

APPENDIX A: DATA DESCRIPTION SPREADSHEET

1-2 GHz	Bearing	Max SPFD	@ MHz	Comments
	OMNI	-140.51	1135	Strong DME stuff 1000-1150, esp @ 1030 & 1090 MHz. GPS L2 @ 1228, radars 1250-1350, Iridium @ 1621-1627, USFS uWave links > 1690.
20020807				
20020806	OMNI	-140.15	1146	Same as 20020807 + strong 1-2 noise at 1830 UTC--? Due to channelized activity @ 1800-1900 MHz at that time?
20020805	OMNI	-137.14	1621	Same as 20020807
20020804	OMNI	-140.42	1146	Same as 20020807
20020803	OMNI	-140.35	1140	Same as 20020807
20020802	OMNI	-140.36	1085	Same as 20020807
	OMNI	-140.09	1217	Same as 20020807 + GPS L2 jamming @ 1800 & 1900 UTC? Note also channelized activity at 2230 & 2300, from 1800-1900 MHz.
20020801				
20020731	OMNI	-139.96	1135	Same as 20020807
20020730	OMNI	-140.16	1147	Same as 20020807 + strong broadband noise cent @ 1200 MHz from 1500-1600 UTC.
20020729	OMNI	-140.03	1141	Same as 20020807
20020728	OMNI	-140.32	1146	Same as 20020807
20020727	OMNI	-137.89	1632	Same as 20020807
20020807				

2-3 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-136.83	2709	20030109 notes + Moderate to strong stepped CWs as wide as 900 MHz throughout the day from 2100-2900 MHz
20030119	OMNI	-135.89	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2450-3000 MHz
20030118	OMNI	-135.29	2710	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2450-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz at 0030 & 0700 UTC.
20030117	OMNI	-134.68	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2600-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz at 0200 UTC.
20030116	OMNI	-134.33	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2450-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz at 1700 UTC.
20030115	OMNI	-134.78	2742	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2600-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz between 0000 & 0200 UTC.
20030114	OMNI	-134.82	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2450-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz throughout day.
20030113	OMNI	-135.09	2709	20030109 notes + Moderate to strong stepped CWs as wide as 200 MHz throughout the day from 2700-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz @ 16300 UTC.
20030112	OMNI	-135.72	2710	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2350-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz throughout day.
20030111	OMNI	-135.29	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2700-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz throughout day.
20030110	OMNI	-134.92	2709	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2700-2900 MHz + V-strong 10 Mhz-wide burst @ 2460 MHz @ 1500 UTC.
20030109	OMNI	-134.07	2742	DAS moderate and continuous 2320-2345 MHz. Continuous 3 MHz wide strong sig at 2710 MHz. Intermittent strong 1 MHz wide RFI @ 2810 MHz + 20030108 notes.
20030108	OMNI	-133.72	2742	20030109 notes + Moderate to strong stepped CWs as wide as 400 MHz throughout the day from 2500-3000 MHz
20030107	OMNI	-134.99	2709	Same
20030106	OMNI	-133.74	2742	Same except stepped CWs only from 2700-2800 MHz almost continuous from 1630-2300 UTC
20030105	OMNI	-133.64	2454	Same as 20020109/20030108 except only 1 150 MHz span of moderate stepped CW at 0800, + v-strong 50 MHz wide cent at 2460 @ 2000.
20030104	OMNI	-134.38	2742	Same as 20020109/20030108 except only 1 150 MHz span of moderate stepped CW at 0800, + v-strong 10 MHz wide cent at 2455 @ 0030.
20030103	OMNI	-130.34	2464	Same as 20020109/20030108
20030102	OMNI	-137.07	2709	Same
20030101	OMNI	-138.01	2710	Same
20021231	OMNI	-135.22	2709	Moderate possible multi-channel CW's to about 25MHz wide persistant all day
20021231	OMNI	-135.43	2710	Strong CW persistent all day
20021231	OMNI	-135.63	2709	Strong CW persistent all day; shifts frequency +40MHz at ~1330 continued till 1800 UTC, then shifted back
20021231	OMNI	-135.77	2710	Weak to moderate broadband RFI from 2700 to 2900MHz
20021230	OMNI	-134.34	2742	Moderate possible multi-channel CW's to about 25MHz wide persistent all day
20021230	OMNI	-135.12	2742	Strong CW persistent all day
20021230	OMNI	-135.13	2742	Strong CW persistent all day; shifts frequency +40MHz at ~1500 continued till 2200, then shifted back
20021230	OMNI	-135.53	2742	Weak to moderate broadband RFI from 2800 to 2900MHz
20021229	OMNI	-134.66	2709	Moderate possible multi-channel CW's to about 25MHz wide persistent all day
20021229	OMNI	-135.78	2709	Strong CW persistent all day
20021229	OMNI	-135.92	2710	Strong CW persistent all day
20021229	OMNI	-136.12	2709	Weak to moderate broadband RFI from 2800 to 2900MHz

20021228	OMNI	-137.15	2709	Moderate possible multi-channel CW's to about 25MHz wide persistent all day
20021228	OMNI	-138.10	2709	Strong CW persistent all day
20021228	OMNI	-138.34	2710	Strong CW persistent all day
20021228	OMNI	-138.47	2710	Weak to moderate broadband RFI from 2800 to 2900MHz
20021227	OMNI	-137.51	2710	DAS moderate, continuous 2320-2345 MHz. Continuous 3 MHz wide strong RFI at 2710 MHz. Intermittent strong 1 MHz wide RFI @ 2810 MHz.

SUMMARY

2325-2350 Moderate to Strong Multi-Channel CW persistent all day every day.
2710 Strong Persistent CW with a possible second channel at 2740MHz
(2740)
Present all day every day during survey on one or the other channels

2810 Strong Persistent CW at 2810 MHz, present all day every day during survey
Possible second channel at around 2795 MHz.

2600-2640 Very Weak Intermittent CW's at varying frequencies in this range.

2450-2900 Moderate to Strong Frequency Hopping CW occurs at varying times of day
every day in survey. Covers different BW in each 5min. Period it was seen.
BW varies from ~10MHz to as much as ~500MHz.

2900 Weak CW intermittent in plots, maybe due to low sensitivity and low signal strength.

3-4 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-159.15	3214	
20030119	OMNI	-158.93	3292	
20030118	OMNI	-154.22	3263	Stepped CW from 3000-3300 MHz @ 2100 UTC.
20030117	OMNI	-125.56	3220	Strong 10 Mhz wide hits @ 3225 MHz @ 1800 UTC & @ 3380 @ 2100.
20030116	OMNI	-118.1	3381	Numerous v-strong 10 MHz wide hits from 3200-3400 MHz from 1600-2200 UTC.
20030115	OMNI	-119.09	3220	Numerous v-strong 10 MHz wide hits from 3200-3400 MHz from 1600-2200 UTC.
20030114	OMNI	-118.48	3351	Numerous v-strong 10 MHz wide hits from 3200-3400 MHz from 1500-2200 UTC.
20030113	OMNI	-118.24	3350	3 strong 10 Mhz wide hits from 3200-3400 MHz from 2100-2400 UTC.
20030112	OMNI	-159.28	3335	
20030111	OMNI	-159.46	3309	
20030110	OMNI	-159.14	3439	
20030109	OMNI	-119.95	3349	Weak swept CW from 3000-3350 MHz at 1600. Very strong 10 - 50 MHz wide multiple RFI hits centered at 3350 throughout the local afternoon.
20030108	OMNI	-138.08	3381	1 Strong 10 MHz wide hit at 3380 MHz at 0115 UTC.
20030107	OMNI	-118.89	3221	Multiple strong to very strong 10-20 MHz RFI hits at 3225 MHz, late morning through afternoon local time.
20030106	OMNI	-118.68	3351	2 strong to very strong 10-20 MHz RFI hits at 3225 MHz, late morning through afternoon local time. Swept CW 100 MHz wide cent at 3650 all afternoon.
20030105	OMNI			
20030104	OMNI	-118.47	3251	Strong Broadband RFI from 3200 to 3300 at 1920 UTC
20030103	OMNI	-117.95	3380	Strong to very strong swept CW RFI, 10-20 MHz wide in 3200-3400 MHz region from 1600-2100 UTC.
20030102	OMNI			
20030101	OMNI			
20021231	OMNI			
20021230	OMNI	-118.85	3200	Strong Broadband RFI from 3200 to 3300 at 1630, 1950, 2010 UTC
20021229	OMNI	-152.90	3249	Moderate Broadband RFI from 3000 to 3350MHz at 2110 UTC
20021229	OMNI	-153.35	3325	Moderate Broadband RFI from 3000 to 3350MHz at 0210 UTC
20021228	OMNI			
20021227	OMNI			

All appear to be frequency stepping CW over large frequency range with varying step size.

4-5 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-147.2	4326	Moderate to strong broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030119	OMNI	-154.12	4318	Weak to moderate broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030118	OMNI	-147.5	4306	Moderate to strong broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030117	OMNI	-152.98	4326	Weak to moderate broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030116	OMNI	-148.44	4299	Weak to moderate broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030115	OMNI	-154.54	4994	Weak to moderate broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030114	OMNI	-144.94	4289	Moderate to very strong broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW. + 10 MHz wide strong hit at 4860 & 5000 MHz @ 0115 UTC
20030113	OMNI	-147.27	4321	Moderate to very strong broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030112	OMNI	-144.2	4319	Moderate to very strong broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030111	OMNI	-140.65	4325	Weak to Moderate Broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030110	OMNI	-153.67	4326	Weak to Moderate Broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030109	OMNI	-152.72	4315	Weak to Moderate Broadband RFI from 4250 to 4350 throughout the day. Sharp fq edges: appears to be swept CW.
20030108	OMNI	-148.30	4358	Moderate to Strong Broadband RFI from 4250 to 4400 MHz throughout the day--Esp strong @ 0515
20030107	OMNI	-152.80	4321	Weak to Moderate Broadband RFI from 4250 to 4350 throughout the day.
20030106	OMNI	-144.92	4900	Moderate to Strong Broadband RFI from 4250 to 4400 MHz throughout the day--Esp strong @ 0545. Much broadband RFI 4500-4650 from 1600 - 2200 UTC.
20030105	OMNI	-151.11	4325	Moderate to strong Broadband RFI from 4250 to 4350 throughout the day.
20030104	OMNI	-147.09	4317	Moderate to strong Broadband RFI from 4250 to 4350 throughout the day.
20030103	OMNI	-148.86	4278	Weak to strong Broadband RFI from 4250 to 4350 throughout the day.
20030102	OMNI	-152.33	4341	Weak to strong Broadband RFI from 4250 to 4350 throughout the day.
20030101	OMNI	-145.48	4324	Weak to strong Broadband RFI from 4250 to 4350 throughout the day.
20021231	OMNI	-147.41	4000	Strong to very strong Broadband RFI from as low as 4000 to as high as 4350MHz at different times all day long
20021230	OMNI	-154.46	4200	Weak to Moderate Broadband RFI from 4200 to 4350 from 0130 to 0600 UTC
20021229	OMNI	-146.32	4200	Moderate to Strong Broadband RFI from 4200 to 4350MHz at 0115, 0215, 0315, 0515, 0530, 0615, 0815, 1315, 1715, 1815, 1830 UTC
20021228	OMNI	-146.66	4200	Moderate to Strong Broadband RFI from 4200 to 4350MHz at 0115, 0515, 0530, 1530, 1815,1830, 2030, 2315 UTC

5-6 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-134.25	5440	Strong impulse hits at 5450 & 5600 MHz a couple times.
20030119	OMNI	-149.6	5987	
20030118	OMNI	-149.64	5998	
20030117	OMNI	-149.47	5994	
20030116	OMNI	-149.07	5991	
20030115	OMNI	-148.59	5440	Strong impulse hits at 5450 MHz @1820 UTC.
20030114	OMNI	-147.41	5009	10 MHz wide strong hit at 5000 MHz @ 0115 UTC
20030113	OMNI	-149.91	5990	
20030112	OMNI	-149.09	5994	
20030111	OMNI	-148.95	5994	
20030110	OMNI	-141.46	5440	Strong impulse hits at 5450 & 5600 MHz a couple times.
20030109	OMNI	-143.02	5441	Low CW hit @ 5440 MHz @ 1820 UTC.
20030108	OMNI	-123.86	5441	Strong CW @ 5440 MHz throughout day.
20030107	OMNI	-140.27	5440	Strong CW @ 5440 MHz throughout day, + swept CW from 5000 - 5400 MHz @ 2400 UTC.
20030106	OMNI	-147.39	5514	Moderate CW @ 5380 MHz 1600 - 2000 UTC, + swept CW from 5000 - 5300 MHz @ 1750 UTC.
20030105	OMNI	-135.91	5440	Moderate swept CW from 5000 - 5400 MHz @ 2115 UTC.
20030104	OMNI	-129.52	5440	Strong CW @ 5440 MHz during night.
20030103	OMNI	-138.39	5470	Moderate swept CW from 5000 - 5400 MHz @ 0030 UTC, _ misc other short CW hits.
20030102	OMNI			
20030101	OMNI			
20021231	OMNI			
20021230	OMNI	-146.23	5440	Strong CW hit @ 5440 MHz @ 0340 UTC.
20021229	OMNI	-149.79	5000	Moderate Broadband RFI from 5000 to 5150 MHz at 0600 UTC
20021228	OMNI	-149.52	5000	Moderate Broadband RFI from 5000 to 5350MHz at 0730 UTC

6-7 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-143.69	6795	
20030119	OMNI	-143.96	6759	Maybe moderate impulse @ 6475 MHz @ 2100 UTC.
20030118	OMNI	-143.55	6760	
20030117	OMNI	-143.59	6412	
20030116	OMNI	-142.91	6917	
20030115	OMNI	-143.88	6412	
20030114	OMNI	-143.65	6387	
20030113	OMNI	-143.81	6894	
20030112	OMNI	-143.63	6895	
20030111	OMNI	-143.76	6804	
20030110	OMNI	-143.57	6845	
20030109	OMNI			
20030108	OMNI			
20030107	OMNI			
20030106	OMNI			
20030105	OMNI			
20030104	OMNI	-142.62	6340	moderate strength stepped CW from 6000 - 6350 multiple times during mid day.
20030103	OMNI	-103.50	6673	Very strong , wide sigs at 6570 & 6770 MHz @ around 1825 UTC, probably a swept CW.
20030102	OMNI			
20030101	OMNI			
20021231	OMNI			
20021230	OMNI	-110.28	6471	Very strong , wide sigs at 6570 & 6770 MHz @ 1630 & 2100 UTC, probably a swept CW.
20021229	OMNI			
20021228	OMNI			
20020626	OMNI	-141.87	5500	Stong Multi Channel CW with 10MHz steps from 5500 to 5800 MHz at 1740 UTC

7-8 GHz	Bearing	Max SPFD	@ MHz	Comments
20030120	OMNI	-144.63	7043	
20030119	OMNI	-144.39	7054	
20030118	OMNI	-144.38	7052	
20030117	OMNI	-144.41	7004	
20030116	OMNI	-144.15	7047	
20030115	OMNI	-144.47	7052	
20030114	OMNI	-144.65	7053	
20030113	OMNI	-143.58	7077	
20030112	OMNI	-144.43	7053	
20030111	OMNI	-144.45	7052	
20030110	OMNI	-140.08	7053	Moderate power swept CW from 7040-7140 MHz @ 2300 UTC.
20030109	OMNI			
20030108	OMNI			
20030107	OMNI	-144.44	7080	A few short moderate power CWs, scattered near 7950
20030106	OMNI	-144.45	7054	A few short moderate power CWs, scattered near 7750
20030105	OMNI			
20030104	OMNI			
20030103	OMNI	-145.17	7004	A few short moderate power CWs, scattered near 7050 & 7100
20030102	OMNI	-146.74	7052	A few short moderate power CWs, scattered near 7050 & 7100
20030101	OMNI			
20021231	OMNI			
20021230	OMNI			
20021229	OMNI			
20021228	OMNI			
20021227	OMNI			
20020916	OMNI			
20020830	OMNI			
20020829	OMNI			
20020828	OMNI			
20020827	OMNI			
20020826	OMNI			
20020825	OMNI			
20020824	OMNI			
20020823	OMNI			
20020818	OMNI			
20020817	OMNI			
20020816	OMNI			

8-9 GHz	Bearing deg.	Max. SPFD	MHz	Comment
20021112	225			
20021111	225			
20021110	225			
20021109	225			
20021108	225	-145.53	8800	Stepped CW's at ~1MHz steps from 8800 to 9000 MHz from 1700-2000 UTC
20021107	225	-145.08	8800	Sporatic Weak and Moderate CW's at various frequencies from 8800 to 9000MHz from 1900 to 2400 UTC
20021106	225			
20021105	225	-150.14	8600	Sporatic Moderate CW's at various frequencies in the band at around 1500 UTC and 2300 UTC
20021104	225			
20021103	225	-161.57	8000	Weak Broadband RFI from 8000 to 8100MHz at 0330 UTC
20021102	225			
20021101	225	-148.68	8700	moderate and strong frequency hopping CW from 8600 to 8800 MHz at 1630 UTC
20021029	225	-147.35	8825	moderate and weak intermitent CW's at varying frequencies around 8825MHz from 8700 to 8900 MHz at 1930 UTC
20021028	225			
20021027	225	-158.83	8000	weak Broadband RFI from 8000 to 8050MHz at 2325 UTC
20021026	225			
20021025	248	-147.22	8800	moderate power broadband RFI from 8700 to 8900 MHz from 0000 to 0200 UTC
20021024	270	-146.79	8525	Strong CW at 8525 from 1500-1800UTC, Strong Broadband RFI from 8550-9000MHz at 2300UTC
20021023	292	-147.45	8000-9000	Strong stepped CW from 8 to 9 GHz, maintainance day RFI testing by IP Office
20021022	315	-147.42	8800	Strong stepped CW from 8600 to 8900MHz at 1630UTC
20021021	337	-147.16	8800	Weak to Moderate Broadband Intermitent RFI from 8600 to 9000 MHz from 2230-2400UTC
20021020	337			
20021019	337			
20021018	337			
20021017	0			
20021016	22	-147.61	8200	Weak broadband RFI from 8200 to 8500 at 1805 UTC
20021016	22		8700	Strong to moderate broadband RFI from 8650 to 9000GHz possible 1MHz stepping CW at 1630 and 1930 UTC
20021015	45	-147.25	8650	Strong broadband RFI from 8650 to 9000GHz possible 1MHz stepping CW from 1810 to 2000 UTC
20021014	45	-153.02	8600	Moderate to Strong CW's at multiple frequencies, 1hit each freq. From 8600 to 8950 MHz at 2000 UTC
20021013	45			
20021012	45			
20021011	68			
20021010	90	-148.24	8605	
20021009	90			
20020814	OMNI			
20020815	OMNI			
20021003	OMNI		8350	moderate to strong RFI 50 -100MHz wide from 8300 to 8400MHz persists from 15:30 to 24:25UTC
20021003	OMNI		8800	moderate to strong broadband RFI from ~8600--9000MHz persists from 15:30 to 24:25 UTC
20020831	OMNI			
20020901	OMNI			
20020902	OMNI			
20020903	OMNI	-158.85	8800	weak intermitent Broadband RFI from 8700 to 9000MHz at ~1600UTC
20020904	OMNI	-142.47	8800	weak intermitent Broadband RFI from 8700 to 9000MHz at ~1600UTC; STRONG signal seen at all frequencies in band for ~10min. Around 2200UTC

20020905	OMNI
20020906	OMNI
20020907	OMNI
20020908	OMNI
20020909	OMNI
20020910	OMNI

9-10 GHz	Bearing deg.	Max SPFD	@MHz	Comments
20021112	225	-144.43	9159	Typical 9350 and 9700 MHz RFI both signals appear weak, also stepped CW intermitent from 9000-9400MHz
20021111	225	-144.44	9731	Typical 9350 and 9700 MHz RFI both signals appear weak
20021110	225	-144.38	9375	Typical 9350 and 9700 MHz RFI both signals appear weak
20021109	225	-143.86	9362	Typical 9350 and 9700 MHz RFI, much weaker 9700 MHz signal
	225	-143.97	9378	Typical 9350 and 9700 MHz RFI and intermitent weak and moderate CWs at various frequencies below 9400MHz throughout the work day
20021108	225	-143.75	9371	Typical 9350 and 9700 MHz RFI both appear to be weaker, also stepped moderate power CW from 9200-10000 MHz from 1430to 1730 UTC
20021107	225	-142.51	9749	Typical 9350 and 9700 MHz RFI both appear to be weaker, also stepped moderate power CW from 9000-10000 MHz from 1430to 1730 UTC
20021106	225	-143.19	9713	Typical 9350 and 9700 MHz RFI both appear to be weaker, also stepped moderate power CW from 9200-10000 MHz from 1430to 1730 UTC
20021105	225	-145.08	9746	Typical 9350 and 9700 MHz RFI both appear to be weaker, also stepped moderate power CW from 9200-10000 MHz from 1430to 1730 UTC
20021104	225	-145.04	9743	Typical 9350 and 9700 MHz RFI, 9350 signals are extremely weak
20021103	225	-145.02	9741	Typical 9350 and 9700 MHz RFI 9350 signals seem weaker than usual and 9700 MHz signals seem stronger.
20021102	225	-145.06	9767	Typical 9350 and 9700 MHz RFI and stepped CW from 9000-9400 also from 9600-9900MHz weak to moderate at various times during the day, intermitent and short duration.
20021101	225		----	Garbled plot, unreadable
20021031	225	-145.04	INC	Incomplete Plot, typical 9350 and 9700 MHz signals, 9700MHz signals appear stronger and more detailed in terms of frequency resolution.
20021029	225	-145.31	9731	Typical 9350 and 9700MHz RFI
20021028	225	-146.09	INC	Incomplete Plot, typical 9350MHz RFI seen and weaker 9700MHz typical signals
20021027	225	-146.14	INC	Incomplete Plot, typical 9350 RFI seen and broadband or stepped signal at 0030UTC from 9200-9500MHz and 9850-10000MHz
20021026	248	-145.59	9755	Typical 9350 and 9700 MHz RFI and moderate stepped CW as seen on 20021017 at various times during normal work day.
20021025	270	-145.17	9774	Typical 9350 and 9700 MHz RFI and stepped CW from 9200 to 9900MHz at 2030UTC for ~1hr.
20021024	292	-145.37	9742	Typical 9350 and 9700 MHz RFI and mantianance day RFI testing stepped STRONG CW from 9-10GHz at a couple of times during the workday.
20021023	315	-145.51	9742	Typical 9350 and 9700MHz RFI as seen many times in this band in previous days
20021022	337	-145.37	9743	Typical 9350 and 9700 MHz RFI
20021021	337	-145.31	9742	Typical 9350 and 9700 MHz RFI as well as stepped CW from 9-10GHz as on 20021017
20021020	337	-145.41	9742	Typical 9350 and 9700MHz RFI as well as broadband RFI late in the day from 9500 to 10000MHz (intermitent)
20021019	337	-145.31	9752	Typical RFI around 9350 and 9700 as well as intermitent weak and moderate broadband RFI from 9000-9400MHz
20021018	0	-146.55	9382	Moderate stepped CW (50MHz steps) occurs at 1850, 1950, and 2110 UTC
20021017	0	-146.83	9374	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20021017	0	-146.85	9350	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20021016	22	-145.40	9742	Strong stepped CW occurs only at 1630UTC
20021016	22	-145.44	9754	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20021016	22	-145.46	9755	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20021015	45	-145.19	9755	Moderate to strong stepped CW RFI covers entire span at 1810UTC

	45	-145.21	9756	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20021015				
20021015	45	-145.22	9734	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20021014	45	-145.11	9752	Strong stepped CW RFI covers entire span at 2 distinct times 2000 and 2110 UTC possible RFI testing at site.
	45	-145.26	9773	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20021014				
20021014	45	-145.27	9774	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20021013	45	-145.68	INC	Incomplete plot, same patterns seen as all previous days, much weaker.
20021012	45	-145.90	INC	Incomplete plot, same patterns seen as all previous days, much weaker.
20021011	68	-145.52	INC	Incomplete plot, same patterns seen as all previous days, much weaker.
20021010	90	-145.93	INC	Incomplete plot, same patterns seen as all previous days, much weaker.
20021009	90	-145.69	INC	Incomplete plot, same patterns seen as all previous days, much weaker.
20020915	OMNI	-81.09	9353	STRONG! Broadband signal spans nearly entire band for a short time span at 2050 UTC
	OMNI	-81.09	9353	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20020915				
20020915	OMNI	-81.09	9353	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20020914	OMNI	-148.44	9383	Strong Broadband RFI occurs at 2210 UTC
	OMNI	-148.80	9359	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20020914				
20020914	OMNI	-150.07	9372	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
20020913	OMNI	-146.53	9863	Strong Intermitent RFI occurs at 1700-1800 UTC appears to be drifting CW signals at multiple frequencies
	OMNI	-146.60	9862	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20020913				
20020913	OMNI	-150.80	9852	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
	OMNI	-136.99	9351	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20020912				
20020912	OMNI	-140.53	9712	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.
	OMNI	-146.56	9357	Moderate to Strong Broadband RFI (possibly channel hopping) present in the morning and evening, not during lunch or at night
20020911				
20020911	OMNI	-148.17	9351	Moderate to Strong Multiple channel CW's Intermitent but present throughout the day, at least once per hour.

10-11 GHz	Bearing deg.	Max SPFD	@ MHz	Comments
20021112	225	-158.85	10042	Weak CW occurs at 1500UTC
20021111	225			
20021110	225			
20021109	225			
20021108	225	-148.85	10343	Weak to Moderate CW's possibly harmonics/subharmonics of 1 signal, strongest at 100350MHz, occurs at 1950UTC
20021107	225			
20021106	225	-159.44	10131	Weak CW occurs only once during day at 1530UTC
20021105	225	-152.67	10025	Weak to moderate stepped CW from 10000-100250MHz at 1600UTC, short duration
20021104	225			
20021103	225			
20021102	225			
20021101	225			
20021031	225			
20021029	225			
20021028	225			
20021027	225			
20021026	225			
20021025	248			
20021024	270			
20021023	292	-150.36	10447	Strong stepped CW, maintenance day RFI testing.
20021022	315			
20021021	337			
20021020	337			
20021019	337			
20021018	337	-163.16	10955	Very Weak Broadband RFI covers entire band at various times during the day, short duration multiple hits
20021017	0			
20021016	22	-145.45	10525	Single STRONG CW short duration at 1000UTC
20021015	45	-157.61	10050	Weak CW's at 10010, 10050, 10060, and 10100 MHz at 1815 and 1830 UTC
20021014	45	-160.76	10028	Very Weak Broadband RFI covers entire band at various times during the day, short duration multiple hits
20021013	45			
20021012	45			
20021011	68			
20021010	90			
20021009	90			

11-12 GHz	Bearing deg.	Max SPFD	@ GHz	Comments
20021112	225	-151.93	11728	Strong swept CW occurs at 1850 UTC
20021111	225	-152.9	11659	Strong swept CW occurs at 1850 UTC
20021110	225			
20021109	225	-151.46	11718	Strong Swept CW occurs at 2350, less powerful occurrence at 1750 UTC
20021108	225	-151.28	11732	Strong and Moderate swept CW occurs at 0030 and 1730 UTC
20021107	225			
20021106	225	-153.9	11004	Moderate CW occurs briefly at 1730 UTC
20021105	225			
20021104	225			
20021103	225	-152	11188	Moderate swept CW occurs at 1950 UTC
	225	-151.62	11718	Moderate swept CW's one from 11.4-11.7GHz the other at 11.8-12GHz occur at 2230 and 1930 UTC respectively
20021102				
20021101	225			
20021031	225			
20021029	225	-154.51	11561	Moderate power CW's at two distinct frequencies occur at 1315 UTC
20021028	225	-152.18	11718	Strong Swept CW occurs at 1930 UTC
20021027	225	-151.97	11735	Moderate swept CW signal occurs at 2130 UTC
20021026	225			
20021025	248	-152.93	11569	Weak signals appear to be of the same type and time as those from previous day
20021024	270	-150.98	11742	STRONG Broadband 400MHz Wide RFI similar in appearance to that on the 21st occurs from 1400-2300UTC
	292	-151.86	11177	Strong swept CW for RFI testing on Maint. Day. Also, 400MHz Wide RFI of the same type as previous 2 days occurs at 0100 and 0200 UTC
20021023				
20021022	315	-153.46	11663	Weak signals appear to be of the same type and time as those from previous day
	337	-151.29	11738	VERY STRONG Broadband RFI (Channel Hopping/Swept?) occurs from 1400-1700 UTC with weaker signals of the same type later till 2400 UTC
20021021				
20021020	337			
20021019	337	-155.6	11683	Weak broadband RFI covers entire band at various times with short duration
20021018	337	-152.39	11769	Weak and STRONG Broadband RFI occurs between 1800 and 2400 UTC, strongest at 2300 UTC
20021017	0	-155.09	11780	Weak broadband RFI occurs at 0050 UTC
20021016	22	-156.65	11521	Weak Broadband RFI possibly swept CW, occurs intermittently from 1200-1800UTC
20021015	45	-152.37	11646	Weak to Moderate Broadband (swept CW?) RFI occurs at 1230, 1330, 1400, 1700, 1930, 2000, 2350 UTC
20021014	45	-161.28	11410	Very Weak Broadband RFI covers entire band intermittent many times throughout the day
20021013	45	-161.97	11768	Very Weak Broadband RFI covers entire band intermittent many times throughout the day
20021012	45	-155.66	11581	Moderate CW's at 11.5GHz and 11.6GHz at 0800 UTC short duration
20021011	68			
20021010	90			
20021009	90			
20021006	OMNI	-162.55	11711	Weak Broadband RFI occurs at 0300 and 0830 UTC for very short duration
20021005	OMNI			
20021004	OMNI	-162.1	11726	Weak Broadband RFI occurs from 1400-1600UTC

12-13 GHz	Bearing deg.	Max SPFD	@ GHz	Comments
20021226	225			
20021225	225			
20021224	225			
20021223	225			
20021222	225			
20021221	225			
20021220	225			
20021219	225			
20021218	225			
20021217	225			
20021216	225			
20021215	225			
20021214	225			
20021213	225			
20021212	225			
20021211	225			
20021210	225			
20021209	255			
20021208	255			
20021207	255			
20021206	255			
20021205	255			
20021204	120			
20021203	150			
20021202	150			
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210			
20021126	240	-178.73	12185	Strong swept CW occurs briefly at 2200 UTC
20021125	270			
20021124	270	-180.37	12080	Weak Broadband (swept CW?) RFI occurs at 2100 UTC
20021123	270			
20021122	300	-189.42	12181	Weak broadband RFI occurs at 0150 UTC
20021121	330			
20021120	0			
20021119	0	-183.53	12389	Moderate to Strong stepped CW occurs for brief period at 2100 UTC
20021118	30			
20021117	30			
20021116	30			
20021115	60			
20021114	90			
20021113	90			

13-14 GHz	Bearing Deg.	Max SPFD	@ GHz	Comments
20021226	225			
20021225	225			
20021224	225			
20021223	225			
20021222	225			
20021221	225			
20021220	225			
20021219	225	-186.84	13927	Very weak broadband RFI occurs for several hours around 1800 UTC
20021218	225	-190.48	13720	Very weak broadband RFI occurs for several hours around 1800 UTC
20021217	225			
20021216	225			
20021215	225			
20021214	225			
20021213	225			
20021212	225			
20021211	225			
20021210	225			
20021209	255			
20021208	255			
20021207	255			
20021206	255			
20021205	255			
20021204	120			
20021203	150			
20021202	150			
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210	-189.49	13925	Very weak broadband RFI occurs for several hours around 1800 UTC
20021126	240	-176.87	13804	Strong swept CW occurs at 2200 UTC also 2 CW's occur at 0610 UTC at 13.8GHz
20021125	270			
20021124	270			
20021123	270			
20021122	300			
20021121	330	-176.8	13289	Two distinct CW's very near in frequency to each other occur at 0200 UTC
20021120	0			
20021119	0	-186.05	13133	Strong Swept CW occurs at 2100 UTC
20021118	30			
20021117	30			
20021116	30			
20021115	60			
20021114	90			
20021113	90			

14-15 GHz	Bearing Deg.	Max SPFD	@ GHz	Comments
20021226	225	-186.27	14155	Moderate CW occurs at 1300 1400 and 1500 UTC
20021225	225			
20021224	225	-187.16	14144	Moderate CW occurs at 1600 UTC
20021223	225			
20021222	225			
20021221	225			
20021220	225			
20021219	225			
20021218	225			
20021217	225			
20021216	225			
20021215	225			
20021214	225			
20021213	225	-186.05	14149	Moderate CW's occur at 0200 and 2130 UTC
20021212	225	-187.65	14087	Moderate CW occurs at 1800 UTC
20021211	225			
20021210	225			
20021209	255			
20021208	255			
20021207	255	-186.96	14113	Moderate CW occurs at 1400 UTC
20021206	255			
20021205	255			
20021204	120			
20021203	150			
20021202	150			
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210			
20021126	240	-186.74	14643	Moderate stepped CW occurs at 2200 UTC
20021125	270			
20021124	270			
20021123	270			
20021122	300	-185.2	14941	Moderate stepped CW occurs from 2100-2300 UTC
20021121	330			
20021120	0			
20021119	0			
20021118	30			
20021117	30	-185.4	14277	Moderate CW present for ~1hr at 2230 UTC
20021116	30			
20021115	60			
20021114	90	-174.88	14026	2 Strong CW's close in frequency occur at 2130 UTC for short duration
20021113	90			

15-16 GHz	Bearing Deg.	Max SPFD	@ MHz	Comments
20021226	225			
20021225	225			
20021224	225			
20021223	225			
20021222	225			
20021221	225			
20021220	225			
20021219	225			
20021218	225			
20021217	225			
20021216	225			
20021215	225			
20021214	225			
20021213	225			
20021212	225	-175.27	15688	Strong CW occurs at 2030 UTC
20021211	225			
20021210	225			
20021209	255			
20021208	255			
20021207	255			
20021206	255			
20021205	255			
20021204	120			
20021203	150			
20021202	150			
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210			
20021126	240			
20021125	270			
20021124	270			
20021123	270			
20021122	300	-177.01	15340	Moderate to Strong stepped CW occurs from 2130-2230 UTC
20021121	330			
20021120	0			
20021119	0			
20021118	30			
20021117	30			
20021116	30			
20021115	60			
20021114	90			
20021113	90			

16-17 GHz	Bearing	Max SPFD	@ MHz	Comments
20021226	225			
20021225	225			
20021224	225			
20021223	225			
20021222	225			
20021221	225	-180.42	16548	moderate multi-freq CW hits around 16500 MHz at 1900 UTC.
20021220	225	-172.73	16447	moderate multi-freq CW hits around 16500 MHz at 2345 UTC.
20021219	225			
20021218	225	-184.38	16524	weak multi-freq CW hits around 16500 MHz at 0300 UTC.
20021217	225			
20021216	225	-172.41	16452	moderate multi-freq CW hits around 16500 MHz at 2000 UTC.
20021215	225			
20021214	225			
20021213	225	-168.55	16867	numerous moderate and strong multi-freq CW hits around 16850 MHz from 1900-2100 UTC
20021212	225	-168.75	16798	strong multi-freq CW hits around 16500 MHz at 0230 UTC and around 1680 MHz at 2300 and 2000 UTC.
20021211	225	-168.34	16951	moderate CW hits at 16700 and 16850 MHz at 2000 UTC
20021210	225	-171.91	16549	very strong frequency sweeping CW around 16500 MHz at 1700 UTC and around 16900 MHz at 0330 UTC.
20021209	255			
20021208	255			
20021207	255			
20021206	255	-177.26	16866	numerous moderate and strong multi-freq CW hits around 16850 MHz around 2200 UTC
20021205	255			
20021204	120			
20021203	150			
20021202	150	-167.32	16915	strong CW hit at 16912 MHz at 1730 UTC
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210			
20021126	240			
20021125	270			
20021124	270			
20021123	270			
20021122	300	-168.55	16851	strong CW hit at 16850 MHz at 2100 UTC
20021121	330	-167.75	16935	numerous strong multi-freq CW hits from 16700-17000 MHz around 1700 UTC
20021120	0	-183.27	16818	numerous weak multi-freq CW hits from 16700-17000 MHz around 1830 UTC
20021119	0	-182.9	16967	weak to moderate multi-freq CW hits from 16950-17000 MHz around 2330 UTC
20021118	30			
20021117	30			
20021116	30			
20021115	60	-172.88	16471	strong frequency sweeping CW around 16500 MHz at 1700 UTC.
20021114	90	-168.39	16785	regularly spaced strong CW hits from 16700-17000 MHz at 2400 UTC.
20021113	90	-167.59	16896	very strong frequency sweeping CW from 16700-1700 MHz at 1830 UTC.

17-18 GHz	Bearing	Max SPFD	@ MHz	Comment
20021226	225	-186.17	17600	Weak, CW at 17600 GHz at 1715 UTC. 2 hits.
20021225	225			
20021224	225			
20021223	225			
20021222	225			
20021221	225			
20021220	225			
20021219	225			
20021218	225			
20021217	225			
20021216	225			
20021215	225			
20021214	225			
20021213	225			
20021212	225			
20021211	225			
20021210	225			
20021209	255			
20021208	255			
20021207	255			
20021206	255			
20021205	255			
20021204	120			
20021203	150			
20021202	150			
20021201	180			
20021130	180			
20021129	180			
20021128	180			
20021127	210			
20021126	240	-187.91	17478	Weak, broadband RFI at 1950 UTC. 1 hit.
20021125	270			
20021124	270			
20021123	270			
20021122	300	-181.47	17199	weak to moderate CW at 17600 GHz at 0000, 1900, & 2100 UTC
20021121	330			
20021120	0	-185.46	17600	weak to moderate CW at 17600 GHz throughout the day
20021119	0	-185.79	17600	weak to moderate CW at 17600 GHz from 1700-1900 UTC
20021118	30			
20021117	30			
20021116	30			
20021115	60	-185.01	17600	weak to moderate CW at 17600 GHz throughout the day. weak to moderate CW at 17800 GHz from 0330-0600 UTC.
20021114	90			
20021113	90	-172.78	17005	2 strong CWs at 17010 and 17015 GHz at 1800 UTC. 1 hit.

