

WAKE Known possible A3 signal sources within 15 kHz of 3105 kHz
 Minimum noise level: -163.6 dBw (ITU-R P.372-8 Quiet Rural Man-made noise)
 Sunset 0736Z
 Sunrise 1820Z

Name	Quarry Hts	Melbourne	Navarin	Stalino	Gardner	Oust-Kiakhta	San Diego	L.A.	SanFran	Seattle	Billings
Call Sign	(Army Air)	3AR	UGU1	RW26	KHAQQ	UTC	SAN	LAX	SFO	SEA	UQP1
Freq, kHz	3100	3100	3100	3104	3105	3105	3105	3105	3105	3105	3110
Latitude	8-57N	38-47S	62-17N	47-59N	4-40S	50-13N	32-48N	34-06N	37-48N	47-48N	69-53N
Longitude	79-33W	144-58E	179-04E	37-48E	174-32W	106-17E	117-06W	118-24W	122-24W	122-18W	176-05E
Sunset	2341Z	0712Z	0954Z	1731Z	0538Z	1307Z	0300Z	0309Z	0335Z	0408Z	SSSSS
Sunrise	1104Z	2136Z	1420Z	0134Z	1747Z	2051Z	1245Z	1247Z	1253Z	1219Z	SSSSS
Bearing	73	200	8	328	140	319	62	60	57	45	4
Distance, nmi	6533	3642	2659	5923	1810	3408	4138	4053	3825	3805	3079
Power, W	75	70	40	600	50	60	50	50	50	50	40
Power, dBw	18.8	18.5	16.0	27.8	17.0	17.8	17	17	17	17	16.0
Rcvr Sel Loss, dB	23	23	23	0	0	0	0	0	0	0	23
Min Loss (FS) db	123.9	118.8	116.1	123.1	112.8	118.3	120.0	119.8	119.3	119.2	117.4
Max SNR (FS) dB	35.4	40.2	40.5	68.3	67.8	63.1	60.6	60.8	61.3	61.4	39.2

July 4 1210Z	No bearing. Several fones heard in vicinity of 3105.										
Required SNR dB	41	41	41	41	41	41	41	41	41	41	41
Mean SNR dB	-83	1	-5	-164	8	-17	-13	-12	-11	-9	-4
Adj Mean SNR dB	-106	-22	-28	-164	8	-17	-13	-12	-11	-9	-27
90th Pctile incr dB	7.7	7.7	16.1	7.9	12.5	9.7	11.0	11.6	13.0	11.5	10.5
Sigma SNR dB	6.0	6.0	12.6	6.2	9.8	7.6	8.6	9.1	10.2	9.0	8.2
Std Devs Rqrd	24.4	10.5	5.5	33.2	3.4	7.7	6.3	5.8	5.1	5.6	8.3
Reception case	2	2	2	2	2	2	2	2	2	2	2
Reception Prob	2.07E-450	5.76E-26	2.06E-08	3.25E-242	3.62E-04	9.77E-15	1.65E-10	2.48E-09	1.53E-07	1.31E-08	5.68E-17

WAKE	Quarry Hts	Melbourne	Navarin	Stalino	Gardner	Oust-Kiakhta	San Diego	L.A.	SanFran	Seattle	Billings
July 4 1215Z	No bearing. Intermittent wobbly fone on 3105.										
Required SNR dB	41	41	41	41	41	41	41	41	41	41	41
Mean SNR dB	-83	1	-5	-164	8	-17	-13	-12	-11	-9	-4
Adj Mean SNR dB	-106	-22	-28	-164	8	-17	-13	-12	-11	-9	-27
90th Pctile incr dB	7.7	7.7	16.1	7.9	12.5	9.7	11.0	11.6	13	11.5	10.5
Sigma SNR dB	6.0	6.0	12.6	6.2	9.8	7.6	8.6	9.1	10.2	9.0	8.2
Std Devs Rqrd	24.4	10.5	5.5	33.2	3.4	7.7	6.3	5.8	5.1	5.6	8.3
Reception case	2	2	2	2	2	2	2	2	2	2	2
Reception Prob	2.07E-450	5.76E-26	2.06E-08	3.25E-242	3.62E-04	9.77E-15	1.65E-10	2.48E-09	1.53E-07	1.31E-08	5.68E-17
July 4 1524Z	No signal heard. Midway hears signal on 3105, too weak for bearing. Mokapu got bearing 213 on weak and swinging signal "close to 3105" at 1523Z										
Required SNR dB	41	41	41	41	41	41	41	41	41	41	41
Mean SNR dB	-268	-10	5	-69	6	-17	-60	-57	-23	-28	-6
Adj Mean SNR dB	-291	-33	-18	-69	6	-17	-60	-57	-23	-28	-29
90th Pctile incr dB	10.5	10.6	9.9	9.4	12.4	12.9	16.1	16.4	8.7	8.9	9.7
Sigma SNR dB	8.2	9.5	7.7	7.3	9.7	10.1	12.6	12.8	6.8	7.0	7.6
Std Devs Rqrd	40.5	7.8	7.6	15.0	3.6	5.8	8.0	7.6	9.4	9.9	9.2
Reception case	2	2	2	2	2	2	2	2	2	2	2
Reception Prob	6.87E-682	3.36E-15	1.19E-14	5.06E-51	1.51E-04	4.33E-09	4.88E-16	1.01E-14	2.34E-21	1.64E-23	1.27E-20
July 5 0948Z	No bearing, listening watch only. Phone signal, good intensity well modulated by voice, wavering badly. QSA5 to 0950Z, then QSA2. Off at 0952Z.										
Required SNR dB	43	43	43	43	43	43	43	43	43	43	43
Mean SNR dB	-38	-5	8	-295	18	-16	-15	-13	-9	-10	9
Adj Mean SNR dB	-61	-28	-15	-295	18	-16	-15	-13	-9	-10	-14
90th Pctile incr dB	11.2	13.0	11.1	8.3	10.6	8.5	15.5	15.8	13.7	13.3	9.4
Sigma SNR dB	8.5	10.2	8.7	6.5	8.3	6.6	12.1	12.3	10.7	10.4	7.3
Std Devs Rqrd	12.2	7.0	6.7	52.1	3.0	8.9	4.8	4.5	4.9	5.1	7.8
Reception case	2	2	2	2	2	2	2	2	2	2	2
Reception Prob	1.01E-34	1.37E-12	1.13E-11	0.00E+00	1.26E-03	3.20E-19	8.35E-07	2.86E-06	5.91E-07	1.69E-07	4.19E-15
July 5 1223Z	Approx brng 144 very unsteady A3 signal lasting until 1236Z. "Splits were definite and pretty fair" although no call letters were heard.										
Required SNR dB	45	45	45	45	45	45	45	45	45	45	45
Mean SNR dB	-86	-4	-5	-182	10	-5	-12	-12	-10	-9	-2
Adj Mean SNR dB	-109	-27	-28	-182	10	-5	-12	-12	-10	-9	-25
90th Pctile SNR dB	7.3	10.1	16.3	7.9	10.8	7.6	10.7	11.1	12.5	11.2	9.7
Sigma SNR dB	5.7	7.9	12.7	6.2	8.4	5.9	8.4	8.7	9.8	8.8	7.6
Std Devs Rqrd	27.0	9.1	5.7	36.8	4.1	8.4	6.8	6.6	5.6	6.2	9.2
Reception case	2	2	2	2	2	2	2	2	2	2	2
Reception Prob	6.86E-161	3.59E-20	4.95E-09	1.95E-296	1.67E-05	1.87E-17	4.59E-12	2.47E-11	8.90E-09	3.38E-10	1.27E-20

