

**Institute of Astronomy
ETH Zurich**

RAG Observatory Bleien

Daedalus Spectrometer

Observation List

1977

SOLAR RADIO EMISSION

Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month:

January

Year:

1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 /CH-8044 Zurich/Switzerland

JAN	TIME OF OBSERVATION		STATION	EVENTS (UT)							SPECTRAL TYPE			
				DECIMETRIC BAND			METRIC BAND							
	START	END		*	START	END	INT	START	END	INT		*		
1	0730	1519	DURN	-										
2	0730	1520	DURN	-	1200	1520 E	1	1200	1520 E	1	-	IC, N		
3	0733	1522	DURN	-	0733 D	1522 E		0733 D	1522 E		-	IW, N		
4	0732	1524	DURN	-	0732 D	1340	1	0732 D	1340	1	-	IC, N		
5	0732	1524	DURN	-	1109.0	1109.4	3	1108.9	1109.4	2	-	III G		
6	0732	1525	DURN	-	0732 D	1525 E		0732 D	1525 E		-	IW, N		
7	0732	1525	DURN	-							-			
8	0731	1526	DURN	-							-			
	0731	1526	DURN	-							-			
			DURN	-							-			
10	0731	1526	DURN	-							-			
11	0731	1526	DURN	-							-			
12	0731	1528	DURN	-	1321.3	1325.2	3	1324.5	1325.0	1	-	DCIM		
13	0731	1513	DURN	-	0731 D	1513 E	1	0731 D	1513 E	1	-	IC, N		
14			DURN	-	no observations							-		
15	0731	1532	DURN	-	0731 D	1532 E	2	0732 D	1532 E	2	-	IC, DC, N		
			DURN	-	1311.3	1311.4	2				-	III		
16	0731	1537	DURN	-	0731 D	1537 E	3	0731 D	1537 E	3	-	IC, DC, N		
17	0731	1539	DURN	-	0731 D	1539 E	2	0731 D	1539 E	2	-	IC, DC, N		
18	0730	1540	DURN	-	0730 D	1540 E	1	0730 D	1540 E	1	-	IC, DC, N		
19	0730	1540	DURN	-	0730 D	1540 E	1	0730 D	1540 E	1	-	IC, DC, N		
20	0730	1540	DURN	-							-			
21	0730	1449	DURN	-							-			
22	0818	1540	DURN	-							-			
23	0730	1540	DURN	-							-			
24	0730	1540	DURN	-							-			
25	0730	1540	DURN	-							-			
26	0730	1545	DURN	-							-			
27	0728	1545	DURN	-							-			
28	0726	1545	DURN	-							-			
29	0724	1547	DURN	-							-			
30	0720	1550	DURN	-	1138.2	1138.2	1				-	III		
31	0718	1550	DURN	-							-			
			DURN	-							-			
			DURN	-							-			
			DURN	-							-			
			DURN	-							-			
			DURN	-							-			
			DURN	-							-			
			DURN	-							-			

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

Month: February Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 /CH-8044 Zurich/Switzerland

Febr.	TIME OF OBSERVATION		STATION	EVENTS (UT)							SPECTRAL TYPE	*	
	START	END		DECIMETRIC BAND			METRIC BAND						
				START	END	INT	START	END	INT				
1	0715	1553	DURN	-	1003.6	1003.8	3	1003.6	1003.8	3	-	III G	-
2	0714	1554	DURN	-							-		-
3	0713	1600	DURN	-							-		-
4	0711	1605	DURN	-							-		-
5	0710	1607	DURN	-							-		-
6	0707	1610	DURN	-							-		-
7	0706	1610	DURN	-							-		-
8	0705	1521	DURN	-							-		-
9	0704	1610	DURN	-	0704 D	1610 E		0704 D	1610 E		-	I W	-
			DURN	-	0717.6	0717.7	3	0717.6	0717.7	3	-	III G	-
10	0703	1614	DURN	-	0951.7	0951.9	2	0951.8	0951.9	1	-	III G	-
			DURN	-	1025.5	1025.9	3	1025.5	1025.9	3	-	III G	-
11	0702	1614	DURN	-	0740.0	0740.7	3	0740.0	0740.7	3	-	III GG	-
			DURN	-	0740.3	0741.3	3	0740.3	0741.3	2	-	DCIM	-
			DURN	-	0830.	1614	1	0830.	1614	1	-	IC, DC, N	-
			DURN	-	1101.1	1101.9	3	1101.1	1101.9	3	-	III GG, DCIM	-
12	0657	1620	DURN	-	0657 D	1620 E	3	0657 D	1620 E	3	-	IC, DC, N	-
			DURN	-	0809.1	0809.8	1				-	DCIM	-
			DURN	-	0924.2	0924.3	2	0924.2	0924.3	2	-	III G	-
			DURN	-	1005.6	1005.6	3				-	III	-
			DURN	-	1007.0	1007.1	3	1007.0	1007.1	3	-	III G	-
			DURN	-	1054.4	1054.5	2				-	III	-
			DURN	-	1229.3	1229.5	3				-	III G, RS	-
13	0655	1622	DURN	-	0655 D	1330	2	0655 D	1330	2	-	IC, DC, N	-
14	0653	1623	DURN	-	0653 D	1623 E	1	0653 D	1623 E	1	-	IC, N	-
15	0651	1623	DURN	-	0651 D	1450		0651 D	1450		-	IW, N	-
16	0650	1625	DURN	-							-		-
17	0649	1626	DURN	-							-		-
18	0648	1627	DURN	-	1515	1627 E	1	1515	1627 E	1	-	I, N	-
19	0646	0849	DURN	-							-		-
	0857	1634	DURN	-	1546	1634 E		1546	1634 E		-	IW, N	-
20	0644	1635	DURN	-	0644 D	1635 E		0644 D	1635 E		-	IW, N	-
21	0642	1636	DURN	-							-		-
22	0642	1638	DURN	-							-		-
23	0641	1640	DURN	-							-		-
24	0639	1343	DURN	-							-		-
25	0637	1643	DURN	-							-		-
26	0635	1644	DURN	-							-		-
27	0635	1650	DURN	-							-		-
28	0634	1650	DURN	-							-		-
			DURN	-							-		-
			DURN	-							-		-
			DURN	-							-		-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: March Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute
 of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

Mar.	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*		
	START	END		DECA-METRIC BAND			METRIC BAND						
				START	END	INT	START	END	INT				
2	0632	1650	DURN	-								-	
3	0630	1652	DURN	-								-	
4	0627	1657	DURN	-								-	
5	0625	1700	DURN	-								-	
6	0622	1657	DURN	-								-	
7	0621	1704	DURN	-				0636.7	0636.8	2		III G	-
8	0618	0806	DURN	-								-	-
	0946	1704	DURN	-								-	-
9	0616	1705	DURN	-	0616 E	1705 D	2	0616 E	1705 D	2		IC, N	-
			DURN	-	0731.2	0731.2	1	0731.2	0731.2	1		III	-
			DURN	-	0821.8	0821.9	2	0821.8	0821.9	2		III G	-
			DURN	-	0953.9	0953.9	1	0953.9	0953.9	1		III	-
			DURN	-	1119.6	1119.6	1	1119.6	1119.6	1		III	-
			DURN	-	1122.3	1122.4	2	1122.3	1122.4	2		III G	-
			DURN	-	1311.8	1312.4	2	1311.8	1312.4	3		III G	-
10	0613	1707	DURN	-	1102.0	1105.2	1	1102.0	1105.2	1		III GG	-
			DURN	-	1110.8	1110.9	2					III G, RS	-
11	0608	1708	DURN	-								-	-
12	0605	1016	DURN	-								-	-
	1152	1712	DURN	-	1222.9	1222.9	1	1222.9	1222.9	1		III	-
			DURN	-				1236.2	1236.3	1		III G	-
13	0603	1712	DURN	-								-	-
14	0602	1712	DURN	-								-	-
15	0600	1713	DURN	-								-	-
16	0559	1713	DURN	-								-	-
17	0611	1714	DURN	-								-	-
18	0559	1715	DURN	-								-	-
19	0559	1715	DURN	-								-	-
20	0559	1716	DURN	-								-	-
21	0559	1718	DURN	-								-	-
22	0559	0847	DURN	-								-	-
22	1507	1725	DURN	-								-	-
23	0554	1729	DURN	-								-	-
24	0544	1730	DURN	-								-	-
25	0542	1732	DURN	-	1439.3	1439.4	1					III G	-
26	0538	1736	DURN	-								-	-
27	0537	0946	DURN	-								-	-
	1001	1736	DURN	-								-	-
28	0536	1738	DURN	-								-	-
29	0534	1738	DURN	-								-	-
30	0533	1738	DURN	-								-	-
31	0532	1738	DURN	-								-	-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

Month: April Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

Apr.	TIME OF OBSERVATION		STATION	EVENTS (UT)							SPECTRAL TYPE	*	
	START	END		DECA-METRIC BAND			METRIC BAND						
				START	END	INT.	START	END	INT.				
1	0530	0546	DURN	-								-	
	0629	1738	DURN	-								-	
2	0529	1740	DURN	-								-	
3	0528	1742	DURN	-								-	
4	0526	1743	DURN	-								-	
5	0527	1509	DURN	-								-	
6	0554	1746	DURN	-								-	
7	0523	1749	DURN	-								-	
8	0521	1750	DURN	-				0851.0	0852.1	1		III	-
9	0520	1752	DURN	-									-
10	0518	0850	DURN	-									-
	1019	1753	DURN	-									-
11	0515	1755	DURN	-	0948.4	0948.6	1					III G	-
12	0513	1757	DURN	-	0949	0955.5	3					DCIM	-
			DURN	-	0952.6	0952.9	3					III G, RS, U	-
			DURN	-	0958	1005.2	3	0959	1005.2	3		IC	-
			DURN	-	1020.9	1022.6	2	1020.9	1022.6	3		IC	-
13	0512	1758	DURN	-	0550.3	0551	2					III G	-
14	0509	1354	DURN	-	0548.5	0548.9						DCIM, W	-
			DURN	-	0555.8	0556.3	3	0555.6	0556.6	3		III G	-
15	0507	1759	DURN	-	1741.5	1741.9		1741.5	1741.9			III G, W	-
16	0506	1800	DURN	-	0544.6	0545.5	1	0544.6	0545.2	2		III G	-
			DURN	-	0724	1450	1	0724	1450	1		IC, DC, N	-
			DURN	-	0729.7	0731.0	1	0729.7	0731.0	1		III G	-
			DURN	-				0851.2	0851.2	3		III	-
1	0505	1800	DURN	-									-
18	0504	1802	DURN	-									-
19	0503	0606	DURN	-									-
	0618	1804	DURN	-									-
20	0501	1805	DURN	-				0825.2	0825.3	2		III G	-
21	0500	1806	DURN	-	0630.8	0634.9	3	0630.8	0634.9	3		III G	-
			DURN	-	1043.6	1043.8	2	1043.5	1043.9	3		III G	-
			DURN	-	1348.8	1351.2	3	1350.6	1351.2	3		III G	-
			DURN	-	1537.3	1538.2	3	1537.6	1538.2	3		III GG U	-
			DURN	-	1629.2	1629.8		1629.7	1629.7			III G, DCIM, W	-
22	0459	1807	DURN	-	1731.7	1732.0	2	1731.7	1732.0	2		III G	-
23	0458	0946	DURN	-									-
	1240	1810	DURN	-									-
24	0457	1812	DURN	-									-
25	0455	1814	DURN	-									-
26	0454	1816	DURN	-									-
27	0453	1500	DURN	-	1317.3	1317.4	2	1317.3	1317.4	2		III, G	-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: June Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute
 of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*	
	START	END		* DECIMETRIC BAND			METRIC BAND					*
				START	END	INT	START	END	INT			
			DURN	- 1st June to 28th: no metric measurements, sensitivity reduced						-	-	
1	0426	1830	DURN	-	-	-	-	-	-	-	-	
2	0425	1830	DURN	-	-	-	-	-	-	-	-	
3	0512	1831	DURN	-	-	-	-	-	-	-	-	
4	0425	1830	DURN	-	-	-	-	-	-	-	-	
5	0425	1830	DURN	-	-	-	-	-	-	-	-	
6	0425	1831	DURN	-	-	-	-	-	-	-	-	
7	0450	1831	DURN	-	-	-	-	-	-	-	-	
8	0425	1830	DURN	-	-	-	-	-	-	-	-	
9	0425	1831	DURN	-	-	-	-	-	-	-	-	
10	0425	0500	DURN	-	-	-	-	-	-	-	-	
	0510	1831	DURN	-	-	-	-	-	-	-	-	
11	0425	1830	DURN	-	-	-	-	-	-	-	-	
12	0425	1830	DURN	0742.1	0742.2	3	-	-	-	III G	-	
13	0425	1830	DURN	-	-	-	-	-	-	-	-	
14	0620	1831	DURN	-	-	-	-	-	-	-	-	
15	0425	1830	DURN	-	-	-	-	-	-	-	-	
16	0425	1831	DURN	-	-	-	-	-	-	-	-	
17	0425	1831	DURN	1045	1046.2	3	-	-	-	DCIM	-	
18	0425	0450	DURN	-	-	-	-	-	-	-	-	
	1248	1831	DURN	-	-	-	-	-	-	-	-	
19	0425	1831	DURN	-	-	-	-	-	-	-	-	
20	0425	1831	DURN	-	-	-	-	-	-	-	-	
21	0425	1831	DURN	-	-	-	-	-	-	-	-	
22	0425	0454	DURN	-	-	-	-	-	-	-	-	
	0503	1831	DURN	-	-	-	-	-	-	-	-	
23	0425	1831	DURN	-	-	-	-	-	-	-	-	
24	0425	1831	DURN	0707.0	0718.0	3	-	-	-	DCIM	-	
			DURN	0741.0	0744.6	3	-	-	-	DCIM	-	
			DURN	0816.0	0831.0	3	-	-	-	DCIM	-	
			DURN	0835.8	1910.0	3	-	-	-	DCIM, N	-	
			DURN	1439.6	1441.2	3	-	-	-	DCIM	-	
25	0425	1522	DURN	1240.0	1240.1	3	-	-	-	III	-	
	1544	1831	DURN	-	-	-	-	-	-	-	-	
26	0428	1831	DURN	1438.3	1438.4	3	-	-	-	III G	-	
			DURN	1547.3	1549.7	3	-	-	-	DCIM	-	
27	0429	1831	DURN	1438.2	1438.7	3	-	-	-	III G	-	
			DURN	1452.0	1452.3	3	-	-	-	III G	-	
28	0430	1106	DURN	-	-	-	-	-	-	-	-	
	1224	1831	DURN	-	-	-	-	-	-	-	-	
29	0430	0456	DURN	- sensitivity and metric measurements recovered						-	-	

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

Month: July Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute
 of Technology/Hochstrasse 58 /CH-8044 Zurich/Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*		
	START	END		DECIMETRIC BAND			METRIC BAND						
				START	END	INT	START	END	INT				
1	0429	1830	DURN	-	0429 E	1830 D	2	0429 E	1830 D	2	-	IC, DC, N	-
2	0429	1831	DURN	-	0429 E	1830	1	0429 E	1830	1	-	IC, DC, N	-
3	0430	1831	DURN	-	0430 E	1831 D	1	0430 E	1831 D	1	-	IC, DC, N	-
4	0431	1831	DURN	-	0431 E	1831 D	2	0431 E	1831 D	2	-	IC, DC, N	-
5			DURN	-	no observations						-	-	
6	1250	1831	DURN	-	1250 E	1831 D	1	1250 E	1831 D	1	-	IC, N	-
			DURN	-	1518.1	1518.1	1	1518.1	1518.1	1	-	III	-
			DURN	-	1546.4	1546.6	3				-	III G	-
			DURN	-	1827.8	1827.9	2	1827.8	1828.9	3	-	III G	-
7	0432	1831	DURN	-	0432	1831		0432	1831		-	IW, N	-
8	0433	1831	DURN	-							-		-
9	0433	1831	DURN	-	0818.4	0818.9	3				-	III G	-
10	0433	0715	DURN	-							-		-
	0731	1831	DURN	-							-		-
11	0433	1831	DURN	-							-		-
12	0434	1830	DURN	-							-		-
13	0434	1831	DURN	-	1040.6	1042.5	1	1040.6	1042.5	3	-	III G	-
14	0435	0456	DURN	-							-		-
	0509	1831	DURN	-	1146.8	1148.3		1146.8	1148.3		-	III G, W	-
			DURN	-	1153.6	1154.0	1	1153.6	1154.0	1	-	III G	-
15	0436	1831	DURN	-							-		-
16	0437	1831	DURN	-							-		-
17	0437	1654	DURN	-							-		-
	1707	1830	DURN	-							-		-
18	0437	0846	DURN	-							-		-
19			DURN	-	no observations						-	-	
20			DURN	-	no observations						-	-	
21	0440	1831	DURN	-							-		-
22	0441	1831	DURN	-	1713.4	1713.7	1				-	III G	-
			DURN	-	1730.1	1730.7	1				-	III G	-
			DURN	-	1813.7	1813.9	3				-	III G, RS	-
23	0441	1817	DURN	-							-		-
24	0442	1832	DURN	-							-		-
25	0442	1831	DURN	-							-		-
26	0442	0552	DURN	-							-		-
	0607	1830	DURN	-							-		-
27	0443	0845	DURN	-							-		-
	1718	1735	DURN	-							-		-
	1810	1832	DURN	-							-		-
28	0443	1832	DURN	-				1726.6	1726.9	3	-	III G	-
			DURN	-				1804.7	1804.8	2	-	III	-
29	0444	1832	DURN	-							-		-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: July Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 /CH-8044 Zurich/Switzerland

	TIME OF OBSERVATION		STATION	*	EVENTS (UT)						*	SPECTRAL TYPE	*
	START	END			DECIMETRIC BAND			METRIC BAND					
					START	END	INT	START	END	INT			
30	0649	18 32	DURN	-									
31	0927	18 32	DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									
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			DURN	-									
			DURN	-									
			DURN	-									
			DURN	-									

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: August Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*	
	START	END		DECA-METRIC BAND			METRIC BAND					
				START	END	INT	START	END	INT			
1	0447	0821	DURN	-								-
	0852	1831	DURN	-								-
2	0447	0800	DURN	-								-
	0905	1831	DURN	-								-
3	0448	1832	DURN	-								-
4	0449	0729	DURN	-								-
	1016	1830	DURN	-								-
5	0449	0822	DURN	-								-
	847	1830	DURN	-								-
6	0449	0810	DURN	-							III, G	-
	0835	1830	DURN	-								-
7	0451	0804	DURN	-								-
	0829	1830	DURN	-	1228	1300	1	1228	1300	1	I, N	-
8	0452	0805	DURN	-				0558	0558.7	2	I	-
	0827	1309	DURN	-								-
	1315	1830	DURN	-	1315 E	1830 D		1315 E	1830 D		IW, N	-
9	0452	0805	DURN	-								-
	0827	1830	DURN	-								-
10	0453	0833	DURN	-								-
	0856	1830	DURN	-								-
11	0454	0808	DURN	-								-
	0824	1830	DURN	-								-
12	0456	0809	DURN	-								-
	0835	1826	DURN	-								-
13	0456	0814	DURN	-								-
	0835	1825	DURN	-								-
14	0456	1823	DURN	-								-
15	0456	1822	DURN	-	0548	1822		0548	1822		IW, N	-
16	0456	1821	DURN	-								-
17	0457	0642	DURN	-								-
18	0834	1817	DURN	-								-
19	0502	0819	DURN	-								-
	1018	1756	DURN	-								-
20	0508	1757	DURN	-								-
21	0508	1756	DURN	-	0508 E	1756	2	0508 E	1756	2	IC, DC, N	-
			DURN	-	1556.2	1556.8	3	1556.2	1556.8	3	III G, RS	-
22	0610	1252	DURN	-	1610	1252 D		0610	1252 D		IW, N	-
	1355	1755	DURN	-	1355 E	1755		1355	1755		IW, N	-
23	0514	0835	DURN	-	0514	0835		0514	0835		IW, N	-
	0843	1758	DURN	-	0843	1758		0843	1758		IW, N	-
24	0508	0754	DURN	-								-
	0913	1757	DURN	-								-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: August Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*			
				DECI-METRIC BAND			METRIC BAND							
	START	END		START	END	INT	START	END	INT					
25	0509	1756	DURN	-	1300	1756			1300	1756		-	IW, N	-
26	0509	1237	DURN	-	0509	1237			0509	1237		-	IW, N	-
			DURN	-	0516.5	0517.0	3		0516.5	0517.0	3	-	III, G	-
			DURN	-	0524.0	0525.4	3		0524.0	0525.4	3	-	III G	-
			DURN	-	0524.5	0525.7	3					-	DCIM	-
			DURN	-					0535.4	0537.0	3	-	III G, RS	-
			DURN	-	0536.9	0541.5	3		0536.9	0541.5	3	-	DCIM, III G	-
			DURN	-								-	RS, I, DC	-
			DURN	-	0630.6	0632.3	3		0630.6	0632.3	3	-	III G	-
			DURN	-	0731.3	0731.5	1		0731.3	0731.5	1	-	III G	-
			DURN	-	0742.2	0742.2	1		0742.2	0742.2	1	-	III	-
			DURN	-	0746.1	0746.7	1		0746.1	0746.7	2	-	III G	-
			DURN	-	1209.6	1209.6	1		1209.6	1209.6	1	-	III	-
	1242	1758	DURN	-	1242	1758 D	1		1242	1758 D	1	-	I, DC, N	-
			DURN	-	1645.7	1646.4	3		1645.7	1646.4	3	-	III G, V	-
			DURN	-	1703.4	1704.2	1		1703.4	1704.2	2	-	III G	-
			DURN	-					1706.0	1706.0	1	-	III	-
			DURN	-	1736.4	1736.5	3		1736.4	1736.5	3	-	III	-
27	0509	0624	DURN	-	0509 E	0624 D	1		0509 E	0624 D	1	-	I, N	-
28	1002	1800	DURN	-	1002 E	1800	1		1002 E	1800	1	-	IC, DC, N	-
			DURN	-	1558.2	1558.2	2		1558.2	1558.2	2	-	III G	-
29	0509	0734	DURN	-	0509 E	0734 D	1		0509 E	0734 D	1	-	IC, N	-
			DURN	-	0540.5	0541.9	1		0540.5	0541.9	1	-	III G	-
	1810	1430	DURN	-	0810 E	1430			0810 E	1430		-	I, W, N	-
30			DURN	-	no	observations						-		-
31	0902	1619	DURN	-	1006.4	1008	1					-	DCIM	-
	1622	1755	DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
 Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: September Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute
 of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)							SPECTRAL TYPE	*	
				DECA-METRIC BAND			METRIC BAND						
	START	END		*	START	END	F.H.	START	END	F.V.T.			
1	0508	0837	DURN	-								-	-
	0856	1040	DURN	-								-	-
	1047	1616	DURN	-								-	-
2	0939	1254	DURN	-								-	-
	1306	1750	DURN	-								-	-
3	0513	0542	DURN	-								-	-
	0548	1121	DURN	-								-	-
	1150	1748	DURN	-	1150	1748		1150	1748			-	IW,N
	0517	1746	DURN	-								-	-
5	0518	1745	DURN	-								-	-
6	0518	0754	DURN	-	0518	1742		0518	1742			-	IW,N
	0819	1742	DURN	-	0903.2	0903.3		0903.2	0903.3			-	III G, W
			DURN	-	1252.0	1252.8	2	1252.0	1252.8	3		-	III G, U
			DURN	-	1356.6	1356.7	1	1356.6	1356.7	1		-	III G
			DURN	-	1454.4	1454.6	1	1454.4	1454.6	1		-	III G
			DURN	-	1548.1	1548.7		1548.1	1548.7			-	III G W
7	0519	1742	DURN	-	0519 E	1742 D		0519 E	1742 D			-	I W, N
			DURN	-	0533.6	0533.6	1	0533.6	0533.6	1		-	III
8	0519	0901	DURN	-	0746.8	0747.1	1					-	III G
			DURN	-	0758.7	0759.1	1					-	III G
	0916	1737	DURN	-	0916	1737 D						-	I W, N
			DURN	-	1335.2	1335.2	3					-	III
			DURN	-	1445.3	1445.5	1					-	III G
			DURN	-	1532.8	1532.8	3					-	III G
9	0520	1738	DURN	-	0520 E	1629		0520 E	1629			-	I W, N
			DURN	-	1629	1738 D	3	1629	1738 D	3		-	IV
			DURN	-	1629.5	1630.3	2	1629.5	1630.3	2		-	III G
			DURN	-	1629	1738 D	3	1629	1738 D	3		-	IC, DC, N
10	0521	1146	DURN	-								-	-
	1212	1732	DURN	-								-	-
11	0538	1104	DURN	-	0538 E	1104 D	1	0538 E	1104 D	1		-	IC, DC, N
			DURN	-	0751.6	0751.6	1					-	III
	1124	1731	DURN	-	1124 E	1731 D	1	1124 E	1731 D	1		-	IC, DC, N
12	0539	0729	DURN	-	0539 E	0729 D		0539 E	0729 D			-	IW, N
	0742	1405	DURN	-	0742 E	1405 D		0742 E	1405 D			-	IW, DC, N
			DURN	-	0821.7	0821.9	1	0821.7	0822.2	2		-	III G
			DURN	-	0955.0	0955.5	2	0955.0	0955.5	3		-	III G
	1431	1730	DURN	-	1431 E	1730		1431 E	1730			-	IW, N
13	0538	0829	DURN	-	0538	0829		0538	0829			-	IW, N
	0851	1726	DURN	-	0851 E	1726		0851 E	1726			-	IW, N
14	0538	1726	DURN	-	0606.4	0606.6	1	0606.4	0606.6	1		-	III G
			DURN	-	1116.3	1116.3	1	1116.3	1116.3	1		-	III

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
Station: DURNTEN (DURN), 47.28 N, 8.85 E

Month: September Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology/ Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)						SPECTRAL TYPE	*				
				DEKAMETRIC BAND			METRIC BAND								
	START	END		START	END	FREQ	START	END	INT						
14			DURN	-					1557.3	1558.8		-	III G, W	-	
15	0538	0740	DURN	-								-		-	
	0906	1725	DURN	-	1139.9	1140.1	1		1139.9	1140.1	1	-	III G	-	
16	0538	0740	DURN	-								-		-	
	0758	1724	DURN	-	0833.0	0833.5	3		0833.0	0833.5	3	-	III G	-	
			DURN	-	0957.7	0957.8	3					-	III G	-	
17	0538	1724	DURN	-	0624.0	0624.2	2		0624.0	0624.2	2	-	III G	-	
18	0538	1039	DURN	-								-		-	
			DURN	-	no observations								-		-
20	1200	1720	DURN	-								-		-	
21	0538	1715	DURN	-	0538 E	1230	1		0538 E	1230	1	-	IC,DC, N	-	
22	0539	1705	DURN	-	0539 E	1705 D	1		0539 E	1705 D	1	-	IC,DC, N	-	
			DURN	-	1357.2	1357.3	1		1357.2	1357.3	1	-	III G	-	
			DURN	-	1358.0	1358.0	1					-	III	-	
			DURN	-	1359.0	1400.5	2		1359.0	1400.5	2	-	III GG	-	
			DURN	-	1510.7	1511.3	1		1510.7	1510.7	1	-	III G	-	
23	0539	1700	DURN	-	0539 E	1405	1		0539 E	1405	1	-	IC,DC, N	-	
24	0539	1700	DURN	-	0554.0	0555.2	3		0554.0	0555.2	3	-	III GG	-	
			DURN	-	0554.0	0600.3	2		0554.0	0600.3	3	-	IC	-	
			DURN	-					0944.1	0950.5	2	-	I, DC, N	-	
25	0539	1653	DURN	-								-		-	
	0705	1655	DURN	-	1345.8	1345.8	3					-	III	-	
26	0538	1655	DURN	-								-		-	
27	0538	1655	DURN	-	0538 E	1225	1		0538 E	1225	2	-	IC, DC, N	-	
			DURN	-	0725.6	0725.6	3					-	III G	-	
			DURN	-	1532.0	1532.2	3					-	III G, RS	-	
28	0540	1655	DURN	-	0540 E	1000	1		0540 E	1000	2	-	IC, DC, N	-	
29	0540	1301	DURN	-	1045.5	1047.0	3					-	UNCLF	-	
			DURN	-	1048.0	1049.5	3					-	UNCLF	-	
	1317	1655	DURN	-	1527.2	1527.4	3					-	III G	-	
			DURN	-					1621.0	1621.0	3	-	III	-	
			DURN	-					1641.1	1641.1	2	-	I	-	
30	0540	0644	DURN	-								-		-	
	1042	1652	DURN	-	1114.6	1114.6	2					-	III	-	
			DURN	-					1210	1410		-	IW, N	-	
			DURN	-								-		-	
			DURN	-								-		-	
			DURN	-								-		-	
			DURN	-								-		-	
			DURN	-								-		-	
			DURN	-								-		-	

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

Month: October Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute
 of Technology/Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	CENTRIMETRIC BAND						SPECTRAL TYPE	*				
				DECI-METRIC BAND			METRIC BAND								
	START	END		START	END	INT	START	END	INT						
1	0545	1650	DURN	-	1026.2	1026.3				1026.2	1026.3		-	III, W	-
2	0548	1647	DURN	-	0548 E	1647 D	1			0548 E	1647 D	1	-	IC, DC, N	-
			DURN	-	0844.7	0845.1	3			0844.7	0845.0	2	-	III G	-
			DURN	-	0849.8	0850.5	3			0850.1	0850.5	1	-	III G	-
			DURN	-	0852.8	0852.9							-	III G, W	-
			DURN	-	0858.3	0858.3	3						-	III	-
			DURN	-	1121.6	1121.6	2						-	III	-
3	0550	1645	DURN	-	0550 E	1340	1			0550 E	1340	2	-	IC, DC, N	-
			DURN	-						0607.1	0607.2	2	-	III, G	-
			DURN	-	0740.5	0740.7	1			0740.5	0740.7	2	-	III G	-
			DURN	-	0744.5	0744.7				0744.5	0744.7		-	III G, W	-
			DURN	-	0931.7	0931.7	2						-	III	-
4	0553	1642	DURN	-	1550	1642 D	1			1550	1642 D	1	-	IC, N	-
5	0604	1640	DURN	-	0604 E	1640 D	2			0604 E	1640 D	3	-	IC, DC, N	-
			DURN	-	0839.5	0840.1	3			0839.6	0839.6	1	-	III G	-
			DURN	-	0933.1	0933.5	2			0933.1	0933.3	1	-	III G	-
			DURN	-	0956.1	0956.4	1						-	III G	-
			DURN	-	1048.1	1048.4	3			1048.2	1048.3	3	-	III G	-
			DURN	-	1120.6	1121.0	3						-	III G	-
			DURN	-	1355.4	1355.9	2			1355.4	1358.1	3	-	III G G	-
			DURN	-	1414.8	1415.4	3						-	III G	-
			DURN	-	1605.3	1606.8	3			1605.5	1606.8	3	-	III G G	-
			DURN	-	1607.8	1608.0	1			1607.9	1608.0	1	-	III G	-
			DURN	-						1609.6	1609.8	1	-	III G	-
			DURN	-						1613.7	1615.3	3	-	III G	-
			DURN	-						1624.4	1624.5	3	-	III G	-
			DURN	-						1625.7	1625.7	2	-	III	-
6	0557	1638	DURN	-	0557 E	1638				0557 E	1638		-	IW, N	-
			DURN	-	0803.6	0804.3	1			0803.6	0804.3	2	-	III G	-
			DURN	-						1122.2	1123.4	3	-	III G	-
			DURN	-						1204.5	1204.6	1	-	III G	-
			DURN	-	1309.8	1309.8				1309.8	1309.8		-	III, W	-
			DURN	-						1332.7	1332.7	1	-	III	-
			DURN	-	1523.0	1523.3	3			1523.0	1523.1	2	-	III G	-
			DURN	-	1550.9	1551.5	3			1550.9	1551.5	2	-	III G	-
			DURN	-	1604.5	1605.6	3			1604.5	1605.6	3	-	III G	-
7	0559	1637	DURN	-						0811.3	0811.5	2	-	III G	-
			DURN	-	1100.1	1100.2	3						-	III G	-
			DURN	-	1129.9	1134.8	3			1129.9	1134.8	3	-	III GG, RS, U	-
			DURN	-	1130	1637	2			1130	1637	2	-	IC, DC, N	-
			DURN	-	1432.9	1433.7	2						-	III G	-
8	0601	1635	DURN	-	0601 E	1635 D	2			0601 E	1635 D	2	-	IC, DC, N	-

* The WDC-format columns CENTRIMETRIC BAND, DECI-METRIC BAND, and REMARKS are not included.

Month: October Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology / Hochstrasse 58 / CH- 8044 Zürich / Switzerland

No.	TIME OF OBSERVATION		STATION	EVENTS							SPECTRAL TYPE	*		
	START	END		CENTIMETRIC BAND			DECA-METRIC BAND							
				START	END	INT.	START	END	INT.					
8			DURN	-					0853.9	0854.3	3	-	III G	-
			DURN	-	1043.6	1043.6	1		1043.6	1043.6	1	-	III	-
			DURN	-	1231.1	1236.6	2					-	DCIM	-
			DURN	-	1243.9	1245.0	1					-	DCIM	-
			DURN	-	1417.1	1417.2						-	III W	-
9	0602	1633	DURN	-	0610.4	0614						-	III W, N	-
			DURN	-	0922.3	0922.6	3		0922.4	0922.6	3	-	III G	-
10	0603	1630	DURN	-								-		-
11	0604	1628	DURN	-	0730.1	0730.2	1					-	III	-
			DURN	-	1107.2	1107.6	3		1107.3	1107.5	3	-	III G	-
12	0605	1626	DURN	-	1511.9	1512.3	3		1511.9	1512.3	3	-	III G	-
13	0606	1625	DURN	-	0643.5	0644.8	2		0643.3	0644.8	2	-	III G	-
			DURN	-					0709.1	0709.3	1	-	III G	-
			DURN	-					0717.4	0717.4	1	-	III	-
			DURN	-	0746.7	0747.8	2		0746.2	0747.8	3	-	III G	-
14	0608	1624	DURN	-								-		-
15	0610	1622	DURN	-								-		-
16	0610	1620	DURN	-					0610 E	1620	3	-	IC, DC, N	-
			DURN	-	1121.5	1121.9	2					-	III G	-
			DURN	-					1513	1515	1	-	IC, N	-
			DURN	-					1614.4	1614.5	1	-	III G	-
17	0611	1618	DURN	-					0610E	1618	1	-	IC, DC, N	-
18	0612	1616	DURN	-								-		-
19	0613	0853	DURN	-								-		-
			DURN	-	from Oct. 19 1017 UT no measurement above 750 MHz									-
	1017	1614	DURN	-					1203	1231	1	-	IC, N	-
20	0614	1610	DURN	-					0614 E	1030	2	-	IC, DC, N	-
			DURN	-					0725.6	0725.7	3	-	III	-
21	0615	1608	DURN	-	1040	1608	1		0615 E	1608	2	-	IC, DC, N	-
			DURN	-					0725.8	0725.9	1	-	III G	-
			DURN	-	0936.1	0936.1	1		0936.1	0936.1	3	-	III G	-
22	0616	1605	DURN	-					0616 E	1605		-	IC, DC, N	-
			DURN	-	1012.7	1013.4	2		1012.7	1013.4	3	-	III G	-
23	0617	1604	DURN	-					0617 E	1200		-	IC, DC, W, N	-
24	0618	1603	DURN	-								-		-
25	0620	1602	DURN	-					0620 E	1200	1	-	IC, DC, N	-
26	0621	1600	DURN	-								-		-
27	0621	1559	DURN	-								-		-
28	0622	15559	DURN	-	1218.5	1218.6	3		1218.4	1218.5	1	-	III G	-
			DURN	-					1226.7	1226.7	1	-	III	-
			DURN	-					1420.4	1420.4		-	III, W	-
			DURN	-					1427.1	1428.6		-	III G, W	-

* The WDC-format columns CENTIMETRIC BAND, DECA-METRIC BAND, and REMARKS are not included.

SOLAR RADIO EMISSION
Station: DURNEN (DURN), 47.28 N, 8.85 E

Month: October Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology / Hochstrasse 58 / CH- 8044 Zürich / Switzerland

	TIME OF OBSERVATION		STATION	EVENTS (UT)							SPECTRAL TYPE	*		
	START	END		DECIMETRIC BAND			METRIC BAND							
				START	END	INT	START	END	INT					
29	0623	1558	DURN	-					0810	1300		-	IC, W, N	-
30	0624	0711	DURN	-								-		-
	0719	1557	DURN	-								-		-
31	0628	1556	DURN	-					0644.1	0645.5	1	-	III G	-
			DURN	-					1414.7	1414.7		-	III, W	-
			DURN	-					1424.2	1424.3	1	-	III G, RS	-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
			DURN	-								-		-
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			DURN	-								-		-
			DURN	-								-		-

* The WDC-format columns CENTIMETRIC BAND, DEKAMETRIC BAND, and REMARKS are not included.

Month: November Year: 1977

Spectral observations 140 - 1000 MHz

Address: Radio Astronomy Group/Microwave Laboratory/Swiss Federal Institute of Technology / Hochstrasse 58 / CH- 8044 Zürich / Switzerland

OBSERVATION	TIME OF		STATION	FREQ.						SPECTRAL TYPE	*		
	OBSERVATION			DECIMETRIC BAND			METERIC BAND						
	START	END		START	END	INT.	START	END	INT.				
1	0630	1550	DURN	-	-	-	0715.4	0715.4	-	-	III W	-	
			DURN	-	-	-	0716.7	0716.7	-	-	III W	-	
			DURN	-	-	-	0736.2	0736.4	2	-	III G	-	
			DURN	-	-	-	0800	1550 D	1	-	IC, DC, N	-	
2	0633	1545	DURN	-	-	-	0633 E	1545	1	-	IC, DC, N	-	
3	0634	1540	DURN	-	-	-	0634 E	1540	1	-	IC, DC, N	-	
4	0636	1334	DURN	-	-	-	0636 E	0730	1	-	IC, DC, N	-	
	0637	1538	DURN	-	-	-	-	-	-	-	-	-	
6	0639	1537	DURN	-	-	-	-	-	-	-	-	-	
7	0640	1535	DURN	-	-	-	0755	0811	1	-	IC, DC, N	-	
8	0642	1532	DURN	-	1100.0	1100.1	1	1100.0	1100.2	3	-	III G	-
			DURN	-	1215.8	1216.2	1	1215.8	1216.2	3	-	III G	-
9	0644	1530	DURN	-	-	-	-	-	-	-	-	-	
10	0645	1428	DURN	-	-	-	-	-	-	-	-	-	
11	0648	1528	DURN	-	-	-	-	-	-	-	-	-	
12	0652	1525	DURN	-	-	-	-	-	-	-	-	-	
13	0652	1525	DURN	-	1023.3	1023.3	3	1023.3	1023.3	3	-	III	-
14	0653	1525	DURN	-	-	-	-	-	-	-	-	-	
15	0655	1525	DURN	-	-	-	0655 E	0710	-	-	I W	-	
16	0656	1457	DURN	-	-	-	0705.1	0705.3	3	-	III G	-	
17	0700	1524	DURN	-	-	-	1229.2	1235.8	1	-	I, N	-	
			DURN	-	-	-	1514.0	1524 D	1	-	I, C, DC, N	-	
18	0700	1523	DURN	-	-	-	0700 E	1523 D	2	-	IC, DC, N	-	
19	0701	1523	DURN	-	-	-	-	-	-	-	-	-	
20	0701	1523	DURN	-	-	-	-	-	-	-	-	-	
	0701	1522	DURN	-	-	-	-	-	-	-	-	-	
22	0702	1505	DURN	-	1001.8	1102.1	3	1001.8	1102.1	3	-	IV, N	-
23	0702	1522	DURN	-	-	-	-	-	-	-	-	-	
24	0702	1522	DURN	-	-	-	-	-	-	-	-	-	
25	0703	1521	DURN	-	-	-	-	-	-	-	-	-	
26	0703	1521	DURN	-	-	-	-	-	-	-	-	-	
27	0703	1521	DURN	-	-	-	-	-	-	-	-	-	
28	0703	1505	DURN	-	-	-	-	-	-	-	-	-	
29	0704	1521	DURN	-	-	-	-	-	-	-	-	-	
30	0706	1520	DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	
			DURN	-	-	-	-	-	-	-	-	-	

* The WDC-format columns DECIMETRIC BAND, METERIC BAND, and REMARKS are not included.