

LOG BOOK

Heliopolis (site 515)

From: April 17, 1969

To : September 15, 1973

VOL III

This log was kept by Joel Deuter and James Rutherford.

*See Graf and Bracewell, "Synoptic Maps of Solar 9.1 cm
Microwave Emission from June 1962 to August 1973", Report UAG-44
World Data Center A for Solar-Terrestrial Physics, Boulder, Colorado, May
1975.*

2

TIME

EVENT

ANTENNA

DATE	P.S.T.	TRANSIT		S	H.A.	CONFIGURA
THU 17 APR 69	0950	1208.2	SOLAR PATROL	10.5°	AUTO	EW ARRAY
THU 17 APR 69	1204	1208.2	SUN MAP	10.5	"	CROSS
FRI 18 APR 69	0925	1208.0	SOLAR PATROL	11.0	"	EW ARR. 1
FRI 18 APR 69	1206	1208.0	SUN MAP	11.0	"	CROSS
SAT 19 APR 69	1206	1207.8	SUN MAP	11.5	"	CROSS
SUN 20 APR 69	1206	1207.6	SUN MAP	11.5	"	CROSS
MON 21 APR 69	1105	1207.4	SOLAR PATROL	12.0°	"	EW ARRAY
MON 21 APR 69	1205	1207.4	SUN MAP	12.2	"	CROSS
TUE 22 APR 69	0930	1207.2	SOLAR PATROL	12.2	"	EW ARRAY
TUE 22 APR 69	1205	1207.2	SUN MAP	12.2	"	CROSS
WED 23 APR 69	1030	1207.0	SOLAR PATROL	12.8	"	EW ARRAY
WED 23 APR 69	1205	1207.0	SUN MAP	12.8	"	EW CROSS
THU 24 APR 69	0908	1206.8	SOLAR PATROL	12.8	"	EW ARRAY
FRI 24 APR 69	1205	1206.8	SUN MAP	12.8	"	CROSS
FRI 25 APR 69	0810	1206.6	SOLAR PATROL	13.5	"	EW ARRAY
FRI 25 APR 69	1205	1206.6	SUN MAP	13.5	"	CROSS
SAT 26 APR 69	1205	1206.5	SUN MAP	13.5	"	CROSS
SUN 27 APR 69	1204	1206.3	SUN MAP	14.0	"	CROSS
MON 28 APR 69	1204	1206.2	SUN MAP	14.5	"	CROSS
MON 28 APR 69	1315	1206.2	SOLAR PATROL	14.5	"	EW ARRAY
TUE 29 APR 69	1204	1206.0	SUN MAP	14.5	"	CROSS
TUE 29 APR 69	1320	1206.0	SOLAR PATROL	14.5	"	EW ARRAY
WED 30 APR 69	1204	1205.9	SUN MAP	15.0	"	EW ARRAY
WED 30 APR 69	1330	1205.9	SOLAR PATROL	15.0	"	CROSS
THU 1 MAY 69	0930	1205.8	SOLAR PATROL	15.0	"	EW ARRAY
THU 1 MAY 69	1204	1205.8	SUN MAP	15.2	"	CROSS
FRI 2 MAY 69	0810	1205.6	SOLAR PATROL	15.6	"	EW ARR. 1
FRI 2 MAY 69	1204	1205.6	SUN MAP	15.6	"	CROSS
SAT 03 MAY 69	1204	1205.5	SUN MAP	16.0	"	CROSS
SUN 04 MAY 69	1203	1205.4	SUN MAP	16.0	"	CROSS
MON 05 MAY 69	1203	1205.3	SUN MAP	16.5	"	CROSS
MON 05 MAY 69	1330	1205.3	SOLAR PATROL	"	"	EW ARRAY
TUE 06 MAY 69	1203	1205.3	SUN MAP	"	"	CROSS
TUE 06 MAY 69	1330	1205.3	SOLAR PATROL	"	"	EW ARRAY
WED 07 MAY 69	0850	1205.2	SOLAR PATROL	17.0°	"	EW ARRAY
WED 07 MAY 69	1203	1205.2	SUN MAP	17.0	"	CROSS
THU 08 MAY 69	0818	1205.1	SOLAR PATROL	17.0	"	EW ARRAY
THU 08 MAY 69	1203	1205.1	SUN MAP	17.0	"	CROSS
FRI 9 MAY 69	0820	1205.1	SOLAR PATROL	17.5	"	EW ARRAY
FRI 9 MAY 69	1203	1205.1	SUN MAP	17.5	"	CROSS
SAT 10 MAY 69	1203	1205.0	SUN MAP	18.0	"	CROSS
SUN 11 MAY 69	1203	1205.0	SUN MAP	18.0	"	CROSS
MON 12 MAY 69	1203	1205.0	SUN MAP	18.5	TRACK	CROSS
MON 12 MAY 69	1315	1205.0	SOLAR PATROL	18.5	TRACK	EW ARRAY

RECEIVER		RECORDER					REMARKS	OBSA
AF	T	GAIN	ATTN	CHART SPEED	CAL	ORANE FLUX		
0.5	1-SEC	0db	-25db	3"/hr	—	—	Replaced 2 couplers	JR
"	"	-16db	00/65	3"/min	106/116	157	T.T.	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/63	3"/min	107/112	152	T.T. RFF during map	JR
"	"	"	00/64	"	107/115	145	T.T.	JR
"	"	"	00/66	"	107/113	148	T.T.	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/66	3"/min	108/105	156	T.T. Flare w limb start of map	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/68	3"/min	108/112	148	T.T.	JR
"	"	0db	-25db	3"/hr	—	—	56¢ shifted jumped 1 pulse	JR
"	"	-16db	00/56	3"/min	108/109	142	T.T.	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/58	3"/min	109/113	143	T.T.	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/60	3"/min	109/115	148	T.T. small Flare after map	JR
"	"	"	00/68	"	109/113	142	T.T.	JR
"	"	"	00/62	"	109/110	133	T.T.	JR
"	"	"	00/62	"	110/112	133	T.T.	J.D.
"	"	-25db	00/00	3"/hr	—	—		J.D.
"	"	16db	00/62	3"/hr	110/113	126	T.T.	J.D.
"	"	-25db	00/00	3"/hr	—	—		J.D.
"	"	-16db	00/54	3"/min	110/111	127	T.T.	J.D.
"	"	-25db	00/00	3"/hr	—	—		J.D.
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/53	3"/min	110/114	123	T.T.	JR
"	"	0db	-25db	3"/hr	—	—	large flare of short duration of 98	JR
"	"	-16db	00/62	3"/min	111/117	126	T.T.	JR
"	"	"	00/54	"	111/115	135	T.T. Flare (small) before map 11:45	JR
"	"	"	00/63	"	111/111	133	T.T.	JR
"	"	"	00/55	"	111/107	152	T.T.	J.D.
"	"	26db	00/00	3"/hr	112/115	—		J.D.
"	"	16db	00/43	3"/hr	112/115	136	T.T. START ON 52	J.D.
"	"	25db	—	3"/hr	—	—		J.D.
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/56	3"/min	112/107	127	T.T.	JR
"	"	0db	-25db	3"/hr	—	—	Talked to B. Rencke, Boulder, on New Code	JR
"	"	-16db	00/54	3"/min	112/120	133	T.T. small Flare after map	JR
"	"	0db	-25db	3"/hr	—	—		JR
"	"	-16db	00/55	3"/min	112/105	133	T.T. used New ORALE Telegram	JR
"	"	"	00/41	"	112/113	135	T.T. CR Troubles	JR
"	"	"	00/38	"	113/119	148	T.T. " "	JR
"	"	-16db	00/42	3"/hr	113/124	148	T.T. Auto track failure.	J.D.
"	"	-25db	—	3"/hr	—	—		

104	TIME		EVENT	ANTENNA		
DATE	PST	TRANSIT		δ	H.A.	CON
MON 1973 AUG 20	1210	1212.0	SUN MAP	12.5	AUTO	
TUE 1973 AUG 21	1210	1211.7	SUN MAP	12.0	"	
WED 1973 AUG 22	1210	1211.5	SUN MAP	12.0	"	
THU 1973 AUG 23	1209	1211.2	SUN MAP	11.3	"	
FRI 1973 AUG 24	1209	1211.0	SUN MAP	11.0	"	
SAT 1973 AUG 25	1209	1211.7	SUN MAP	10.5	"	
SUN 1973 AUG 26	1208	1210.4	SUN MAP	10.25	"	
MON 1973 AUG 27	1208	1210.4	SUN MAP	9.9	"	
TUE 1973 AUG 28	1208	1209.8	SUN MAP	9.5	"	
WED 1973 AUG 29	1208	1209.5	SUN MAP	9.0	"	
THU 1973 AUG 30	1207	1209.2	SUN MAP	9.0	"	
FRI 1973 AUG 31	1207	1208.9	SUN MAP	8.5	"	
	1207	12				
SUN 1973 SEP 09	1330	1205.5	SOLAR PATROL	4.5	"	
MON 1973 SEP 10	0815	1205.5	" "	4.5	"	
TUE 1973 SEP 11	0815	1205.5	" "	4.5	"	
WED 1973 SEP 12	0815	1204.2	" "	3.25	"	
THU 1973 SEP 13	0815	1204.2	" "	3.25	"	
FRI 1973 SEP 14	0815	1204.2	" "	3.25	"	
SAT 1973 SEP 15	0815	1204.2	" "	3.25	"	

RECEIVER				RECORDER		REMARKS		105	OBSR
DET	AF	T	GAIN	ATT'N	CHART SPEED	CAL	NRC FLUX		
	0.5 Hz	1.0 sec	-22db	00/47	3 in/min	108/105	77		J.D.
	"	"	-22db	00/49	"	108/107	80		J.D.
	"	"	-23db	00/45	"	107/106	79		J.D.
	"	"	-22db	00/51	"	107/107	80		J.D.
	"	"	-22db	00/49	"	107/104	84		J.D.
	"	"	-22db	00/51	"	106/105	87		J.D.
	"	"	-22db	00/46	"	106/103	89		J.D.
	"	"	-22db	00/47	"	106/109	93		J.D.
	"	"	-22db	00/42	"	105/98	96		J.D.
	"	"	-22db	00/46	"	105/103	99		J.D.
	"	"	-22db	00/47	"	105/104	99		J.D.
	"	"	-22db	00/54	"	104/98	108	Last daily observation in series 1963.	J.D.
	0.5 Hz	1 sec	-33db	00/00	12"/hour				J.D.
	"	"	"	"	"				J.D.
	"	"	"	"	"				J.D.
	"	"	"	"	"				J.D.
	"	"	"	"	"				J.D.
	"	"	"	"	"				J.D.
	"	"	"	"	"				J.D.
								Pointing changed at 1100 PST	J.D.
								Chart recording of solar patrol for 12-AUG 73 to 15 SEPT 73 REMOVED TO ARCTRI OBSERVATORY, ITALY.	J.D.