1dB	SUN!	357926 +161 Hz
2029-10-08	Monday	02:00	152°	+27°	0 dB	0°	152°	+27°	211°	-12°	2.1dB	SUN!	357910 +128 Hz
2029-10-08	Monday	02:30	160°	+29°	0 dB	0°	160°	+29°	218°	-12°	2.1dB	SUN!	357894 +93 Hz
2029-10-08	Monday	03:00	168°	+30°	0 dB	0°	168°	+30°	226°	-12°	2.1dB	SUN!	357879 +56 Hz
2029-10-08	Monday	03:30	176°	+31°	0 dB	0°	176°	+31°	233°	-12°	2.1dB	SUN!	357865 +18 Hz
2029-10-08	Monday	04:00	185°	+31°	0 dB	0°	185°	+31°	240°	-12°	2.1dB	SUN!	357852 -20 Hz
2029-10-08	Monday	04:30	193°	+30°	0 dB	0°	193°	+30°	247°	-12°	2.1dB	SUN!	357840 -58 Hz
2029-10-08	Monday	05:00	201°	+28°	0 dB	0°	201°	+28°	255°	-12°	2.1dB	SUN!	357829 -94 Hz
2029-10-08	Monday	05:30	208°	+26°	0 dB	0°	208°	+26°	262°	-13°	2.0dB	SUN!	357818 -129 Hz
2029-10-08	Monday	06:00	215°	+23°	0 dB	0°	215°	+23°	269°	-13°	2.0dB	SUN!	357808 -161 Hz
2029-10-08	Monday	06:30	222°	+20°	0 dB	0°	222°	+20°	276°	-13°	2.0dB	SUN!	357799 -191 Hz
2029-10-08	Monday	07:00	229°	+16°	0 dB	0°	229°	+16°	283°	-13°	2.0dB	SUN!	357791 -217 Hz
2029-10-08	Monday	07:30	235°	+12°	0 dB	0°	235°	+12°	291°	-13°	2.0dB	SUN!	357784 -240 Hz
2029-10-08	Monday	08:00	240°	+8°	0 dB	0°	240°	+8°	298°	-13°	2.0dB	SUN!	357778 -258 Hz
2029-10-08	Monday	08:30	246°	+3°	0 dB	0°	246°	+3°	305°	-13°	2.0dB	SUN!	357772 -273 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-09	Tuesday	00:00	117°	+2°	0 dB	0°	117°	+2°	169°	-16°	2.2dB	324°K	358011	+248 Hz
2029-10-09	Tuesday	00:30	123°	+6°	0 dB	0°	123°	+6°	176°	-17°	2.2dB	325°K	358032	+233 Hz
2029-10-09	Tuesday	01:00	129°	+10°	0 dB	0°	129°	+10°	183°	-17°	2.3dB	326°K	358054	+213 Hz
2029-10-09	Tuesday	01:30	135°	+14°	0 dB	0°	135°	+14°	190°	-17°	2.3dB	327°K	358076	+190 Hz
2029-10-09	Tuesday	02:00	141°	+17°	0 dB	0°	141°	+17°	197°	-17°	2.3dB	329°K	358099	+163 Hz
2029-10-09	Tuesday	02:30	148°	+20°	0 dB	0°	148°	+20°	205°	-17°	2.3dB	330°K	358123	+133 Hz
2029-10-09	Tuesday	03:00	155°	+22°	0 dB	0°	155°	+22°	212°	-17°	2.3dB	332°K	358148	+101 Hz
2029-10-09	Tuesday	03:30	162°	+24°	0 dB	0°	162°	+24°	219°	-17°	2.3dB	333°K	358174	+66 Hz
2029-10-09	Tuesday	04:00	169°	+25°	0 dB	0°	169°	+25°	226°	-17°	2.4dB	335°K	358201	+30 Hz
2029-10-09	Tuesday	04:30	177°	+26°	0 dB	0°	177°	+26°	233°	-17°	2.4dB	336°K	358228	-6 Hz
2029-10-09	Tuesday	05:00	185°	+25°	0 dB	0°	185°	+25°	241°	-17°	2.4dB	338°K	358256	-43 Hz
2029-10-09	Tuesday	05:30	192°	+25°	0 dB	0°	192°	+25°	248°	-17°	2.4dB	339°K	358285	-79 Hz
2029-10-09	Tuesday	06:00	200°	+23°	0 dB	0°	200°	+23°	255°	-18°	2.4dB	340°K	358314	-114 Hz
2029-10-09	Tuesday	06:30	207°	+21°	0 dB	0°	207°	+21°	262°	-18°	2.4dB	342°K	358345	-148 Hz
2029-10-09	Tuesday	07:00	214°	+18°	0 dB	0°	214°	+18°	269°	-18°	2.5dB	343°K	358376	-179 Hz
2029-10-09	Tuesday	07:30	220°	+15°	0 dB	0°	220°	+15°	277°	-18°	2.5dB	345°K	358408	-208 Hz
2029-10-09	Tuesday	08:00	226°	+12°	0 dB	0°	226°	+12°	284°	-18°	2.5dB	346°K	358441	-233 Hz
2029-10-09	Tuesday	08:30	232°	+8°	0 dB	0°	232°	+8°	291°	-18°	2.5dB	348°K	358475	-255 Hz
2029-10-09	Tuesday	09:00	238°	+4°	0 dB	0°	238°	+4°	298°	-18°	2.5dB	349°K	358509	-273 Hz
2029-10-10	wednesday	01:30	125°	+3°	0 dB	0°	125°	+3°	176°	-21°	3.1dB	394°K	360064	+207 Hz
2029-10-10	wednesday	02:00	131°	+7°	0 dB	0°	131°	+7°	183°	-21°	3.1dB	395°K	360124	+188 Hz
2029-10-10	wednesday	02:30	137°	+10°	0 dB	0°	137°	+10°	190°	-21°	3.1dB	396°K	360184	+165 Hz
2029-10-10	wednesday	03:00	143°	+13°	0 dB	0°	143°	+13°	197°	-21°	3.1dB	397°K	360245	+140 Hz
2029-10-10	wednesday	03:30	149°	+16°	0 dB	0°	149°	+16°	204°	-21°	3.1dB	398°K	360306	+111 Hz
2029-10-10	wednesday	04:00	156°	+18°	0 dB	0°	156°	+18°	212°	-21°	3.1dB	399°K	360368	+79 Hz
2029-10-10	wednesday	04:30	163°	+20°	0 dB	0°	163°	+20°	219°	-21°	3.1dB	400°K	360431	+46 Hz
2029-10-10	wednesday	05:00	170°	+21°	0 dB	0°	170°	+21°	226°	-21°	3.2dB	402°K	360494	+11 Hz
2029-10-10	wednesday	05:30	177°	+22°	0 dB	0°	177°	+22°	233°	-21°	3.2dB	403°K	360558	-24 Hz
2029-10-10	wednesday	06:00	184°	+22°	0 dB	0°	184°	+22°	240°	-21°	3.2dB	404°K	360623	-60 Hz
2029-10-10	wednesday	06:30	192°	+21°	0 dB	0°	192°	+21°	248°	-21°	3.2dB	405°K	360689	-95 Hz
2029-10-10	wednesday	07:00	199°	+19°	0 dB	0°	199°	+19°	255°	-21°	3.2dB	406°K	360755	-129 Hz
2029-10-10	wednesday	07:30	205°	+18°	0 dB	0°	205°	+18°	262°	-21°	3.2dB	407°K	360821	-162 Hz
2029-10-10	wednesday	08:00	212°	+15°	0 dB	0°	212°	+15°	269°	-21°	3.2dB	408°K	360889	-192 Hz
2029-10-10	wednesday	08:30	218°	+12°	0 dB	0°	218°	+12°	276°	-21°	3.2dB	410°K	360957	-220 Hz
2029-10-10	wednesday	09:00	224°	+9°	0 dB	0°	224°	+9°	284°	-21°	3.3dB	411°K	361026	-245 Hz
2029-10-10	wednesday	09:30	230°	+5°	0 dB	0°	230°	+5°	291°	-22°	3.3dB	412°K	361095	-266 Hz
2029-10-10	wednesday	10:00	235°	+1°	0 dB	0°	235°	+1°	298°	-22°	3.3dB	413°K	361165	-283 Hz
2029-10-11	Thursday	02:30	127°	+1°	0 dB	0°	127°	+1°	175°	-23°	4.3dB	516°K	363803	+189 Hz
2029-10-11	Thursday	03:00	132°	+4°	0 dB	0°	132°	+4°	182°	-23°	4.3dB	522°K	363892	+171 Hz
2029-10-11	Thursday	03:30	138°	+8°	0 dB	0°	138°	+8°	190°	-23°	4.4dB	528°K	363982	+149 Hz
2029-10-11	Thursday	04:00	144°	+11°	0 dB	0°	144°	+11°	197°	-23°	4.4dB	534°K	364072	+124 Hz
2029-10-11	Thursday	04:30	150°	+14°	0 dB	0°	150°	+14°	204°	-23°	4.5dB	539°K	364163	+96 Hz
2029-10-11	Thursday	05:00	156°	+16°	0 dB	0°	156°	+16°	211°	-23°	4.5dB	545°K	364254	+65 Hz
2029-10-11	Thursday	05:30	163°	+18°	0 dB	0°	163°	+18°	218°	-23°	4.6dB	551°K	364346	+33 Hz
2029-10-11	Thursday	06:00	170°	+19°	0 dB	0°	170°	+19°	226°	-23°	4.6dB	557°K	364438	-1 Hz
2029-10-11	Thursday	06:30	177°	+20°	0 dB	0°	177°	+20°	233°	-23°	4.6dB	562°K	364530	-35 Hz
2029-10-11	Thursday	07:00	184°	+19°	0 dB	0°	184°	+19°	240°	-23°	4.7dB	568°K	364623	-70 Hz
2029-10-11	Thursday	07:30	191°	+19°	0 dB	0°	191°	+19°	247°	-23°	4.7dB	574°K	364717	-105 Hz
2029-10-11	Thursday	08:00	198°	+18°	0 dB	0°	198°	+18°	254°	-23°	4.8dB	579°K	364811	-138 Hz
2029-10-11	Thursday	08:30	204°	+16°	0 dB	0°	204°	+16°	262°	-23°	4.8dB	585°K	364905	-170 Hz
2029-10-11	Thursday	09:00	211°	+13°	0 dB	0°	211°	+13°	269°	-23°	4.9dB	591°K	365000	-201 Hz
2029-10-11	Thursday	09:30	217°	+11°	0 dB	0°	217°	+11°	276°	-23°	4.9dB	597°K	365095	-228 Hz
2029-10-11	Thursday	10:00	223°	+7°	0 dB	0°	223°	+7°	283°	-23°	4.9dB	602°K	365191	-252 Hz
2029-10-11	Thursday	10:30	228°	+4°	0 dB	0°	228°	+4°	290°	-23°	5.0dB	608°K	365287	-274 Hz
2029-10-11	Thursday	11:00	234°	-0°	0 dB	0°	234°	-0°	298°	-23°	5.1dB	619°K	365384	-291 Hz
2029-10-12	Friday	03:30	127°	-0°	0 dB	0°	127°	-0°	175°	-24°	8.0dB	1226°K	368785	+180 Hz
2029-10-12	Friday	04:00	132°	+4°	0 dB	0°	132°	+4°	182°	-24°	8.1dB	1258°K	368894	+162 Hz
2029-10-12	Friday	04:30	138°	+7°	0 dB	0°	138°	+7°	189°	-24°	8.2dB	1290°K	369002	+141 Hz
2029-10-12	Friday	05:00	144°	+10°	0 dB	0°	144°	+10°	196°	-24°	8.3dB	1322°K	369112	+116 Hz
2029-10-12	Friday	05:30	150°	+13°	0 dB	0°	150°	+13°	204°	-24°	8.4dB	1354°K	369221	+89 Hz
2029-10-12	Friday	06:00	156°	+15°	0 dB	0°	156°	+15°	211°	-24°	8.5dB	1386°K	369331	+59 Hz
2029-10-12	Friday	06:30	163°	+17°	0 dB	0°	163°	+17°	218°	-24°	8.6dB	1417°K	369441	+27 Hz
2029-10-12	Friday	07:00	170°	+18°	0 dB	0°	170°	+18°	225°	-24°	8.7dB	1449°K	369551	-7 Hz
2029-10-12	Friday	07:30	177°	+19°	0 dB	0°	177°	+19°	232°	-24°	8.8dB	1481°K	369662	-41 Hz
2029-10-12	Friday	08:00	184°	+19°	0 dB	0°	184°	+19°	240°	-24°	8.9dB	1513°K	369772	-76 Hz
2029-10-12	Friday	08:30	190°	+18°	0 dB	0°	190°	+18°	247°	-24°	9.0dB	1545°K	369883	-111 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-12	Friday	09:00	197°	+17°	0 dB	0°	197°	+17°	254°	-24°	9.1dB	1576°K	369995	-144 Hz
2029-10-12	Friday	09:30	204°	+16°	0 dB	0°	204°	+16°	261°	-24°	9.2dB	1608°K	370106	-176 Hz
2029-10-12	Friday	10:00	210°	+13°	0 dB	0°	210°	+13°	268°	-24°	9.4dB	1680°K	370218	-206 Hz
2029-10-12	Friday	10:30	217°	+10°	0 dB	0°	217°	+10°	276°	-24°	9.6dB	1752°K	370330	-234 Hz
2029-10-12	Friday	11:00	222°	+7°	0 dB	0°	222°	+7°	283°	-24°	9.7dB	1825°K	370442	-258 Hz
2029-10-12	Friday	11:30	228°	+4°	0 dB	0°	228°	+4°	290°	-24°	9.9dB	1898°K	370554	-280 Hz
2029-10-12	Friday	12:00	233°	-0°	0 dB	0°	233°	-0°	297°	-24°	10.1dB	1970°K	370667	-297 Hz
2029-10-13	Saturday	04:30	126°	+1°	0 dB	0°	126°	+1°	175°	-23°	11.4dB	2575°K	374474	+178 Hz
2029-10-13	Saturday	05:00	132°	+5°	0 dB	0°	132°	+5°	182°	-23°	11.3dB	2524°K	374592	+161 Hz
2029-10-13	Saturday	05:30	137°	+8°	0 dB	0°	137°	+8°	189°	-23°	11.2dB	2474°K	374709	+139 Hz
2029-10-13	Saturday	06:00	143°	+11°	0 dB	0°	143°	+11°	197°	-23°	11.1dB	2424°K	374827	+115 Hz
2029-10-13	Saturday	06:30	149°	+14°	0 dB	0°	149°	+14°	204°	-23°	11.1dB	2374°K	374944	+87 Hz
2029-10-13	Saturday	07:00	156°	+17°	0 dB	0°	156°	+17°	211°	-23°	11.0dB	2324°K	375062	+57 Hz
2029-10-13	Saturday	07:30	163°	+18°	0 dB	0°	163°	+18°	218°	-23°	10.9dB	2274°K	375180	+24 Hz
2029-10-13	Saturday	08:00	170°	+20°	0 dB	0°	170°	+20°	226°	-23°	10.8dB	2224°K	375297	-10 Hz
2029-10-13	Saturday	08:30	177°	+20°	0 dB	0°	177°	+20°	233°	-23°	10.7dB	2174°K	375415	-45 Hz
2029-10-13	Saturday	09:00	184°	+20°	0 dB	0°	184°	+20°	240°	-23°	10.6dB	2124°K	375533	-80 Hz
2029-10-13	Saturday	09:30	191°	+20°	0 dB	0°	191°	+20°	247°	-22°	10.5dB	2074°K	375651	-114 Hz
2029-10-13	Saturday	10:00	198°	+18°	0 dB	0°	198°	+18°	254°	-22°	10.4dB	2025°K	375769	-148 Hz
2029-10-13	Saturday	10:30	205°	+17°	0 dB	0°	205°	+17°	262°	-22°	10.3dB	1975°K	375887	-181 Hz
2029-10-13	Saturday	11:00	211°	+14°	0 dB	0°	211°	+14°	269°	-22°	10.2dB	1925°K	376005	-211 Hz
2029-10-13	Saturday	11:30	218°	+12°	0 dB	0°	218°	+12°	276°	-22°	10.1dB	1876°K	376123	-239 Hz
2029-10-13	Saturday	12:00	223°	+8°	0 dB	0°	223°	+8°	283°	-22°	10.0dB	1826°K	376241	-264 Hz
2029-10-13	Saturday	12:30	229°	+5°	0 dB	0°	229°	+5°	290°	-22°	9.9dB	1777°K	376359	-285 Hz
2029-10-13	Saturday	13:00	235°	+1°	0 dB	0°	235°	+1°	298°	-22°	9.8dB	1728°K	376477	-303 Hz
2029-10-14	Sunday	05:30	126°	+3°	0 dB	0°	126°	+3°	176°	-20°	6.0dB	660°K	380359	+183 Hz
2029-10-14	Sunday	06:00	131°	+7°	0 dB	0°	131°	+7°	183°	-20°	5.9dB	646°K	380475	+164 Hz
2029-10-14	Sunday	06:30	137°	+11°	0 dB	0°	137°	+11°	190°	-20°	5.9dB	633°K	380592	+142 Hz
2029-10-14	Sunday	07:00	143°	+14°	0 dB	0°	143°	+14°	198°	-20°	5.8dB	620°K	380708	+116 Hz
2029-10-14	Sunday	07:30	149°	+17°	0 dB	0°	149°	+17°	205°	-20°	5.7dB	606°K	380824	+88 Hz
2029-10-14	Sunday	08:00	156°	+19°	0 dB	0°	156°	+19°	212°	-20°	5.6dB	593°K	380941	+56 Hz
2029-10-14	Sunday	08:30	163°	+21°	0 dB	0°	163°	+21°	219°	-20°	5.5dB	579°K	381057	+23 Hz
2029-10-14	Sunday	09:00	170°	+22°	0 dB	0°	170°	+22°	227°	-20°	5.4dB	566°K	381173	-12 Hz
2029-10-14	Sunday	09:30	178°	+23°	0 dB	0°	178°	+23°	234°	-20°	5.4dB	553°K	381288	-48 Hz
2029-10-14	Sunday	10:00	185°	+23°	0 dB	0°	185°	+23°	241°	-20°	5.3dB	539°K	381404	-83 Hz
2029-10-14	Sunday	10:30	193°	+22°	0 dB	0°	193°	+22°	248°	-20°	5.2dB	526°K	381520	-119 Hz
2029-10-14	Sunday	11:00	200°	+21°	0 dB	0°	200°	+21°	256°	-20°	5.1dB	518°K	381635	-154 Hz
2029-10-14	Sunday	11:30	207°	+19°	0 dB	0°	207°	+19°	263°	-20°	5.1dB	512°K	381751	-186 Hz
2029-10-14	Sunday	12:00	214°	+16°	0 dB	0°	214°	+16°	270°	-20°	5.0dB	506°K	381866	-217 Hz
2029-10-14	Sunday	12:30	220°	+13°	0 dB	0°	220°	+13°	277°	-20°	5.0dB	500°K	381981	-245 Hz
2029-10-14	Sunday	13:00	226°	+10°	0 dB	0°	226°	+10°	285°	-20°	5.0dB	495°K	382096	-270 Hz
2029-10-14	Sunday	13:30	232°	+6°	0 dB	0°	232°	+6°	292°	-19°	4.9dB	489°K	382211	-291 Hz
2029-10-14	Sunday	14:00	237°	+2°	0 dB	0°	237°	+2°	299°	-19°	4.9dB	483°K	382325	-309 Hz
2029-10-15	Monday	06:00	120°	+3°	0 dB	0°	120°	+3°	171°	-17°	3.8dB	350°K	385908	+205 Hz
2029-10-15	Monday	06:30	125°	+7°	0 dB	0°	125°	+7°	178°	-17°	3.8dB	349°K	386016	+189 Hz
2029-10-15	Monday	07:00	131°	+11°	0 dB	0°	131°	+11°	185°	-17°	3.8dB	347°K	386125	+169 Hz
2029-10-15	Monday	07:30	137°	+15°	0 dB	0°	137°	+15°	193°	-17°	3.8dB	346°K	386233	+145 Hz
2029-10-15	Monday	08:00	143°	+18°	0 dB	0°	143°	+18°	200°	-17°	3.8dB	344°K	386341	+118 Hz
2029-10-15	Monday	08:30	150°	+21°	0 dB	0°	150°	+21°	207°	-17°	3.8dB	342°K	386449	+88 Hz
2029-10-15	Monday	09:00	157°	+23°	0 dB	0°	157°	+23°	214°	-17°	3.7dB	341°K	386557	+55 Hz
2029-10-15	Monday	09:30	165°	+25°	0 dB	0°	165°	+25°	222°	-16°	3.7dB	339°K	386665	+20 Hz
2029-10-15	Monday	10:00	172°	+26°	0 dB	0°	172°	+26°	229°	-16°	3.7dB	338°K	386772	-16 Hz
2029-10-15	Monday	10:30	180°	+27°	0 dB	0°	180°	+27°	236°	-16°	3.7dB	336°K	386879	-53 Hz
2029-10-15	Monday	11:00	188°	+26°	0 dB	0°	188°	+26°	243°	-16°	3.7dB	335°K	386986	-90 Hz
2029-10-15	Monday	11:30	196°	+25°	0 dB	0°	196°	+25°	251°	-16°	3.7dB	333°K	387092	-126 Hz
2029-10-15	Monday	12:00	203°	+24°	0 dB	0°	203°	+24°	258°	-16°	3.7dB	332°K	387199	-161 Hz
2029-10-15	Monday	12:30	210°	+22°	0 dB	0°	210°	+22°	265°	-16°	3.7dB	330°K	387305	-194 Hz
2029-10-15	Monday	13:00	217°	+19°	0 dB	0°	217°	+19°	272°	-16°	3.7dB	329°K	387411	-225 Hz
2029-10-15	Monday	13:30	224°	+16°	0 dB	0°	224°	+16°	280°	-16°	3.6dB	327°K	387516	-253 Hz
2029-10-15	Monday	14:00	230°	+12°	0 dB	0°	230°	+12°	287°	-16°	3.6dB	326°K	387622	-277 Hz
2029-10-15	Monday	14:30	236°	+8°	0 dB	0°	236°	+8°	294°	-16°	3.6dB	326°K	387727	-298 Hz
2029-10-15	Monday	15:00	241°	+4°	0 dB	0°	241°	+4°	301°	-16°	3.6dB	326°K	387832	-314 Hz
2029-10-16	Tuesday	06:30	114°	+3°	0 dB	0°	114°	+3°	166°	-13°	3.8dB	326°K	390957	+227 Hz
2029-10-16	Tuesday	07:00	119°	+8°	0 dB	0°	119°	+8°	174°	-13°	3.8dB	326°K	391053	+213 Hz
2029-10-16	Tuesday	07:30	125°	+12°	0 dB	0°	125°	+12°	181°	-13°	3.8dB	326°K	391150	+195 Hz
2029-10-16	Tuesday	08:00	131°	+16°	0 dB	0°	131°	+16°	188°	-13°	3.8dB	326°K	391246	+173 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-16	Tuesday	08:30	137°	+20°	0 dB	0°	137°	+20°	196°	-13°	3.8dB	326°K	391341	+147 Hz
2029-10-16	Tuesday	09:00	144°	+23°	0 dB	0°	144°	+23°	203°	-12°	3.8dB	326°K	391437	+117 Hz
2029-10-16	Tuesday	09:30	151°	+26°	0 dB	0°	151°	+26°	210°	-12°	3.8dB	326°K	391532	+85 Hz
2029-10-16	Tuesday	10:00	159°	+28°	0 dB	0°	159°	+28°	217°	-12°	3.8dB	326°K	391626	+50 Hz
2029-10-16	Tuesday	10:30	167°	+30°	0 dB	0°	167°	+30°	225°	-12°	3.8dB	326°K	391721	+14 Hz
2029-10-16	Tuesday	11:00	175°	+31°	0 dB	0°	175°	+31°	232°	-12°	3.8dB	326°K	391815	-23 Hz
2029-10-16	Tuesday	11:30	184°	+31°	0 dB	0°	184°	+31°	239°	-12°	3.8dB	326°K	391909	-61 Hz
2029-10-16	Tuesday	12:00	192°	+30°	0 dB	0°	192°	+30°	246°	-12°	3.8dB	326°K	392003	-99 Hz
2029-10-16	Tuesday	12:30	200°	+29°	0 dB	0°	200°	+29°	254°	-12°	3.8dB	326°K	392096	-136 Hz
2029-10-16	Tuesday	13:00	208°	+27°	0 dB	0°	208°	+27°	261°	-12°	3.8dB	326°K	392189	-171 Hz
2029-10-16	Tuesday	13:30	215°	+25°	0 dB	0°	215°	+25°	268°	-12°	3.8dB	326°K	392282	-204 Hz
2029-10-16	Tuesday	14:00	222°	+21°	0 dB	0°	222°	+21°	275°	-11°	3.8dB	326°K	392374	-234 Hz
2029-10-16	Tuesday	14:30	229°	+18°	0 dB	0°	229°	+18°	283°	-11°	3.8dB	326°K	392467	-261 Hz
2029-10-16	Tuesday	15:00	235°	+14°	0 dB	0°	235°	+14°	290°	-11°	3.9dB	326°K	392558	-285 Hz
2029-10-16	Tuesday	15:30	241°	+10°	0 dB	0°	241°	+10°	297°	-11°	3.9dB	326°K	392650	-304 Hz
2029-10-16	Tuesday	16:00	247°	+5°	0 dB	0°	247°	+5°	305°	-11°	3.9dB	326°K	392741	-319 Hz
2029-10-16	Tuesday	16:30	252°	+1°	0 dB	0°	252°	+1°	312°	-11°	3.9dB	326°K	392832	-329 Hz
2029-10-17	wednesday	06:30	103°	-0°	0 dB	0°	103°	-0°	156°	-8°	3.7dB	303°K	395257	+253 Hz
2029-10-17	wednesday	07:00	108°	+5°	0 dB	0°	108°	+5°	163°	-8°	3.7dB	302°K	395339	+246 Hz
2029-10-17	wednesday	07:30	113°	+9°	0 dB	0°	113°	+9°	170°	-8°	3.7dB	301°K	395421	+234 Hz
2029-10-17	wednesday	08:00	119°	+14°	0 dB	0°	119°	+14°	177°	-8°	3.7dB	300°K	395502	+217 Hz
2029-10-17	wednesday	08:30	125°	+18°	0 dB	0°	125°	+18°	185°	-8°	3.7dB	299°K	395584	+197 Hz
2029-10-17	wednesday	09:00	131°	+22°	0 dB	0°	131°	+22°	192°	-8°	3.7dB	298°K	395665	+172 Hz
2029-10-17	wednesday	09:30	138°	+26°	0 dB	0°	138°	+26°	199°	-8°	3.7dB	297°K	395745	+144 Hz
2029-10-17	wednesday	10:00	146°	+29°	0 dB	0°	146°	+29°	206°	-8°	3.7dB	297°K	395825	+112 Hz
2029-10-17	wednesday	10:30	153°	+32°	0 dB	0°	153°	+32°	214°	-8°	3.6dB	296°K	395905	+78 Hz
2029-10-17	wednesday	11:00	162°	+34°	0 dB	0°	162°	+34°	221°	-7°	3.6dB	294°K	395985	+41 Hz
2029-10-17	wednesday	11:30	171°	+35°	0 dB	0°	171°	+35°	228°	-7°	3.6dB	292°K	396064	+4 Hz
2029-10-17	wednesday	12:00	179°	+36°	0 dB	0°	179°	+36°	236°	-7°	3.6dB	291°K	396143	-35 Hz
2029-10-17	wednesday	12:30	188°	+36°	0 dB	0°	188°	+36°	243°	-7°	3.6dB	289°K	396222	-74 Hz
2029-10-17	wednesday	13:00	197°	+35°	0 dB	0°	197°	+35°	250°	-7°	3.6dB	287°K	396300	-112 Hz
2029-10-17	wednesday	13:30	206°	+33°	0 dB	0°	206°	+33°	257°	-7°	3.5dB	286°K	396378	-148 Hz
2029-10-17	wednesday	14:00	214°	+30°	0 dB	0°	214°	+30°	265°	-7°	3.5dB	284°K	396456	-183 Hz
2029-10-17	wednesday	14:30	221°	+27°	0 dB	0°	221°	+27°	272°	-7°	3.5dB	282°K	396534	-215 Hz
2029-10-17	wednesday	15:00	229°	+24°	0 dB	0°	229°	+24°	279°	-7°	3.5dB	281°K	396611	-244 Hz
2029-10-17	wednesday	15:30	235°	+20°	0 dB	0°	235°	+20°	287°	-7°	3.5dB	279°K	396688	-270 Hz
2029-10-17	wednesday	16:00	241°	+16°	0 dB	0°	241°	+16°	294°	-6°	3.4dB	277°K	396764	-292 Hz
2029-10-17	wednesday	16:30	247°	+11°	0 dB	0°	247°	+11°	301°	-6°	3.4dB	276°K	396840	-309 Hz
2029-10-17	wednesday	17:00	253°	+7°	0 dB	0°	253°	+7°	308°	-6°	3.4dB	274°K	396916	-322 Hz
2029-10-17	wednesday	17:30	258°	+2°	0 dB	0°	258°	+2°	316°	-6°	3.4dB	272°K	396992	-329 Hz
2029-10-18	Thursday	07:00	097°	+1°	0 dB	0°	097°	+1°	152°	-3°	3.1dB	243°K	398913	+266 Hz
2029-10-18	Thursday	07:30	102°	+6°	0 dB	0°	102°	+6°	160°	-3°	3.1dB	243°K	398979	+261 Hz
2029-10-18	Thursday	08:00	108°	+11°	0 dB	0°	108°	+11°	167°	-3°	3.1dB	243°K	399046	+251 Hz
2029-10-18	Thursday	08:30	113°	+16°	0 dB	0°	113°	+16°	174°	-3°	3.1dB	243°K	399112	+237 Hz
2029-10-18	Thursday	09:00	119°	+21°	0 dB	0°	119°	+21°	182°	-3°	3.1dB	243°K	399178	+217 Hz
2029-10-18	Thursday	09:30	126°	+25°	0 dB	0°	126°	+25°	189°	-3°	3.1dB	243°K	399243	+194 Hz
2029-10-18	Thursday	10:00	132°	+29°	0 dB	0°	132°	+29°	196°	-3°	3.1dB	243°K	399308	+167 Hz
2029-10-18	Thursday	10:30	140°	+33°	0 dB	0°	140°	+33°	203°	-3°	3.1dB	243°K	399373	+136 Hz
2029-10-18	Thursday	11:00	148°	+36°	0 dB	0°	148°	+36°	211°	-3°	3.1dB	243°K	399438	+102 Hz
2029-10-18	Thursday	11:30	157°	+38°	0 dB	0°	157°	+38°	218°	-2°	3.1dB	243°K	399502	+66 Hz
2029-10-18	Thursday	12:00	166°	+40°	0 dB	0°	166°	+40°	225°	-2°	3.1dB	243°K	399566	+28 Hz
2029-10-18	Thursday	12:30	175°	+41°	0 dB	0°	175°	+41°	233°	-2°	3.1dB	243°K	399629	-10 Hz
2029-10-18	Thursday	13:00	185°	+41°	0 dB	0°	185°	+41°	240°	-2°	3.1dB	243°K	399693	-50 Hz
2029-10-18	Thursday	13:30	195°	+40°	0 dB	0°	195°	+40°	247°	-2°	3.1dB	243°K	399755	-88 Hz
2029-10-18	Thursday	14:00	204°	+38°	0 dB	0°	204°	+38°	254°	-2°	3.1dB	243°K	399818	-126 Hz
2029-10-18	Thursday	14:30	213°	+36°	0 dB	0°	213°	+36°	262°	-2°	3.1dB	243°K	399880	-162 Hz
2029-10-18	Thursday	15:00	221°	+33°	0 dB	0°	221°	+33°	269°	-2°	3.1dB	243°K	399942	-196 Hz
2029-10-18	Thursday	15:30	229°	+30°	0 dB	0°	229°	+30°	276°	-2°	3.1dB	243°K	400004	-227 Hz
2029-10-18	Thursday	16:00	236°	+26°	0 dB	0°	236°	+26°	284°	-2°	3.1dB	243°K	400066	-254 Hz
2029-10-18	Thursday	16:30	242°	+22°	0 dB	0°	242°	+22°	291°	-1°	3.1dB	243°K	400127	-277 Hz
2029-10-18	Thursday	17:00	248°	+17°	0 dB	0°	248°	+17°	298°	-1°	3.1dB	243°K	400187	-297 Hz
2029-10-18	Thursday	17:30	254°	+12°	0 dB	0°	254°	+12°	305°	-1°	3.1dB	243°K	400248	-311 Hz
2029-10-18	Thursday	18:00	260°	+7°	0 dB	0°	260°	+7°	313°	-1°	3.1dB	243°K	400308	-321 Hz
2029-10-18	Thursday	18:30	265°	+2°	0 dB	0°	265°	+2°	320°	-1°	3.1dB	243°K	400368	-326 Hz
2029-10-19	Friday	07:30	091°	+3°	0 dB	0°	091°	+3°	150°	+2°	3.2dB	240°K	401815	+277 Hz
2029-10-19	Friday	08:00	097°	+8°	0 dB	0°	097°	+8°	157°	+2°	3.1dB	239°K	401867	+273 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-19	Friday	08:30	102°	+13°	0 dB	0°	102°	+13°	164°	+2°	3.2dB	239°K	401918 +265 Hz
2029-10-19	Friday	09:00	108°	+18°	0 dB	0°	108°	+18°	171°	+2°	3.2dB	239°K	401969 +252 Hz
2029-10-19	Friday	09:30	113°	+23°	0 dB	0°	113°	+23°	179°	+2°	3.2dB	239°K	402020 +234 Hz
2029-10-19	Friday	10:00	120°	+27°	0 dB	0°	120°	+27°	186°	+2°	3.2dB	239°K	402070 +212 Hz
2029-10-19	Friday	10:30	127°	+32°	0 dB	0°	127°	+32°	193°	+2°	3.2dB	239°K	402120 +186 Hz
2029-10-19	Friday	11:00	134°	+36°	0 dB	0°	134°	+36°	201°	+2°	3.2dB	239°K	402170 +157 Hz
2029-10-19	Friday	11:30	142°	+39°	0 dB	0°	142°	+39°	208°	+2°	3.2dB	239°K	402219 +124 Hz
2029-10-19	Friday	12:00	151°	+42°	0 dB	0°	151°	+42°	215°	+3°	3.2dB	239°K	402268 +88 Hz
2029-10-19	Friday	12:30	161°	+44°	0 dB	0°	161°	+44°	222°	+3°	3.2dB	239°K	402317 +51 Hz
2029-10-19	Friday	13:00	171°	+46°	0 dB	0°	171°	+46°	230°	+3°	3.2dB	239°K	402366 +12 Hz
2029-10-19	Friday	13:30	181°	+46°	0 dB	0°	181°	+46°	237°	+3°	3.2dB	239°K	402414 -27 Hz
2029-10-19	Friday	14:00	192°	+45°	0 dB	0°	192°	+45°	244°	+3°	3.2dB	239°K	402462 -66 Hz
2029-10-19	Friday	14:30	202°	+44°	0 dB	0°	202°	+44°	252°	+3°	3.2dB	239°K	402509 -104 Hz
2029-10-19	Friday	15:00	212°	+42°	0 dB	0°	212°	+42°	259°	+3°	3.2dB	239°K	402557 -141 Hz
2029-10-19	Friday	15:30	221°	+39°	0 dB	0°	221°	+39°	266°	+3°	3.2dB	239°K	402604 -176 Hz
2029-10-19	Friday	16:00	229°	+35°	0 dB	0°	229°	+35°	273°	+3°	3.2dB	239°K	402650 -208 Hz
2029-10-19	Friday	16:30	236°	+31°	0 dB	0°	236°	+31°	281°	+3°	3.2dB	239°K	402697 -237 Hz
2029-10-19	Friday	17:00	243°	+27°	0 dB	0°	243°	+27°	288°	+4°	3.2dB	239°K	402743 -262 Hz
2029-10-19	Friday	17:30	249°	+23°	0 dB	0°	249°	+23°	295°	+4°	3.2dB	239°K	402789 -282 Hz
2029-10-19	Friday	18:00	255°	+18°	0 dB	0°	255°	+18°	303°	+4°	3.2dB	239°K	402834 -299 Hz
2029-10-19	Friday	18:30	261°	+13°	0 dB	0°	261°	+13°	310°	+4°	3.2dB	239°K	402880 -311 Hz
2029-10-19	Friday	19:00	266°	+8°	0 dB	0°	266°	+8°	317°	+4°	3.2dB	239°K	402924 -317 Hz
2029-10-19	Friday	19:30	272°	+3°	0 dB	0°	272°	+3°	325°	+4°	3.2dB	239°K	402969 -319 Hz
2029-10-20	Saturday	08:00	086°	+4°	0 dB	0°	086°	+4°	147°	+6°	3.4dB	248°K	403989 +283 Hz
2029-10-20	Saturday	08:30	091°	+9°	0 dB	0°	091°	+9°	154°	+7°	3.4dB	249°K	404026 +282 Hz
2029-10-20	Saturday	09:00	096°	+15°	0 dB	0°	096°	+15°	161°	+7°	3.4dB	249°K	404063 +275 Hz
2029-10-20	Saturday	09:30	102°	+20°	0 dB	0°	102°	+20°	169°	+7°	3.4dB	250°K	404099 +264 Hz
2029-10-20	Saturday	10:00	108°	+25°	0 dB	0°	108°	+25°	176°	+7°	3.4dB	251°K	404135 +248 Hz
2029-10-20	Saturday	10:30	114°	+29°	0 dB	0°	114°	+29°	183°	+7°	3.4dB	251°K	404171 +228 Hz
2029-10-20	Saturday	11:00	120°	+34°	0 dB	0°	120°	+34°	191°	+7°	3.4dB	252°K	404207 +203 Hz
2029-10-20	Saturday	11:30	128°	+38°	0 dB	0°	128°	+38°	198°	+7°	3.4dB	252°K	404242 +175 Hz
2029-10-20	Saturday	12:00	136°	+42°	0 dB	0°	136°	+42°	205°	+7°	3.5dB	253°K	404277 +143 Hz
2029-10-20	Saturday	12:30	145°	+46°	0 dB	0°	145°	+46°	212°	+7°	3.5dB	253°K	404312 +109 Hz
2029-10-20	Saturday	13:00	155°	+48°	0 dB	0°	155°	+48°	220°	+7°	3.5dB	254°K	404346 +72 Hz
2029-10-20	Saturday	13:30	166°	+50°	0 dB	0°	166°	+50°	227°	+8°	3.5dB	254°K	404380 +34 Hz
2029-10-20	Saturday	14:00	177°	+51°	0 dB	0°	177°	+51°	234°	+8°	3.5dB	255°K	404414 -5 Hz
2029-10-20	Saturday	14:30	189°	+51°	0 dB	0°	189°	+51°	242°	+8°	3.5dB	255°K	404448 -44 Hz
2029-10-20	Saturday	15:00	200°	+49°	0 dB	0°	200°	+49°	249°	+8°	3.5dB	256°K	404481 -82 Hz
2029-10-20	Saturday	15:30	211°	+47°	0 dB	0°	211°	+47°	256°	+8°	3.5dB	256°K	404514 -119 Hz
2029-10-20	Saturday	16:00	220°	+45°	0 dB	0°	220°	+45°	263°	+8°	3.5dB	257°K	404547 -155 Hz
2029-10-20	Saturday	16:30	229°	+41°	0 dB	0°	229°	+41°	271°	+8°	3.5dB	258°K	404579 -188 Hz
2029-10-20	Saturday	17:00	237°	+37°	0 dB	0°	237°	+37°	278°	+8°	3.5dB	258°K	404611 -217 Hz
2029-10-20	Saturday	17:30	244°	+33°	0 dB	0°	244°	+33°	285°	+8°	3.6dB	259°K	404643 -244 Hz
2029-10-20	Saturday	18:00	250°	+28°	0 dB	0°	250°	+28°	293°	+8°	3.6dB	259°K	404675 -266 Hz
2029-10-20	Saturday	18:30	256°	+23°	0 dB	0°	256°	+23°	300°	+8°	3.6dB	260°K	404706 -284 Hz
2029-10-20	Saturday	19:00	262°	+18°	0 dB	0°	262°	+18°	307°	+9°	3.6dB	260°K	404737 -297 Hz
2029-10-20	Saturday	19:30	268°	+13°	0 dB	0°	268°	+13°	314°	+9°	3.6dB	261°K	404768 -306 Hz
2029-10-20	Saturday	20:00	273°	+8°	0 dB	0°	273°	+8°	322°	+9°	3.6dB	261°K	404798 -310 Hz
2029-10-20	Saturday	20:30	278°	+3°	0 dB	0°	278°	+3°	329°	+9°	3.6dB	262°K	404828 -309 Hz
2029-10-21	Sunday	08:00	076°	+1°	0 dB	0°	076°	+1°	137°	+11°	3.8dB	274°K	405444 +282 Hz
2029-10-21	Sunday	08:30	081°	+6°	0 dB	0°	081°	+6°	144°	+11°	3.8dB	275°K	405467 +287 Hz
2029-10-21	Sunday	09:00	086°	+11°	0 dB	0°	086°	+11°	151°	+11°	3.8dB	275°K	405490 +287 Hz
2029-10-21	Sunday	09:30	091°	+16°	0 dB	0°	091°	+16°	158°	+11°	3.8dB	276°K	405513 +282 Hz
2029-10-21	Sunday	10:00	096°	+21°	0 dB	0°	096°	+21°	166°	+11°	3.8dB	277°K	405536 +273 Hz
2029-10-21	Sunday	10:30	102°	+26°	0 dB	0°	102°	+26°	173°	+11°	3.8dB	277°K	405558 +259 Hz
2029-10-21	Sunday	11:00	108°	+31°	0 dB	0°	108°	+31°	180°	+11°	3.8dB	278°K	405580 +240 Hz
2029-10-21	Sunday	11:30	114°	+36°	0 dB	0°	114°	+36°	188°	+12°	3.8dB	278°K	405602 +218 Hz
2029-10-21	Sunday	12:00	121°	+40°	0 dB	0°	121°	+40°	195°	+12°	3.9dB	279°K	405623 +191 Hz
2029-10-21	Sunday	12:30	129°	+45°	0 dB	0°	129°	+45°	202°	+12°	3.9dB	279°K	405644 +161 Hz
2029-10-21	Sunday	13:00	138°	+48°	0 dB	0°	138°	+48°	209°	+12°	3.9dB	280°K	405665 +128 Hz
2029-10-21	Sunday	13:30	148°	+51°	0 dB	0°	148°	+51°	217°	+12°	3.9dB	280°K	405686 +93 Hz
2029-10-21	Sunday	14:00	160°	+54°	0 dB	0°	160°	+54°	224°	+12°	3.9dB	281°K	405706 +56 Hz
2029-10-21	Sunday	14:30	172°	+55°	0 dB	0°	172°	+55°	231°	+12°	3.9dB	281°K	405726 +18 Hz
2029-10-21	Sunday	15:00	184°	+55°	0 dB	0°	184°	+55°	239°	+12°	3.9dB	282°K	405746 -21 Hz
2029-10-21	Sunday	15:30	197°	+55°	0 dB	0°	197°	+55°	246°	+12°	3.9dB	283°K	405765 -59 Hz
2029-10-21	Sunday	16:00	209°	+53°	0 dB	0°	209°	+53°	253°	+12°	3.9dB	283°K	405785 -97 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-21	Sunday	16:30	219°	+50°	0 dB	0°	219°	+50°	260°	+12°	3.9dB	284°K	405804	-132 Hz
2029-10-21	Sunday	17:00	229°	+46°	0 dB	0°	229°	+46°	268°	+13°	3.9dB	284°K	405822	-166 Hz
2029-10-21	Sunday	17:30	237°	+42°	0 dB	0°	237°	+42°	275°	+13°	3.9dB	285°K	405841	-196 Hz
2029-10-21	Sunday	18:00	245°	+38°	0 dB	0°	245°	+38°	282°	+13°	3.9dB	285°K	405859	-224 Hz
2029-10-21	Sunday	18:30	251°	+33°	0 dB	0°	251°	+33°	290°	+13°	4.0dB	286°K	405877	-247 Hz
2029-10-21	Sunday	19:00	257°	+29°	0 dB	0°	257°	+29°	297°	+13°	4.0dB	286°K	405894	-267 Hz
2029-10-21	Sunday	19:30	263°	+24°	0 dB	0°	263°	+24°	304°	+13°	4.0dB	287°K	405911	-282 Hz
2029-10-21	Sunday	20:00	269°	+19°	0 dB	0°	269°	+19°	311°	+13°	4.0dB	288°K	405928	-292 Hz
2029-10-21	Sunday	20:30	274°	+14°	0 dB	0°	274°	+14°	319°	+13°	4.0dB	288°K	405945	-298 Hz
2029-10-21	Sunday	21:00	279°	+9°	0 dB	0°	279°	+9°	326°	+13°	4.0dB	289°K	405961	-299 Hz
2029-10-21	Sunday	21:30	284°	+4°	0 dB	0°	284°	+4°	333°	+13°	4.0dB	289°K	405978	-295 Hz
2029-10-22	Monday	08:30	071°	+1°	0 dB	0°	071°	+1°	133°	+15°	4.1dB	298°K	406263	+281 Hz
2029-10-22	Monday	09:00	076°	+6°	0 dB	0°	076°	+6°	141°	+15°	4.1dB	299°K	406272	+288 Hz
2029-10-22	Monday	09:30	081°	+11°	0 dB	0°	081°	+11°	148°	+15°	4.1dB	299°K	406282	+290 Hz
2029-10-22	Monday	10:00	086°	+16°	0 dB	0°	086°	+16°	155°	+15°	4.1dB	299°K	406291	+287 Hz
2029-10-22	Monday	10:30	091°	+22°	0 dB	0°	091°	+22°	163°	+15°	4.1dB	300°K	406300	+280 Hz
2029-10-22	Monday	11:00	096°	+27°	0 dB	0°	096°	+27°	170°	+15°	4.1dB	300°K	406308	+268 Hz
2029-10-22	Monday	11:30	102°	+32°	0 dB	0°	102°	+32°	177°	+16°	4.1dB	300°K	406317	+252 Hz
2029-10-22	Monday	12:00	108°	+37°	0 dB	0°	108°	+37°	184°	+16°	4.1dB	300°K	406325	+231 Hz
2029-10-22	Monday	12:30	115°	+41°	0 dB	0°	115°	+41°	192°	+16°	4.2dB	301°K	406333	+207 Hz
2029-10-22	Monday	13:00	122°	+46°	0 dB	0°	122°	+46°	199°	+16°	4.2dB	301°K	406340	+179 Hz
2029-10-22	Monday	13:30	131°	+50°	0 dB	0°	131°	+50°	206°	+16°	4.2dB	301°K	406347	+147 Hz
2029-10-22	Monday	14:00	141°	+54°	0 dB	0°	141°	+54°	213°	+16°	4.2dB	301°K	406354	+114 Hz
2029-10-22	Monday	14:30	152°	+57°	0 dB	0°	152°	+57°	221°	+16°	4.2dB	302°K	406361	+78 Hz
2029-10-22	Monday	15:00	165°	+59°	0 dB	0°	165°	+59°	228°	+16°	4.2dB	302°K	406367	+41 Hz
2029-10-22	Monday	15:30	179°	+59°	0 dB	0°	179°	+59°	235°	+16°	4.2dB	302°K	406373	+3 Hz
2029-10-22	Monday	16:00	192°	+59°	0 dB	0°	192°	+59°	243°	+16°	4.2dB	303°K	406379	-35 Hz
2029-10-22	Monday	16:30	206°	+57°	0 dB	0°	206°	+57°	250°	+16°	4.2dB	303°K	406385	-72 Hz
2029-10-22	Monday	17:00	217°	+55°	0 dB	0°	217°	+55°	257°	+16°	4.2dB	303°K	406390	-108 Hz
2029-10-22	Monday	17:30	228°	+52°	0 dB	0°	228°	+52°	264°	+16°	4.2dB	303°K	406395	-142 Hz
2029-10-22	Monday	18:00	237°	+48°	0 dB	0°	237°	+48°	272°	+17°	4.2dB	304°K	406400	-173 Hz
2029-10-22	Monday	18:30	245°	+43°	0 dB	0°	245°	+43°	279°	+17°	4.2dB	304°K	406404	-201 Hz
2029-10-22	Monday	19:00	252°	+38°	0 dB	0°	252°	+38°	286°	+17°	4.2dB	306°K	406408	-226 Hz
2029-10-22	Monday	19:30	258°	+34°	0 dB	0°	258°	+34°	293°	+17°	4.2dB	307°K	406412	-247 Hz
2029-10-22	Monday	20:00	264°	+29°	0 dB	0°	264°	+29°	301°	+17°	4.3dB	309°K	406416	-264 Hz
2029-10-22	Monday	20:30	269°	+24°	0 dB	0°	269°	+24°	308°	+17°	4.3dB	310°K	406419	-277 Hz
2029-10-22	Monday	21:00	274°	+19°	0 dB	0°	274°	+19°	315°	+17°	4.3dB	311°K	406422	-284 Hz
2029-10-22	Monday	21:30	280°	+14°	0 dB	0°	280°	+14°	323°	+17°	4.3dB	313°K	406425	-287 Hz
2029-10-22	Monday	22:00	285°	+9°	0 dB	0°	285°	+9°	330°	+17°	4.3dB	314°K	406427	-286 Hz
2029-10-22	Monday	22:30	290°	+4°	0 dB	0°	290°	+4°	337°	+17°	4.3dB	316°K	406429	-280 Hz
2029-10-23	Tuesday	09:00	066°	+2°	0 dB	0°	066°	+2°	130°	+19°	4.7dB	346°K	406407	+278 Hz
2029-10-23	Tuesday	09:30	071°	+6°	0 dB	0°	071°	+6°	137°	+19°	4.7dB	347°K	406403	+287 Hz
2029-10-23	Tuesday	10:00	076°	+11°	0 dB	0°	076°	+11°	144°	+19°	4.7dB	348°K	406399	+291 Hz
2029-10-23	Tuesday	10:30	081°	+16°	0 dB	0°	081°	+16°	152°	+19°	4.7dB	349°K	406394	+291 Hz
2029-10-23	Tuesday	11:00	086°	+21°	0 dB	0°	086°	+21°	159°	+19°	4.7dB	350°K	406389	+286 Hz
2029-10-23	Tuesday	11:30	091°	+27°	0 dB	0°	091°	+27°	166°	+19°	4.7dB	350°K	406383	+277 Hz
2029-10-23	Tuesday	12:00	096°	+32°	0 dB	0°	096°	+32°	173°	+19°	4.7dB	351°K	406378	+263 Hz
2029-10-23	Tuesday	12:30	102°	+37°	0 dB	0°	102°	+37°	181°	+19°	4.7dB	352°K	406372	+245 Hz
2029-10-23	Tuesday	13:00	108°	+42°	0 dB	0°	108°	+42°	188°	+19°	4.7dB	353°K	406365	+222 Hz
2029-10-23	Tuesday	13:30	115°	+46°	0 dB	0°	115°	+46°	195°	+19°	4.7dB	353°K	406359	+196 Hz
2029-10-23	Tuesday	14:00	123°	+51°	0 dB	0°	123°	+51°	203°	+19°	4.8dB	354°K	406352	+167 Hz
2029-10-23	Tuesday	14:30	132°	+55°	0 dB	0°	132°	+55°	210°	+19°	4.8dB	355°K	406345	+136 Hz
2029-10-23	Tuesday	15:00	143°	+58°	0 dB	0°	143°	+58°	217°	+19°	4.8dB	356°K	406337	+101 Hz
2029-10-23	Tuesday	15:30	156°	+61°	0 dB	0°	156°	+61°	224°	+19°	4.8dB	356°K	406330	+66 Hz
2029-10-23	Tuesday	16:00	171°	+63°	0 dB	0°	171°	+63°	232°	+19°	4.8dB	357°K	406322	+29 Hz
2029-10-23	Tuesday	16:30	186°	+63°	0 dB	0°	186°	+63°	239°	+19°	4.8dB	358°K	406313	-8 Hz
2029-10-23	Tuesday	17:00	201°	+62°	0 dB	0°	201°	+62°	246°	+20°	4.8dB	358°K	406305	-45 Hz
2029-10-23	Tuesday	17:30	214°	+59°	0 dB	0°	214°	+59°	253°	+20°	4.8dB	359°K	406296	-81 Hz
2029-10-23	Tuesday	18:00	226°	+56°	0 dB	0°	226°	+56°	261°	+20°	4.8dB	360°K	406286	-115 Hz
2029-10-23	Tuesday	18:30	235°	+52°	0 dB	0°	235°	+52°	268°	+20°	4.8dB	361°K	406277	-147 Hz
2029-10-23	Tuesday	19:00	244°	+48°	0 dB	0°	244°	+48°	275°	+20°	4.8dB	361°K	406267	-177 Hz
2029-10-23	Tuesday	19:30	251°	+43°	0 dB	0°	251°	+43°	282°	+20°	4.8dB	362°K	406257	-203 Hz
2029-10-23	Tuesday	20:00	258°	+38°	0 dB	0°	258°	+38°	290°	+20°	4.8dB	363°K	406246	-226 Hz
2029-10-23	Tuesday	20:30	264°	+33°	0 dB	0°	264°	+33°	297°	+20°	4.9dB	364°K	406236	-244 Hz
2029-10-23	Tuesday	21:00	269°	+28°	0 dB	0°	269°	+28°	304°	+20°	4.9dB	364°K	406225	-259 Hz
2029-10-23	Tuesday	21:30	274°	+23°	0 dB	0°	274°	+23°	311°	+20°	4.9dB	365°K	406213	-269 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-23	Tuesday 22:00	279°	+18°	0 dB	0°	279°	+18°	319°	+20°	4.9dB	366°K	406202	-274 Hz
2029-10-23	Tuesday 22:30	284°	+14°	0 dB	0°	284°	+14°	326°	+20°	4.9dB	367°K	406190	-275 Hz
2029-10-23	Tuesday 23:00	289°	+9°	0 dB	0°	289°	+9°	333°	+20°	4.9dB	367°K	406177	-271 Hz
2029-10-23	Tuesday 23:30	294°	+4°	0 dB	0°	294°	+4°	341°	+20°	4.9dB	368°K	406165	-263 Hz
2029-10-24	wednesday00:00	299°	-0°	0 dB	0°	299°	-0°	348°	+20°	4.9dB	369°K	406152	-251 Hz
2029-10-24	wednesday09:30	061°	+1°	0 dB	0°	061°	+1°	126°	+21°	4.7dB	355°K	405849	+274 Hz
2029-10-24	wednesday10:00	066°	+6°	0 dB	0°	066°	+6°	133°	+21°	4.7dB	355°K	405830	+285 Hz
2029-10-24	wednesday10:30	071°	+11°	0 dB	0°	071°	+11°	140°	+21°	4.7dB	354°K	405810	+292 Hz
2029-10-24	wednesday11:00	076°	+15°	0 dB	0°	076°	+15°	148°	+21°	4.7dB	353°K	405791	+294 Hz
2029-10-24	wednesday11:30	081°	+20°	0 dB	0°	081°	+20°	155°	+21°	4.7dB	352°K	405771	+292 Hz
2029-10-24	wednesday12:00	086°	+25°	0 dB	0°	086°	+25°	162°	+21°	4.7dB	352°K	405750	+285 Hz
2029-10-24	wednesday12:30	091°	+31°	0 dB	0°	091°	+31°	169°	+22°	4.7dB	351°K	405730	+274 Hz
2029-10-24	wednesday13:00	096°	+36°	0 dB	0°	096°	+36°	177°	+22°	4.7dB	350°K	405709	+259 Hz
2029-10-24	wednesday13:30	102°	+41°	0 dB	0°	102°	+41°	184°	+22°	4.7dB	349°K	405687	+239 Hz
2029-10-24	wednesday14:00	108°	+46°	0 dB	0°	108°	+46°	191°	+22°	4.7dB	349°K	405666	+216 Hz
2029-10-24	wednesday14:30	116°	+50°	0 dB	0°	116°	+50°	198°	+22°	4.7dB	348°K	405644	+189 Hz
2029-10-24	wednesday15:00	124°	+55°	0 dB	0°	124°	+55°	206°	+22°	4.7dB	348°K	405622	+159 Hz
2029-10-24	wednesday15:30	135°	+59°	0 dB	0°	135°	+59°	213°	+22°	4.7dB	349°K	405599	+127 Hz
2029-10-24	wednesday16:00	147°	+62°	0 dB	0°	147°	+62°	220°	+22°	4.7dB	349°K	405576	+92 Hz
2029-10-24	wednesday16:30	161°	+64°	0 dB	0°	161°	+64°	227°	+22°	4.7dB	350°K	405553	+57 Hz
2029-10-24	wednesday17:00	177°	+65°	0 dB	0°	177°	+65°	235°	+22°	4.7dB	351°K	405529	+21 Hz
2029-10-24	wednesday17:30	193°	+65°	0 dB	0°	193°	+65°	242°	+22°	4.7dB	352°K	405505	-16 Hz
2029-10-24	wednesday18:00	208°	+63°	0 dB	0°	208°	+63°	249°	+22°	4.7dB	353°K	405481	-52 Hz
2029-10-24	wednesday18:30	221°	+60°	0 dB	0°	221°	+60°	256°	+22°	4.7dB	353°K	405457	-86 Hz
2029-10-24	wednesday19:00	232°	+57°	0 dB	0°	232°	+57°	264°	+22°	4.7dB	354°K	405432	-119 Hz
2029-10-24	wednesday19:30	242°	+52°	0 dB	0°	242°	+52°	271°	+22°	4.7dB	355°K	405407	-150 Hz
2029-10-24	wednesday20:00	249°	+48°	0 dB	0°	249°	+48°	278°	+22°	4.7dB	356°K	405381	-177 Hz
2029-10-24	wednesday20:30	256°	+43°	0 dB	0°	256°	+43°	285°	+22°	4.7dB	356°K	405355	-202 Hz
2029-10-24	wednesday21:00	262°	+38°	0 dB	0°	262°	+38°	293°	+22°	4.7dB	357°K	405329	-223 Hz
2029-10-24	wednesday21:30	268°	+33°	0 dB	0°	268°	+33°	300°	+22°	4.8dB	358°K	405303	-239 Hz
2029-10-24	wednesday22:00	273°	+28°	0 dB	0°	273°	+28°	307°	+22°	4.8dB	359°K	405276	-252 Hz
2029-10-24	wednesday22:30	278°	+23°	0 dB	0°	278°	+23°	314°	+22°	4.8dB	359°K	405249	-260 Hz
2029-10-24	wednesday23:00	283°	+18°	0 dB	0°	283°	+18°	322°	+22°	4.8dB	360°K	405221	-263 Hz
2029-10-24	wednesday23:30	288°	+13°	0 dB	0°	288°	+13°	329°	+22°	4.8dB	361°K	405193	-262 Hz
2029-10-25	Thursday 00:00	293°	+8°	0 dB	0°	293°	+8°	336°	+22°	4.8dB	362°K	405165	-257 Hz
2029-10-25	Thursday 00:30	298°	+4°	0 dB	0°	298°	+4°	344°	+22°	4.8dB	362°K	405137	-247 Hz
2029-10-25	Thursday 01:00	303°	-0°	0 dB	0°	303°	-0°	351°	+22°	4.8dB	363°K	405108	-233 Hz
2029-10-25	Thursday 10:00	057°	-0°	0 dB	0°	057°	-0°	121°	+23°	4.9dB	380°K	404532	+269 Hz
2029-10-25	Thursday 10:30	062°	+4°	0 dB	0°	062°	+4°	129°	+23°	5.0dB	381°K	404497	+283 Hz
2029-10-25	Thursday 11:00	067°	+9°	0 dB	0°	067°	+9°	136°	+23°	5.0dB	383°K	404461	+292 Hz
2029-10-25	Thursday 11:30	072°	+14°	0 dB	0°	072°	+14°	143°	+23°	5.0dB	384°K	404425	+297 Hz
2029-10-25	Thursday 12:00	076°	+18°	0 dB	0°	076°	+18°	150°	+23°	5.0dB	385°K	404389	+298 Hz
2029-10-25	Thursday 12:30	081°	+23°	0 dB	0°	081°	+23°	158°	+23°	5.0dB	386°K	404353	+294 Hz
2029-10-25	Thursday 13:00	086°	+28°	0 dB	0°	086°	+28°	165°	+23°	5.0dB	387°K	404316	+286 Hz
2029-10-25	Thursday 13:30	091°	+34°	0 dB	0°	091°	+34°	172°	+23°	5.0dB	388°K	404278	+274 Hz
2029-10-25	Thursday 14:00	097°	+39°	0 dB	0°	097°	+39°	179°	+23°	5.0dB	389°K	404241	+257 Hz
2029-10-25	Thursday 14:30	103°	+44°	0 dB	0°	103°	+44°	187°	+23°	5.0dB	390°K	404203	+236 Hz
2029-10-25	Thursday 15:00	109°	+49°	0 dB	0°	109°	+49°	194°	+23°	5.0dB	391°K	404164	+212 Hz
2029-10-25	Thursday 15:30	117°	+53°	0 dB	0°	117°	+53°	201°	+23°	5.0dB	392°K	404126	+184 Hz
2029-10-25	Thursday 16:00	126°	+58°	0 dB	0°	126°	+58°	208°	+23°	5.0dB	393°K	404087	+154 Hz
2029-10-25	Thursday 16:30	137°	+61°	0 dB	0°	137°	+61°	216°	+23°	5.1dB	395°K	404047	+121 Hz
2029-10-25	Thursday 17:00	151°	+64°	0 dB	0°	151°	+64°	223°	+23°	5.1dB	396°K	404007	+87 Hz
2029-10-25	Thursday 17:30	166°	+66°	0 dB	0°	166°	+66°	230°	+23°	5.1dB	397°K	403967	+51 Hz
2029-10-25	Thursday 18:00	183°	+67°	0 dB	0°	183°	+67°	237°	+23°	5.1dB	398°K	403927	+16 Hz
2029-10-25	Thursday 18:30	200°	+66°	0 dB	0°	200°	+66°	245°	+23°	5.1dB	399°K	403886	-20 Hz
2029-10-25	Thursday 19:00	215°	+63°	0 dB	0°	215°	+63°	252°	+23°	5.1dB	400°K	403845	-55 Hz
2029-10-25	Thursday 19:30	227°	+60°	0 dB	0°	227°	+60°	259°	+23°	5.1dB	401°K	403803	-89 Hz
2029-10-25	Thursday 20:00	237°	+56°	0 dB	0°	237°	+56°	266°	+23°	5.1dB	403°K	403762	-121 Hz
2029-10-25	Thursday 20:30	246°	+52°	0 dB	0°	246°	+52°	274°	+23°	5.1dB	404°K	403719	-150 Hz
2029-10-25	Thursday 21:00	253°	+47°	0 dB	0°	253°	+47°	281°	+23°	5.1dB	405°K	403677	-176 Hz
2029-10-25	Thursday 21:30	260°	+42°	0 dB	0°	260°	+42°	288°	+23°	5.2dB	406°K	403634	-199 Hz
2029-10-25	Thursday 22:00	266°	+37°	0 dB	0°	266°	+37°	295°	+23°	5.2dB	408°K	403590	-218 Hz
2029-10-25	Thursday 22:30	271°	+32°	0 dB	0°	271°	+32°	303°	+23°	5.2dB	409°K	403547	-234 Hz
2029-10-25	Thursday 23:00	276°	+27°	0 dB	0°	276°	+27°	310°	+23°	5.2dB	410°K	403503	-244 Hz
2029-10-25	Thursday 23:30	281°	+22°	0 dB	0°	281°	+22°	317°	+24°	5.2dB	411°K	403458	-251 Hz
2029-10-26	Friday 00:00	286°	+17°	0 dB	0°	286°	+17°	324°	+24°	5.2dB	413°K	403414	-253 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-26	Friday	00:30	290°	+12°	0 dB	0°	290°	+12°	332°	+24°	5.2dB	414°K	403369 -250 Hz
2029-10-26	Friday	01:00	295°	+8°	0 dB	0°	295°	+8°	339°	+24°	5.2dB	415°K	403323 -244 Hz
2029-10-26	Friday	01:30	300°	+3°	0 dB	0°	300°	+3°	346°	+24°	5.2dB	416°K	403277 -232 Hz
2029-10-26	Friday	11:00	058°	+2°	0 dB	0°	058°	+2°	124°	+24°	5.5dB	446°K	402338 +282 Hz
2029-10-26	Friday	11:30	063°	+6°	0 dB	0°	063°	+6°	131°	+24°	5.5dB	448°K	402285 +294 Hz
2029-10-26	Friday	12:00	068°	+11°	0 dB	0°	068°	+11°	138°	+24°	5.5dB	450°K	402231 +302 Hz
2029-10-26	Friday	12:30	073°	+16°	0 dB	0°	073°	+16°	146°	+24°	5.5dB	453°K	402178 +305 Hz
2029-10-26	Friday	13:00	078°	+21°	0 dB	0°	078°	+21°	153°	+24°	5.5dB	455°K	402123 +305 Hz
2029-10-26	Friday	13:30	082°	+25°	0 dB	0°	082°	+25°	160°	+24°	5.5dB	458°K	402069 +300 Hz
2029-10-26	Friday	14:00	087°	+31°	0 dB	0°	087°	+31°	167°	+24°	5.6dB	460°K	402014 +290 Hz
2029-10-26	Friday	14:30	093°	+36°	0 dB	0°	093°	+36°	175°	+24°	5.6dB	462°K	401958 +276 Hz
2029-10-26	Friday	15:00	098°	+41°	0 dB	0°	098°	+41°	182°	+24°	5.6dB	465°K	401903 +258 Hz
2029-10-26	Friday	15:30	104°	+46°	0 dB	0°	104°	+46°	189°	+24°	5.6dB	467°K	401847 +237 Hz
2029-10-26	Friday	16:00	111°	+50°	0 dB	0°	111°	+50°	196°	+24°	5.6dB	470°K	401790 +211 Hz
2029-10-26	Friday	16:30	120°	+55°	0 dB	0°	120°	+55°	204°	+24°	5.6dB	472°K	401733 +183 Hz
2029-10-26	Friday	17:00	129°	+59°	0 dB	0°	129°	+59°	211°	+24°	5.7dB	474°K	401676 +152 Hz
2029-10-26	Friday	17:30	141°	+63°	0 dB	0°	141°	+63°	218°	+24°	5.7dB	477°K	401619 +119 Hz
2029-10-26	Friday	18:00	155°	+65°	0 dB	0°	155°	+65°	225°	+24°	5.7dB	479°K	401561 +84 Hz
2029-10-26	Friday	18:30	172°	+67°	0 dB	0°	172°	+67°	233°	+24°	5.7dB	481°K	401502 +49 Hz
2029-10-26	Friday	19:00	189°	+67°	0 dB	0°	189°	+67°	240°	+24°	5.7dB	484°K	401444 +13 Hz
2029-10-26	Friday	19:30	205°	+65°	0 dB	0°	205°	+65°	247°	+24°	5.7dB	486°K	401385 -23 Hz
2029-10-26	Friday	20:00	219°	+63°	0 dB	0°	219°	+63°	254°	+24°	5.8dB	489°K	401325 -57 Hz
2029-10-26	Friday	20:30	231°	+59°	0 dB	0°	231°	+59°	262°	+24°	5.8dB	491°K	401265 -91 Hz
2029-10-26	Friday	21:00	241°	+55°	0 dB	0°	241°	+55°	269°	+24°	5.8dB	493°K	401205 -121 Hz
2029-10-26	Friday	21:30	249°	+50°	0 dB	0°	249°	+50°	276°	+24°	5.8dB	496°K	401145 -150 Hz
2029-10-26	Friday	22:00	256°	+45°	0 dB	0°	256°	+45°	283°	+24°	5.8dB	498°K	401084 -175 Hz
2029-10-26	Friday	22:30	262°	+40°	0 dB	0°	262°	+40°	290°	+24°	5.8dB	500°K	401022 -197 Hz
2029-10-26	Friday	23:00	267°	+35°	0 dB	0°	267°	+35°	298°	+24°	5.8dB	500°K	400961 -215 Hz
2029-10-26	Friday	23:30	273°	+30°	0 dB	0°	273°	+30°	305°	+24°	5.8dB	500°K	400898 -228 Hz
2029-10-27	Saturday	00:00	278°	+25°	0 dB	0°	278°	+25°	312°	+24°	5.8dB	500°K	400836 -238 Hz
2029-10-27	Saturday	00:30	282°	+20°	0 dB	0°	282°	+20°	319°	+24°	5.8dB	500°K	400773 -243 Hz
2029-10-27	Saturday	01:00	287°	+15°	0 dB	0°	287°	+15°	327°	+24°	5.8dB	500°K	400710 -244 Hz
2029-10-27	Saturday	01:30	292°	+11°	0 dB	0°	292°	+11°	334°	+24°	5.8dB	500°K	400646 -240 Hz
2029-10-27	Saturday	02:00	297°	+6°	0 dB	0°	297°	+6°	341°	+23°	5.8dB	500°K	400582 -232 Hz
2029-10-27	Saturday	02:30	302°	+2°	0 dB	0°	302°	+2°	348°	+23°	5.8dB	500°K	400518 -219 Hz
2029-10-27	Saturday	12:00	060°	+3°	0 dB	0°	060°	+3°	126°	+23°	5.8dB	500°K	399223 +296 Hz
2029-10-27	Saturday	12:30	065°	+7°	0 dB	0°	065°	+7°	133°	+23°	5.7dB	497°K	399151 +307 Hz
2029-10-27	Saturday	13:00	070°	+12°	0 dB	0°	070°	+12°	141°	+23°	5.7dB	493°K	399079 +313 Hz
2029-10-27	Saturday	13:30	075°	+17°	0 dB	0°	075°	+17°	148°	+23°	5.7dB	490°K	399006 +316 Hz
2029-10-27	Saturday	14:00	080°	+22°	0 dB	0°	080°	+22°	155°	+23°	5.6dB	487°K	398933 +314 Hz
2029-10-27	Saturday	14:30	085°	+27°	0 dB	0°	085°	+27°	162°	+23°	5.6dB	484°K	398860 +307 Hz
2029-10-27	Saturday	15:00	090°	+32°	0 dB	0°	090°	+32°	170°	+23°	5.6dB	481°K	398786 +297 Hz
2029-10-27	Saturday	15:30	095°	+37°	0 dB	0°	095°	+37°	177°	+23°	5.6dB	477°K	398712 +281 Hz
2029-10-27	Saturday	16:00	101°	+42°	0 dB	0°	101°	+42°	184°	+23°	5.5dB	474°K	398637 +262 Hz
2029-10-27	Saturday	16:30	107°	+47°	0 dB	0°	107°	+47°	191°	+23°	5.5dB	471°K	398562 +239 Hz
2029-10-27	Saturday	17:00	115°	+51°	0 dB	0°	115°	+51°	199°	+23°	5.5dB	468°K	398487 +213 Hz
2029-10-27	Saturday	17:30	123°	+56°	0 dB	0°	123°	+56°	206°	+23°	5.4dB	465°K	398411 +184 Hz
2029-10-27	Saturday	18:00	134°	+60°	0 dB	0°	134°	+60°	213°	+23°	5.4dB	461°K	398335 +152 Hz
2029-10-27	Saturday	18:30	146°	+63°	0 dB	0°	146°	+63°	220°	+23°	5.4dB	458°K	398258 +118 Hz
2029-10-27	Saturday	19:00	161°	+65°	0 dB	0°	161°	+65°	228°	+23°	5.4dB	455°K	398181 +83 Hz
2029-10-27	Saturday	19:30	177°	+66°	0 dB	0°	177°	+66°	235°	+23°	5.3dB	452°K	398104 +47 Hz
2029-10-27	Saturday	20:00	194°	+66°	0 dB	0°	194°	+66°	242°	+23°	5.3dB	449°K	398026 +11 Hz
2029-10-27	Saturday	20:30	209°	+64°	0 dB	0°	209°	+64°	249°	+23°	5.3dB	446°K	397948 -25 Hz
2029-10-27	Saturday	21:00	222°	+61°	0 dB	0°	222°	+61°	257°	+23°	5.2dB	442°K	397870 -59 Hz
2029-10-27	Saturday	21:30	233°	+57°	0 dB	0°	233°	+57°	264°	+23°	5.2dB	439°K	397791 -92 Hz
2029-10-27	Saturday	22:00	242°	+53°	0 dB	0°	242°	+53°	271°	+23°	5.2dB	436°K	397712 -123 Hz
2029-10-27	Saturday	22:30	250°	+48°	0 dB	0°	250°	+48°	278°	+23°	5.1dB	433°K	397632 -150 Hz
2029-10-27	Saturday	23:00	257°	+43°	0 dB	0°	257°	+43°	286°	+23°	5.1dB	430°K	397553 -175 Hz
2029-10-27	Saturday	23:30	263°	+38°	0 dB	0°	263°	+38°	293°	+22°	5.1dB	426°K	397472 -195 Hz
2029-10-28	Sunday	00:00	268°	+33°	0 dB	0°	268°	+33°	300°	+22°	5.0dB	423°K	397392 -212 Hz
2029-10-28	Sunday	00:30	273°	+28°	0 dB	0°	273°	+28°	307°	+22°	5.0dB	420°K	397311 -225 Hz
2029-10-28	Sunday	01:00	278°	+23°	0 dB	0°	278°	+23°	315°	+22°	5.0dB	417°K	397229 -233 Hz
2029-10-28	Sunday	01:30	283°	+18°	0 dB	0°	283°	+18°	322°	+22°	4.9dB	414°K	397147 -237 Hz
2029-10-28	Sunday	02:00	288°	+13°	0 dB	0°	288°	+13°	329°	+22°	4.9dB	412°K	397065 -236 Hz
2029-10-28	Sunday	02:30	293°	+8°	0 dB	0°	293°	+8°	336°	+22°	4.9dB	410°K	396983 -231 Hz
2029-10-28	Sunday	03:00	298°	+4°	0 dB	0°	298°	+4°	344°	+22°	4.9dB	408°K	396900 -221 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-28	Sunday	13:00	063°	+3°	0 dB	0°	063°	+3°	128°	+21°	4.5dB	377°K	395163 +312 Hz
2029-10-28	Sunday	13:30	068°	+8°	0 dB	0°	068°	+8°	136°	+21°	4.5dB	375°K	395072 +321 Hz
2029-10-28	Sunday	14:00	073°	+12°	0 dB	0°	073°	+12°	143°	+21°	4.5dB	374°K	394981 +327 Hz
2029-10-28	Sunday	14:30	078°	+17°	0 dB	0°	078°	+17°	150°	+21°	4.4dB	372°K	394890 +328 Hz
2029-10-28	Sunday	15:00	083°	+22°	0 dB	0°	083°	+22°	157°	+21°	4.4dB	370°K	394798 +325 Hz
2029-10-28	Sunday	15:30	088°	+27°	0 dB	0°	088°	+27°	165°	+21°	4.4dB	369°K	394706 +317 Hz
2029-10-28	Sunday	16:00	093°	+32°	0 dB	0°	093°	+32°	172°	+21°	4.4dB	366°K	394614 +305 Hz
2029-10-28	Sunday	16:30	099°	+37°	0 dB	0°	099°	+37°	179°	+21°	4.3dB	364°K	394521 +288 Hz
2029-10-28	Sunday	17:00	105°	+42°	0 dB	0°	105°	+42°	186°	+21°	4.3dB	362°K	394428 +267 Hz
2029-10-28	Sunday	17:30	112°	+47°	0 dB	0°	112°	+47°	194°	+21°	4.3dB	359°K	394334 +243 Hz
2029-10-28	Sunday	18:00	120°	+51°	0 dB	0°	120°	+51°	201°	+21°	4.3dB	357°K	394240 +215 Hz
2029-10-28	Sunday	18:30	129°	+55°	0 dB	0°	129°	+55°	208°	+21°	4.2dB	354°K	394146 +185 Hz
2029-10-28	Sunday	19:00	139°	+59°	0 dB	0°	139°	+59°	215°	+21°	4.2dB	352°K	394051 +151 Hz
2029-10-28	Sunday	19:30	152°	+62°	0 dB	0°	152°	+62°	223°	+21°	4.2dB	350°K	393956 +117 Hz
2029-10-28	Sunday	20:00	167°	+64°	0 dB	0°	167°	+64°	230°	+21°	4.1dB	347°K	393861 +81 Hz
2029-10-28	Sunday	20:30	182°	+64°	0 dB	0°	182°	+64°	237°	+21°	4.1dB	345°K	393765 +44 Hz
2029-10-28	Sunday	21:00	198°	+63°	0 dB	0°	198°	+63°	244°	+21°	4.1dB	343°K	393669 +7 Hz
2029-10-28	Sunday	21:30	212°	+61°	0 dB	0°	212°	+61°	252°	+21°	4.1dB	340°K	393573 -28 Hz
2029-10-28	Sunday	22:00	224°	+58°	0 dB	0°	224°	+58°	259°	+21°	4.0dB	338°K	393476 -63 Hz
2029-10-28	Sunday	22:30	234°	+54°	0 dB	0°	234°	+54°	266°	+20°	4.0dB	335°K	393379 -96 Hz
2029-10-28	Sunday	23:00	242°	+50°	0 dB	0°	242°	+50°	273°	+20°	4.0dB	333°K	393281 -126 Hz
2029-10-28	Sunday	23:30	250°	+45°	0 dB	0°	250°	+45°	281°	+20°	3.9dB	331°K	393184 -153 Hz
2029-10-29	Monday	00:00	256°	+40°	0 dB	0°	256°	+40°	288°	+20°	3.9dB	328°K	393085 -176 Hz
2029-10-29	Monday	00:30	262°	+35°	0 dB	0°	262°	+35°	295°	+20°	3.9dB	326°K	392987 -196 Hz
2029-10-29	Monday	01:00	268°	+30°	0 dB	0°	268°	+30°	302°	+20°	3.8dB	324°K	392888 -212 Hz
2029-10-29	Monday	01:30	273°	+25°	0 dB	0°	273°	+25°	310°	+20°	3.8dB	321°K	392789 -223 Hz
2029-10-29	Monday	02:00	278°	+20°	0 dB	0°	278°	+20°	317°	+20°	3.8dB	319°K	392689 -230 Hz
2029-10-29	Monday	02:30	283°	+15°	0 dB	0°	283°	+15°	324°	+20°	3.8dB	317°K	392590 -233 Hz
2029-10-29	Monday	03:00	288°	+10°	0 dB	0°	288°	+10°	331°	+20°	3.7dB	314°K	392489 -230 Hz
2029-10-29	Monday	03:30	293°	+5°	0 dB	0°	293°	+5°	339°	+20°	3.7dB	312°K	392389 -224 Hz
2029-10-29	Monday	04:00	298°	+0°	0 dB	0°	298°	+0°	346°	+20°	3.6dB	309°K	392288 -213 Hz
2029-10-29	Monday	14:00	066°	+2°	0 dB	0°	066°	+2°	131°	+19°	2.9dB	254°K	390202 +328 Hz
2029-10-29	Monday	14:30	072°	+7°	0 dB	0°	072°	+7°	138°	+18°	2.8dB	251°K	390095 +337 Hz
2029-10-29	Monday	15:00	077°	+12°	0 dB	0°	077°	+12°	145°	+18°	2.8dB	248°K	389987 +341 Hz
2029-10-29	Monday	15:30	082°	+17°	0 dB	0°	082°	+17°	153°	+18°	2.7dB	246°K	389879 +340 Hz
2029-10-29	Monday	16:00	087°	+22°	0 dB	0°	087°	+22°	160°	+18°	2.7dB	243°K	389770 +335 Hz
2029-10-29	Monday	16:30	092°	+27°	0 dB	0°	092°	+27°	167°	+18°	2.6dB	240°K	389661 +326 Hz
2029-10-29	Monday	17:00	098°	+32°	0 dB	0°	098°	+32°	174°	+18°	2.6dB	237°K	389552 +312 Hz
2029-10-29	Monday	17:30	103°	+37°	0 dB	0°	103°	+37°	182°	+18°	2.5dB	234°K	389443 +293 Hz
2029-10-29	Monday	18:00	110°	+41°	0 dB	0°	110°	+41°	189°	+18°	2.5dB	232°K	389333 +271 Hz
2029-10-29	Monday	18:30	117°	+46°	0 dB	0°	117°	+46°	196°	+18°	2.4dB	229°K	389223 +245 Hz
2029-10-29	Monday	19:00	126°	+50°	0 dB	0°	126°	+50°	203°	+18°	2.4dB	226°K	389113 +216 Hz
2029-10-29	Monday	19:30	135°	+54°	0 dB	0°	135°	+54°	211°	+18°	2.4dB	225°K	389002 +184 Hz
2029-10-29	Monday	20:00	146°	+57°	0 dB	0°	146°	+57°	218°	+18°	2.4dB	224°K	388891 +149 Hz
2029-10-29	Monday	20:30	159°	+60°	0 dB	0°	159°	+60°	225°	+18°	2.3dB	223°K	388780 +113 Hz
2029-10-29	Monday	21:00	173°	+61°	0 dB	0°	173°	+61°	232°	+18°	2.3dB	222°K	388669 +76 Hz
2029-10-29	Monday	21:30	187°	+61°	0 dB	0°	187°	+61°	240°	+17°	2.3dB	221°K	388557 +39 Hz
2029-10-29	Monday	22:00	201°	+59°	0 dB	0°	201°	+59°	247°	+17°	2.3dB	220°K	388445 +1 Hz
2029-10-29	Monday	22:30	214°	+57°	0 dB	0°	214°	+57°	254°	+17°	2.3dB	219°K	388333 -35 Hz
2029-10-29	Monday	23:00	224°	+54°	0 dB	0°	224°	+54°	261°	+17°	2.2dB	218°K	388220 -69 Hz
2029-10-29	Monday	23:30	234°	+50°	0 dB	0°	234°	+50°	269°	+17°	2.2dB	217°K	388108 -102 Hz
2029-10-30	Tuesday	00:00	242°	+45°	0 dB	0°	242°	+45°	276°	+17°	2.2dB	216°K	387994 -132 Hz
2029-10-30	Tuesday	00:30	249°	+41°	0 dB	0°	249°	+41°	283°	+17°	2.2dB	216°K	387881 -158 Hz
2029-10-30	Tuesday	01:00	256°	+36°	0 dB	0°	256°	+36°	290°	+17°	2.2dB	215°K	387767 -181 Hz
2029-10-30	Tuesday	01:30	261°	+31°	0 dB	0°	261°	+31°	298°	+17°	2.1dB	214°K	387654 -200 Hz
2029-10-30	Tuesday	02:00	267°	+26°	0 dB	0°	267°	+26°	305°	+17°	2.1dB	213°K	387539 -214 Hz
2029-10-30	Tuesday	02:30	272°	+21°	0 dB	0°	272°	+21°	312°	+17°	2.1dB	212°K	387425 -224 Hz
2029-10-30	Tuesday	03:00	277°	+15°	0 dB	0°	277°	+15°	319°	+17°	2.1dB	211°K	387310 -230 Hz
2029-10-30	Tuesday	03:30	282°	+10°	0 dB	0°	282°	+10°	327°	+17°	2.1dB	210°K	387195 -231 Hz
2029-10-30	Tuesday	04:00	287°	+6°	0 dB	0°	287°	+6°	334°	+16°	2.0dB	209°K	387080 -227 Hz
2029-10-30	Tuesday	04:30	292°	+1°	0 dB	0°	292°	+1°	341°	+16°	2.0dB	208°K	386965 -218 Hz
2029-10-30	Tuesday	15:00	071°	+1°	0 dB	0°	071°	+1°	134°	+15°	1.6dB	189°K	384487 +343 Hz
2029-10-30	Tuesday	15:30	076°	+6°	0 dB	0°	076°	+6°	141°	+15°	1.6dB	188°K	384367 +350 Hz
2029-10-30	Tuesday	16:00	081°	+11°	0 dB	0°	081°	+11°	148°	+14°	1.5dB	187°K	384246 +352 Hz
2029-10-30	Tuesday	16:30	086°	+16°	0 dB	0°	086°	+16°	155°	+14°	1.5dB	186°K	384125 +350 Hz
2029-10-30	Tuesday	17:00	092°	+21°	0 dB	0°	092°	+21°	163°	+14°	1.5dB	185°K	384004 +343 Hz

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Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-10-30	Tuesday	17:30	097°	+26°	0 dB	0°	097°	+26°	170°	+14°	1.5dB	184°K	383883	+332 Hz
2029-10-30	Tuesday	18:00	103°	+31°	0 dB	0°	103°	+31°	177°	+14°	1.4dB	183°K	383762	+316 Hz
2029-10-30	Tuesday	18:30	109°	+35°	0 dB	0°	109°	+35°	184°	+14°	1.4dB	182°K	383640	+296 Hz
2029-10-30	Tuesday	19:00	116°	+40°	0 dB	0°	116°	+40°	192°	+14°	1.4dB	181°K	383519	+271 Hz
2029-10-30	Tuesday	19:30	124°	+44°	0 dB	0°	124°	+44°	199°	+14°	1.4dB	180°K	383397	+243 Hz
2029-10-30	Tuesday	20:00	132°	+48°	0 dB	0°	132°	+48°	206°	+14°	1.4dB	179°K	383275	+212 Hz
2029-10-30	Tuesday	20:30	142°	+52°	0 dB	0°	142°	+52°	213°	+14°	1.3dB	178°K	383153	+179 Hz
2029-10-30	Tuesday	21:00	153°	+54°	0 dB	0°	153°	+54°	221°	+14°	1.3dB	177°K	383030	+143 Hz
2029-10-30	Tuesday	21:30	165°	+56°	0 dB	0°	165°	+56°	228°	+13°	1.3dB	176°K	382908	+105 Hz
2029-10-30	Tuesday	22:00	178°	+57°	0 dB	0°	178°	+57°	235°	+13°	1.3dB	176°K	382785	+67 Hz
2029-10-30	Tuesday	22:30	191°	+56°	0 dB	0°	191°	+56°	242°	+13°	1.3dB	175°K	382662	+29 Hz
2029-10-30	Tuesday	23:00	203°	+54°	0 dB	0°	203°	+54°	250°	+13°	1.2dB	174°K	382539	-8 Hz
2029-10-30	Tuesday	23:30	215°	+52°	0 dB	0°	215°	+52°	257°	+13°	1.2dB	174°K	382416	-45 Hz
2029-10-31	wednesday	00:00	225°	+49°	0 dB	0°	225°	+49°	264°	+13°	1.2dB	174°K	382293	-80 Hz
2029-10-31	wednesday	00:30	233°	+45°	0 dB	0°	233°	+45°	271°	+13°	1.2dB	174°K	382170	-112 Hz
2029-10-31	wednesday	01:00	241°	+40°	0 dB	0°	241°	+40°	279°	+13°	1.2dB	175°K	382046	-141 Hz
2029-10-31	wednesday	01:30	248°	+36°	0 dB	0°	248°	+36°	286°	+13°	1.2dB	175°K	381922	-167 Hz
2029-10-31	wednesday	02:00	254°	+31°	0 dB	0°	254°	+31°	293°	+13°	1.2dB	175°K	381798	-188 Hz
2029-10-31	wednesday	02:30	260°	+26°	0 dB	0°	260°	+26°	300°	+12°	1.2dB	176°K	381674	-206 Hz
2029-10-31	wednesday	03:00	265°	+21°	0 dB	0°	265°	+21°	308°	+12°	1.2dB	176°K	381550	-219 Hz
2029-10-31	wednesday	03:30	271°	+16°	0 dB	0°	271°	+16°	315°	+12°	1.2dB	176°K	381426	-228 Hz
2029-10-31	wednesday	04:00	276°	+11°	0 dB	0°	276°	+11°	322°	+12°	1.2dB	177°K	381302	-231 Hz
2029-10-31	wednesday	04:30	281°	+5°	0 dB	0°	281°	+5°	329°	+12°	1.2dB	177°K	381177	-231 Hz
2029-10-31	wednesday	05:00	286°	+0°	0 dB	0°	286°	+0°	337°	+12°	1.2dB	177°K	381053	-225 Hz
2029-10-31	wednesday	16:30	081°	+4°	0 dB	0°	081°	+4°	144°	+10°	1.2dB	183°K	378164	+358 Hz
2029-10-31	wednesday	17:00	087°	+9°	0 dB	0°	087°	+9°	151°	+10°	1.2dB	183°K	378037	+359 Hz
2029-10-31	wednesday	17:30	092°	+14°	0 dB	0°	092°	+14°	158°	+9°	1.2dB	184°K	377911	+355 Hz
2029-10-31	wednesday	18:00	097°	+19°	0 dB	0°	097°	+19°	165°	+9°	1.2dB	184°K	377785	+346 Hz
2029-10-31	wednesday	18:30	103°	+24°	0 dB	0°	103°	+24°	173°	+9°	1.2dB	184°K	377658	+332 Hz
2029-10-31	wednesday	19:00	109°	+29°	0 dB	0°	109°	+29°	180°	+9°	1.2dB	184°K	377532	+314 Hz
2029-10-31	wednesday	19:30	116°	+33°	0 dB	0°	116°	+33°	187°	+9°	1.2dB	184°K	377406	+292 Hz
2029-10-31	wednesday	20:00	123°	+38°	0 dB	0°	123°	+38°	194°	+9°	1.2dB	184°K	377279	+266 Hz
2029-10-31	wednesday	20:30	131°	+42°	0 dB	0°	131°	+42°	202°	+9°	1.2dB	184°K	377153	+236 Hz
2029-10-31	wednesday	21:00	139°	+45°	0 dB	0°	139°	+45°	209°	+9°	1.2dB	185°K	377026	+203 Hz
2029-10-31	wednesday	21:30	149°	+48°	0 dB	0°	149°	+48°	216°	+9°	1.2dB	185°K	376900	+168 Hz
2029-10-31	wednesday	22:00	160°	+50°	0 dB	0°	160°	+50°	223°	+9°	1.2dB	185°K	376774	+131 Hz
2029-10-31	wednesday	22:30	171°	+51°	0 dB	0°	171°	+51°	231°	+8°	1.2dB	185°K	376647	+93 Hz
2029-10-31	wednesday	23:00	183°	+51°	0 dB	0°	183°	+51°	238°	+8°	1.2dB	185°K	376521	+54 Hz
2029-10-31	wednesday	23:30	194°	+51°	0 dB	0°	194°	+51°	245°	+8°	1.1dB	185°K	376395	+15 Hz
2029-11-01	Thursday	00:00	205°	+49°	0 dB	0°	205°	+49°	252°	+8°	1.2dB	186°K	376268	-23 Hz
2029-11-01	Thursday	00:30	215°	+46°	0 dB	0°	215°	+46°	260°	+8°	1.2dB	186°K	376142	-59 Hz
2029-11-01	Thursday	01:00	224°	+43°	0 dB	0°	224°	+43°	267°	+8°	1.1dB	186°K	376016	-94 Hz
2029-11-01	Thursday	01:30	232°	+39°	0 dB	0°	232°	+39°	274°	+8°	1.1dB	186°K	375890	-125 Hz
2029-11-01	Thursday	02:00	240°	+35°	0 dB	0°	240°	+35°	281°	+8°	1.1dB	186°K	375764	-154 Hz
2029-11-01	Thursday	02:30	246°	+30°	0 dB	0°	246°	+30°	289°	+8°	1.1dB	186°K	375637	-178 Hz
2029-11-01	Thursday	03:00	253°	+25°	0 dB	0°	253°	+25°	296°	+7°	1.1dB	186°K	375511	-199 Hz
2029-11-01	Thursday	03:30	258°	+20°	0 dB	0°	258°	+20°	303°	+7°	1.1dB	187°K	375385	-215 Hz
2029-11-01	Thursday	04:00	264°	+15°	0 dB	0°	264°	+15°	310°	+7°	1.1dB	187°K	375259	-226 Hz
2029-11-01	Thursday	04:30	269°	+10°	0 dB	0°	269°	+10°	318°	+7°	1.1dB	187°K	375134	-233 Hz
2029-11-01	Thursday	05:00	274°	+5°	0 dB	0°	274°	+5°	325°	+7°	1.1dB	188°K	375008	-235 Hz
2029-11-01	Thursday	05:30	279°	-0°	0 dB	0°	279°	-0°	332°	+7°	1.1dB	188°K	374882	-232 Hz
2029-11-01	Thursday	17:30	087°	+2°	0 dB	0°	087°	+2°	146°	+4°	1.1dB	195°K	371897	+359 Hz
2029-11-01	Thursday	18:00	093°	+7°	0 dB	0°	093°	+7°	153°	+4°	1.1dB	196°K	371775	+357 Hz
2029-11-01	Thursday	18:30	098°	+12°	0 dB	0°	098°	+12°	161°	+4°	1.1dB	196°K	371652	+351 Hz
2029-11-01	Thursday	19:00	104°	+17°	0 dB	0°	104°	+17°	168°	+4°	1.1dB	196°K	371530	+341 Hz
2029-11-01	Thursday	19:30	109°	+22°	0 dB	0°	109°	+22°	175°	+4°	1.1dB	197°K	371408	+325 Hz
2029-11-01	Thursday	20:00	116°	+26°	0 dB	0°	116°	+26°	182°	+4°	1.1dB	197°K	371287	+305 Hz
2029-11-01	Thursday	20:30	122°	+31°	0 dB	0°	122°	+31°	190°	+3°	1.1dB	197°K	371165	+281 Hz
2029-11-01	Thursday	21:00	130°	+35°	0 dB	0°	130°	+35°	197°	+3°	1.1dB	198°K	371044	+253 Hz
2029-11-01	Thursday	21:30	137°	+38°	0 dB	0°	137°	+38°	204°	+3°	1.1dB	198°K	370923	+222 Hz
2029-11-01	Thursday	22:00	146°	+41°	0 dB	0°	146°	+41°	211°	+3°	1.1dB	198°K	370802	+188 Hz
2029-11-01	Thursday	22:30	155°	+44°	0 dB	0°	155°	+44°	219°	+3°	1.1dB	198°K	370681	+151 Hz
2029-11-01	Thursday	23:00	165°	+45°	0 dB	0°	165°	+45°	226°	+3°	1.1dB	199°K	370561	+113 Hz
2029-11-01	Thursday	23:30	176°	+46°	0 dB	0°	176°	+46°	233°	+3°	1.1dB	199°K	370440	+74 Hz
2029-11-02	Friday	00:00	186°	+46°	0 dB	0°	186°	+46°	240°	+3°	1.1dB	199°K	370320	+35 Hz
2029-11-02	Friday	00:30	197°	+44°	0 dB	0°	197°	+44°	248°	+3°	1.1dB	200°K	370201	-4 Hz

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Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-02	Friday	01:00	206°	+42°	0 dB	0°	206°	+42°	255°	+2°	1.1dB	200°K	370081 -41 Hz
2029-11-02	Friday	01:30	215°	+40°	0 dB	0°	215°	+40°	262°	+2°	1.1dB	200°K	369962 -77 Hz
2029-11-02	Friday	02:00	224°	+36°	0 dB	0°	224°	+36°	269°	+2°	1.1dB	201°K	369843 -111 Hz
2029-11-02	Friday	02:30	231°	+33°	0 dB	0°	231°	+33°	277°	+2°	1.1dB	201°K	369724 -142 Hz
2029-11-02	Friday	03:00	238°	+28°	0 dB	0°	238°	+28°	284°	+2°	1.1dB	201°K	369606 -169 Hz
2029-11-02	Friday	03:30	245°	+24°	0 dB	0°	245°	+24°	291°	+2°	1.1dB	202°K	369488 -192 Hz
2029-11-02	Friday	04:00	251°	+19°	0 dB	0°	251°	+19°	298°	+2°	1.1dB	202°K	369370 -211 Hz
2029-11-02	Friday	04:30	256°	+14°	0 dB	0°	256°	+14°	306°	+2°	1.1dB	202°K	369252 -226 Hz
2029-11-02	Friday	05:00	261°	+9°	0 dB	0°	261°	+9°	313°	+1°	1.1dB	203°K	369135 -235 Hz
2029-11-02	Friday	05:30	267°	+4°	0 dB	0°	267°	+4°	320°	+1°	1.1dB	203°K	369018 -240 Hz
2029-11-02	Friday	19:00	098°	+4°	0 dB	0°	098°	+4°	156°	-2°	1.1dB	211°K	365984 +347 Hz
2029-11-02	Friday	19:30	104°	+9°	0 dB	0°	104°	+9°	163°	-2°	1.1dB	212°K	365877 +339 Hz
2029-11-02	Friday	20:00	110°	+14°	0 dB	0°	110°	+14°	170°	-2°	1.1dB	212°K	365770 +326 Hz
2029-11-02	Friday	20:30	115°	+19°	0 dB	0°	115°	+19°	178°	-2°	1.1dB	212°K	365664 +309 Hz
2029-11-02	Friday	21:00	122°	+23°	0 dB	0°	122°	+23°	185°	-2°	1.1dB	213°K	365558 +288 Hz
2029-11-02	Friday	21:30	128°	+27°	0 dB	0°	128°	+27°	192°	-3°	1.1dB	215°K	365453 +262 Hz
2029-11-02	Friday	22:00	136°	+31°	0 dB	0°	136°	+31°	199°	-3°	1.2dB	217°K	365348 +233 Hz
2029-11-02	Friday	22:30	143°	+34°	0 dB	0°	143°	+34°	207°	-3°	1.2dB	218°K	365243 +201 Hz
2029-11-02	Friday	23:00	152°	+36°	0 dB	0°	152°	+36°	214°	-3°	1.2dB	220°K	365139 +166 Hz
2029-11-02	Friday	23:30	161°	+38°	0 dB	0°	161°	+38°	221°	-3°	1.2dB	222°K	365036 +129 Hz
2029-11-03	Saturday	00:00	170°	+39°	0 dB	0°	170°	+39°	228°	-3°	1.3dB	224°K	364933 +91 Hz
2029-11-03	Saturday	00:30	179°	+40°	0 dB	0°	179°	+40°	236°	-3°	1.3dB	226°K	364830 +52 Hz
2029-11-03	Saturday	01:00	189°	+39°	0 dB	0°	189°	+39°	243°	-3°	1.3dB	227°K	364728 +13 Hz
2029-11-03	Saturday	01:30	198°	+38°	0 dB	0°	198°	+38°	250°	-3°	1.3dB	229°K	364627 -26 Hz
2029-11-03	Saturday	02:00	207°	+36°	0 dB	0°	207°	+36°	257°	-4°	1.3dB	231°K	364525 -63 Hz
2029-11-03	Saturday	02:30	215°	+33°	0 dB	0°	215°	+33°	264°	-4°	1.4dB	233°K	364425 -98 Hz
2029-11-03	Saturday	03:00	223°	+30°	0 dB	0°	223°	+30°	272°	-4°	1.4dB	235°K	364325 -130 Hz
2029-11-03	Saturday	03:30	230°	+26°	0 dB	0°	230°	+26°	279°	-4°	1.4dB	236°K	364225 -160 Hz
2029-11-03	Saturday	04:00	236°	+22°	0 dB	0°	236°	+22°	286°	-4°	1.4dB	238°K	364126 -185 Hz
2029-11-03	Saturday	04:30	242°	+18°	0 dB	0°	242°	+18°	293°	-4°	1.4dB	240°K	364027 -207 Hz
2029-11-03	Saturday	05:00	248°	+13°	0 dB	0°	248°	+13°	301°	-4°	1.5dB	242°K	363929 -225 Hz
2029-11-03	Saturday	05:30	254°	+8°	0 dB	0°	254°	+8°	308°	-4°	1.5dB	243°K	363831 -238 Hz
2029-11-03	Saturday	06:00	259°	+3°	0 dB	0°	259°	+3°	315°	-5°	1.5dB	245°K	363734 -246 Hz
2029-11-03	Saturday	20:00	104°	+1°	0 dB	0°	104°	+1°	158°	-8°	2.1dB	300°K	361242 +327 Hz
2029-11-03	Saturday	20:30	109°	+6°	0 dB	0°	109°	+6°	165°	-8°	2.1dB	302°K	361162 +318 Hz
2029-11-03	Saturday	21:00	115°	+11°	0 dB	0°	115°	+11°	172°	-8°	2.1dB	304°K	361082 +304 Hz
2029-11-03	Saturday	21:30	121°	+15°	0 dB	0°	121°	+15°	179°	-8°	2.2dB	306°K	361003 +286 Hz
2029-11-03	Saturday	22:00	127°	+19°	0 dB	0°	127°	+19°	187°	-8°	2.2dB	308°K	360925 +263 Hz
2029-11-03	Saturday	22:30	134°	+23°	0 dB	0°	134°	+23°	194°	-9°	2.2dB	310°K	360847 +237 Hz
2029-11-03	Saturday	23:00	141°	+26°	0 dB	0°	141°	+26°	201°	-9°	2.2dB	312°K	360770 +208 Hz
2029-11-03	Saturday	23:30	148°	+29°	0 dB	0°	148°	+29°	208°	-9°	2.2dB	313°K	360694 +175 Hz
2029-11-04	Sunday	00:00	156°	+31°	0 dB	0°	156°	+31°	216°	-9°	2.2dB	313°K	360618 +140 Hz
2029-11-04	Sunday	00:30	164°	+33°	0 dB	0°	164°	+33°	223°	-9°	2.2dB	313°K	360543 +103 Hz
2029-11-04	Sunday	01:00	173°	+34°	0 dB	0°	173°	+34°	230°	-9°	2.2dB	313°K	360469 +65 Hz
2029-11-04	Sunday	01:30	181°	+34°	0 dB	0°	181°	+34°	237°	-9°	2.2dB	313°K	360395 +27 Hz
2029-11-04	Sunday	02:00	190°	+33°	0 dB	0°	190°	+33°	244°	-9°	2.2dB	313°K	360322 -11 Hz
2029-11-04	Sunday	02:30	198°	+32°	0 dB	0°	198°	+32°	252°	-9°	2.2dB	313°K	360250 -49 Hz
2029-11-04	Sunday	03:00	206°	+30°	0 dB	0°	206°	+30°	259°	-10°	2.2dB	313°K	360178 -85 Hz
2029-11-04	Sunday	03:30	214°	+27°	0 dB	0°	214°	+27°	266°	-10°	2.2dB	313°K	360107 -119 Hz
2029-11-04	Sunday	04:00	221°	+24°	0 dB	0°	221°	+24°	273°	-10°	2.2dB	313°K	360037 -150 Hz
2029-11-04	Sunday	04:30	228°	+20°	0 dB	0°	228°	+20°	281°	-10°	2.2dB	313°K	359967 -178 Hz
2029-11-04	Sunday	05:00	234°	+16°	0 dB	0°	234°	+16°	288°	-10°	2.2dB	313°K	359899 -202 Hz
2029-11-04	Sunday	05:30	240°	+12°	0 dB	0°	240°	+12°	295°	-10°	2.2dB	313°K	359831 -223 Hz
2029-11-04	Sunday	06:00	246°	+7°	0 dB	0°	246°	+7°	302°	-10°	2.2dB	313°K	359763 -239 Hz
2029-11-04	Sunday	06:30	251°	+3°	0 dB	0°	251°	+3°	310°	-10°	2.2dB	313°K	359696 -251 Hz
2029-11-04	Sunday	21:30	114°	+2°	0 dB	0°	114°	+2°	166°	-14°	2.0dB	306°K	358044 +290 Hz
2029-11-04	Sunday	22:00	119°	+7°	0 dB	0°	119°	+7°	173°	-14°	2.0dB	306°K	358001 +276 Hz
2029-11-04	Sunday	22:30	125°	+11°	0 dB	0°	125°	+11°	181°	-14°	2.0dB	305°K	357959 +257 Hz
2029-11-04	Sunday	23:00	131°	+15°	0 dB	0°	131°	+15°	188°	-14°	2.0dB	305°K	357917 +235 Hz
2029-11-04	Sunday	23:30	137°	+18°	0 dB	0°	137°	+18°	195°	-14°	2.0dB	305°K	357877 +209 Hz
2029-11-05	Monday	00:00	144°	+21°	0 dB	0°	144°	+21°	202°	-14°	2.0dB	304°K	357837 +179 Hz
2029-11-05	Monday	00:30	151°	+24°	0 dB	0°	151°	+24°	209°	-14°	2.0dB	305°K	357798 +147 Hz
2029-11-05	Monday	01:00	159°	+26°	0 dB	0°	159°	+26°	217°	-14°	2.0dB	305°K	357760 +113 Hz
2029-11-05	Monday	01:30	166°	+27°	0 dB	0°	166°	+27°	224°	-14°	2.0dB	306°K	357722 +77 Hz
2029-11-05	Monday	02:00	174°	+28°	0 dB	0°	174°	+28°	231°	-15°	2.0dB	307°K	357686 +40 Hz
2029-11-05	Monday	02:30	182°	+28°	0 dB	0°	182°	+28°	238°	-15°	2.0dB	308°K	357650 +2 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-05	Monday	03:00	190°	+28°	0 dB	0°	190°	+28°	245°	-15°	2.0dB	309°K	357615	-35 Hz
2029-11-05	Monday	03:30	198°	+26°	0 dB	0°	198°	+26°	253°	-15°	2.0dB	310°K	357581	-71 Hz
2029-11-05	Monday	04:00	205°	+24°	0 dB	0°	205°	+24°	260°	-15°	2.1dB	311°K	357548	-106 Hz
2029-11-05	Monday	04:30	213°	+22°	0 dB	0°	213°	+22°	267°	-15°	2.1dB	312°K	357516	-139 Hz
2029-11-05	Monday	05:00	219°	+19°	0 dB	0°	219°	+19°	274°	-15°	2.1dB	313°K	357484	-169 Hz
2029-11-05	Monday	05:30	226°	+15°	0 dB	0°	226°	+15°	281°	-15°	2.1dB	314°K	357453	-195 Hz
2029-11-05	Monday	06:00	232°	+11°	0 dB	0°	232°	+11°	289°	-15°	2.1dB	314°K	357423	-219 Hz
2029-11-05	Monday	06:30	237°	+7°	0 dB	0°	237°	+7°	296°	-16°	2.1dB	315°K	357394	-238 Hz
2029-11-05	Monday	07:00	243°	+3°	0 dB	0°	243°	+3°	303°	-16°	2.1dB	316°K	357366	-253 Hz
2029-11-05	Monday	23:00	122°	+3°	0 dB	0°	122°	+3°	174°	-19°	2.5dB	SUN!	356915	+246 Hz
2029-11-05	Monday	23:30	128°	+7°	0 dB	0°	128°	+7°	181°	-19°	2.6dB	SUN!	356915	+228 Hz
2029-11-06	Tuesday	00:00	134°	+11°	0 dB	0°	134°	+11°	188°	-19°	2.6dB	SUN!	356916	+206 Hz
2029-11-06	Tuesday	00:30	140°	+14°	0 dB	0°	140°	+14°	195°	-19°	2.6dB	SUN!	356918	+181 Hz
2029-11-06	Tuesday	01:00	146°	+17°	0 dB	0°	146°	+17°	202°	-19°	2.6dB	SUN!	356920	+152 Hz
2029-11-06	Tuesday	01:30	153°	+20°	0 dB	0°	153°	+20°	209°	-19°	2.6dB	SUN!	356924	+121 Hz
2029-11-06	Tuesday	02:00	160°	+22°	0 dB	0°	160°	+22°	217°	-19°	2.6dB	SUN!	356928	+88 Hz
2029-11-06	Tuesday	02:30	167°	+23°	0 dB	0°	167°	+23°	224°	-19°	2.6dB	SUN!	356934	+53 Hz
2029-11-06	Tuesday	03:00	175°	+24°	0 dB	0°	175°	+24°	231°	-19°	2.7dB	SUN!	356940	+17 Hz
2029-11-06	Tuesday	03:30	182°	+24°	0 dB	0°	182°	+24°	238°	-19°	2.7dB	SUN!	356947	-19 Hz
2029-11-06	Tuesday	04:00	190°	+23°	0 dB	0°	190°	+23°	245°	-19°	2.7dB	SUN!	356955	-55 Hz
2029-11-06	Tuesday	04:30	197°	+22°	0 dB	0°	197°	+22°	253°	-19°	2.7dB	SUN!	356964	-91 Hz
2029-11-06	Tuesday	05:00	204°	+20°	0 dB	0°	204°	+20°	260°	-19°	2.7dB	SUN!	356974	-124 Hz
2029-11-06	Tuesday	05:30	211°	+18°	0 dB	0°	211°	+18°	267°	-20°	2.7dB	SUN!	356984	-156 Hz
2029-11-06	Tuesday	06:00	217°	+15°	0 dB	0°	217°	+15°	274°	-20°	2.7dB	SUN!	356996	-185 Hz
2029-11-06	Tuesday	06:30	223°	+11°	0 dB	0°	223°	+11°	281°	-20°	2.8dB	SUN!	357008	-211 Hz
2029-11-06	Tuesday	07:00	229°	+8°	0 dB	0°	229°	+8°	289°	-20°	2.8dB	SUN!	357021	-234 Hz
2029-11-06	Tuesday	07:30	235°	+4°	0 dB	0°	235°	+4°	296°	-20°	2.8dB	SUN!	357035	-253 Hz
2029-11-06	Tuesday	08:00	240°	-0°	0 dB	0°	240°	-0°	303°	-20°	2.8dB	SUN!	357050	-267 Hz
2029-11-07	wednesday	00:00	124°	+0°	0 dB	0°	124°	+0°	173°	-22°	3.2dB	425°K	357980	+220 Hz
2029-11-07	wednesday	00:30	130°	+4°	0 dB	0°	130°	+4°	180°	-22°	3.3dB	428°K	358023	+202 Hz
2029-11-07	wednesday	01:00	135°	+8°	0 dB	0°	135°	+8°	187°	-22°	3.3dB	431°K	358067	+181 Hz
2029-11-07	wednesday	01:30	141°	+11°	0 dB	0°	141°	+11°	195°	-22°	3.3dB	434°K	358112	+157 Hz
2029-11-07	wednesday	02:00	147°	+14°	0 dB	0°	147°	+14°	202°	-22°	3.3dB	436°K	358157	+130 Hz
2029-11-07	wednesday	02:30	154°	+16°	0 dB	0°	154°	+16°	209°	-22°	3.4dB	439°K	358203	+99 Hz
2029-11-07	wednesday	03:00	160°	+18°	0 dB	0°	160°	+18°	216°	-22°	3.4dB	442°K	358250	+67 Hz
2029-11-07	wednesday	03:30	167°	+20°	0 dB	0°	167°	+20°	223°	-22°	3.4dB	445°K	358298	+33 Hz
2029-11-07	wednesday	04:00	174°	+20°	0 dB	0°	174°	+20°	230°	-22°	3.5dB	447°K	358347	-1 Hz
2029-11-07	wednesday	04:30	182°	+21°	0 dB	0°	182°	+21°	238°	-22°	3.5dB	450°K	358396	-37 Hz
2029-11-07	wednesday	05:00	189°	+20°	0 dB	0°	189°	+20°	245°	-22°	3.5dB	453°K	358447	-72 Hz
2029-11-07	wednesday	05:30	196°	+19°	0 dB	0°	196°	+19°	252°	-22°	3.5dB	456°K	358498	-106 Hz
2029-11-07	wednesday	06:00	202°	+17°	0 dB	0°	202°	+17°	259°	-22°	3.6dB	458°K	358549	-139 Hz
2029-11-07	wednesday	06:30	209°	+15°	0 dB	0°	209°	+15°	266°	-22°	3.6dB	461°K	358602	-170 Hz
2029-11-07	wednesday	07:00	215°	+12°	0 dB	0°	215°	+12°	274°	-22°	3.6dB	464°K	358656	-199 Hz
2029-11-07	wednesday	07:30	221°	+9°	0 dB	0°	221°	+9°	281°	-23°	3.6dB	467°K	358710	-225 Hz
2029-11-07	wednesday	08:00	227°	+6°	0 dB	0°	227°	+6°	288°	-23°	3.7dB	469°K	358765	-247 Hz
2029-11-07	wednesday	08:30	232°	+2°	0 dB	0°	232°	+2°	295°	-23°	3.7dB	472°K	358821	-266 Hz
2029-11-08	Thursday	01:30	130°	+2°	0 dB	0°	130°	+2°	179°	-24°	5.5dB	723°K	361167	+183 Hz
2029-11-08	Thursday	02:00	135°	+6°	0 dB	0°	135°	+6°	186°	-24°	5.5dB	735°K	361249	+163 Hz
2029-11-08	Thursday	02:30	141°	+9°	0 dB	0°	141°	+9°	194°	-24°	5.6dB	747°K	361331	+140 Hz
2029-11-08	Thursday	03:00	147°	+12°	0 dB	0°	147°	+12°	201°	-24°	5.7dB	759°K	361414	+113 Hz
2029-11-08	Thursday	03:30	153°	+15°	0 dB	0°	153°	+15°	208°	-24°	5.7dB	770°K	361497	+84 Hz
2029-11-08	Thursday	04:00	160°	+17°	0 dB	0°	160°	+17°	215°	-24°	5.8dB	782°K	361581	+53 Hz
2029-11-08	Thursday	04:30	167°	+18°	0 dB	0°	167°	+18°	222°	-24°	5.9dB	794°K	361666	+19 Hz
2029-11-08	Thursday	05:00	174°	+19°	0 dB	0°	174°	+19°	230°	-24°	5.9dB	806°K	361752	-15 Hz
2029-11-08	Thursday	05:30	181°	+19°	0 dB	0°	181°	+19°	237°	-24°	6.0dB	817°K	361838	-50 Hz
2029-11-08	Thursday	06:00	188°	+19°	0 dB	0°	188°	+19°	244°	-24°	6.1dB	829°K	361924	-84 Hz
2029-11-08	Thursday	06:30	195°	+18°	0 dB	0°	195°	+18°	251°	-24°	6.1dB	841°K	362012	-118 Hz
2029-11-08	Thursday	07:00	201°	+16°	0 dB	0°	201°	+16°	258°	-24°	6.2dB	853°K	362100	-151 Hz
2029-11-08	Thursday	07:30	208°	+14°	0 dB	0°	208°	+14°	265°	-24°	6.2dB	864°K	362189	-182 Hz
2029-11-08	Thursday	08:00	214°	+12°	0 dB	0°	214°	+12°	273°	-24°	6.4dB	888°K	362278	-211 Hz
2029-11-08	Thursday	08:30	220°	+9°	0 dB	0°	220°	+9°	280°	-24°	6.5dB	921°K	362368	-237 Hz
2029-11-08	Thursday	09:00	226°	+5°	0 dB	0°	226°	+5°	287°	-24°	6.7dB	955°K	362458	-260 Hz
2029-11-08	Thursday	09:30	231°	+2°	0 dB	0°	231°	+2°	294°	-24°	6.8dB	988°K	362549	-279 Hz
2029-11-09	Friday	02:30	129°	+2°	0 dB	0°	129°	+2°	179°	-23°	11.2dB	2743°K	365983	+172 Hz
2029-11-09	Friday	03:00	135°	+6°	0 dB	0°	135°	+6°	186°	-23°	11.4dB	2817°K	366093	+153 Hz
2029-11-09	Friday	03:30	140°	+9°	0 dB	0°	140°	+9°	193°	-23°	11.5dB	2891°K	366204	+130 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-09	Friday	04:00	146°	+12°	0 dB	0°	146°	+12°	200°	-23°	11.6dB	2965°K	366314 +103 Hz
2029-11-09	Friday	04:30	153°	+15°	0 dB	0°	153°	+15°	207°	-23°	11.7dB	3039°K	366426 +74 Hz
2029-11-09	Friday	05:00	159°	+17°	0 dB	0°	159°	+17°	215°	-23°	11.8dB	3113°K	366537 +43 Hz
2029-11-09	Friday	05:30	166°	+19°	0 dB	0°	166°	+19°	222°	-23°	11.9dB	3187°K	366649 +10 Hz
2029-11-09	Friday	06:00	173°	+19°	0 dB	0°	173°	+19°	229°	-23°	12.0dB	3261°K	366762 -24 Hz
2029-11-09	Friday	06:30	180°	+20°	0 dB	0°	180°	+20°	236°	-23°	12.1dB	3285°K	366875 -59 Hz
2029-11-09	Friday	07:00	187°	+20°	0 dB	0°	187°	+20°	243°	-23°	12.0dB	3232°K	366988 -94 Hz
2029-11-09	Friday	07:30	194°	+19°	0 dB	0°	194°	+19°	250°	-23°	11.9dB	3179°K	367102 -128 Hz
2029-11-09	Friday	08:00	201°	+17°	0 dB	0°	201°	+17°	258°	-23°	11.9dB	3127°K	367216 -162 Hz
2029-11-09	Friday	08:30	208°	+15°	0 dB	0°	208°	+15°	265°	-23°	11.8dB	3074°K	367331 -193 Hz
2029-11-09	Friday	09:00	214°	+13°	0 dB	0°	214°	+13°	272°	-23°	11.7dB	3021°K	367446 -222 Hz
2029-11-09	Friday	09:30	220°	+10°	0 dB	0°	220°	+10°	279°	-23°	11.7dB	2969°K	367561 -249 Hz
2029-11-09	Friday	10:00	226°	+6°	0 dB	0°	226°	+6°	286°	-23°	11.6dB	2916°K	367677 -272 Hz
2029-11-09	Friday	10:30	231°	+3°	0 dB	0°	231°	+3°	294°	-23°	11.5dB	2864°K	367793 -292 Hz
2029-11-10	Saturday	03:00	123°	-0°	0 dB	0°	123°	-0°	171°	-21°	7.9dB	1171°K	371812 +185 Hz
2029-11-10	Saturday	03:30	128°	+4°	0 dB	0°	128°	+4°	179°	-21°	7.8dB	1121°K	371938 +169 Hz
2029-11-10	Saturday	04:00	134°	+8°	0 dB	0°	134°	+8°	186°	-21°	7.6dB	1071°K	372065 +149 Hz
2029-11-10	Saturday	04:30	139°	+11°	0 dB	0°	139°	+11°	193°	-21°	7.4dB	1021°K	372191 +126 Hz
2029-11-10	Saturday	05:00	146°	+14°	0 dB	0°	146°	+14°	200°	-21°	7.2dB	971°K	372318 +99 Hz
2029-11-10	Saturday	05:30	152°	+17°	0 dB	0°	152°	+17°	207°	-21°	7.0dB	921°K	372445 +69 Hz
2029-11-10	Saturday	06:00	159°	+19°	0 dB	0°	159°	+19°	215°	-21°	6.8dB	871°K	372573 +37 Hz
2029-11-10	Saturday	06:30	166°	+21°	0 dB	0°	166°	+21°	222°	-21°	6.7dB	856°K	372700 +4 Hz
2029-11-10	Saturday	07:00	173°	+22°	0 dB	0°	173°	+22°	229°	-21°	6.6dB	842°K	372828 -31 Hz
2029-11-10	Saturday	07:30	180°	+22°	0 dB	0°	180°	+22°	236°	-21°	6.6dB	827°K	372956 -67 Hz
2029-11-10	Saturday	08:00	188°	+22°	0 dB	0°	188°	+22°	244°	-21°	6.5dB	813°K	373084 -102 Hz
2029-11-10	Saturday	08:30	195°	+21°	0 dB	0°	195°	+21°	251°	-21°	6.4dB	799°K	373212 -137 Hz
2029-11-10	Saturday	09:00	202°	+19°	0 dB	0°	202°	+19°	258°	-21°	6.4dB	785°K	373341 -171 Hz
2029-11-10	Saturday	09:30	209°	+17°	0 dB	0°	209°	+17°	265°	-21°	6.3dB	771°K	373470 -203 Hz
2029-11-10	Saturday	10:00	215°	+15°	0 dB	0°	215°	+15°	272°	-21°	6.2dB	757°K	373598 -233 Hz
2029-11-10	Saturday	10:30	221°	+11°	0 dB	0°	221°	+11°	280°	-21°	6.2dB	743°K	373727 -260 Hz
2029-11-10	Saturday	11:00	227°	+8°	0 dB	0°	227°	+8°	287°	-21°	6.1dB	729°K	373856 -283 Hz
2029-11-10	Saturday	11:30	233°	+4°	0 dB	0°	233°	+4°	294°	-20°	6.0dB	715°K	373985 -303 Hz
2029-11-10	Saturday	12:00	238°	+0°	0 dB	0°	238°	+0°	301°	-20°	6.0dB	701°K	374115 -319 Hz
2029-11-11	Sunday	04:00	122°	+3°	0 dB	0°	122°	+3°	173°	-18°	4.1dB	409°K	378298 +187 Hz
2029-11-11	Sunday	04:30	127°	+7°	0 dB	0°	127°	+7°	180°	-18°	4.0dB	403°K	378429 +170 Hz
2029-11-11	Sunday	05:00	133°	+11°	0 dB	0°	133°	+11°	187°	-18°	4.0dB	398°K	378560 +149 Hz
2029-11-11	Sunday	05:30	139°	+15°	0 dB	0°	139°	+15°	194°	-18°	3.9dB	392°K	378691 +125 Hz
2029-11-11	Sunday	06:00	145°	+18°	0 dB	0°	145°	+18°	202°	-18°	3.9dB	386°K	378823 +97 Hz
2029-11-11	Sunday	06:30	152°	+20°	0 dB	0°	152°	+20°	209°	-18°	3.8dB	380°K	378954 +66 Hz
2029-11-11	Sunday	07:00	159°	+23°	0 dB	0°	159°	+23°	216°	-18°	3.8dB	375°K	379085 +33 Hz
2029-11-11	Sunday	07:30	166°	+24°	0 dB	0°	166°	+24°	223°	-18°	3.7dB	369°K	379216 -1 Hz
2029-11-11	Sunday	08:00	174°	+25°	0 dB	0°	174°	+25°	230°	-18°	3.7dB	367°K	379347 -37 Hz
2029-11-11	Sunday	08:30	182°	+25°	0 dB	0°	182°	+25°	238°	-18°	3.7dB	366°K	379478 -74 Hz
2029-11-11	Sunday	09:00	189°	+25°	0 dB	0°	189°	+25°	245°	-17°	3.7dB	364°K	379609 -110 Hz
2029-11-11	Sunday	09:30	197°	+24°	0 dB	0°	197°	+24°	252°	-17°	3.7dB	363°K	379740 -146 Hz
2029-11-11	Sunday	10:00	204°	+22°	0 dB	0°	204°	+22°	259°	-17°	3.7dB	361°K	379871 -181 Hz
2029-11-11	Sunday	10:30	211°	+20°	0 dB	0°	211°	+20°	267°	-17°	3.6dB	359°K	380001 -213 Hz
2029-11-11	Sunday	11:00	218°	+17°	0 dB	0°	218°	+17°	274°	-17°	3.6dB	358°K	380132 -243 Hz
2029-11-11	Sunday	11:30	224°	+14°	0 dB	0°	224°	+14°	281°	-17°	3.6dB	356°K	380263 -270 Hz
2029-11-11	Sunday	12:00	230°	+10°	0 dB	0°	230°	+10°	288°	-17°	3.6dB	354°K	380393 -293 Hz
2029-11-11	Sunday	12:30	236°	+6°	0 dB	0°	236°	+6°	296°	-17°	3.6dB	353°K	380524 -313 Hz
2029-11-11	Sunday	13:00	242°	+2°	0 dB	0°	242°	+2°	303°	-17°	3.6dB	351°K	380654 -329 Hz
2029-11-12	Monday	04:30	115°	+3°	0 dB	0°	115°	+3°	168°	-14°	3.5dB	326°K	384635 +207 Hz
2029-11-12	Monday	05:00	121°	+8°	0 dB	0°	121°	+8°	175°	-14°	3.5dB	326°K	384760 +193 Hz
2029-11-12	Monday	05:30	126°	+12°	0 dB	0°	126°	+12°	182°	-14°	3.5dB	326°K	384886 +174 Hz
2029-11-12	Monday	06:00	132°	+16°	0 dB	0°	132°	+16°	189°	-14°	3.5dB	326°K	385011 +151 Hz
2029-11-12	Monday	06:30	139°	+19°	0 dB	0°	139°	+19°	197°	-14°	3.5dB	326°K	385137 +125 Hz
2029-11-12	Monday	07:00	146°	+23°	0 dB	0°	146°	+23°	204°	-14°	3.5dB	326°K	385262 +95 Hz
2029-11-12	Monday	07:30	153°	+25°	0 dB	0°	153°	+25°	211°	-14°	3.5dB	326°K	385386 +63 Hz
2029-11-12	Monday	08:00	160°	+27°	0 dB	0°	160°	+27°	218°	-14°	3.5dB	326°K	385511 +29 Hz
2029-11-12	Monday	08:30	168°	+29°	0 dB	0°	168°	+29°	226°	-14°	3.5dB	326°K	385635 -8 Hz
2029-11-12	Monday	09:00	176°	+30°	0 dB	0°	176°	+30°	233°	-13°	3.5dB	326°K	385759 -45 Hz
2029-11-12	Monday	09:30	185°	+30°	0 dB	0°	185°	+30°	240°	-13°	3.6dB	326°K	385883 -82 Hz
2029-11-12	Monday	10:00	193°	+29°	0 dB	0°	193°	+29°	247°	-13°	3.6dB	326°K	386007 -120 Hz
2029-11-12	Monday	10:30	201°	+28°	0 dB	0°	201°	+28°	255°	-13°	3.6dB	326°K	386130 -156 Hz
2029-11-12	Monday	11:00	208°	+26°	0 dB	0°	208°	+26°	262°	-13°	3.6dB	326°K	386253 -191 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-12	Monday	11:30	216°	+23°	0 dB	0°	216°	+23°	269°	-13°	3.6dB	326°K	386376	-223 Hz
2029-11-12	Monday	12:00	222°	+20°	0 dB	0°	222°	+20°	276°	-13°	3.6dB	326°K	386499	-253 Hz
2029-11-12	Monday	12:30	229°	+16°	0 dB	0°	229°	+16°	284°	-13°	3.6dB	326°K	386621	-279 Hz
2029-11-12	Monday	13:00	235°	+12°	0 dB	0°	235°	+12°	291°	-13°	3.6dB	326°K	386743	-302 Hz
2029-11-12	Monday	13:30	241°	+8°	0 dB	0°	241°	+8°	298°	-13°	3.6dB	326°K	386865	-320 Hz
2029-11-12	Monday	14:00	247°	+4°	0 dB	0°	247°	+4°	305°	-13°	3.6dB	326°K	386987	-335 Hz
2029-11-13	Tuesday	05:00	109°	+4°	0 dB	0°	109°	+4°	163°	-10°	3.7dB	319°K	390507	+227 Hz
2029-11-13	Tuesday	05:30	115°	+9°	0 dB	0°	115°	+9°	171°	-10°	3.7dB	318°K	390619	+215 Hz
2029-11-13	Tuesday	06:00	120°	+13°	0 dB	0°	120°	+13°	178°	-9°	3.7dB	317°K	390732	+198 Hz
2029-11-13	Tuesday	06:30	126°	+17°	0 dB	0°	126°	+17°	185°	-9°	3.7dB	316°K	390843	+177 Hz
2029-11-13	Tuesday	07:00	133°	+21°	0 dB	0°	133°	+21°	193°	-9°	3.7dB	315°K	390955	+152 Hz
2029-11-13	Tuesday	07:30	140°	+25°	0 dB	0°	140°	+25°	200°	-9°	3.6dB	314°K	391066	+124 Hz
2029-11-13	Tuesday	08:00	147°	+28°	0 dB	0°	147°	+28°	207°	-9°	3.6dB	313°K	391177	+92 Hz
2029-11-13	Tuesday	08:30	155°	+31°	0 dB	0°	155°	+31°	214°	-9°	3.6dB	312°K	391288	+58 Hz
2029-11-13	Tuesday	09:00	163°	+33°	0 dB	0°	163°	+33°	222°	-9°	3.6dB	311°K	391398	+22 Hz
2029-11-13	Tuesday	09:30	171°	+34°	0 dB	0°	171°	+34°	229°	-9°	3.6dB	310°K	391508	-16 Hz
2029-11-13	Tuesday	10:00	180°	+34°	0 dB	0°	180°	+34°	236°	-9°	3.6dB	309°K	391617	-54 Hz
2029-11-13	Tuesday	10:30	189°	+34°	0 dB	0°	189°	+34°	243°	-9°	3.6dB	308°K	391726	-93 Hz
2029-11-13	Tuesday	11:00	198°	+33°	0 dB	0°	198°	+33°	251°	-8°	3.6dB	307°K	391835	-130 Hz
2029-11-13	Tuesday	11:30	206°	+31°	0 dB	0°	206°	+31°	258°	-8°	3.6dB	306°K	391944	-167 Hz
2029-11-13	Tuesday	12:00	214°	+29°	0 dB	0°	214°	+29°	265°	-8°	3.6dB	305°K	392052	-201 Hz
2029-11-13	Tuesday	12:30	221°	+26°	0 dB	0°	221°	+26°	273°	-8°	3.6dB	304°K	392159	-233 Hz
2029-11-13	Tuesday	13:00	228°	+22°	0 dB	0°	228°	+22°	280°	-8°	3.6dB	303°K	392267	-262 Hz
2029-11-13	Tuesday	13:30	235°	+18°	0 dB	0°	235°	+18°	287°	-8°	3.6dB	302°K	392374	-287 Hz
2029-11-13	Tuesday	14:00	241°	+14°	0 dB	0°	241°	+14°	294°	-8°	3.6dB	301°K	392481	-308 Hz
2029-11-13	Tuesday	14:30	247°	+10°	0 dB	0°	247°	+10°	302°	-8°	3.6dB	300°K	392587	-325 Hz
2029-11-13	Tuesday	15:00	252°	+5°	0 dB	0°	252°	+5°	309°	-8°	3.5dB	299°K	392693	-337 Hz
2029-11-13	Tuesday	15:30	258°	+0°	0 dB	0°	258°	+0°	316°	-8°	3.5dB	298°K	392798	-345 Hz
2029-11-14	wednesday	05:00	098°	+0°	0 dB	0°	098°	+0°	153°	-5°	3.1dB	255°K	395504	+250 Hz
2029-11-14	wednesday	05:30	103°	+5°	0 dB	0°	103°	+5°	160°	-5°	3.1dB	253°K	395599	+245 Hz
2029-11-14	wednesday	06:00	109°	+10°	0 dB	0°	109°	+10°	167°	-5°	3.1dB	252°K	395693	+235 Hz
2029-11-14	wednesday	06:30	115°	+15°	0 dB	0°	115°	+15°	175°	-5°	3.0dB	250°K	395787	+220 Hz
2029-11-14	wednesday	07:00	120°	+20°	0 dB	0°	120°	+20°	182°	-4°	3.0dB	248°K	395881	+201 Hz
2029-11-14	wednesday	07:30	127°	+24°	0 dB	0°	127°	+24°	189°	-4°	3.0dB	247°K	395974	+177 Hz
2029-11-14	wednesday	08:00	134°	+28°	0 dB	0°	134°	+28°	197°	-4°	3.0dB	245°K	396066	+150 Hz
2029-11-14	wednesday	08:30	141°	+31°	0 dB	0°	141°	+31°	204°	-4°	3.0dB	243°K	396159	+119 Hz
2029-11-14	wednesday	09:00	149°	+34°	0 dB	0°	149°	+34°	211°	-4°	3.0dB	243°K	396251	+86 Hz
2029-11-14	wednesday	09:30	158°	+37°	0 dB	0°	158°	+37°	218°	-4°	3.0dB	243°K	396342	+50 Hz
2029-11-14	wednesday	10:00	167°	+38°	0 dB	0°	167°	+38°	226°	-4°	3.0dB	243°K	396433	+12 Hz
2029-11-14	wednesday	10:30	176°	+39°	0 dB	0°	176°	+39°	233°	-4°	3.0dB	243°K	396524	-27 Hz
2029-11-14	wednesday	11:00	185°	+39°	0 dB	0°	185°	+39°	240°	-4°	3.0dB	243°K	396614	-66 Hz
2029-11-14	wednesday	11:30	195°	+39°	0 dB	0°	195°	+39°	247°	-4°	3.0dB	243°K	396704	-104 Hz
2029-11-14	wednesday	12:00	204°	+37°	0 dB	0°	204°	+37°	255°	-3°	3.0dB	243°K	396793	-142 Hz
2029-11-14	wednesday	12:30	212°	+35°	0 dB	0°	212°	+35°	262°	-3°	3.0dB	243°K	396882	-178 Hz
2029-11-14	wednesday	13:00	221°	+32°	0 dB	0°	221°	+32°	269°	-3°	3.0dB	243°K	396970	-211 Hz
2029-11-14	wednesday	13:30	228°	+28°	0 dB	0°	228°	+28°	277°	-3°	3.0dB	243°K	397058	-242 Hz
2029-11-14	wednesday	14:00	235°	+24°	0 dB	0°	235°	+24°	284°	-3°	3.0dB	243°K	397146	-269 Hz
2029-11-14	wednesday	14:30	241°	+20°	0 dB	0°	241°	+20°	291°	-3°	3.0dB	243°K	397233	-292 Hz
2029-11-14	wednesday	15:00	247°	+16°	0 dB	0°	247°	+16°	298°	-3°	3.0dB	243°K	397320	-311 Hz
2029-11-14	wednesday	15:30	253°	+11°	0 dB	0°	253°	+11°	306°	-3°	3.0dB	243°K	397407	-325 Hz
2029-11-14	wednesday	16:00	259°	+6°	0 dB	0°	259°	+6°	313°	-3°	3.0dB	243°K	397493	-335 Hz
2029-11-14	wednesday	16:30	264°	+1°	0 dB	0°	264°	+1°	320°	-3°	3.0dB	243°K	397578	-340 Hz
2029-11-15	Thursday	05:30	093°	+2°	0 dB	0°	093°	+2°	150°	+0°	3.1dB	242°K	399652	+265 Hz
2029-11-15	Thursday	06:00	098°	+7°	0 dB	0°	098°	+7°	157°	+0°	3.1dB	242°K	399726	+261 Hz
2029-11-15	Thursday	06:30	103°	+12°	0 dB	0°	103°	+12°	164°	+0°	3.1dB	242°K	399800	+253 Hz
2029-11-15	Thursday	07:00	109°	+17°	0 dB	0°	109°	+17°	172°	+0°	3.1dB	241°K	399873	+240 Hz
2029-11-15	Thursday	07:30	115°	+22°	0 dB	0°	115°	+22°	179°	+1°	3.1dB	241°K	399945	+222 Hz
2029-11-15	Thursday	08:00	121°	+26°	0 dB	0°	121°	+26°	186°	+1°	3.1dB	241°K	400018	+200 Hz
2029-11-15	Thursday	08:30	128°	+31°	0 dB	0°	128°	+31°	194°	+1°	3.1dB	241°K	400089	+174 Hz
2029-11-15	Thursday	09:00	135°	+34°	0 dB	0°	135°	+34°	201°	+1°	3.1dB	241°K	400161	+144 Hz
2029-11-15	Thursday	09:30	143°	+38°	0 dB	0°	143°	+38°	208°	+1°	3.1dB	241°K	400231	+111 Hz
2029-11-15	Thursday	10:00	152°	+41°	0 dB	0°	152°	+41°	215°	+1°	3.1dB	241°K	400302	+76 Hz
2029-11-15	Thursday	10:30	162°	+43°	0 dB	0°	162°	+43°	223°	+1°	3.1dB	240°K	400372	+38 Hz
2029-11-15	Thursday	11:00	172°	+44°	0 dB	0°	172°	+44°	230°	+1°	3.1dB	240°K	400441	0 Hz
2029-11-15	Thursday	11:30	182°	+44°	0 dB	0°	182°	+44°	237°	+1°	3.1dB	240°K	400511	-39 Hz
2029-11-15	Thursday	12:00	192°	+44°	0 dB	0°	192°	+44°	245°	+1°	3.1dB	240°K	400579	-78 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-15	Thursday 12:30	202°	+43°	0 dB	0°	202°	+43°	252°	+2°	3.1dB	240°K	400648	-117 Hz
2029-11-15	Thursday 13:00	211°	+40°	0 dB	0°	211°	+40°	259°	+2°	3.1dB	240°K	400715	-153 Hz
2029-11-15	Thursday 13:30	220°	+38°	0 dB	0°	220°	+38°	266°	+2°	3.1dB	240°K	400783	-188 Hz
2029-11-15	Thursday 14:00	228°	+34°	0 dB	0°	228°	+34°	274°	+2°	3.1dB	240°K	400850	-220 Hz
2029-11-15	Thursday 14:30	235°	+30°	0 dB	0°	235°	+30°	281°	+2°	3.1dB	239°K	400916	-248 Hz
2029-11-15	Thursday 15:00	242°	+26°	0 dB	0°	242°	+26°	288°	+2°	3.1dB	239°K	400982	-273 Hz
2029-11-15	Thursday 15:30	249°	+21°	0 dB	0°	249°	+21°	296°	+2°	3.1dB	239°K	401048	-294 Hz
2029-11-15	Thursday 16:00	254°	+17°	0 dB	0°	254°	+17°	303°	+2°	3.1dB	239°K	401113	-310 Hz
2029-11-15	Thursday 16:30	260°	+12°	0 dB	0°	260°	+12°	310°	+2°	3.1dB	239°K	401178	-321 Hz
2029-11-15	Thursday 17:00	266°	+7°	0 dB	0°	266°	+7°	317°	+2°	3.1dB	239°K	401242	-328 Hz
2029-11-15	Thursday 17:30	271°	+2°	0 dB	0°	271°	+2°	325°	+3°	3.1dB	239°K	401306	-330 Hz
2029-11-16	Friday 06:00	087°	+3°	0 dB	0°	087°	+3°	147°	+5°	3.2dB	239°K	402762	+276 Hz
2029-11-16	Friday 06:30	092°	+9°	0 dB	0°	092°	+9°	154°	+5°	3.2dB	239°K	402814	+274 Hz
2029-11-16	Friday 07:00	098°	+14°	0 dB	0°	098°	+14°	162°	+5°	3.2dB	239°K	402867	+267 Hz
2029-11-16	Friday 07:30	103°	+19°	0 dB	0°	103°	+19°	169°	+5°	3.2dB	239°K	402918	+256 Hz
2029-11-16	Friday 08:00	109°	+24°	0 dB	0°	109°	+24°	176°	+5°	3.2dB	239°K	402970	+240 Hz
2029-11-16	Friday 08:30	115°	+28°	0 dB	0°	115°	+28°	184°	+6°	3.2dB	239°K	403021	+219 Hz
2029-11-16	Friday 09:00	122°	+33°	0 dB	0°	122°	+33°	191°	+6°	3.2dB	239°K	403071	+195 Hz
2029-11-16	Friday 09:30	129°	+37°	0 dB	0°	129°	+37°	198°	+6°	3.3dB	243°K	403121	+166 Hz
2029-11-16	Friday 10:00	137°	+41°	0 dB	0°	137°	+41°	205°	+6°	3.3dB	244°K	403171	+135 Hz
2029-11-16	Friday 10:30	146°	+44°	0 dB	0°	146°	+44°	213°	+6°	3.3dB	245°K	403220	+100 Hz
2029-11-16	Friday 11:00	156°	+47°	0 dB	0°	156°	+47°	220°	+6°	3.3dB	245°K	403269	+64 Hz
2029-11-16	Friday 11:30	167°	+49°	0 dB	0°	167°	+49°	227°	+6°	3.3dB	246°K	403317	+25 Hz
2029-11-16	Friday 12:00	178°	+49°	0 dB	0°	178°	+49°	235°	+6°	3.3dB	246°K	403365	-14 Hz
2029-11-16	Friday 12:30	189°	+49°	0 dB	0°	189°	+49°	242°	+6°	3.3dB	247°K	403412	-53 Hz
2029-11-16	Friday 13:00	200°	+48°	0 dB	0°	200°	+48°	249°	+6°	3.3dB	247°K	403459	-91 Hz
2029-11-16	Friday 13:30	210°	+46°	0 dB	0°	210°	+46°	256°	+6°	3.3dB	248°K	403506	-128 Hz
2029-11-16	Friday 14:00	220°	+43°	0 dB	0°	220°	+43°	264°	+7°	3.4dB	248°K	403552	-164 Hz
2029-11-16	Friday 14:30	228°	+40°	0 dB	0°	228°	+40°	271°	+7°	3.4dB	249°K	403598	-196 Hz
2029-11-16	Friday 15:00	236°	+36°	0 dB	0°	236°	+36°	278°	+7°	3.4dB	249°K	403643	-226 Hz
2029-11-16	Friday 15:30	243°	+31°	0 dB	0°	243°	+31°	286°	+7°	3.4dB	250°K	403688	-252 Hz
2029-11-16	Friday 16:00	250°	+27°	0 dB	0°	250°	+27°	293°	+7°	3.4dB	250°K	403733	-274 Hz
2029-11-16	Friday 16:30	256°	+22°	0 dB	0°	256°	+22°	300°	+7°	3.4dB	251°K	403777	-292 Hz
2029-11-16	Friday 17:00	261°	+17°	0 dB	0°	261°	+17°	307°	+7°	3.4dB	251°K	403821	-305 Hz
2029-11-16	Friday 17:30	267°	+12°	0 dB	0°	267°	+12°	315°	+7°	3.4dB	252°K	403864	-314 Hz
2029-11-16	Friday 18:00	272°	+7°	0 dB	0°	272°	+7°	322°	+7°	3.4dB	253°K	403907	-317 Hz
2029-11-16	Friday 18:30	277°	+2°	0 dB	0°	277°	+2°	329°	+7°	3.4dB	253°K	403949	-316 Hz
2029-11-17	Saturday 06:00	077°	-0°	0 dB	0°	077°	-0°	137°	+10°	3.6dB	265°K	404811	+278 Hz
2029-11-17	Saturday 06:30	082°	+5°	0 dB	0°	082°	+5°	144°	+10°	3.7dB	266°K	404843	+283 Hz
2029-11-17	Saturday 07:00	087°	+10°	0 dB	0°	087°	+10°	152°	+10°	3.7dB	267°K	404875	+283 Hz
2029-11-17	Saturday 07:30	092°	+15°	0 dB	0°	092°	+15°	159°	+10°	3.7dB	267°K	404907	+279 Hz
2029-11-17	Saturday 08:00	098°	+20°	0 dB	0°	098°	+20°	166°	+10°	3.7dB	268°K	404938	+269 Hz
2029-11-17	Saturday 08:30	103°	+25°	0 dB	0°	103°	+25°	173°	+10°	3.7dB	268°K	404969	+255 Hz
2029-11-17	Saturday 09:00	109°	+30°	0 dB	0°	109°	+30°	181°	+10°	3.7dB	269°K	405000	+236 Hz
2029-11-17	Saturday 09:30	116°	+35°	0 dB	0°	116°	+35°	188°	+10°	3.7dB	269°K	405030	+213 Hz
2029-11-17	Saturday 10:00	123°	+39°	0 dB	0°	123°	+39°	195°	+10°	3.7dB	270°K	405060	+186 Hz
2029-11-17	Saturday 10:30	131°	+44°	0 dB	0°	131°	+44°	203°	+10°	3.7dB	270°K	405089	+156 Hz
2029-11-17	Saturday 11:00	140°	+47°	0 dB	0°	140°	+47°	210°	+10°	3.7dB	271°K	405118	+123 Hz
2029-11-17	Saturday 11:30	150°	+50°	0 dB	0°	150°	+50°	217°	+11°	3.7dB	271°K	405147	+87 Hz
2029-11-17	Saturday 12:00	161°	+53°	0 dB	0°	161°	+53°	224°	+11°	3.7dB	272°K	405175	+50 Hz
2029-11-17	Saturday 12:30	173°	+54°	0 dB	0°	173°	+54°	232°	+11°	3.8dB	273°K	405203	+12 Hz
2029-11-17	Saturday 13:00	185°	+54°	0 dB	0°	185°	+54°	239°	+11°	3.8dB	273°K	405230	-27 Hz
2029-11-17	Saturday 13:30	197°	+53°	0 dB	0°	197°	+53°	246°	+11°	3.8dB	274°K	405257	-65 Hz
2029-11-17	Saturday 14:00	208°	+51°	0 dB	0°	208°	+51°	254°	+11°	3.8dB	274°K	405284	-103 Hz
2029-11-17	Saturday 14:30	219°	+49°	0 dB	0°	219°	+49°	261°	+11°	3.8dB	275°K	405310	-138 Hz
2029-11-17	Saturday 15:00	228°	+45°	0 dB	0°	228°	+45°	268°	+11°	3.8dB	275°K	405336	-172 Hz
2029-11-17	Saturday 15:30	236°	+41°	0 dB	0°	236°	+41°	275°	+11°	3.8dB	276°K	405362	-202 Hz
2029-11-17	Saturday 16:00	244°	+37°	0 dB	0°	244°	+37°	283°	+11°	3.8dB	276°K	405387	-230 Hz
2029-11-17	Saturday 16:30	251°	+32°	0 dB	0°	251°	+32°	290°	+11°	3.8dB	277°K	405411	-253 Hz
2029-11-17	Saturday 17:00	257°	+27°	0 dB	0°	257°	+27°	297°	+12°	3.8dB	277°K	405436	-272 Hz
2029-11-17	Saturday 17:30	263°	+22°	0 dB	0°	263°	+22°	305°	+12°	3.8dB	278°K	405460	-287 Hz
2029-11-17	Saturday 18:00	268°	+17°	0 dB	0°	268°	+17°	312°	+12°	3.9dB	279°K	405483	-297 Hz
2029-11-17	Saturday 18:30	273°	+12°	0 dB	0°	273°	+12°	319°	+12°	3.9dB	279°K	405506	-303 Hz
2029-11-17	Saturday 19:00	279°	+7°	0 dB	0°	279°	+7°	326°	+12°	3.9dB	280°K	405529	-304 Hz
2029-11-17	Saturday 19:30	284°	+3°	0 dB	0°	284°	+3°	334°	+12°	3.9dB	280°K	405552	-299 Hz
2029-11-18	Sunday 06:30	072°	+1°	0 dB	0°	072°	+1°	134°	+14°	4.0dB	292°K	405950	+281 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-18	Sunday	07:00	077°	+6°	0 dB	0°	077°	+6°	141°	+14°	4.0dB	293°K	405964 +287 Hz
2029-11-18	Sunday	07:30	082°	+11°	0 dB	0°	082°	+11°	148°	+14°	4.0dB	293°K	405977 +289 Hz
2029-11-18	Sunday	08:00	087°	+16°	0 dB	0°	087°	+16°	156°	+14°	4.1dB	294°K	405990 +287 Hz
2029-11-18	Sunday	08:30	092°	+21°	0 dB	0°	092°	+21°	163°	+14°	4.1dB	295°K	406003 +279 Hz
2029-11-18	Sunday	09:00	098°	+26°	0 dB	0°	098°	+26°	170°	+14°	4.1dB	295°K	406016 +267 Hz
2029-11-18	Sunday	09:30	103°	+31°	0 dB	0°	103°	+31°	178°	+14°	4.1dB	295°K	406028 +250 Hz
2029-11-18	Sunday	10:00	109°	+36°	0 dB	0°	109°	+36°	185°	+14°	4.1dB	296°K	406039 +229 Hz
2029-11-18	Sunday	10:30	116°	+41°	0 dB	0°	116°	+41°	192°	+14°	4.1dB	296°K	406051 +204 Hz
2029-11-18	Sunday	11:00	124°	+45°	0 dB	0°	124°	+45°	199°	+15°	4.1dB	296°K	406062 +176 Hz
2029-11-18	Sunday	11:30	132°	+49°	0 dB	0°	132°	+49°	207°	+15°	4.1dB	297°K	406073 +144 Hz
2029-11-18	Sunday	12:00	142°	+53°	0 dB	0°	142°	+53°	214°	+15°	4.1dB	297°K	406083 +110 Hz
2029-11-18	Sunday	12:30	154°	+56°	0 dB	0°	154°	+56°	221°	+15°	4.1dB	297°K	406093 +74 Hz
2029-11-18	Sunday	13:00	166°	+58°	0 dB	0°	166°	+58°	229°	+15°	4.1dB	297°K	406103 +37 Hz
2029-11-18	Sunday	13:30	180°	+58°	0 dB	0°	180°	+58°	236°	+15°	4.1dB	298°K	406112 -1 Hz
2029-11-18	Sunday	14:00	193°	+58°	0 dB	0°	193°	+58°	243°	+15°	4.1dB	298°K	406121 -39 Hz
2029-11-18	Sunday	14:30	206°	+56°	0 dB	0°	206°	+56°	250°	+15°	4.1dB	298°K	406129 -76 Hz
2029-11-18	Sunday	15:00	217°	+54°	0 dB	0°	217°	+54°	258°	+15°	4.1dB	299°K	406138 -112 Hz
2029-11-18	Sunday	15:30	227°	+50°	0 dB	0°	227°	+50°	265°	+15°	4.1dB	299°K	406146 -146 Hz
2029-11-18	Sunday	16:00	236°	+46°	0 dB	0°	236°	+46°	272°	+15°	4.1dB	299°K	406153 -178 Hz
2029-11-18	Sunday	16:30	244°	+42°	0 dB	0°	244°	+42°	279°	+15°	4.1dB	299°K	406160 -206 Hz
2029-11-18	Sunday	17:00	251°	+37°	0 dB	0°	251°	+37°	287°	+15°	4.1dB	300°K	406167 -231 Hz
2029-11-18	Sunday	17:30	257°	+32°	0 dB	0°	257°	+32°	294°	+16°	4.1dB	300°K	406174 -251 Hz
2029-11-18	Sunday	18:00	263°	+27°	0 dB	0°	263°	+27°	301°	+16°	4.1dB	300°K	406180 -268 Hz
2029-11-18	Sunday	18:30	269°	+22°	0 dB	0°	269°	+22°	309°	+16°	4.2dB	301°K	406186 -280 Hz
2029-11-18	Sunday	19:00	274°	+17°	0 dB	0°	274°	+17°	316°	+16°	4.2dB	301°K	406191 -287 Hz
2029-11-18	Sunday	19:30	279°	+12°	0 dB	0°	279°	+12°	323°	+16°	4.2dB	301°K	406197 -290 Hz
2029-11-18	Sunday	20:00	284°	+8°	0 dB	0°	284°	+8°	330°	+16°	4.2dB	301°K	406201 -288 Hz
2029-11-18	Sunday	20:30	289°	+3°	0 dB	0°	289°	+3°	338°	+16°	4.2dB	302°K	406206 -282 Hz
2029-11-19	Monday	07:00	067°	+1°	0 dB	0°	067°	+1°	130°	+18°	4.4dB	322°K	406225 +280 Hz
2029-11-19	Monday	07:30	072°	+6°	0 dB	0°	072°	+6°	138°	+18°	4.4dB	324°K	406222 +288 Hz
2029-11-19	Monday	08:00	077°	+11°	0 dB	0°	077°	+11°	145°	+18°	4.4dB	325°K	406219 +292 Hz
2029-11-19	Monday	08:30	082°	+16°	0 dB	0°	082°	+16°	152°	+18°	4.5dB	327°K	406216 +292 Hz
2029-11-19	Monday	09:00	087°	+21°	0 dB	0°	087°	+21°	160°	+18°	4.5dB	328°K	406212 +286 Hz
2029-11-19	Monday	09:30	092°	+26°	0 dB	0°	092°	+26°	167°	+18°	4.5dB	330°K	406209 +277 Hz
2029-11-19	Monday	10:00	097°	+31°	0 dB	0°	097°	+31°	174°	+18°	4.5dB	331°K	406204 +262 Hz
2029-11-19	Monday	10:30	103°	+36°	0 dB	0°	103°	+36°	181°	+18°	4.5dB	332°K	406200 +244 Hz
2029-11-19	Monday	11:00	110°	+41°	0 dB	0°	110°	+41°	189°	+18°	4.5dB	334°K	406195 +221 Hz
2029-11-19	Monday	11:30	117°	+46°	0 dB	0°	117°	+46°	196°	+18°	4.5dB	335°K	406190 +195 Hz
2029-11-19	Monday	12:00	125°	+50°	0 dB	0°	125°	+50°	203°	+18°	4.6dB	337°K	406185 +165 Hz
2029-11-19	Monday	12:30	134°	+54°	0 dB	0°	134°	+54°	210°	+18°	4.6dB	338°K	406179 +133 Hz
2029-11-19	Monday	13:00	145°	+58°	0 dB	0°	145°	+58°	218°	+18°	4.6dB	340°K	406173 +98 Hz
2029-11-19	Monday	13:30	158°	+60°	0 dB	0°	158°	+60°	225°	+18°	4.6dB	341°K	406166 +62 Hz
2029-11-19	Monday	14:00	172°	+62°	0 dB	0°	172°	+62°	232°	+18°	4.6dB	343°K	406160 +25 Hz
2029-11-19	Monday	14:30	187°	+62°	0 dB	0°	187°	+62°	240°	+18°	4.6dB	344°K	406153 -12 Hz
2029-11-19	Monday	15:00	201°	+61°	0 dB	0°	201°	+61°	247°	+19°	4.7dB	345°K	406146 -49 Hz
2029-11-19	Monday	15:30	214°	+58°	0 dB	0°	214°	+58°	254°	+19°	4.7dB	347°K	406138 -85 Hz
2029-11-19	Monday	16:00	226°	+55°	0 dB	0°	226°	+55°	261°	+19°	4.7dB	348°K	406130 -120 Hz
2029-11-19	Monday	16:30	235°	+51°	0 dB	0°	235°	+51°	269°	+19°	4.7dB	349°K	406122 -152 Hz
2029-11-19	Monday	17:00	244°	+47°	0 dB	0°	244°	+47°	276°	+19°	4.7dB	349°K	406114 -181 Hz
2029-11-19	Monday	17:30	251°	+42°	0 dB	0°	251°	+42°	283°	+19°	4.7dB	350°K	406105 -207 Hz
2029-11-19	Monday	18:00	257°	+37°	0 dB	0°	257°	+37°	290°	+19°	4.7dB	351°K	406096 -229 Hz
2029-11-19	Monday	18:30	263°	+32°	0 dB	0°	263°	+32°	298°	+19°	4.7dB	352°K	406086 -248 Hz
2029-11-19	Monday	19:00	269°	+27°	0 dB	0°	269°	+27°	305°	+19°	4.7dB	352°K	406077 -262 Hz
2029-11-19	Monday	19:30	274°	+22°	0 dB	0°	274°	+22°	312°	+19°	4.7dB	353°K	406067 -272 Hz
2029-11-19	Monday	20:00	279°	+17°	0 dB	0°	279°	+17°	319°	+19°	4.7dB	354°K	406057 -277 Hz
2029-11-19	Monday	20:30	284°	+12°	0 dB	0°	284°	+12°	327°	+19°	4.8dB	355°K	406046 -277 Hz
2029-11-19	Monday	21:00	289°	+8°	0 dB	0°	289°	+8°	334°	+19°	4.8dB	355°K	406035 -273 Hz
2029-11-19	Monday	21:30	294°	+3°	0 dB	0°	294°	+3°	341°	+19°	4.8dB	356°K	406024 -264 Hz
2029-11-20	Tuesday	07:30	062°	+1°	0 dB	0°	062°	+1°	127°	+20°	4.9dB	368°K	405742 +276 Hz
2029-11-20	Tuesday	08:00	067°	+6°	0 dB	0°	067°	+6°	134°	+21°	4.9dB	367°K	405725 +286 Hz
2029-11-20	Tuesday	08:30	072°	+10°	0 dB	0°	072°	+10°	141°	+21°	4.9dB	366°K	405708 +293 Hz
2029-11-20	Tuesday	09:00	077°	+15°	0 dB	0°	077°	+15°	148°	+21°	4.8dB	365°K	405690 +294 Hz
2029-11-20	Tuesday	09:30	082°	+20°	0 dB	0°	082°	+20°	156°	+21°	4.8dB	365°K	405672 +292 Hz
2029-11-20	Tuesday	10:00	087°	+25°	0 dB	0°	087°	+25°	163°	+21°	4.8dB	364°K	405654 +285 Hz
2029-11-20	Tuesday	10:30	092°	+31°	0 dB	0°	092°	+31°	170°	+21°	4.8dB	363°K	405636 +273 Hz
2029-11-20	Tuesday	11:00	097°	+36°	0 dB	0°	097°	+36°	177°	+21°	4.8dB	362°K	405617 +257 Hz

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Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-20	Tuesday	11:30	103°	+41°	0 dB	0°	103°	+41°	185°	+21°	4.8dB	362°K	405598	+237 Hz
2029-11-20	Tuesday	12:00	110°	+46°	0 dB	0°	110°	+46°	192°	+21°	4.8dB	361°K	405579	+213 Hz
2029-11-20	Tuesday	12:30	117°	+50°	0 dB	0°	117°	+50°	199°	+21°	4.8dB	360°K	405560	+186 Hz
2029-11-20	Tuesday	13:00	126°	+55°	0 dB	0°	126°	+55°	206°	+21°	4.8dB	359°K	405540	+155 Hz
2029-11-20	Tuesday	13:30	136°	+58°	0 dB	0°	136°	+58°	214°	+21°	4.8dB	359°K	405520	+122 Hz
2029-11-20	Tuesday	14:00	149°	+62°	0 dB	0°	149°	+62°	221°	+21°	4.8dB	358°K	405500	+88 Hz
2029-11-20	Tuesday	14:30	163°	+64°	0 dB	0°	163°	+64°	228°	+21°	4.7dB	357°K	405479	+52 Hz
2029-11-20	Tuesday	15:00	179°	+65°	0 dB	0°	179°	+65°	235°	+21°	4.7dB	356°K	405458	+15 Hz
2029-11-20	Tuesday	15:30	195°	+64°	0 dB	0°	195°	+64°	243°	+21°	4.7dB	356°K	405437	-21 Hz
2029-11-20	Tuesday	16:00	209°	+62°	0 dB	0°	209°	+62°	250°	+21°	4.7dB	355°K	405416	-57 Hz
2029-11-20	Tuesday	16:30	222°	+59°	0 dB	0°	222°	+59°	257°	+21°	4.7dB	354°K	405394	-92 Hz
2029-11-20	Tuesday	17:00	233°	+56°	0 dB	0°	233°	+56°	264°	+21°	4.7dB	353°K	405372	-125 Hz
2029-11-20	Tuesday	17:30	242°	+51°	0 dB	0°	242°	+51°	272°	+21°	4.7dB	353°K	405350	-155 Hz
2029-11-20	Tuesday	18:00	249°	+47°	0 dB	0°	249°	+47°	279°	+21°	4.7dB	352°K	405328	-183 Hz
2029-11-20	Tuesday	18:30	256°	+42°	0 dB	0°	256°	+42°	286°	+21°	4.7dB	351°K	405305	-207 Hz
2029-11-20	Tuesday	19:00	262°	+37°	0 dB	0°	262°	+37°	294°	+22°	4.7dB	350°K	405282	-227 Hz
2029-11-20	Tuesday	19:30	268°	+32°	0 dB	0°	268°	+32°	301°	+22°	4.7dB	349°K	405259	-244 Hz
2029-11-20	Tuesday	20:00	273°	+27°	0 dB	0°	273°	+27°	308°	+22°	4.7dB	349°K	405236	-256 Hz
2029-11-20	Tuesday	20:30	278°	+22°	0 dB	0°	278°	+22°	315°	+22°	4.6dB	348°K	405212	-263 Hz
2029-11-20	Tuesday	21:00	283°	+17°	0 dB	0°	283°	+17°	323°	+22°	4.6dB	348°K	405188	-266 Hz
2029-11-20	Tuesday	21:30	288°	+12°	0 dB	0°	288°	+12°	330°	+22°	4.7dB	349°K	405164	-265 Hz
2029-11-20	Tuesday	22:00	293°	+7°	0 dB	0°	293°	+7°	337°	+22°	4.7dB	349°K	405139	-259 Hz
2029-11-20	Tuesday	22:30	298°	+3°	0 dB	0°	298°	+3°	344°	+22°	4.7dB	350°K	405114	-249 Hz
2029-11-21	wednesday	08:00	058°	+0°	0 dB	0°	058°	+0°	122°	+23°	4.8dB	365°K	404597	+269 Hz
2029-11-21	wednesday	08:30	063°	+4°	0 dB	0°	063°	+4°	129°	+23°	4.8dB	366°K	404567	+282 Hz
2029-11-21	wednesday	09:00	068°	+9°	0 dB	0°	068°	+9°	137°	+23°	4.8dB	366°K	404537	+291 Hz
2029-11-21	wednesday	09:30	073°	+14°	0 dB	0°	073°	+14°	144°	+23°	4.8dB	367°K	404507	+296 Hz
2029-11-21	wednesday	10:00	077°	+19°	0 dB	0°	077°	+19°	151°	+23°	4.8dB	368°K	404476	+296 Hz
2029-11-21	wednesday	10:30	082°	+24°	0 dB	0°	082°	+24°	158°	+23°	4.8dB	369°K	404445	+292 Hz
2029-11-21	wednesday	11:00	087°	+29°	0 dB	0°	087°	+29°	166°	+23°	4.8dB	369°K	404414	+283 Hz
2029-11-21	wednesday	11:30	092°	+34°	0 dB	0°	092°	+34°	173°	+23°	4.8dB	371°K	404383	+270 Hz
2029-11-21	wednesday	12:00	098°	+39°	0 dB	0°	098°	+39°	180°	+23°	4.9dB	372°K	404352	+252 Hz
2029-11-21	wednesday	12:30	104°	+44°	0 dB	0°	104°	+44°	187°	+23°	4.9dB	373°K	404320	+231 Hz
2029-11-21	wednesday	13:00	111°	+49°	0 dB	0°	111°	+49°	195°	+23°	4.9dB	374°K	404288	+206 Hz
2029-11-21	wednesday	13:30	119°	+53°	0 dB	0°	119°	+53°	202°	+23°	4.9dB	375°K	404256	+178 Hz
2029-11-21	wednesday	14:00	128°	+58°	0 dB	0°	128°	+58°	209°	+23°	4.9dB	376°K	404223	+147 Hz
2029-11-21	wednesday	14:30	139°	+61°	0 dB	0°	139°	+61°	216°	+23°	4.9dB	377°K	404191	+114 Hz
2029-11-21	wednesday	15:00	153°	+64°	0 dB	0°	153°	+64°	224°	+23°	4.9dB	378°K	404158	+80 Hz
2029-11-21	wednesday	15:30	168°	+66°	0 dB	0°	168°	+66°	231°	+23°	4.9dB	379°K	404125	+44 Hz
2029-11-21	wednesday	16:00	185°	+66°	0 dB	0°	185°	+66°	238°	+23°	4.9dB	380°K	404091	+8 Hz
2029-11-21	wednesday	16:30	201°	+65°	0 dB	0°	201°	+65°	245°	+23°	4.9dB	381°K	404057	-28 Hz
2029-11-21	wednesday	17:00	216°	+63°	0 dB	0°	216°	+63°	253°	+23°	5.0dB	383°K	404024	-63 Hz
2029-11-21	wednesday	17:30	228°	+59°	0 dB	0°	228°	+59°	260°	+23°	5.0dB	384°K	403989	-97 Hz
2029-11-21	wednesday	18:00	238°	+55°	0 dB	0°	238°	+55°	267°	+23°	5.0dB	385°K	403955	-129 Hz
2029-11-21	wednesday	18:30	246°	+51°	0 dB	0°	246°	+51°	274°	+23°	5.0dB	386°K	403920	-158 Hz
2029-11-21	wednesday	19:00	254°	+46°	0 dB	0°	254°	+46°	282°	+23°	5.0dB	387°K	403886	-184 Hz
2029-11-21	wednesday	19:30	260°	+41°	0 dB	0°	260°	+41°	289°	+23°	5.0dB	388°K	403851	-206 Hz
2029-11-21	wednesday	20:00	266°	+36°	0 dB	0°	266°	+36°	296°	+23°	5.0dB	389°K	403815	-225 Hz
2029-11-21	wednesday	20:30	271°	+31°	0 dB	0°	271°	+31°	303°	+23°	5.0dB	390°K	403780	-240 Hz
2029-11-21	wednesday	21:00	276°	+26°	0 dB	0°	276°	+26°	311°	+23°	5.0dB	391°K	403744	-250 Hz
2029-11-21	wednesday	21:30	281°	+21°	0 dB	0°	281°	+21°	318°	+23°	5.0dB	392°K	403708	-256 Hz
2029-11-21	wednesday	22:00	286°	+16°	0 dB	0°	286°	+16°	325°	+23°	5.0dB	394°K	403672	-258 Hz
2029-11-21	wednesday	22:30	291°	+11°	0 dB	0°	291°	+11°	332°	+23°	5.0dB	395°K	403635	-255 Hz
2029-11-21	wednesday	23:00	296°	+7°	0 dB	0°	296°	+7°	340°	+23°	5.1dB	396°K	403598	-247 Hz
2029-11-21	wednesday	23:30	301°	+2°	0 dB	0°	301°	+2°	347°	+23°	5.1dB	397°K	403561	-236 Hz
2029-11-22	Thursday	09:00	059°	+2°	0 dB	0°	059°	+2°	125°	+24°	5.3dB	421°K	402814	+278 Hz
2029-11-22	Thursday	09:30	064°	+7°	0 dB	0°	064°	+7°	132°	+24°	5.3dB	422°K	402773	+289 Hz
2029-11-22	Thursday	10:00	069°	+11°	0 dB	0°	069°	+11°	139°	+24°	5.3dB	423°K	402731	+297 Hz
2029-11-22	Thursday	10:30	073°	+16°	0 dB	0°	073°	+16°	146°	+24°	5.3dB	424°K	402689	+300 Hz
2029-11-22	Thursday	11:00	078°	+21°	0 dB	0°	078°	+21°	154°	+24°	5.3dB	426°K	402646	+299 Hz
2029-11-22	Thursday	11:30	083°	+26°	0 dB	0°	083°	+26°	161°	+24°	5.3dB	427°K	402604	+293 Hz
2029-11-22	Thursday	12:00	088°	+31°	0 dB	0°	088°	+31°	168°	+24°	5.3dB	428°K	402561	+283 Hz
2029-11-22	Thursday	12:30	093°	+36°	0 dB	0°	093°	+36°	175°	+24°	5.3dB	429°K	402518	+268 Hz
2029-11-22	Thursday	13:00	099°	+41°	0 dB	0°	099°	+41°	183°	+24°	5.3dB	431°K	402474	+250 Hz
2029-11-22	Thursday	13:30	105°	+46°	0 dB	0°	105°	+46°	190°	+24°	5.3dB	432°K	402431	+227 Hz
2029-11-22	Thursday	14:00	112°	+51°	0 dB	0°	112°	+51°	197°	+24°	5.3dB	433°K	402387	+202 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-22	Thursday	14:30	121°	+55°	0 dB	0°	121°	+55°	204°	+24°	5.4dB	434°K	402343 +173 Hz
2029-11-22	Thursday	15:00	131°	+60°	0 dB	0°	131°	+60°	212°	+24°	5.4dB	437°K	402299 +141 Hz
2029-11-22	Thursday	15:30	143°	+63°	0 dB	0°	143°	+63°	219°	+24°	5.4dB	439°K	402255 +108 Hz
2029-11-22	Thursday	16:00	157°	+66°	0 dB	0°	157°	+66°	226°	+24°	5.4dB	442°K	402210 +73 Hz
2029-11-22	Thursday	16:30	174°	+67°	0 dB	0°	174°	+67°	233°	+24°	5.4dB	444°K	402165 +37 Hz
2029-11-22	Thursday	17:00	191°	+67°	0 dB	0°	191°	+67°	241°	+24°	5.4dB	446°K	402120 +2 Hz
2029-11-22	Thursday	17:30	207°	+65°	0 dB	0°	207°	+65°	248°	+24°	5.5dB	449°K	402075 -34 Hz
2029-11-22	Thursday	18:00	221°	+62°	0 dB	0°	221°	+62°	255°	+24°	5.5dB	451°K	402029 -69 Hz
2029-11-22	Thursday	18:30	232°	+59°	0 dB	0°	232°	+59°	262°	+24°	5.5dB	454°K	401983 -102 Hz
2029-11-22	Thursday	19:00	242°	+54°	0 dB	0°	242°	+54°	270°	+24°	5.5dB	456°K	401937 -132 Hz
2029-11-22	Thursday	19:30	250°	+50°	0 dB	0°	250°	+50°	277°	+24°	5.5dB	458°K	401891 -160 Hz
2029-11-22	Thursday	20:00	256°	+45°	0 dB	0°	256°	+45°	284°	+24°	5.6dB	461°K	401844 -185 Hz
2029-11-22	Thursday	20:30	262°	+40°	0 dB	0°	262°	+40°	291°	+24°	5.6dB	463°K	401798 -207 Hz
2029-11-22	Thursday	21:00	268°	+35°	0 dB	0°	268°	+35°	299°	+24°	5.6dB	466°K	401751 -224 Hz
2029-11-22	Thursday	21:30	273°	+30°	0 dB	0°	273°	+30°	306°	+24°	5.6dB	468°K	401704 -237 Hz
2029-11-22	Thursday	22:00	278°	+25°	0 dB	0°	278°	+25°	313°	+24°	5.6dB	470°K	401656 -246 Hz
2029-11-22	Thursday	22:30	283°	+20°	0 dB	0°	283°	+20°	320°	+24°	5.6dB	473°K	401609 -251 Hz
2029-11-22	Thursday	23:00	288°	+15°	0 dB	0°	288°	+15°	328°	+24°	5.7dB	475°K	401561 -251 Hz
2029-11-22	Thursday	23:30	293°	+10°	0 dB	0°	293°	+10°	335°	+24°	5.7dB	478°K	401513 -247 Hz
2029-11-23	Friday	00:00	298°	+6°	0 dB	0°	298°	+6°	342°	+24°	5.7dB	480°K	401464 -238 Hz
2029-11-23	Friday	00:30	303°	+1°	0 dB	0°	303°	+1°	349°	+24°	5.7dB	482°K	401416 -226 Hz
2029-11-23	Friday	10:00	060°	+4°	0 dB	0°	060°	+4°	127°	+23°	5.8dB	500°K	400449 +287 Hz
2029-11-23	Friday	10:30	065°	+8°	0 dB	0°	065°	+8°	134°	+23°	5.8dB	500°K	400396 +297 Hz
2029-11-23	Friday	11:00	070°	+13°	0 dB	0°	070°	+13°	141°	+23°	5.8dB	500°K	400343 +304 Hz
2029-11-23	Friday	11:30	075°	+17°	0 dB	0°	075°	+17°	149°	+23°	5.8dB	500°K	400289 +306 Hz
2029-11-23	Friday	12:00	080°	+22°	0 dB	0°	080°	+22°	156°	+23°	5.8dB	500°K	400235 +303 Hz
2029-11-23	Friday	12:30	085°	+27°	0 dB	0°	085°	+27°	163°	+23°	5.8dB	500°K	400181 +296 Hz
2029-11-23	Friday	13:00	090°	+32°	0 dB	0°	090°	+32°	170°	+23°	5.8dB	500°K	400127 +284 Hz
2029-11-23	Friday	13:30	095°	+37°	0 dB	0°	095°	+37°	178°	+23°	5.8dB	500°K	400072 +269 Hz
2029-11-23	Friday	14:00	101°	+42°	0 dB	0°	101°	+42°	185°	+23°	5.8dB	500°K	400018 +249 Hz
2029-11-23	Friday	14:30	108°	+47°	0 dB	0°	108°	+47°	192°	+23°	5.8dB	500°K	399963 +226 Hz
2029-11-23	Friday	15:00	115°	+52°	0 dB	0°	115°	+52°	199°	+23°	5.8dB	500°K	399907 +199 Hz
2029-11-23	Friday	15:30	124°	+56°	0 dB	0°	124°	+56°	207°	+23°	5.8dB	500°K	399852 +169 Hz
2029-11-23	Friday	16:00	135°	+60°	0 dB	0°	135°	+60°	214°	+23°	5.8dB	500°K	399796 +137 Hz
2029-11-23	Friday	16:30	147°	+64°	0 dB	0°	147°	+64°	221°	+23°	5.8dB	500°K	399740 +103 Hz
2029-11-23	Friday	17:00	162°	+66°	0 dB	0°	162°	+66°	228°	+23°	5.8dB	500°K	399684 +68 Hz
2029-11-23	Friday	17:30	179°	+66°	0 dB	0°	179°	+66°	236°	+23°	5.8dB	500°K	399628 +32 Hz
2029-11-23	Friday	18:00	196°	+66°	0 dB	0°	196°	+66°	243°	+23°	5.8dB	498°K	399571 -4 Hz
2029-11-23	Friday	18:30	211°	+64°	0 dB	0°	211°	+64°	250°	+23°	5.7dB	495°K	399514 -40 Hz
2029-11-23	Friday	19:00	224°	+61°	0 dB	0°	224°	+61°	257°	+23°	5.7dB	492°K	399457 -74 Hz
2029-11-23	Friday	19:30	235°	+57°	0 dB	0°	235°	+57°	265°	+23°	5.7dB	489°K	399400 -107 Hz
2029-11-23	Friday	20:00	243°	+52°	0 dB	0°	243°	+52°	272°	+23°	5.6dB	485°K	399342 -137 Hz
2029-11-23	Friday	20:30	251°	+48°	0 dB	0°	251°	+48°	279°	+23°	5.6dB	482°K	399285 -164 Hz
2029-11-23	Friday	21:00	258°	+43°	0 dB	0°	258°	+43°	286°	+23°	5.6dB	479°K	399227 -188 Hz
2029-11-23	Friday	21:30	264°	+38°	0 dB	0°	264°	+38°	294°	+23°	5.6dB	476°K	399168 -208 Hz
2029-11-23	Friday	22:00	269°	+33°	0 dB	0°	269°	+33°	301°	+23°	5.5dB	473°K	399110 -225 Hz
2029-11-23	Friday	22:30	274°	+28°	0 dB	0°	274°	+28°	308°	+23°	5.5dB	469°K	399051 -237 Hz
2029-11-23	Friday	23:00	279°	+23°	0 dB	0°	279°	+23°	315°	+23°	5.5dB	466°K	398992 -245 Hz
2029-11-23	Friday	23:30	284°	+18°	0 dB	0°	284°	+18°	323°	+23°	5.5dB	463°K	398933 -248 Hz
2029-11-24	Saturday	00:00	289°	+13°	0 dB	0°	289°	+13°	330°	+23°	5.4dB	460°K	398874 -247 Hz
2029-11-24	Saturday	00:30	294°	+8°	0 dB	0°	294°	+8°	337°	+23°	5.4dB	457°K	398814 -241 Hz
2029-11-24	Saturday	01:00	298°	+4°	0 dB	0°	298°	+4°	344°	+23°	5.4dB	453°K	398754 -231 Hz
2029-11-24	Saturday	10:30	058°	-0°	0 dB	0°	058°	-0°	122°	+22°	4.9dB	403°K	397573 +285 Hz
2029-11-24	Saturday	11:00	063°	+4°	0 dB	0°	063°	+4°	129°	+22°	4.8dB	401°K	397508 +298 Hz
2029-11-24	Saturday	11:30	068°	+8°	0 dB	0°	068°	+8°	136°	+22°	4.8dB	400°K	397443 +308 Hz
2029-11-24	Saturday	12:00	073°	+13°	0 dB	0°	073°	+13°	144°	+22°	4.8dB	398°K	397378 +313 Hz
2029-11-24	Saturday	12:30	078°	+18°	0 dB	0°	078°	+18°	151°	+22°	4.8dB	397°K	397313 +313 Hz
2029-11-24	Saturday	13:00	083°	+23°	0 dB	0°	083°	+23°	158°	+22°	4.8dB	395°K	397248 +309 Hz
2029-11-24	Saturday	13:30	088°	+28°	0 dB	0°	088°	+28°	165°	+22°	4.8dB	393°K	397182 +301 Hz
2029-11-24	Saturday	14:00	093°	+33°	0 dB	0°	093°	+33°	173°	+22°	4.7dB	392°K	397116 +288 Hz
2029-11-24	Saturday	14:30	099°	+38°	0 dB	0°	099°	+38°	180°	+22°	4.7dB	390°K	397050 +271 Hz
2029-11-24	Saturday	15:00	105°	+43°	0 dB	0°	105°	+43°	187°	+22°	4.7dB	389°K	396984 +250 Hz
2029-11-24	Saturday	15:30	112°	+48°	0 dB	0°	112°	+48°	194°	+22°	4.7dB	387°K	396917 +225 Hz
2029-11-24	Saturday	16:00	120°	+52°	0 dB	0°	120°	+52°	202°	+22°	4.7dB	385°K	396850 +197 Hz
2029-11-24	Saturday	16:30	129°	+56°	0 dB	0°	129°	+56°	209°	+21°	4.6dB	384°K	396783 +166 Hz
2029-11-24	Saturday	17:00	140°	+60°	0 dB	0°	140°	+60°	216°	+21°	4.6dB	382°K	396716 +133 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-24	Saturday	17:30	153°	+63°	0 dB	0°	153°	+63°	223°	+21°	4.6dB	381°K	396648 +98 Hz
2029-11-24	Saturday	18:00	168°	+64°	0 dB	0°	168°	+64°	231°	+21°	4.6dB	379°K	396580 +62 Hz
2029-11-24	Saturday	18:30	184°	+65°	0 dB	0°	184°	+65°	238°	+21°	4.6dB	378°K	396512 +26 Hz
2029-11-24	Saturday	19:00	200°	+64°	0 dB	0°	200°	+64°	245°	+21°	4.6dB	376°K	396444 -11 Hz
2029-11-24	Saturday	19:30	214°	+61°	0 dB	0°	214°	+61°	252°	+21°	4.5dB	374°K	396375 -46 Hz
2029-11-24	Saturday	20:00	226°	+58°	0 dB	0°	226°	+58°	260°	+21°	4.5dB	373°K	396307 -81 Hz
2029-11-24	Saturday	20:30	236°	+54°	0 dB	0°	236°	+54°	267°	+21°	4.5dB	371°K	396238 -113 Hz
2029-11-24	Saturday	21:00	244°	+50°	0 dB	0°	244°	+50°	274°	+21°	4.5dB	370°K	396168 -143 Hz
2029-11-24	Saturday	21:30	251°	+45°	0 dB	0°	251°	+45°	281°	+21°	4.4dB	367°K	396099 -169 Hz
2029-11-24	Saturday	22:00	258°	+40°	0 dB	0°	258°	+40°	289°	+21°	4.4dB	365°K	396029 -193 Hz
2029-11-24	Saturday	22:30	264°	+35°	0 dB	0°	264°	+35°	296°	+21°	4.4dB	363°K	395959 -212 Hz
2029-11-24	Saturday	23:00	269°	+30°	0 dB	0°	269°	+30°	303°	+21°	4.4dB	360°K	395889 -227 Hz
2029-11-24	Saturday	23:30	274°	+25°	0 dB	0°	274°	+25°	310°	+21°	4.3dB	358°K	395819 -238 Hz
2029-11-25	Sunday	00:00	279°	+20°	0 dB	0°	279°	+20°	318°	+21°	4.3dB	356°K	395748 -245 Hz
2029-11-25	Sunday	00:30	284°	+15°	0 dB	0°	284°	+15°	325°	+21°	4.3dB	353°K	395677 -247 Hz
2029-11-25	Sunday	01:00	289°	+10°	0 dB	0°	289°	+10°	332°	+21°	4.3dB	351°K	395606 -244 Hz
2029-11-25	Sunday	01:30	294°	+5°	0 dB	0°	294°	+5°	339°	+21°	4.2dB	349°K	395535 -237 Hz
2029-11-25	Sunday	02:00	299°	+1°	0 dB	0°	299°	+1°	347°	+21°	4.2dB	346°K	395463 -226 Hz
2029-11-25	Sunday	12:00	066°	+4°	0 dB	0°	066°	+4°	132°	+19°	3.6dB	298°K	393981 +312 Hz
2029-11-25	Sunday	12:30	071°	+8°	0 dB	0°	071°	+8°	139°	+19°	3.6dB	296°K	393905 +320 Hz
2029-11-25	Sunday	13:00	076°	+13°	0 dB	0°	076°	+13°	146°	+19°	3.5dB	293°K	393828 +323 Hz
2029-11-25	Sunday	13:30	081°	+18°	0 dB	0°	081°	+18°	153°	+19°	3.5dB	290°K	393751 +322 Hz
2029-11-25	Sunday	14:00	087°	+23°	0 dB	0°	087°	+23°	161°	+19°	3.4dB	287°K	393674 +317 Hz
2029-11-25	Sunday	14:30	092°	+28°	0 dB	0°	092°	+28°	168°	+19°	3.4dB	284°K	393596 +307 Hz
2029-11-25	Sunday	15:00	097°	+33°	0 dB	0°	097°	+33°	175°	+19°	3.4dB	282°K	393518 +292 Hz
2029-11-25	Sunday	15:30	103°	+38°	0 dB	0°	103°	+38°	182°	+19°	3.3dB	279°K	393440 +274 Hz
2029-11-25	Sunday	16:00	110°	+43°	0 dB	0°	110°	+43°	190°	+19°	3.3dB	276°K	393362 +251 Hz
2029-11-25	Sunday	16:30	117°	+47°	0 dB	0°	117°	+47°	197°	+19°	3.2dB	273°K	393284 +224 Hz
2029-11-25	Sunday	17:00	126°	+52°	0 dB	0°	126°	+52°	204°	+19°	3.2dB	270°K	393205 +195 Hz
2029-11-25	Sunday	17:30	135°	+55°	0 dB	0°	135°	+55°	211°	+19°	3.2dB	268°K	393126 +163 Hz
2029-11-25	Sunday	18:00	147°	+58°	0 dB	0°	147°	+58°	219°	+19°	3.1dB	265°K	393047 +128 Hz
2029-11-25	Sunday	18:30	160°	+61°	0 dB	0°	160°	+61°	226°	+19°	3.1dB	262°K	392968 +92 Hz
2029-11-25	Sunday	19:00	174°	+62°	0 dB	0°	174°	+62°	233°	+18°	3.0dB	259°K	392888 +55 Hz
2029-11-25	Sunday	19:30	189°	+62°	0 dB	0°	189°	+62°	240°	+18°	3.0dB	256°K	392808 +18 Hz
2029-11-25	Sunday	20:00	203°	+60°	0 dB	0°	203°	+60°	248°	+18°	3.0dB	254°K	392728 -19 Hz
2029-11-25	Sunday	20:30	216°	+58°	0 dB	0°	216°	+58°	255°	+18°	2.9dB	251°K	392648 -55 Hz
2029-11-25	Sunday	21:00	226°	+54°	0 dB	0°	226°	+54°	262°	+18°	2.9dB	248°K	392567 -89 Hz
2029-11-25	Sunday	21:30	236°	+50°	0 dB	0°	236°	+50°	269°	+18°	2.8dB	245°K	392487 -121 Hz
2029-11-25	Sunday	22:00	244°	+46°	0 dB	0°	244°	+46°	277°	+18°	2.8dB	242°K	392406 -150 Hz
2029-11-25	Sunday	22:30	251°	+41°	0 dB	0°	251°	+41°	284°	+18°	2.7dB	240°K	392324 -177 Hz
2029-11-25	Sunday	23:00	257°	+36°	0 dB	0°	257°	+36°	291°	+18°	2.7dB	237°K	392243 -199 Hz
2029-11-25	Sunday	23:30	263°	+31°	0 dB	0°	263°	+31°	298°	+18°	2.7dB	234°K	392161 -217 Hz
2029-11-26	Monday	00:00	268°	+26°	0 dB	0°	268°	+26°	306°	+18°	2.6dB	231°K	392079 -231 Hz
2029-11-26	Monday	00:30	273°	+21°	0 dB	0°	273°	+21°	313°	+18°	2.6dB	229°K	391997 -241 Hz
2029-11-26	Monday	01:00	278°	+16°	0 dB	0°	278°	+16°	320°	+18°	2.5dB	226°K	391915 -246 Hz
2029-11-26	Monday	01:30	283°	+11°	0 dB	0°	283°	+11°	328°	+18°	2.5dB	225°K	391832 -246 Hz
2029-11-26	Monday	02:00	288°	+6°	0 dB	0°	288°	+6°	335°	+18°	2.5dB	224°K	391749 -242 Hz
2029-11-26	Monday	02:30	293°	+1°	0 dB	0°	293°	+1°	342°	+17°	2.5dB	223°K	391666 -233 Hz
2029-11-26	Monday	13:00	071°	+3°	0 dB	0°	071°	+3°	134°	+16°	2.1dB	204°K	389869 +325 Hz
2029-11-26	Monday	13:30	076°	+7°	0 dB	0°	076°	+7°	142°	+16°	2.1dB	203°K	389781 +332 Hz
2029-11-26	Monday	14:00	081°	+12°	0 dB	0°	081°	+12°	149°	+16°	2.0dB	202°K	389692 +334 Hz
2029-11-26	Monday	14:30	086°	+17°	0 dB	0°	086°	+17°	156°	+16°	2.0dB	201°K	389604 +331 Hz
2029-11-26	Monday	15:00	091°	+22°	0 dB	0°	091°	+22°	163°	+15°	2.0dB	200°K	389515 +324 Hz
2029-11-26	Monday	15:30	097°	+27°	0 dB	0°	097°	+27°	171°	+15°	2.0dB	199°K	389426 +312 Hz
2029-11-26	Monday	16:00	103°	+32°	0 dB	0°	103°	+32°	178°	+15°	2.0dB	198°K	389337 +296 Hz
2029-11-26	Monday	16:30	109°	+37°	0 dB	0°	109°	+37°	185°	+15°	1.9dB	197°K	389248 +275 Hz
2029-11-26	Monday	17:00	116°	+42°	0 dB	0°	116°	+42°	192°	+15°	1.9dB	196°K	389158 +250 Hz
2029-11-26	Monday	17:30	124°	+46°	0 dB	0°	124°	+46°	200°	+15°	1.9dB	195°K	389068 +222 Hz
2029-11-26	Monday	18:00	133°	+50°	0 dB	0°	133°	+50°	207°	+15°	1.9dB	195°K	388978 +191 Hz
2029-11-26	Monday	18:30	143°	+53°	0 dB	0°	143°	+53°	214°	+15°	1.9dB	194°K	388888 +157 Hz
2029-11-26	Monday	19:00	154°	+56°	0 dB	0°	154°	+56°	221°	+15°	1.9dB	193°K	388798 +121 Hz
2029-11-26	Monday	19:30	167°	+57°	0 dB	0°	167°	+57°	229°	+15°	1.8dB	192°K	388707 +84 Hz
2029-11-26	Monday	20:00	180°	+58°	0 dB	0°	180°	+58°	236°	+15°	1.8dB	191°K	388616 +46 Hz
2029-11-26	Monday	20:30	193°	+57°	0 dB	0°	193°	+57°	243°	+15°	1.8dB	190°K	388525 +8 Hz
2029-11-26	Monday	21:00	206°	+56°	0 dB	0°	206°	+56°	251°	+14°	1.8dB	189°K	388434 -29 Hz
2029-11-26	Monday	21:30	217°	+53°	0 dB	0°	217°	+53°	258°	+14°	1.7dB	188°K	388342 -65 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date		UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-26	Monday	22:00	227°	+49°	0 dB	0°	227°	+49°	265°	+14°	1.7dB	187°K	388251	-100 Hz
2029-11-26	Monday	22:30	236°	+45°	0 dB	0°	236°	+45°	272°	+14°	1.7dB	186°K	388159	-131 Hz
2029-11-26	Monday	23:00	243°	+41°	0 dB	0°	243°	+41°	280°	+14°	1.7dB	185°K	388067	-160 Hz
2029-11-26	Monday	23:30	250°	+36°	0 dB	0°	250°	+36°	287°	+14°	1.7dB	184°K	387974	-185 Hz
2029-11-27	Tuesday	00:00	256°	+31°	0 dB	0°	256°	+31°	294°	+14°	1.7dB	184°K	387882	-206 Hz
2029-11-27	Tuesday	00:30	262°	+26°	0 dB	0°	262°	+26°	301°	+14°	1.6dB	183°K	387789	-223 Hz
2029-11-27	Tuesday	01:00	267°	+21°	0 dB	0°	267°	+21°	309°	+14°	1.6dB	182°K	387696	-236 Hz
2029-11-27	Tuesday	01:30	272°	+16°	0 dB	0°	272°	+16°	316°	+14°	1.6dB	181°K	387603	-243 Hz
2029-11-27	Tuesday	02:00	277°	+11°	0 dB	0°	277°	+11°	323°	+14°	1.6dB	180°K	387510	-247 Hz
2029-11-27	Tuesday	02:30	282°	+6°	0 dB	0°	282°	+6°	330°	+14°	1.5dB	179°K	387416	-245 Hz
2029-11-27	Tuesday	03:00	288°	+1°	0 dB	0°	288°	+1°	338°	+13°	1.5dB	178°K	387323	-239 Hz
2029-11-27	Tuesday	14:00	076°	+1°	0 dB	0°	076°	+1°	137°	+11°	1.4dB	179°K	385212	+338 Hz
2029-11-27	Tuesday	14:30	081°	+6°	0 dB	0°	081°	+6°	145°	+11°	1.4dB	179°K	385114	+343 Hz
2029-11-27	Tuesday	15:00	086°	+11°	0 dB	0°	086°	+11°	152°	+11°	1.4dB	179°K	385016	+343 Hz
2029-11-27	Tuesday	15:30	092°	+16°	0 dB	0°	092°	+16°	159°	+11°	1.4dB	179°K	384917	+338 Hz
2029-11-27	Tuesday	16:00	097°	+21°	0 dB	0°	097°	+21°	166°	+11°	1.4dB	180°K	384819	+329 Hz
2029-11-27	Tuesday	16:30	103°	+26°	0 dB	0°	103°	+26°	174°	+11°	1.4dB	180°K	384720	+315 Hz
2029-11-27	Tuesday	17:00	109°	+31°	0 dB	0°	109°	+31°	181°	+11°	1.4dB	180°K	384621	+296 Hz
2029-11-27	Tuesday	17:30	116°	+35°	0 dB	0°	116°	+35°	188°	+11°	1.4dB	181°K	384522	+273 Hz
2029-11-27	Tuesday	18:00	123°	+40°	0 dB	0°	123°	+40°	195°	+11°	1.4dB	181°K	384423	+246 Hz
2029-11-27	Tuesday	18:30	131°	+44°	0 dB	0°	131°	+44°	203°	+10°	1.4dB	181°K	384323	+216 Hz
2029-11-27	Tuesday	19:00	140°	+47°	0 dB	0°	140°	+47°	210°	+10°	1.5dB	182°K	384224	+183 Hz
2029-11-27	Tuesday	19:30	150°	+50°	0 dB	0°	150°	+50°	217°	+10°	1.4dB	182°K	384124	+148 Hz
2029-11-27	Tuesday	20:00	161°	+52°	0 dB	0°	161°	+52°	225°	+10°	1.4dB	182°K	384024	+111 Hz
2029-11-27	Tuesday	20:30	173°	+53°	0 dB	0°	173°	+53°	232°	+10°	1.4dB	182°K	383924	+73 Hz
2029-11-27	Tuesday	21:00	185°	+53°	0 dB	0°	185°	+53°	239°	+10°	1.4dB	182°K	383824	+34 Hz
2029-11-27	Tuesday	21:30	197°	+52°	0 dB	0°	197°	+52°	246°	+10°	1.4dB	183°K	383724	-5 Hz
2029-11-27	Tuesday	22:00	208°	+50°	0 dB	0°	208°	+50°	254°	+10°	1.4dB	183°K	383623	-42 Hz
2029-11-27	Tuesday	22:30	218°	+47°	0 dB	0°	218°	+47°	261°	+10°	1.4dB	183°K	383523	-78 Hz
2029-11-27	Tuesday	23:00	227°	+44°	0 dB	0°	227°	+44°	268°	+10°	1.4dB	183°K	383422	-112 Hz
2029-11-27	Tuesday	23:30	235°	+40°	0 dB	0°	235°	+40°	275°	+9°	1.4dB	183°K	383321	-143 Hz
2029-11-28	wednesday	00:00	242°	+35°	0 dB	0°	242°	+35°	283°	+9°	1.4dB	183°K	383220	-170 Hz
2029-11-28	wednesday	00:30	249°	+30°	0 dB	0°	249°	+30°	290°	+9°	1.4dB	184°K	383119	-194 Hz
2029-11-28	wednesday	01:00	255°	+26°	0 dB	0°	255°	+26°	297°	+9°	1.4dB	184°K	383017	-214 Hz
2029-11-28	wednesday	01:30	260°	+21°	0 dB	0°	260°	+21°	304°	+9°	1.4dB	184°K	382916	-229 Hz
2029-11-28	wednesday	02:00	266°	+15°	0 dB	0°	266°	+15°	312°	+9°	1.4dB	184°K	382814	-240 Hz
2029-11-28	wednesday	02:30	271°	+10°	0 dB	0°	271°	+10°	319°	+9°	1.4dB	184°K	382712	-246 Hz
2029-11-28	wednesday	03:00	276°	+5°	0 dB	0°	276°	+5°	326°	+9°	1.4dB	184°K	382611	-247 Hz
2029-11-28	wednesday	03:30	281°	+0°	0 dB	0°	281°	+0°	333°	+9°	1.4dB	184°K	382509	-243 Hz
2029-11-28	wednesday	15:00	082°	-0°	0 dB	0°	082°	-0°	140°	+6°	1.4dB	189°K	380129	+347 Hz
2029-11-28	wednesday	15:30	087°	+5°	0 dB	0°	087°	+5°	148°	+6°	1.4dB	190°K	380024	+349 Hz
2029-11-28	wednesday	16:00	092°	+10°	0 dB	0°	092°	+10°	155°	+6°	1.4dB	190°K	379920	+347 Hz
2029-11-28	wednesday	16:30	098°	+15°	0 dB	0°	098°	+15°	162°	+6°	1.4dB	190°K	379815	+340 Hz
2029-11-28	wednesday	17:00	103°	+19°	0 dB	0°	103°	+19°	170°	+6°	1.4dB	190°K	379710	+329 Hz
2029-11-28	wednesday	17:30	109°	+24°	0 dB	0°	109°	+24°	177°	+6°	1.4dB	191°K	379605	+312 Hz
2029-11-28	wednesday	18:00	116°	+29°	0 dB	0°	116°	+29°	184°	+6°	1.4dB	191°K	379500	+292 Hz
2029-11-28	wednesday	18:30	122°	+33°	0 dB	0°	122°	+33°	191°	+5°	1.4dB	191°K	379395	+267 Hz
2029-11-28	wednesday	19:00	130°	+37°	0 dB	0°	130°	+37°	199°	+5°	1.4dB	192°K	379289	+238 Hz
2029-11-28	wednesday	19:30	138°	+41°	0 dB	0°	138°	+41°	206°	+5°	1.4dB	192°K	379184	+206 Hz
2029-11-28	wednesday	20:00	147°	+44°	0 dB	0°	147°	+44°	213°	+5°	1.4dB	192°K	379079	+172 Hz
2029-11-28	wednesday	20:30	157°	+46°	0 dB	0°	157°	+46°	220°	+5°	1.4dB	193°K	378973	+135 Hz
2029-11-28	wednesday	21:00	167°	+47°	0 dB	0°	167°	+47°	228°	+5°	1.4dB	193°K	378868	+97 Hz
2029-11-28	wednesday	21:30	178°	+48°	0 dB	0°	178°	+48°	235°	+5°	1.4dB	193°K	378763	+58 Hz
2029-11-28	wednesday	22:00	189°	+48°	0 dB	0°	189°	+48°	242°	+5°	1.4dB	193°K	378657	+19 Hz
2029-11-28	wednesday	22:30	200°	+46°	0 dB	0°	200°	+46°	249°	+5°	1.4dB	194°K	378551	-19 Hz
2029-11-28	wednesday	23:00	210°	+44°	0 dB	0°	210°	+44°	257°	+4°	1.4dB	194°K	378446	-57 Hz
2029-11-28	wednesday	23:30	219°	+41°	0 dB	0°	219°	+41°	264°	+4°	1.4dB	194°K	378340	-92 Hz
2029-11-29	Thursday	00:00	227°	+37°	0 dB	0°	227°	+37°	271°	+4°	1.4dB	195°K	378234	-125 Hz
2029-11-29	Thursday	00:30	234°	+33°	0 dB	0°	234°	+33°	278°	+4°	1.4dB	195°K	378128	-155 Hz
2029-11-29	Thursday	01:00	241°	+29°	0 dB	0°	241°	+29°	286°	+4°	1.4dB	195°K	378023	-181 Hz
2029-11-29	Thursday	01:30	248°	+24°	0 dB	0°	248°	+24°	293°	+4°	1.4dB	196°K	377917	-203 Hz
2029-11-29	Thursday	02:00	253°	+20°	0 dB	0°	253°	+20°	300°	+4°	1.4dB	196°K	377811	-221 Hz
2029-11-29	Thursday	02:30	259°	+15°	0 dB	0°	259°	+15°	307°	+4°	1.4dB	196°K	377705	-234 Hz
2029-11-29	Thursday	03:00	264°	+9°	0 dB	0°	264°	+9°	315°	+4°	1.4dB	196°K	377599	-243 Hz
2029-11-29	Thursday	03:30	269°	+4°	0 dB	0°	269°	+4°	322°	+3°	1.4dB	197°K	377493	-247 Hz
2029-11-29	Thursday	16:30	093°	+3°	0 dB	0°	093°	+3°	151°	+1°	1.4dB	205°K	374737	+350 Hz

Moon Data for K7CQ in Locator PN16xe on 144 MHz with K7CQ in Locator PN16xe

Date	UTC	AZ	EL	MNR	POL	AZDX	ELDX	GHA	DEC	DGR	TSky	Rge Km	Doppler
2029-11-29	Thursday	17:00	098°	+8°	0 dB	0°	098°	+8°	158°	+0°	1.4dB	205°K	374632 +346 Hz
2029-11-29	Thursday	17:30	104°	+12°	0 dB	0°	104°	+12°	165°	+0°	1.4dB	205°K	374526 +336 Hz
2029-11-29	Thursday	18:00	110°	+17°	0 dB	0°	110°	+17°	173°	+0°	1.4dB	206°K	374421 +323 Hz
2029-11-29	Thursday	18:30	116°	+22°	0 dB	0°	116°	+22°	180°	+0°	1.4dB	206°K	374315 +304 Hz
2029-11-29	Thursday	19:00	122°	+26°	0 dB	0°	122°	+26°	187°	-0°	1.4dB	206°K	374210 +282 Hz
2029-11-29	Thursday	19:30	129°	+30°	0 dB	0°	129°	+30°	194°	-0°	1.4dB	206°K	374105 +255 Hz
2029-11-29	Thursday	20:00	137°	+34°	0 dB	0°	137°	+34°	202°	-0°	1.4dB	207°K	374000 +225 Hz
2029-11-29	Thursday	20:30	145°	+37°	0 dB	0°	145°	+37°	209°	-0°	1.4dB	207°K	373894 +192 Hz
2029-11-29	Thursday	21:00	153°	+39°	0 dB	0°	153°	+39°	216°	-1°	1.4dB	207°K	373789 +156 Hz
2029-11-29	Thursday	21:30	163°	+41°	0 dB	0°	163°	+41°	223°	-1°	1.4dB	208°K	373685 +119 Hz
2029-11-29	Thursday	22:00	173°	+42°	0 dB	0°	173°	+42°	231°	-1°	1.4dB	208°K	373580 +80 Hz
2029-11-29	Thursday	22:30	182°	+42°	0 dB	0°	182°	+42°	238°	-1°	1.4dB	208°K	373475 +41 Hz
2029-11-29	Thursday	23:00	192°	+41°	0 dB	0°	192°	+41°	245°	-1°	1.4dB	209°K	373370 +2 Hz
2029-11-29	Thursday	23:30	202°	+40°	0 dB	0°	202°	+40°	252°	-1°	1.4dB	209°K	373266 -36 Hz
2029-11-30	Friday	00:00	211°	+37°	0 dB	0°	211°	+37°	260°	-1°	1.4dB	209°K	373161 -72 Hz
2029-11-30	Friday	00:30	219°	+34°	0 dB	0°	219°	+34°	267°	-1°	1.4dB	210°K	373057 -107 Hz
2029-11-30	Friday	01:00	226°	+31°	0 dB	0°	226°	+31°	274°	-1°	1.4dB	210°K	372952 -138 Hz
2029-11-30	Friday	01:30	233°	+27°	0 dB	0°	233°	+27°	281°	-2°	1.4dB	210°K	372848 -167 Hz
2029-11-30	Friday	02:00	240°	+23°	0 dB	0°	240°	+23°	289°	-2°	1.4dB	210°K	372744 -191 Hz
2029-11-30	Friday	02:30	246°	+18°	0 dB	0°	246°	+18°	296°	-2°	1.4dB	211°K	372640 -212 Hz
2029-11-30	Friday	03:00	252°	+13°	0 dB	0°	252°	+13°	303°	-2°	1.4dB	211°K	372536 -228 Hz
2029-11-30	Friday	03:30	257°	+8°	0 dB	0°	257°	+8°	310°	-2°	1.4dB	211°K	372433 -239 Hz
2029-11-30	Friday	04:00	262°	+3°	0 dB	0°	262°	+3°	318°	-2°	1.4dB	212°K	372329 -246 Hz
2029-11-30	Friday	17:30	099°	+0°	0 dB	0°	099°	+0°	153°	-5°	1.9dB	254°K	369595 +342 Hz
2029-11-30	Friday	18:00	104°	+5°	0 dB	0°	104°	+5°	161°	-5°	1.9dB	256°K	369497 +336 Hz
2029-11-30	Friday	18:30	110°	+10°	0 dB	0°	110°	+10°	168°	-6°	2.0dB	258°K	369398 +325 Hz
2029-11-30	Friday	19:00	116°	+14°	0 dB	0°	116°	+14°	175°	-6°	2.0dB	259°K	369301 +310 Hz
2029-11-30	Friday	19:30	122°	+19°	0 dB	0°	122°	+19°	182°	-6°	2.0dB	261°K	369203 +290 Hz
2029-11-30	Friday	20:00	128°	+23°	0 dB	0°	128°	+23°	190°	-6°	2.0dB	263°K	369105 +266 Hz
2029-11-30	Friday	20:30	135°	+26°	0 dB	0°	135°	+26°	197°	-6°	2.0dB	265°K	369008 +238 Hz
2029-11-30	Friday	21:00	142°	+30°	0 dB	0°	142°	+30°	204°	-6°	2.1dB	267°K	368911 +207 Hz
2029-11-30	Friday	21:30	150°	+32°	0 dB	0°	150°	+32°	211°	-6°	2.1dB	269°K	368814 +173 Hz
2029-11-30	Friday	22:00	159°	+34°	0 dB	0°	159°	+34°	219°	-6°	2.1dB	271°K	368718 +137 Hz
2029-11-30	Friday	22:30	167°	+36°	0 dB	0°	167°	+36°	226°	-6°	2.1dB	273°K	368622 +100 Hz
2029-11-30	Friday	23:00	176°	+36°	0 dB	0°	176°	+36°	233°	-7°	2.1dB	275°K	368526 +61 Hz
2029-11-30	Friday	23:30	185°	+36°	0 dB	0°	185°	+36°	240°	-7°	2.1dB	276°K	368430 +23 Hz
2029-12-01	Saturday	00:00	194°	+35°	0 dB	0°	194°	+35°	248°	-7°	2.2dB	278°K	368335 -16 Hz
2029-12-01	Saturday	00:30	203°	+34°	0 dB	0°	203°	+34°	255°	-7°	2.2dB	280°K	368240 -53 Hz
2029-12-01	Saturday	01:00	211°	+31°	0 dB	0°	211°	+31°	262°	-7°	2.2dB	282°K	368145 -88 Hz
2029-12-01	Saturday	01:30	218°	+28°	0 dB	0°	218°	+28°	269°	-7°	2.2dB	284°K	368050 -121 Hz
2029-12-01	Saturday	02:00	226°	+25°	0 dB	0°	226°	+25°	277°	-7°	2.3dB	286°K	367956 -151 Hz
2029-12-01	Saturday	02:30	232°	+21°	0 dB	0°	232°	+21°	284°	-7°	2.3dB	288°K	367862 -178 Hz
2029-12-01	Saturday	03:00	238°	+17°	0 dB	0°	238°	+17°	291°	-7°	2.3dB	290°K	367769 -201 Hz
2029-12-01	Saturday	03:30	244°	+12°	0 dB	0°	244°	+12°	298°	-8°	2.3dB	292°K	367675 -220 Hz
2029-12-01	Saturday	04:00	250°	+7°	0 dB	0°	250°	+7°	306°	-8°	2.3dB	294°K	367582 -234 Hz
2029-12-01	Saturday	04:30	255°	+2°	0 dB	0°	255°	+2°	313°	-8°	2.4dB	296°K	367490 -244 Hz
2029-12-01	Saturday	19:00	110°	+2°	0 dB	0°	110°	+2°	163°	-11°	2.4dB	313°K	364956 +319 Hz
2029-12-01	Saturday	19:30	115°	+7°	0 dB	0°	115°	+7°	170°	-11°	2.4dB	313°K	364875 +307 Hz
2029-12-01	Saturday	20:00	121°	+11°	0 dB	0°	121°	+11°	177°	-11°	2.4dB	313°K	364794 +291 Hz
2029-12-01	Saturday	20:30	127°	+15°	0 dB	0°	127°	+15°	184°	-11°	2.4dB	313°K	364714 +270 Hz
2029-12-01	Saturday	21:00	133°	+19°	0 dB	0°	133°	+19°	192°	-11°	2.4dB	313°K	364634 +245 Hz
2029-12-01	Saturday	21:30	140°	+22°	0 dB	0°	140°	+22°	199°	-12°	2.4dB	313°K	364554 +217 Hz
2029-12-01	Saturday	22:00	147°	+25°	0 dB	0°	147°	+25°	206°	-12°	2.4dB	313°K	364475 +186 Hz
2029-12-01	Saturday	22:30	154°	+28°	0 dB	0°	154°	+28°	213°	-12°	2.4dB	312°K	364396 +152 Hz
2029-12-01	Saturday	23:00	162°	+29°	0 dB	0°	162°	+29°	220°	-12°	2.4dB	312°K	364318 +116 Hz
2029-12-01	Saturday	23:30	170°	+30°	0 dB	0°	170°	+30°	228°	-12°	2.4dB	312°K	364240 +79 Hz
2029-12-02	Sunday	00:00	179°	+31°	0 dB	0°	179°	+31°	235°	-12°	2.4dB	311°K	364163 +41 Hz
2029-12-02	Sunday	00:30	187°	+30°	0 dB	0°	187°	+30°	242°	-12°	2.4dB	311°K	364086 +4 Hz
2029-12-02	Sunday	01:00	195°	+29°	0 dB	0°	195°	+29°	249°	-12°	2.4dB	311°K	364010 -34 Hz
2029-12-02	Sunday	01:30	203°	+28°	0 dB	0°	203°	+28°	257°	-12°	2.4dB	310°K	363934 -70 Hz
2029-12-02	Sunday	02:00	210°	+25°	0 dB	0°	210°	+25°	264°	-13°	2.3dB	310°K	363858 -104 Hz
2029-12-02	Sunday	02:30	218°	+22°	0 dB	0°	218°	+22°	271°	-13°	2.3dB	310°K	363783 -135 Hz
2029-12-02	Sunday	03:00	224°	+19°	0 dB	0°	224°	+19°	278°	-13°	2.3dB	309°K	363709 -164 Hz
2029-12-02	Sunday	03:30	230°	+15°	0 dB	0°	230°	+15°	286°	-13°	2.3dB	309°K	363635 -189 Hz
2029-12-02	Sunday	04:00	236°	+11°	0 dB	0°	236°	+11°	293°	-13°	2.3dB	309°K	363562 -211 Hz
2029-12-02	Sunday	04:30	242°	+7°	0 dB	0°	242°	+7°	300°	-13°	2.3dB	308°K	363489 -228 Hz

