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**Observations of solar flux at the Algonquin Radio Observatory on 2800
MC/S and at the Dominion Radio Astrophysical Observatory on 2700
MC/S: monthly reports-July-December 1968**

Covington, A. E.; Gagnon, H. P.; Moore, J. D.

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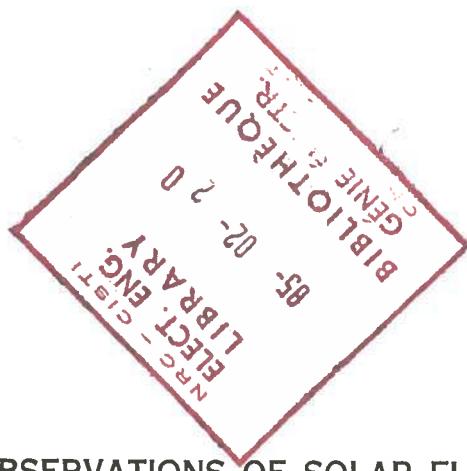


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RADIO AND ELECTRICAL ENGINEERING DIVISION



ANALYZED

OBSERVATIONS OF SOLAR FLUX AT THE
ALGONQUIN RADIO OBSERVATORY ON 2800 MC/S AND AT THE
DOMINION RADIO ASTROPHYSICAL OBSERVATORY ON 2700 MC/S
MONTHLY REPORTS - JULY - DECEMBER 1968

- A. E. COVINGTON, H. P. GAGNON, AND J. D. MOORE -

ON LOAN
from
National Research Council
Radio & E.E. Division
Document Control Section

OTTAWA

JANUARY 1969

ANALYZED

ABSTRACT

Detailed tabulations of the solar radio flux for the period July–December 1968 and annual summaries of the daily fluxes for the whole year observed on a frequency of 2800 Mc/s at the Algonquin Radio Observatory and on 2700 Mc/s at the Dominion Radio Astrophysical Observatory are given. The control observations taken on a frequency of 2800 Mc/s at Goth Hill observatory are discussed.

CONTENTS

	Page
Introduction	1
Monthly Reports, July—December 1968	3

FIGURES

1. Ratios of 2800 MHz solar flux observed by three independent radio telescopes on selected days during 1968.
2. Selected 2800 MHz solar noise bursts, Ottawa, July 8, 1968, 17:00–18:10 UT
3. Selected 2800 MHz solar noise bursts, Ottawa, July 8, 1968, 16:00–22:00 UT
4. Selected 2800 MHz solar noise burst, Ottawa, September 4, 1968, 00:30–01:30 UT
5. Selected 2800 MHz solar noise burst, Ottawa, September 25, 1968, 14:30–15:30 UT
6. Selected 2700 MHz solar noise burst, Penticton, September 26, 1968, 00:20–00:50 UT
7. Selected 2800 MHz solar noise burst, Ottawa, September 29, 1968, 16:10–17:00 UT
8. Selected 2700 MHz solar noise burst, Penticton, October 1, 1968, 00:30–01:00 UT
9. Selected 2700 MHz solar noise burst, Penticton, October 24, 1968, 20:40–22:10 UT
10. Outline of selected 2800 MHz solar noise burst, Ottawa, October 27, 13:00–14:00 UT
11. Outline of reconstructed 2800 MHz solar noise burst, October 29, 15:00–16:00 UT
12. Selected 2700 MHz solar noise burst, Penticton, October 31, 1968, 22:20–23:30 UT
13. Selected 2700 MHz solar noise burst, Penticton, November 1, 1968, 19:50–20:30 UT
14. Selected 2700 MHz solar noise burst, Penticton, December 2, 1968, 21:00–22:00 UT
15. Selected 2800 MHz solar noise bursts, Ottawa, December 29, 1968, 19:10–20:00 UT

**OBSERVATIONS OF SOLAR FLUX AT THE
ALGONQUIN RADIO OBSERVATORY ON 2800 MC/S AND AT THE
DOMINION RADIO ASTROPHYSICAL OBSERVATORY ON 2700 MC/S
MONTHLY REPORTS – JULY–DECEMBER 1968**

— A.E. Covington, H.P. Gagnon, and J.D. Moore —

Control Observations

During the past year, observations were taken at the Goth Hill Observatory just outside Ottawa with the original 1.2 meter reflector and with the standard gain pyramidal horn. This was done on days when there was no rain in order to have good observing conditions and to avoid water accumulating in the throat of the open horn. These observations were in addition to the usual solar patrol observations. The relative quality of the three sets of observations; from the 1.8 meter reflector at the Algonquin Radio Observatory and from the 1.2 meter reflector and standard horn at Goth Hill can be found in the presence of the slowly varying component of the solar radio emission by examining the series of ratios of daily fluxes. An average value of unity for the ratio would indicate identical performance, while departures from unity are a compound of the constant and accidental errors. The daily values of the ratios of fluxes; ARO/Goth Hill, ARO/Horn, and Goth Hill/Horn have been plotted for the whole year (see Fig. 1). Inspection of the upper curve shows an average ratio of ARO/Goth Hill of 1.045 for the early part of 1968, and a ratio of unity for the latter part. The discontinuity on May 28th was introduced by moving the feed horn in the 1.8 meter reflector at ARO and was done in order to restore the agreement between measurements made at that station and those made with the original 1.2 meter reflector at Goth Hill. The establishment of the ratio of unity between these two stations has been described in monthly report number 180 for January 1962; the discrepancy was first noticed during July 1967. Other unreported control observations indicated that this is the first and only discrepancy.

Even though the observations are made within a 30-minute period around noon, and corrections for any burst in progress have been made, residual burst emission must be present since there are a few isolated days with abnormal ratios on such days. These have been identified as BIP*. The origin of other abnormally high ratios have yet to be explained. A mean ratio, formed by the average of 10 or more daily values eliminates most of the accidental variation in calibrations and provides the most satisfactory means for intercomparing the performance of the three instruments. In practice, the means have been found from those days in a month on which observations were made and are presented in Table 1.

The observations made with the horn antenna provide an absolute determination of the solar flux and consequently the ratios provide the means for an absolute determination of the solar flux observed with the other two antennas. Thus, from Table 1, the average value of the ratio of ARO/Horn of 1.050 provides a multiplier of 0.952 for the ARO series of observations when it is necessary to obtain the absolute value. This correction of -5% is within the range of $\pm 7\%$ estimated for the error of the first absolute determination of these observations made in 1952. For the present determination, the error is estimated as $\pm 2\%$. The correction found in 1968 will not be incorporated into the reported flux values in order to retain the uniformity in the scale for an extensive and widely used series of observations. This correction in no way affects the application of the series of observations involving studies of the relative solar radio flux.

*Burst In Progress

TABLE 1

1968		FLUX RATIOS		
MONTH	DAY	ARO GOTH HILL	ARO HORN	GOTH HILL HORN
MAR	7	1.040	—	—
APR	8	1.050	1.100	1.044
MAY	16	1.045	1.091	1.045
FEED HORN ADJUSTED				
JUN	18	.997	1.050	1.053
JUL	15	1.006	1.057	1.051
AUG	17	1.001	1.060	1.054
SEP	17	1.000	1.041	1.038
OCT	16	.995	1.041	1.050
NOV	14	.994	—	—
DEC	7	1.001	—	—
AVERAGE				
BEFORE		1.045	1.096	1.045
AFTER		.999	1.050	1.049

Routine Observations

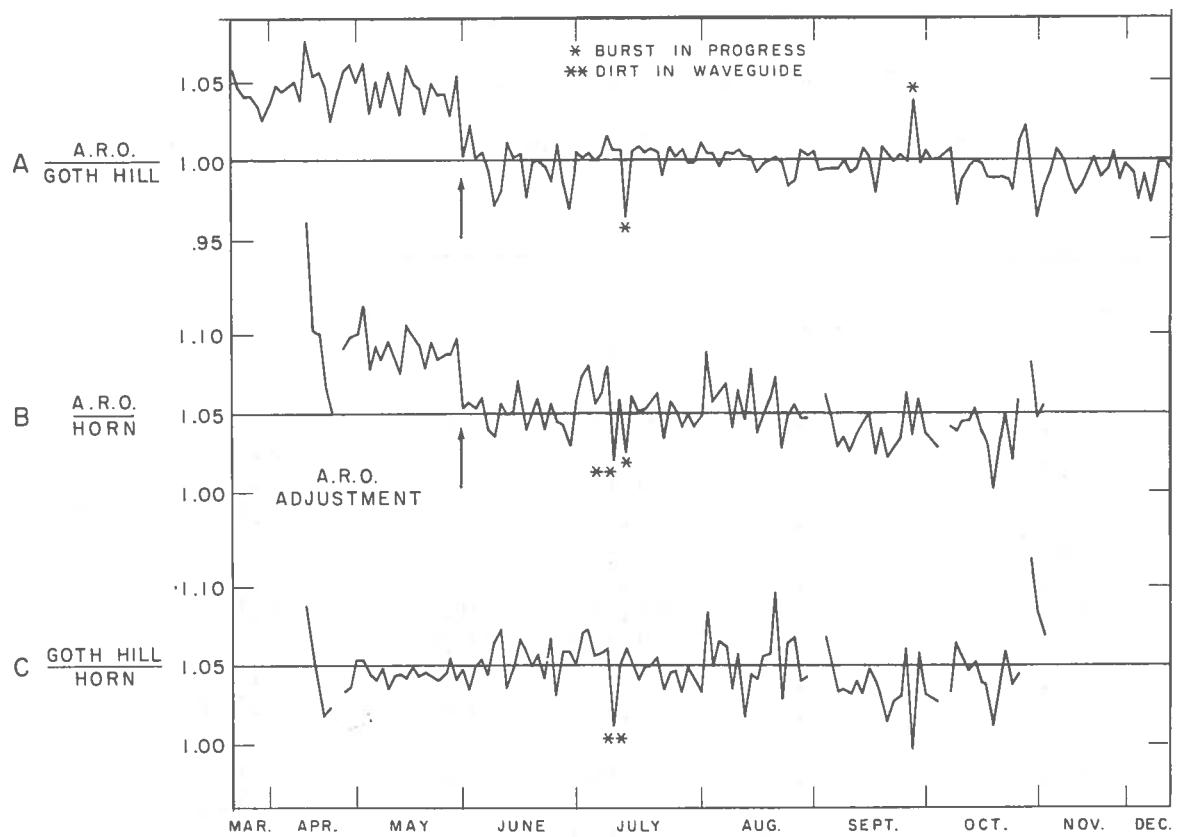
Tabulations of the solar radio flux observed on 2800 Mc/s at the Algonquin Radio Observatory, Lake Traverse, Ontario and on 2700 Mc/s at the Dominion Radio Astrophysical Observatory, Penticton, B.C. for the last six months of 1968, July–December are presented. The descriptive text for the basis of the tabulations have been published as ERB-780, January 1968. Convenient summaries of the flux observed at local noon for the whole year are presented as well as the same values adjusted to 1 A.U. Profiles of selected bursts are presented.

ADDENDUM FOR ERB-790**

DATE	URANE KEY	START CLASS	U.T.	PEAK DURATION	MEAN MAXIMUM FLUX	PEAK FLUX
January						
11	4	Post B.I.	17 11	0 50	----	6.0
February						
25	3	Simple 3	22 40	1 30	23 30	4.8

* Only observed at Penticton.

**(Private communication from University of Leicester)



RATIOS OF 2800 MC/S SOLAR FLUX OBSERVED BY THREE
INDEPENDENT RADIO TELESCOPES ON SELECTED DAYS DURING 1968

A - 1.8 METER REFLECTOR AT A.R.O. TO 1.2 METER REFLECTOR AT GOTH HILL.
B - 1.8 METER REFLECTOR AT A.R.O. TO STANDARD HORN AT GOTH HILL.
C - 1.2 METER REFLECTOR AT GOTH HILL TO STANDARD HORN AT GOTH HILL.

Figure 1

July 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

Flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

<u>O T T A W A</u>				<u>P E N T I C T O N</u>		
1968	Observed	adj. to 1 A.U.	17:00	Observed	Adj. to 1 A.U.	19:35
July	14:00 17:00 20:00					
1	123.4	124.1	121.9	128.3	119.2	123.3
2	115.6	116.3	113.1	120.3	110.9	114.7
3	111.8	113.3	114.0	117.2	110.0	113.7
4	114.3	112.2	113.9	116.0	110.7	114.5
5	114.0	115.5	114.4	119.4	112.6	116.4
6	115.3	116.2	116.9	120.1	117.1	121.1
7	124.9	130.6	130.5*	135.0	127.4*	131.7*
8	142.0	142.3*	141.5	147.1*	133.7*	138.2*
9	148.0	148.6	147.6*	153.6	140.7*	145.5*
10	154.0	151.8	150.9	157.0	146.1	151.1
11	154.9	157.4	158.6	162.8	150.3*	155.4*
12	B.I.P.	160.8	155.1	166.1	151.5	156.5
13	152.9	150.6	149.3*	155.6	146.1	150.9
14	147.0	150.9	151.4	155.9	146.2	151.0
15	142.5	143.2	141.9	147.9	136.6	141.1
16	143.7	144.7	144.7	149.5	140.3	144.9
17	141.6	139.0	136.5	143.6	131.5	135.8
18	129.6	130.9	129.4	135.2	125.1	129.2
19	131.6	131.0	129.2	135.3	126.0	130.2
20	133.1	129.6	128.5	133.9	123.2	127.3
21	128.9	128.9	129.9	133.0	124.3	128.3
22	130.3	134.7	133.4	139.0	128.4	132.5
23	139.8	141.6	145.1	146.1	142.7	147.3
24	144.1	148.0	146.7	152.7	141.1	145.6
25	150.9	153.3	152.8	158.2	148.1	152.8
26	148.8	149.6	150.0	154.4	144.7	149.3
27	141.0	142.4	137.7	146.8	137.1	141.4
28	139.2	139.3	138.7*	143.6	134.6*	138.8*
29	139.8	140.0*	139.7*	144.3*	137.7	142.0
30	135.8	134.4	134.5	138.6	129.3	133.3
31	130.3	130.8	132.8	134.7	127.1	130.9
Mean	135.6	137.2	136.5	141.7	132.3	136.6

*Adjusted for burst

Monthly Report No. 258

July, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
July			H M	H M	H M		
1	3	Simple 3	14 20	2 40	15 45	3.4	1.7
4	{ 2	Simple 2	11 43	0 08	11 47	11.2	5.6
	4	Post B.I.	11 51	1 00	---	5.6	2.8
5	3	Simple 3	20 45	1 45	21 40	2.2	1.1
	1	Simple 1F	22 45	0 01.5	22 45.8	2.4	1.2
6	3	Simple 3	00 30	0 30	00 40	2.4	1.2*
	1	Simple 1F	16 53	0 02	16 54	4.8	2.4*
7	3	Simple 3	12 06	0 10	12 11	2.0	1.0
	2	Simple 2	13 04.7	0 01	13 04.9	26.2	6.4
		Rise	16 10	0 25	---	3.5	---
	{ 3	Simple 3A	17 00	5 25	17 55	12.6	5.8
	2	Simple 2	17 57.5	0 23	18 01.7	52.0	23.0
	{ 2	Simple 2F	19 11.5	0 04	19 12.5	10.0	5.0
8	{ 3	Simple 3A	00 45	>0 50	01 00	9.0	----
	{ 2	Simple 2	00 51	0 03	00 52	10.0	3.0*
	3	Simple 3	11 30	0 50	12 05	3.8	1.9
	{ 3	Simple 3A	15 55	3 20	16 50	9.0	4.5
	{ 3	Simple 3A	15 57	0 25	16 05	3.0	1.5
	{ 1	Simple 1	15 57	0 05	15 59	3.4	1.7
	{ 1	Simple 1	16 03.5	0 03	16 04.5	3.4	1.4
	2	Simple 2	16 32.5	0 15	16 35.5	64.0	16.0
		Great burst	17 04	0 43	17 12	1380.0	275.0
	{ 4	Post B.I.	17 47	0 50	---	24.0	12.0
	3	Simple 3	19 15	0 40	19 30	4.2	2.1
	{ 2	Simple 2F	20 05	0 10	20 08	25.0	12.5
	{ 4	Post B.I.A.	20 15	1 50	---	5.6	2.8
	{ 1	Simple 1	21 09	0 01.5	21 09.8	5.2	2.6
	{ 4	Post B.I.	21 10.5	0 20	---	2.2	1.1

*Only observed at Penticton

Monthly Report No. 258 July, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
July 9		Rise	H M 00 30	H M 0 15	H M ---	3.4	---*
	3	Simple 3	13 08	0 45	13 12	3.4	1.7
	3	Simple 3A	18 07	7 00	19 45	12.4	6.2
	2	Simple 2F	18 07	0 26	18 19.2	200.0	86.0
	4	Post B.I.	18 33	0 30	---	10.8	5.4
10	3	Simple 3	14 40	0 50	14 55	2.4	1.2
		Rise	22 05	0 05	---	3.4	---
		Irregular Activity	22 30	0 08	22 33	5.0	---
	3	Simple 3A	23 00	2 30	23 30	10.8	5.4
	1	Simple 1	23 00	0 06	23 03.5	5.8	2.9
	3	Simple 3	25 00	0 20	25 05	6.4	3.2*
11	3	Simple 3	11 10	2 10	11 35	6.6	3.3
	3	Simple 3A	17 30	2 30	18 00	6.8	3.4
	1	Simple 1	17 33	0 05	17 35	2.4	1.2
	2	Simple 2F	22 32.5	0 02.5	22 34	50.0	25.0
	4	Post B.I.A.	22 35	0 25	---	7.0	3.0
	1	Simple 1	22 37	0 02	22 37.5	3.0	1.5
12	6	Complex	00 00	0 21.5	00 10.2	111.0	64.0*
		1st Compl.	00 00	0 13	00 10.2	111.0	---
		2nd Compl.	00 13	0 08.5	00 14	104.0	---
	4	Post B.I.	00 21.5	>1 20	---	30.0	---*
		Rise	12 54	0 02	---	4.6	---
	3	Simple 3A	13 20	3 15	15 00	10.0	5.0
	2	Simple 2	13 44	1 15	14 02	320.0	124.0
	3	Simple 3	22 00	0 30	22 23	2.8	1.4
13	3	Simple 3	01 12	0 15	01 18	3.0	1.5*
	1	Simple 1	14 51	0 02	14 51.8	6.0	3.0
	3	Simple 3	19 55	0 25	20 03	2.4	1.2

Only observed at Penticton

July, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
July			H M	H M	H M		
14	3	Simple 3	00 15	0 35	00 21	6.0	2.4*
		Rise	14 20	0 25	---	4.0	---
		Rise	18 15	0 05	---	2.2	---
		Fall	20 00	0 30	---	3.0	---
15	3	Simple 3	17 40	1 30	18 18	4.0	2.0
16	2	Simple 2	00 28.5	0 04.5	00 31	30.0	13.0*
	4	Post B.I.	00 33	0 08	---	5.4	2.7*
	3	Simple 3	12 25	0 35	12 28	4.8	2.4
		Rise	13 10	0 20	---	4.2	---
20	2	Simple 2	01 24.5	0 05	01 26	11.0	5.0*
21	1	Simple 1F	13 32	0 04	13 33	4.6	2.3
22	3	Simple 3	13 38	0 13	13 42	3.4	1.7
24	3	Simple 3	11 30	1 35	11 50	3.8	1.9
	1	Simple 1	16 13	0 06	16 15	2.2	1.1
26	1	Simple 1F	12 32	0 05	12 33.2	6.0	3.0
	1	Simple 1	12 44.5	0 01.5	12 45	6.0	3.0
	1	Simple 1	19 10	0 09	19 12.5	9.0	4.0
	3	Simple 3	19 34	0 20	19 36	2.8	1.4
	3	Simple 3	20 25	1 25	20 30	7.2	3.6
	1	Simple 1	21 15	0 01	21 15.5	4.8	2.4
27	3	Simple 3	14 00	2 35	15 35	2.8	1.4
	3	Simple 3	18 00	1 20	18 20	4.4	2.2
28	3	Simple 3	19 20	2 20	19 23	5.6	2.8
29	3	Simple 3A	11 25	2 15	12 40	7.6	3.8
	1	Simple 1	11 43	0 04	11 44.5	5.6	2.8
	3	Simple 3	15 40	3 10	indet.	4.8	2.6
	3	Simple 3	19 30	2 40	20 05	6.6	4.0
30	3	Simple 3A	14 45	1 25	15 20	7.2	3.2
	1	Simple 1	15 17.8	0 01	15 18	4.8	2.4
	3	Simple 3	17 42	0 30	17 46	3.2	1.6
	2	Simple 2	20 29.3	0 08	20 31.5	108.0	30.0
	4	Post B.I.	20 37.3	0 10	---	4.4	2.2
		Absorption	21 35	1 10	22 20	-2.0	-1.0

*Only observed at Penticton

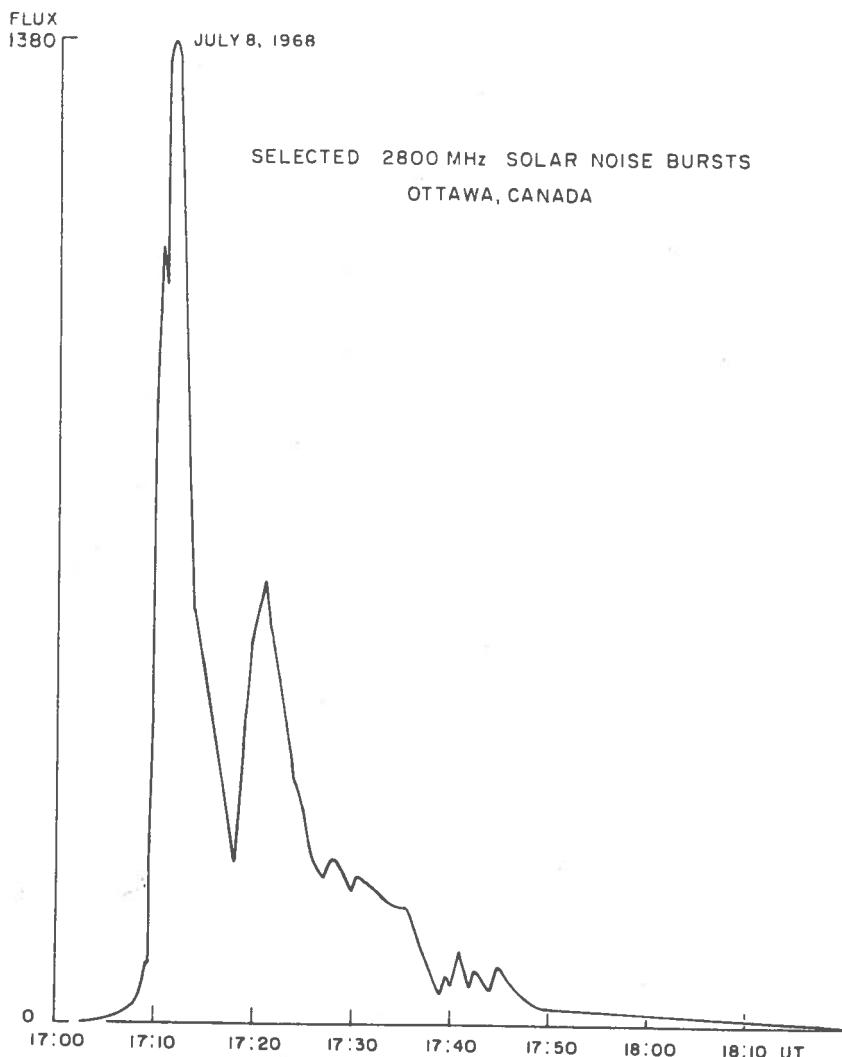


Figure 2

SELECTED 2800 MHz SOLAR NOISE BURSTS
 OTTAWA, CANADA

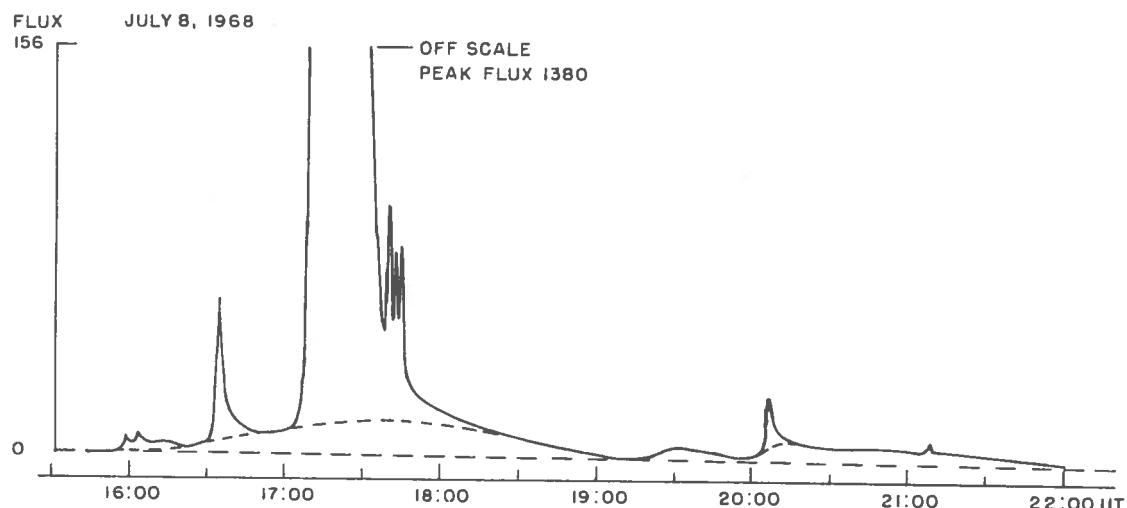


Figure 3

Monthly Report No. 259
August, 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

Flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

		<u>O T T A W A</u>			<u>P E N T I C T O N</u>	
1968		Observed		adj. to 1 A.U.	Observed	Adj. to 1 A.U.
Aug.		14:00	17:00	20:00	17:00	19:35
1		128.2	130.3	127.3	134.2	125.7
2		130.8	130.3	129.2	134.2	125.0
3		136.4	136.8*	134.6	140.9*	130.6
4		132.0*	131.8	132.8	135.6	129.7
5		130.7	132.1	129.1	135.9	125.1
6		143.4*	143.8	138.2	148.0	133.5
7		139.2	136.0	135.5	139.8	137.4
8		141.3*	137.9	138.2	141.8	132.7
9		137.6	142.7	140.8	146.7	134.8
10		141.6	142.7	141.4	146.6	136.9
11		145.3	146.7	146.8	150.7	141.1
12		156.2	157.4	156.7	161.6	149.8
13		162.6	166.5	166.3	170.8	161.8
14		176.5*	180.4*	179.8*	185.1*	176.0*
15		182.4	181.0	178.0	185.7	173.0*
16		175.1	174.6	173.3	179.0	166.6
17		164.2	165.1	165.6	169.2	162.1
18		160.5*	160.8	161.5	164.8	155.7*
19		157.4	156.1	156.2	159.8	149.2
20		154.5	156.2	156.1	159.9	-----
21		154.3	155.0	154.6*	158.6	149.2
22		150.2	150.3*	145.5	153.8*	143.5
23		137.7	134.7	132.3	137.7	126.8
24		130.0	128.0	126.6	130.8	122.2
25		121.9	121.5	119.3	124.2	115.5
26		116.9	115.6	117.4	118.0	113.2
27		112.8	112.1	112.8	114.5	108.5
28		116.5	117.1	117.9	119.4	113.9
29		119.7	119.3	119.6	121.7	114.6
30		124.5*	123.2	125.2	125.5	120.5
31		121.6	121.2	123.4	123.5	117.5
Mean		142.0	142.2	141.4	145.7	136.2
						139.6

*Adjusted for burst

August 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
August							
			H M	H M	H M		
1	1	Simple 1	01 38.5	0 05	01 39.8	7.4	3.4*
	3	Simple 3	13 12	0 25	13 19	2.2	1.1
3		Absorption	13 05	0 55	13 45	-3.2	-1.6
	3	Simple 3	14 00	0 30	14 10	2.2	1.1
	3	Simple 3	16 00	2 20	17 25	4.0	2.0
4	3	Simple 3	13 30	2 55	14 45	4.4	2.2
	2	Simple 2	17 49	0 02	17 49.5	14.0	5.0
		Absorption	22 50	0 15	22 55	-2.4	-1.2
5	{ 2	Simple 2	14 28	0 04	14 30	12.0	5.4
	{ 4	Post B.I.	14 32	0 08	---	2.4	1.2
	1	Simple 1	15 18	0 01	15 18.3	2.4	1.2
	3	Simple 3	18 38	0 12	18 38.2	2.4	1.2
	3	Simple 3	20 54	0 15	20 55	3.6	1.8
6		Rise	00 07	0 05	---	3.6	---*
	{ 3	Simple 3A	13 10	2 45	13 50	6.6	3.3
	{ 2	Simple 2F	13 13	0 01.5	13 13.7	47.0	23.0
	{ 3	Simple 3A	13 18	0 12	13 25	4.8	2.4
	{ 1	Simple 1	13 19.5	0 02	13 20	3.6	1.8
	{ 1	Simple 1	13 23	0 01.5	13 23.8	5.2	4.0
	3	Simple 3	16 50	1 10	17 15	3.4	1.7
	1	Simple 1	20 52	0 04	20 53	2.0	1.0
	1	Simple 1F	21 49	0 50	21 51	2.4	1.6
	1	Simple 1F	22 29	0 06	22 32.5	3.8	1.4
7	6	Complex	00 01	0 10	00 01.5	4.8	2.0*
	3	Simple 3	13 15	0 45	13 50	2.6	1.3
		Absorption	18 45	1 05	19 20	-2.0	-1.0
	{ 3	Simple 3A	23 45	2 00	24 25	4.4	2.2*
	{ 7	Irregular Activity	23 48	0 09	23 52.5	39.0	---*

*Only observed at Penticton

August 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
			H M	H M	H M		
August							
8	3	Simple 3A	13 10	1 25	13 50	10.4	5.4
	2	Simple 2F	13 13.5	0 06	13 15	38.0	19.0
	4	Post B.I.	13 19.5	0 17	---	6.0	3.0
	3	Simple 3	14 35	0 55	14 45	5.2	2.6
	9	Pre	18 05	0 09	---	2.4	1.8
	2	Simple 2F	18 14	0 08	18 16.5	395.0	95.0
	4	Post B.I.	18 22	1 20	---	18.0	7.0
9	3	Simple 3A	16 08	0 45	16 15	5.0	2.5
	1	Simple 1F	16 08.9	0 01	16 09.5	3.6	2.0
	1	Simple 1	16 10.5	0 01.5	16 11	2.4	1.2
	3	Simple 3	23 10	1 15	23 30	2.6	1.3*
11	3	Simple 3A	16 35	1 55	17 40	3.8	1.9
	3	Simple 3A	16 35	0 25	16 50	7.2	3.6
	1	Simple 1F	16 36	0 04.5	16 38	6.2	3.1
	2	Simple 2F	16 44	0 05	16 46	30.0	15.0
	3	Simple 3F	21 45	0 25	21 55	4.4	2.2
	3	Simple 3	23 45	1 35	24 20	2.4	1.2*
12	1	Simple 1F	11 53.5	0 03	11 54	9.8	2.6
	3	Simple 3	16 10	0 30	16 15	2.2	1.1
	1	Simple 1	19 24	0 02	19 25	2.2	1.1
	3	Simple 3	21 10	0 50	21 43	2.4	1.2
13	2	Simple 2F	12 53.5	0 05	12 54.5	72.0	18.0
	1	Simple 1	17 27	0 02	17 28	3.6	1.8
	3	Simple 3A	21 00	2 10	21 40	3.8	1.9
	1	Simple 1	21 03	0 01	21 03.2	3.0	1.5
	3	Simple 3	23 40	>2 00	indet.	9.0	---*
14	6	Complex F	13 26	0 21	13 38.5	114.0	57.0
	1st Compt.		13 26	0 04	13 27	34.0	---
	2nd Compt.		13 30	0 12	13 38.5	114.0	---
	3rd Compt.		13 42	0 05	13 44	45.0	---
	4	Post B.I.	13 47	1 00	---	14.0	3.5

*Only observed at Penticton

August 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
August							
			H M	H M	H M		
14	{ 3	Simple 3A	15 23	0 40	15 27	5.0	2.5
	{ 1	Simple 1	15 28	0 04	15 29.5	5.0	2.5
	{ 3	Simple 3A	16 20	1 20	16 35	6.0	3.0
	{ 1	Simple 1	16 31	0 03	16 32	4.6	2.3
	3	Simple 3F	18 20	2 30	19 45	6.8	3.4
15	1	Simple 1	11 09	0 01.5	11 09.5	3.6	1.8
		Rise	11 40	0 05	---	3.0	---
	3	Simple 3	14 10	0 50	14 30	3.0	1.5
	3	Simple 3	18 40	1 45	19 40	5.2	2.8
16	1	Simple 1	00 10	0 07	00 14	4.2	2.1*
	3	Simple 3	12 40	0 25	12 45	3.0	1.5
		Rise	13 25	0 05	---	3.0	---
	1	Simple 1	15 40	0 08	15 42.5	2.4	1.2
	{ 2	Simple 2	15 57	0 07	16 00	32.0	15.0
	{ 4	Post B.I.	16 04	0 40	---	3.0	1.5
	3	Simple 3	19 20	0 45	20 28	6.0	2.6
		Absorption	22 30	1 10	23 25	-3.4	-1.7
	{ 6	Complex F	23 45.5	0 04	23 48.5	15.0	7.4*
	{ 4	Post B.I.A.	23 49.5	0 40	---	5.0	2.5*
	{ 1	Simple 1	24 01	0 05	24 03.5	2.6	1.3*
17	3	Simple 3	12 50	0 50	13 10	2.6	1.3
	3	Simple 3	21 04	0 15	21 06	4.0	2.0
	3	Simple 3	11 54	0 45	11 56	4.2	2.1
18	{ 3	Simple 3A	13 25	1 55	13 35	7.8	3.9
	{ 1	Simple 1F	13 31.5	0 02.5	13 32	9.0	4.0
	3	Simple 3F	17 50	3 40	18 15	4.2	2.1
19	3	Simple 3	15 30	0 35	15 41	3.4	1.7
20	1	Simple 1	13 23.3	0 00.5	13 23.8	7.2	3.6
	2	Simple 2F	15 26	0 05	15 28	20.0	7.0
	1	Simple 1	15 35	0 01.5	15 36	2.4	1.2

*Only observed at Penticton

August 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
August							
			H M	H M	H M		
20	6	Complex	15 40	0 03	15 40.3	7.8	3.2
	1	Simple 1F	15 57	0 01	15 57.6	8.0	4.0
	3	Simple 3A	21 00	4 20	21 55	7.0	3.5
	2	Simple 2	22 14.5	0 02.5	22 15	14.0	3.5
	2	Simple 2	23 15.5	0 04	23 16	115.0	36.0
	4	Post B.I.	23 19.5	0 15	---	5.2	2.6
21	3	Simple 3	11 15	0 30	11 30	3.8	1.9
	3	Simple 3	11 55	0 20	12 00	3.8	1.9
	1	Simple 1	13 32	0 01.5	13 32.8	3.0	1.5
	2	Simple 2F	15 33	0 09	15 36.5	124.0	46.0
	4	Post B.I.	15 42	0 14	---	8.6	2.9
	1	Simple 1	16 35	0 01.5	16 35.5	3.8	1.9
	1	Simple 1	18 06.8	0 02.2	18 08	7.0	5.0
	4	Post B.I.	18 09	0 05	---	2.4	1.2
	8	Group (3)	18 38.5	0 05	---	---	---
	2	Simple 2	18 38.5	0 01	18 39	10.0	5.0
	1	Simple 1	18 39.5	0 01	18 40	3.0	1.5
	2	Simple 2	18 41.5	0 01.5	18 42	19.0	9.5
	6	Complex	19 33	0 08	19 34.5	~300.0	---
		1st Compt.	19 33	0 03	19 34.5	~300.0	---
		2nd Compt.	19 36	0 05	19 37.2	~190.0	---
	4	Post B.I.	19 41	1 00	---	18.0	9.0
		Absorption	20 45	1 35	21 15	-3.6	-1.8
	1	Simple 1	23 54.5	0 02	23 55.5	4.2	2.1*
22	3	Simple 3AF	15 00	2 10	16 13	6.2	3.1
	1	Simple 1	15 54	0 05	15 55	4.6	2.3
	3	Simple 3A	17 50	0 30	18 00	3.8	1.9
	1	Simple 1	17 53	0 03	17 54	7.8	3.9
	1	Simple 1	19 41.5	0 03.5	19 42.5	3.8	1.7
	3	Simple 3	21 30	3 30	22 45	6.6	3.3

*Only observed at Penticton

August, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
August			H M	H M	H M		
23	3	Simple 3A	11 06	1 10	11 35	7.6	3.8
	6	Complex F	11 06	0 10	11 08	42.0	21.0
		1st Compt.	11 06	0 04	11 08	42.0	---
		2nd Compt.	11 10	0 06	11 12	26.0	---
	2	Simple 2	12 07.5	0 04	12 19	15.0	6.8
	1	Simple 1	13 14	0 02	13 15	3.0	1.5
	3	Simple 3	14 55	0 20	15 00	3.4	1.5
29		Rise	00 34	0 03	---	5.2	---
	2	Simple 2F	00 37	0 05	00 38	66.0	20.0*
	2	Simple 2	00 46.2	0 01.5	00 46.8	20.0	10.0*
30	3	Simple 3F	11 20	4 15	12 00	9.2	4.6
31	7	Irregular Activity	18 21	0 03	18 23.8	6.0	---
	7	Irregular Activity	18 29	0 06	18 33	48.0	---

*Only observed at Penticton

September, 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

Flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

		<u>O T T A W A</u>			<u>P E N T I C T O N</u>	
1968		Observed	adj. to 1 A.U.	17:00	Observed	Adj. to 1 A.U.
Sept.	14:00	17:00	20:00	17:00	19:35	19:35
	1	127.1	127.2*	125.4	129.5*	123.7
	2	131.2	131.8	131.8	134.2	130.1
	3	140.3	140.4*	139.0	142.8*	137.0
	4	141.9*	140.8	139.1	143.2	138.8
	5	138.6	137.4	139.1	139.6	133.7
	6	133.6	133.9	132.6	136.0	131.8
	7	136.7	139.0	139.5	141.1	136.8
	8	147.6*	147.2	144.3	149.4	144.1
	9	149.3	147.3	151.8	149.4	146.9
	10	162.2	154.0	153.5	156.2	150.7
	11	152.8	150.5	152.0	152.5	147.6
	12	154.8	154.0	155.0	156.0	149.8
	13	150.8	148.7	150.1	150.6	148.3
	14	144.9	144.8	142.4	146.7	139.3
	15	136.8	134.2	132.7	135.7	130.2
	16	133.1	130.6	129.8	132.0	126.0
	17	130.6	130.2	129.8	131.5	---
	18	127.7	127.6	125.3	128.7	126.5
	19	125.6	126.2	126.6	127.3	123.4
	20	125.8	126.4	125.3	127.4	120.9
	21	133.5	132.5*	131.5	133.6*	127.0
	22	127.7	126.6	127.3	127.5	123.6
	23	126.2	125.9	128.0	126.8	123.8
	24	140.7	142.1	141.9	143.0	137.1
	25	157.2	157.3*	157.1	158.1*	152.0*
	26	161.1*	159.2*	160.2	160.0*	154.0*
	27	157.3	157.2	154.9	157.8	150.0
	28	159.8	158.2	157.6	158.8	153.4
	29	153.8	153.5*	151.0	154.0*	147.4
	30	143.2*	143.9	142.5	144.3	140.1
	Mean	141.7	141.0	140.6	142.5	137.8

*Corrected for Burst.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Sept.			H M	H M	H M		
1	{ 3	Simple 3A	00 42	0 55	00 43	4.0	2.0*
	{ 7	Irregular Activity	00 47	0 02	00 48	7.9	---
	{ 3	Simple 3A	16 15	0 50	16 30	2.0	1.0
	{ 1	Simple 1	16 17.5	0 03.5	16 19	2.6	1.3
		Spike	16 22	---	16 22	2.0	---
	{ 1	Simple 1	16 23	0 01	16 23.4	3.0	1.2
	{ 3	Simple 3	20 05	0 25	20 12	2.6	1.3
	{ 3	Simple 3	20 45	3 25	21 40	3.2	1.6
2	2	Simple 2F	01 04	0 03	01 05	15.0	8.0*
	3	Simple 3	20 05	2 50	21 35	5.0	2.5
3	3	Simple 3	16 20	0 50	16 25	2.0	1.0
4	{ 6	Complex F	00 29	0 28	00 40.5	135.0	48.0*
		1st Compt.	00 29	0 20	00 40.5	135.0	---
		2nd Compt.	00 49	0 08	00 51.7	94.0	---
	{ 4	Post B.I.A.	00 57	>0 47	---	38.0	---
	{ 1	Simple 1	01 02	0 01	01 02.5	4.2	2.1*
	{ 1	Simple 1F	01 03	0 03	01 04	7.4	3.7*
	{ 3	Simple 3	12 00	1 30	12 10	4.8	2.4
	{ 3	Simple 3	13 35	0 35	13 55	3.6	1.8
		Absorption	14 10	0 45	14 45	-3.6	-1.8
	{ 1	Simple 1	18 59.8	0 07	19 00	2.6	1.3
	{ 2	Simple 2	21 58	0 05	21 59.3	56.0	20.0
	{ 4	Post B.I.	22 03	0 50	---	5.0	2.5
5	1	Simple 1	01 13.8	0 02	01 14.1	5.0	2.5
	{ 3	Simple 3A	15 00	0 40	15 10	2.0	1.0
	{ 1	Simple 1	15 03	0 01	15 03.5	3.6	1.8
	2	Simple 2	20 50	0 03	20 52	11.0	4.0
	1	Simple 1	21 33.9	0 01	21 34.2	2.6	1.3

*Only observed at Penticton

Report No. 260

September, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Sept.			H M	H M	H M		
6	{ 3	Simple 3A	13 40	3 30	15 00	5.8	2.9
	1	Simple 1	14 43	0 05	14 45.6	7.2	3.2
	{ 3	Simple 3	15 35	0 15	15 36	2.0	1.0
	1	Simple 1F	17 48	0 02	17 49.2	2.6	1.3
	1	Simple 1	23 28	0 03	23 29	7.4	3.6*
8	7	Irregular Activity	01 05	0 25	01 14.8	13.0	---
	{ 3	Simple 3A	12 15	2 15	13 25	6.0	3.0
	{ 2	Simple 2	12 35.5	0 06	12 37.5	20.0	8.4
	{	Absorption A	16 40	2 20	17 40	-3.6	-1.8
	{	Spike	18 12	---	18 12	5.4	---
	{ 1	Simple 1	18 30	0 07	18 34	1.8	0.9
9	2	Simple 2F	01 17	0 03	01 17.5	13.0	6.5*
	1	Simple 1	14 57	0 02	14 58	4.6	2.0
	{	Absorption A	17 05	0 25	17 20	-2.0	-1.0
	{ 1	Simple 1	17 23.5	0 02.5	17 24.5	2.6	1.3
	{ 1	Simple 1F	17 47.5	0 02.5	17 48	8.2	4.1
	{ 4	Post B.I.	17 50	0 05	---	2.6	1.3
	{	Absorption A	18 00	1 10	18 35	-2.8	-1.4
	{ 1	Simple 1	18 49	0 03	18 50	4.6	2.3
10	2	Simple 2	11 44	0 02	11 45.2	10.6	5.3
	1	Simple 1F	19 10	0 01.5	19 11	7.0	3.5
	1	Simple 1	19 37.5	0 02	19 37.8	3.6	1.8
	2	Simple 2	20 12.5	0 02	20 12.8	14.0	5.0
11	2	Simple 2	00 13	0 02.5	00 13.8	53.0	13.0**
	3	Simple 3	20 00	1 35	20 35	3.0	1.5
12	3	Simple 3	21 30	2 00	21 51	4.8	2.4
13		Rise	17 05	0 05	---	2.8	---
		Fall	21 30	0 30	---	2.8	---
14	3	Simple 3F	12 40	1 15	13 07	3.6	1.8
	{ 3	Simple 3A	22 05	1 00	22 20	2.8	1.4
	{ 1	Simple 1F	22 17.5	0 03	22 17.7	6.4	3.0

* Only observed at Penticton

** in sunset oscillations

September 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Sept.			H M	H M	H M		
17	3	Simple 3	17 05	1 40	17 15	2.0	1.0
	{	Rise A	20 27	0 04	---	2.0	---
		1 Simple 1	20 27.5	0 03	20 29.2	6.0	3.0
19	1	Simple 1	12 26	0 03	12 27	4.8	2.4
	3	Simple 3	18 17	0 10	18 17.2	2.2	1.0
21	3	Simple 3	16 10	3 30	17 15	2.6	1.3
	3	Simple 3	21 40	2 40	22 35	4.6	2.3
24	3	Simple 3	14 15	2 05	15 15	3.6	1.8
	1	Simple 1	16 38.5	0 01.5	16 39.5	2.4	1.2*
	3	Simple 3	22 20	1 40	indet.	2.4	1.2*
25	{	Rise A	13 38	0 05	---	6.0	---
		1 Simple 1	13 41.6	0 00.8	13 41.9	4.8	2.4
		1 Simple 1	13 45	0 05	13 46	4.8	2.4
		3 Simple 3AF	14 05	6 00	15 50	12.6	6.3
		3 Simple 3	14 10	0 12	14 12	8.2	4.1
		6 Complex F	14 29	0 19	14 41.8	92.0	37.0
		1st Compt.	14 29	0 12	14 34.5	55.0	---
		2nd Compt.	14 41	0 03	14 41.8	92.0	---
		3rd Compt.	14 44	0 04	14 46	88.0	---
		4 Post B.I.A.F.	14 48	0 50	---	24.0	9.0
		2 Simple 2F	14 51	0 05	14 52	12.0	8.0
		1 Simple 1F	15 02	0 03	15 03.5	8.4	4.2
		1 Simple 1	16 57.5	0 02	16 58.5	2.4	1.2
		3 Simple 3F	18 20	0 15	18 25	2.4	1.2
		1 Simple 1	19 10	0 02	19 10.5	2.4	1.2
26	3	Simple 3F	00 00	0 19	00 10	7.4	3.7*
	6	Complex F	00 26	0 18	00 33.2	350.0	82.0*
		1st Compt.	00 26	0 06	00 30	260.0	---
		2nd Compt.	00 32	0 12	00 33.2	350.0	---

*Only observed at Penticton.

September 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Sept.			H M	H M	H M		
26	3	Simple 3A	13 45	1 20	indet.	4.0	2.0
	6	Complex	13 58.5	0 03	14 00.2	30.0	7.4
	3	Simple 3	16 05	2 25	16 50	5.4	2.7
	3	Simple 3A	19 00	1 40	19 30	2.8	1.4
	2	Simple 2	19 25	0 04	19 26.5	13.6	6.8
	3	Simple 3	20 54	0 13	20 57.5	7.0	3.2
	3	Simple 3A	21 45	1 15	22 06	5.8	2.9
	2	Simple 2F	21 52	0 07	21 55.5	12.0	3.0
	3	Simple 3	14 20	1 20	14 50	2.2	1.1
	3	Simple 3	15 55	0 10	16 00	2.6	1.3
27	1	Simple 1	16 59	0 04	17 00	2.6	1.3
	1	Simple 1	21 15	0 15	21 22	2.0	1.0
	3	Simple 3	23 07	0 40	23 08	2.8	1.4*
	6	Complex F	12 09	0 05	12 12	6.4	3.0
	3	Simple 3	13 10	0 15	13 16	2.2	1.1
	1	Simple 1	14 43	0 07	14 45	6.4	3.0
	2	Simple 2F	17 42	0 01.2	17 42.2	38.0	16.0
	1	Simple 1F	17 47.5	0 04	17 47.6	3.0	1.5
	1	Simple 1	20 56.2	0 00.8	20 56.5	3.0	1.5
	1	Simple 1	21 20.5	0 00.5	21 20.7	3.0	1.5
28	3	Simple 3A	22 40	0 55	22 50	2.8	1.4*
	1	Simple 1	22 43	0 02	22 43.5	3.8	1.9*
29	1	Simple 1	13 05	0 04	13 06	3.4	1.7
	3	Simple 3	14 10	1 00	14 35	4.0	2.0
	4	Great burst	16 16	0 34	16 21	580.0	145.0
	4	Post B.I.	16 50	1 15	---	10.2	2.8
30	3	Simple 3	12 30	3 30	14 20	5.8	2.9
	2	Simple 2	22 17	0 05	22 18.5	40.0	20.0
	4	Post B.I.	22.22	2 00	---	12.8	6.4

*Only observed at Penticton

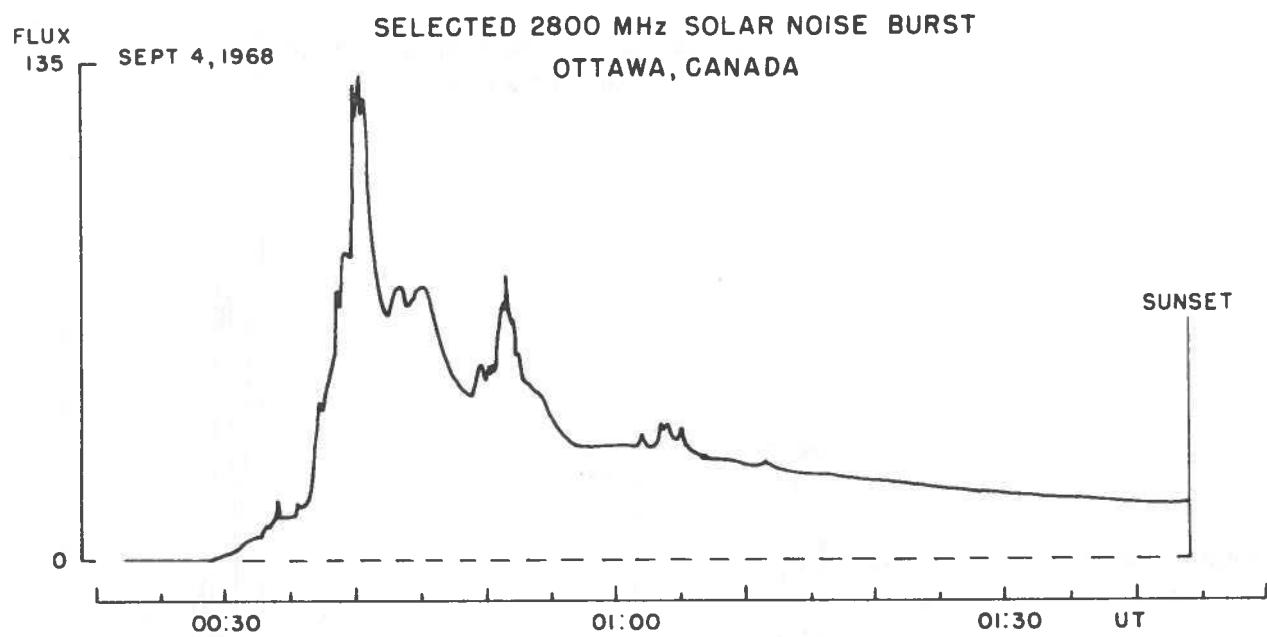


Figure 4

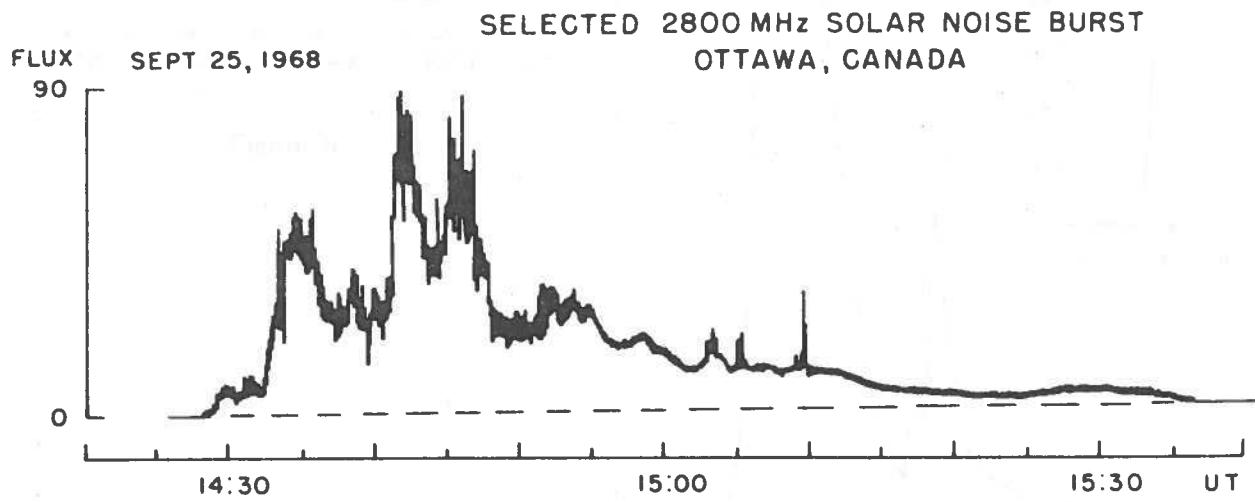


Figure 5

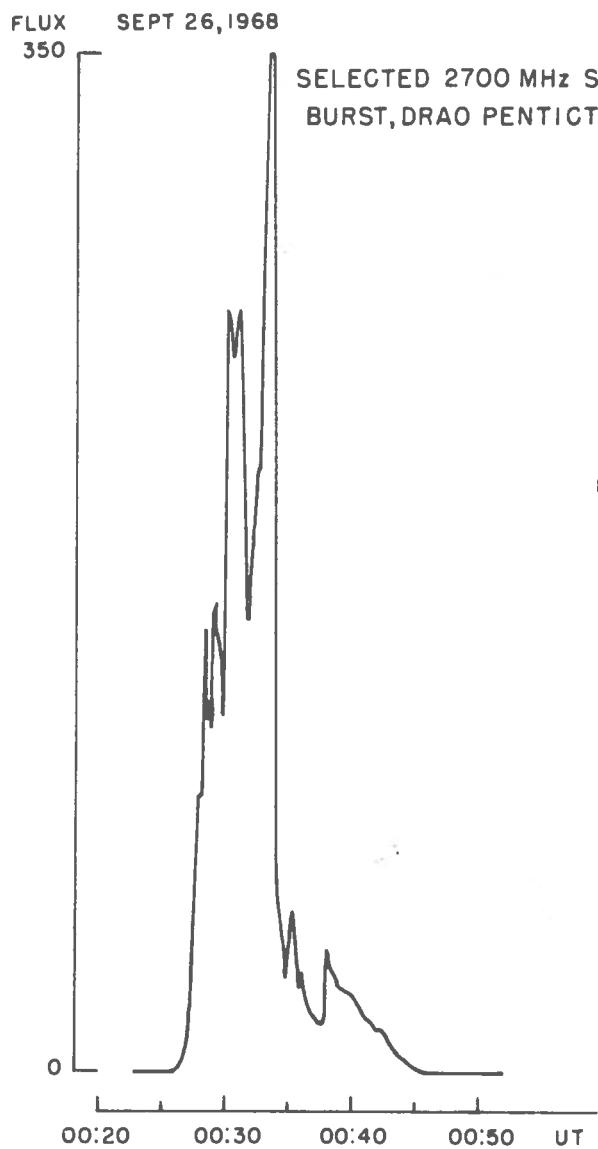


Figure 6

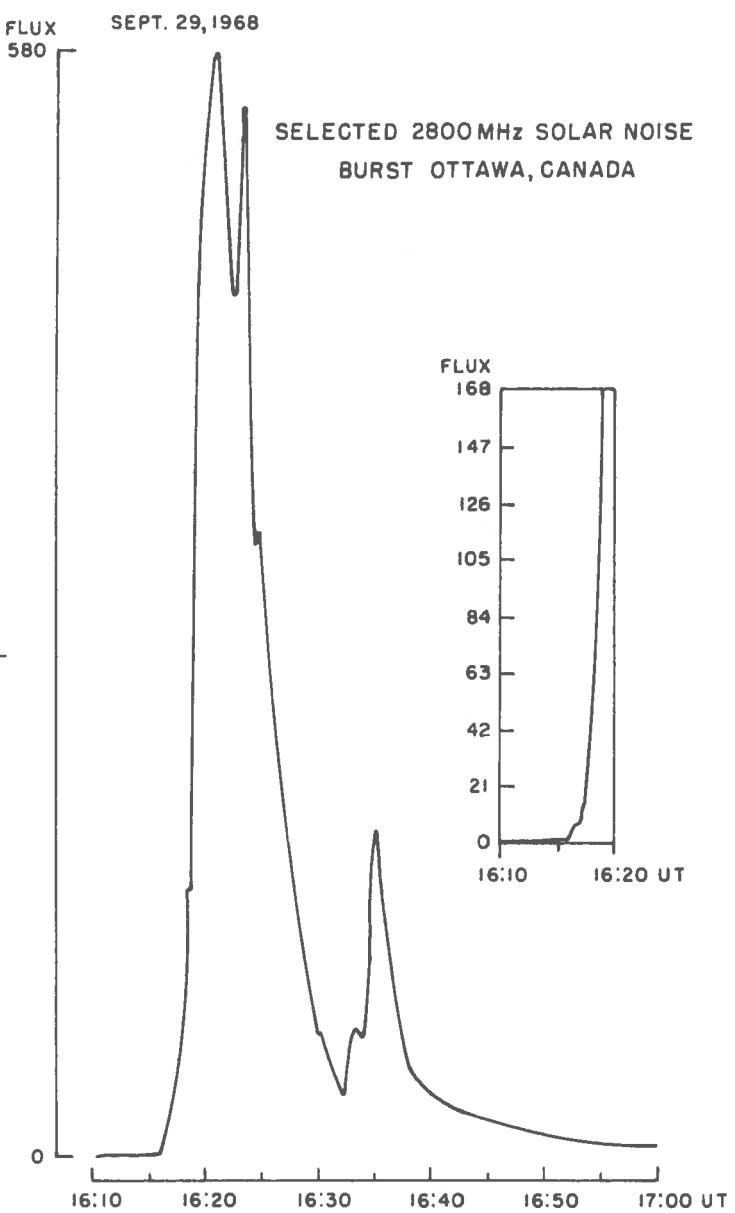


Figure 7

October 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

Flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

		<u>O T T A W A</u>			<u>P E N T I C T O N</u>	
1968		Observed	adj. to 1 A.U.		Observed	Adj. to 1 A.U.
Oct.	14:00	17:00	20:00	17:00	19:35	19:35
1	139.5	136.2	137.4	136.5	134.1	134.4
2	135.5	136.2	138.4	136.3	132.0	132.1
3	141.3	145.1	145.3	145.2	138.8	138.9
4	145.6	146.1	144.2	146.1	138.0*	138.0*
5	145.8	147.9	146.4	147.9	141.4	141.4
6	147.2	145.4	145.2	145.3	141.9	141.8
7	146.2	147.0	143.4	146.9	139.9	139.8
8	144.5	141.9	142.7	141.6	138.7	138.4
9	137.0	137.7	139.1	137.3	133.7	133.3
10	137.5	135.0	134.0	134.6	130.1	129.7
11	135.5	134.4	135.3	133.9	130.6	130.1
12	138.0*	137.3	136.7	136.8	132.7	132.2
13	126.1*	127.8	133.2	127.2	128.4	127.8
14	132.5	132.8	133.3*	132.1	126.5*	125.9*
15	138.2	137.8	137.4	137.0	134.3	133.5
16	136.8	138.2	138.5	137.2	135.2	134.3
17	143.7*	143.5	143.4	142.5	139.0	138.0
18	151.1	150.8	151.7	149.6	145.4	144.2
19	156.2	154.9	155.7	153.7	148.0	146.8
20	159.8	156.9	156.4*	155.5	151.7*	150.3*
21	165.1	164.8	162.0	163.3	157.3	155.9
22	165.5*	166.5*	170.2	164.8*	166.2	164.5
23	170.0	168.7	172.2	167.0	166.0	164.3
24	172.8	175.2	172.0	173.3	166.5	164.7
25	172.8	173.8	171.4	171.7	166.0*	164.0*
26	175.9	174.6	173.3	172.5	173.0	170.9
27	---	175.1*	174.8	172.8*	171.6	169.4
28	173.3	173.3	174.3	171.0	169.0	166.8
29	206.4*	193.8	174.1	191.1	171.2	168.8
30	165.5*	166.2*	158.8	163.9*	158.0	155.8
31	158.7	161.9	162.7	159.5	155.5	153.2
Mean	152.1	152.5	151.7	151.4	147.1	146.1

*Corrected for burst.

October 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Oct.			H M	H M	H M		
1	2	Simple 2F	00 32.9	0 01	00 33	13.0	6.5*
	{ 2	Simple 2F	00 35	0 22	00 49	260.0	77.0*
	{ 4	Post B.I.	00 57	>0 09	---	13.0	---
	1	Simple 1	23 52	0 02	23 52.5	3.8	1.9*
2	1	Simple 1	13 26	0 02	13 26.5	2.6	1.3
	{ 1	Rise A	20 03	0 20	---	4.6	---
	{ 1	Simple 1	20 05	0 03	20 06	1.8	0.9
	{ 2	Simple 2F	20 12	0 11	20 14	60.0	28.0
	{ 4	Post B.I.	22 23	0 15	---	2.4	1.2
		Absorption	20 50	0 45	21 20	3.4	1.7
	{ 3	Simple 3	22 57	0 20	23 03	3.4	---
	{ 7	Fluctuation	22 57.5	0 02.5	22 58	35.0	---
3		Incomplete	23 43	>1 15	24 04.5	78.0	---
4	{ 3	Simple 3A	18 10	2 25	19 05	5.4	2.7
	{ 3	Simple 3	18 38	0 10	18 40	3.8	1.9
	{ 1	Simple 1F	18 57.5	0 01.5	18 58.5	4.4	2.2
	{ 2	Simple 2F	21 23	0 10	21 26.5	65.0	32.0
	{ 4	Post B.I.A.	21 33	1 10	---	16.0	8.0
	{ 2	Simple 2F	21 38	0 08	21 39.5	14.6	7.0
	{ 3	Simple 3	21 53	0 09	21 55	5.2	2.8
5		Rise	12 35	0 40	---	7.4	---
	{ 3	Simple 3A	14 23	1 10	14 38	9.0	4.5
	{ 2	Simple 2F	14 26.5	0 07.5	14 28.8	36.0	18.0
		Fall	20 40	0 30	---	5.6	---
6	{ 3	Simple 3A	15 38	0 20	15 45	2.2	1.1
	{ 1	Simple 1F	15 40	0 01	15 40.5	3.0	1.5
	{ 3	Simple 3A	17 20	1 00	17 38	8.6	5.0
	{ 1	Simple 1	17 23	0 01	17 23.5	4.2	2.1
	{ 1	Simple 1	17 24.5	0 02	17 25.2	3.8	1.9
	{ 2	Simple 2F	17 34.5	0 01.5	17 35.5	15.0	11.0

*Only observed at Penticton

October, 1968.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Oct.			H M	H M	H M		
6	3	Simple 3	20 40	2 25	21 35	5.6	3.0
7	3	Simple 3	12 58	0 10	13 04	2.0	1.0
	3	Simple 3	15 03	1 05	15 10	6.0	4.0
8	1	Simple 1	16 03	0 02	16 04	2.4	1.2
9	1	Simple 1	16 10	0 01	16 10.5	6.4	3.2
10	1	Simple 1	13 41	0 01	13 41.5	5.0	2.0
11	1	Simple 1	17 11	0 03	17 11.5	4.4	2.2
	3	Simple 3	18 50	0 40	19 01	2.2	1.0
	6	Complex	23 23.5	0 10	23 25.8	5.8	2.4*
		1st Compt.	23 23.5	0 05.5	23 25.8	5.8	---
		2nd Compt.	23 29	0 04.5	23 30	4.4	---
12	3	Simple 3A	12 50	2 40	13 50	4.2	2.1
	1	Simple 1	15 18.5	0 02	15 19.5	2.2	1.1
	3	Simple 3	18 20	0 50	18 45	2.0	1.0
	3	Simple 3A	20 00	3 30	22 00	5.2	2.6
	2	Simple 2F	20 04	0 03	20 05	10.0	5.0
13	3	Simple 3F	13 39	2 40	13 55	5.0	2.5
		Rise	16 46	~0 05	---	6.6	---
	3	Simple 3	21 36	0 35	21 39	4.8	2.0
14	3	Simple 3	15 13	0 45	15 15	2.0	1.0
	3	Simple 3F	18 50	1 40	20 00	3.4	1.7
15	3	Simple 3	14 48	0 16	14 55	2.2	1.1
	1	Simple 1	20 37	0 02	20 37.5	3.8	1.9
16	1	Simple 1	18 15.5	0 04	18 17.2	4.0	2.0
	4	Post B.I.	18 19.5	0 15	---	1.8	0.9
	3	Simple 3F	20 10	2 45	21 15	3.2	1.6

* Only observed at Penticton

** Occurred during calibration

October, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
			H M	H M	H M		
Oct.							
17	3	Simple 3	12 55	2 15	14 10	4.8	2.4
	7	Irregular Activity	15 26.8	0 03	15 27	5.2	---
	3	Simple 3	16 06	>0 20	16 10	3.2	---
	2	Simple 2F	20 08.9	0 02	20 09.5	10.0	4.2*
	6	Complex	21 27.5	0 08	21 31.5	62.0	12.0*
		1st Compt.	21 27.5	0 03.5	21 29	16.0	---
		2nd Compt.	21 31	0 04.5	21 31.5	62.0	---
18		Absorption	14 34	1 00	14 57	-4.6	-2.3
	1	Simple 1	16 52	0 06	16 54.5	2.2	1.1*
	1	Simple 1	18 41	0 01	18 41.3	4.2	2.1
	3	Simple 3A	20 50	1 55	21 45	5.6	2.8*
	1	Simple 1	21 33.5	0 04	21 34.5	3.0	1.5*
19	1	Simple 1	12 51.5	0 01	12 52	6.6	3.3
	3	Simple 3A	18 50	0 35	18 58	2.4	1.2
	1	Simple 1	18 52	0 01	18 52.5	1.8	0.9
	3	Simple 3F	20 35	0 55	20 40	7.2	3.6
	3	Simple 3F	22 10	0 35	22 23	3.6	1.8*
20	1	Rise A	12 40	0 20	---	6.8	---
	1	Simple 1	12 42	0 01	12 42.6	7.2	3.6
	3	Simple 3 AF	18 00	3 10	19 50	7.0	3.5
	2	Simple 2F	19 26	0 01.5	19 27	14.0	5.0
21	3	Simple 3	13 04	0 50	13 08	3.6	1.6
	3	Simple 3	15 27	0 15	15 30	4.8	2.4
	3	Simple 3A	17 20	1 20	17 33	11.0	4.8
	1	Simple 1	17 29	0 02	17 29.5	6.6	3.0
	3	Simple 3A	21 25	1 35	22 20	5.6	2.6
	1	Simple 1	21 29.5	0 02	21 30.2	2.8	1.2
	1	Simple 1F	22 14	0 03	22 15	7.8	3.9*

*Only observed at Penticton

October 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Oct.			H M	H M	H M		
22	{ 3	Simple 3AF	13 30	5 10	15 15	13.0	6.5
	1	Simple 1	15 33	0 02	15 34	2.0	1.0
	1	Simple 1	15 36	0 02	15 37	5.6	2.0
	1	Simple 1F	16 16.5	0 06	16 17	9.4	4.0
	3	Simple 3A	16 55	1 10	17 00	9.2	4.6
	3	Simple 3	17 08	0 14	17 11	6.2	3.1
	2	Simple 2	19 27.5	0 03	19 27.7	15.0	4.0
	3	Simple 3	21 06	0 45	21 10	6.6	4.0
23	1	Simple 1F	13 15	0 03	13 16	9.0	4.4
	1	Simple 1	17 40	0 06	17 43	3.0	1.5
	1	Simple 1F	18 36.5	0 03	18 37.5	3.0	1.5
	1	Simple 1	19 27.8	0 00.5	19 28	3.0	1.5
	1	Simple 1	19 39	0 03	19 40	8.0	4.0
		Incomplete	23 53.5	>0 08	24 00	190.0	---
24	1	Simple 1	15 05	0 01.5	15 06	4.4	2.2
	{ 2	Simple 2F	20 45	1 35	21 34.5	180.0	64.0
	{ 4	Post B.I.	22 20	1 00	---	15.0	7.5
25	3	Simple 3A	15 20	0 50	15 45	6.4	3.2
	2	Simple 2	15 30.2	0 04	15 34	20.0	9.0
	{ 3	Simple 3A	19 05	0 45	19 25	4.8	2.4
	{ 3	Simple 3A	19 07	0 10	19 11.5	6.0	3.0
	1	Simple 1	19 07	0 02.2	19 08	7.6	3.8
	1	Simple 1	19 09.2	0 01.5	19 10	7.6	3.8
26	{ 3	Simple 3AF	16 37	1 00	16 50	13.0	5.0
	{ 2	Simple 2	16 37.5	0 04	16 38.5	16.8	7.0
	1	Simple 1F	18 57	0 03	18 57.5	5.6	2.8
	1	Simple 1	19 52	0 01.5	19 52.8	2.8	1.4
	3	Simple 3F	20 15	0 30	20 25	2.4	1.8
	1	Simple 1	21 26	0 01.5	21 26.9	2.8	1.4*

* Only observed at Penticton

October, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Oct.			H M	H M	H M		
27	{ 3	Simple 3AF	12 32	4 50	13 32	74.0	23.0
		Great Burst	12 32	0 20	12 36	570.0	95.0
	{ 6	Great Burst	13 06	0 25	13 19.5	610.0	230.0
	3	Simple 3	18 15	0 10	18 20	3.2	1.6
	3	Simple 3F	18 42	0 15	18 45	5.4	2.4
	1	Simple 1	19 57	0 05	19 59	5.4	2.7
28	1	Simple 1	16 29	0 02	16 30	12.6	6.0
	1	Simple 1	21 27	0 01	21 27.5	2.8	1.4*
29	7	Irregular Activity	12 30E	>0 50	12 50	14.0	---
	{ 3	Simple 3AF	13 37	1 05	13 50	7.2	3.6
	{ 1	Simple 1	13 39	0 02	13 39.5	9.0	4.5
	{ 1	Simple 1	14 24	0 02	14 24.5	7.2	3.6
	6	Great Burst	15 15.7	1 20	15 23	3900.0	1240.0
	{ 6	Complex	16 47.5	0 06	16 49	34.0	20.0
		1st Compt.	16 47.5	0 06	16 49	34.0	---
		2nd Compt.	16 51.5	0 02	16 52	34.0	---
	{ 4	Post B.I.	16 53.5	0 25	16 53.5	8.0	4.0
	1	Simple 1	17 08.5	0 02	17 09.3	5.6	2.8
	1	Simple 1	17 54.5	0 02	17 55	5.6	2.8
	3	Simple 3F	18 20	0 18	18 24	5.6	2.8
	1	Simple 1	21 01	0 01	21 01.5	2.5	1.2
	1	Simple 1	21 16.5	0 02	21 17	5.4	2.7
	1	Simple 1	21 36.8	0 01	21 37	3.0	1.5
	1	Simple 1	21 57	0 03	21 58	3.0	1.5

*Only observed at Penticton

October, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Oct.							
30	3	Simple 3AF	12 35	4 35	13 40	50.0	20.0
		1st Compt.	12 35	0 50	12 50	32.0	---
		2nd Compt.	13 25	3 45	13 40	50.0	---
	1	Simple 1	12 38	0 01	12 38.5	9.0	4.5
	7	Irregular Activity	13 35	0 10	13 40	12.0	---
	7	Irregular Activity	16 21.7	0 02	16 23.7	30.0	---
		Fall	19 05	0 50	---	6.4	---
	3	Simple 3	20 27	0 20	20 29	4.0	2.0
	6	Complex	23 43	>0 10	23 50	75.0	---* **
31	3	Simple 3AF	22 23	>1 25	22 38	30.0	---*
	6	Great Burst	22 47	0 28	23 01	890.0	400.0*
		1st. Compt.	22 47	0 10	22 52	570.0	---
		2nd Compt.	22 57	0 18	23 01	890.0	---

*Only observed at Penticton

**During Sunset

SELECTED 2700 MHz SOLAR NOISE BURST
DRAO PENTICTON B.C.

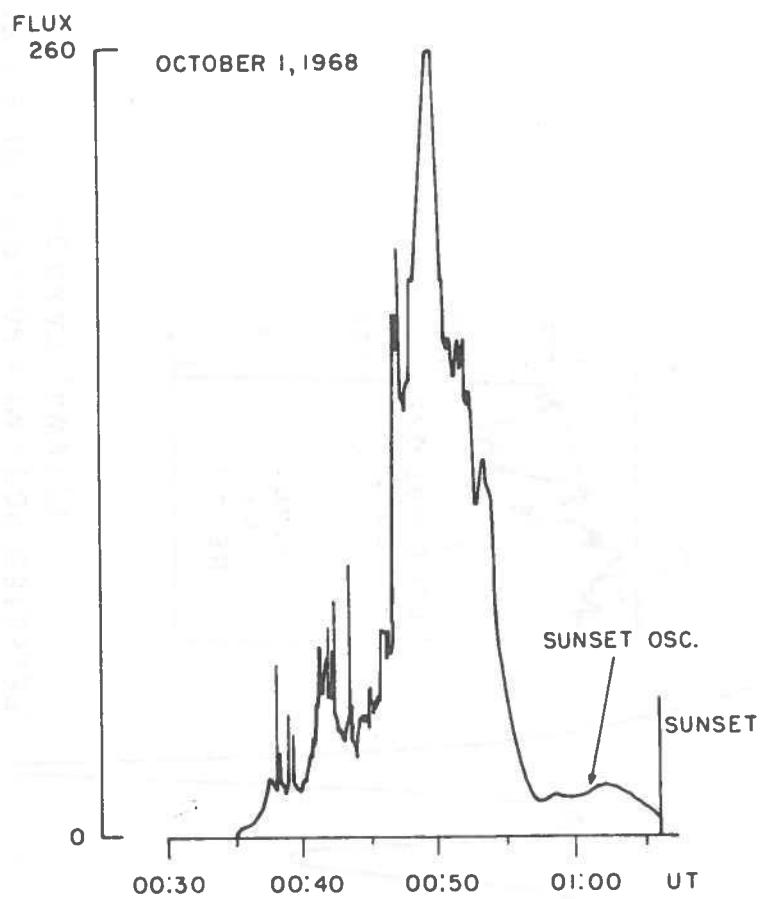


Figure 8

SELECTED 2700 MHz SOLAR NOISE BURST
DRAO PENTICTON B.C.

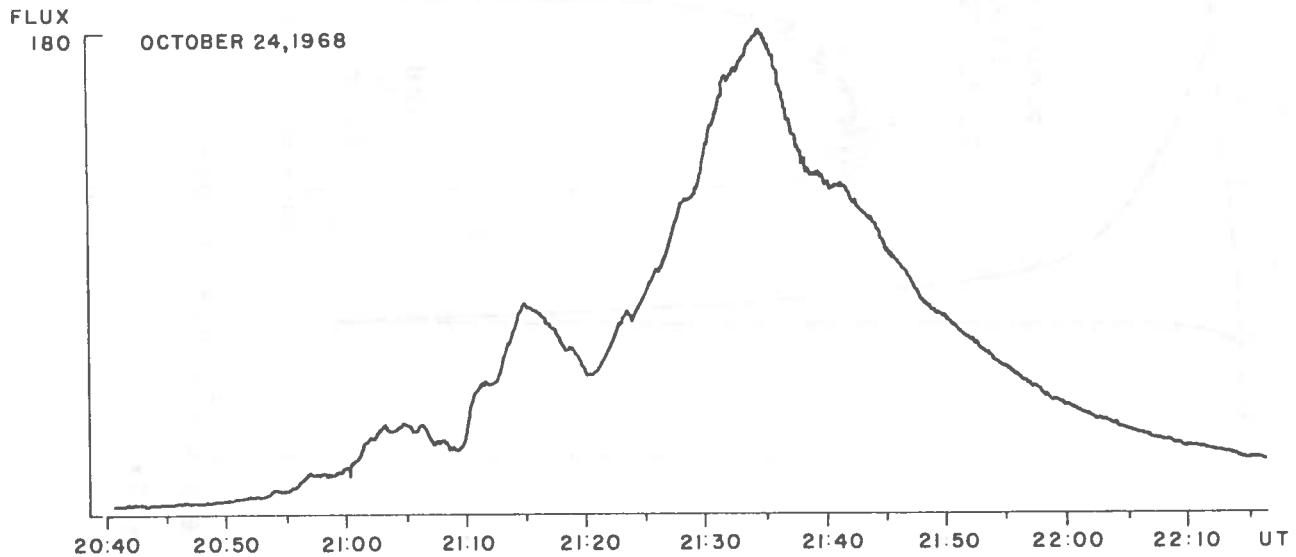


Figure 9

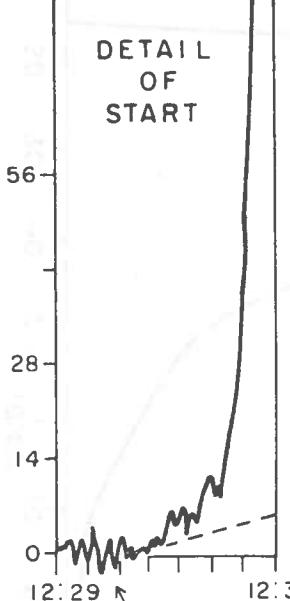
FLUX

670

OCTOBER 27, 1968

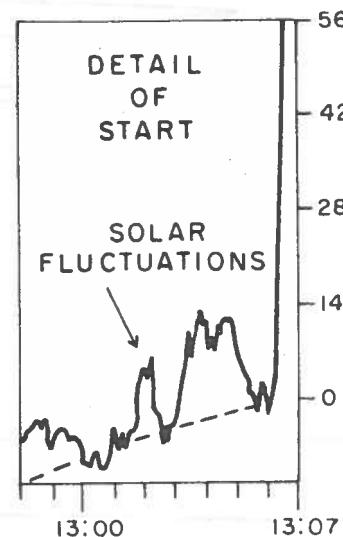
OUTLINE OF
SELECTED 2800 MHZ SOLAR NOISE BURST
OTTAWA, CANADA

DETAIL
OF
START



SCINTILLATIONS
IN EARTH'S
ATMOSPHERE

DETAIL
OF
START



0

30

40

50

60

13:00

10

20

30

40

50

U.T.
30 40 50 60 70 80 90 100
13:00 13:05 13:10 13:15 13:20 13:25 13:30 13:35 13:40 13:45 13:50 13:55 14:00

Figure 10

OUTLINE OF RECONSTRUCTED
2800 MHz SOLAR NOISE BURST
OCTOBER 29, 1968

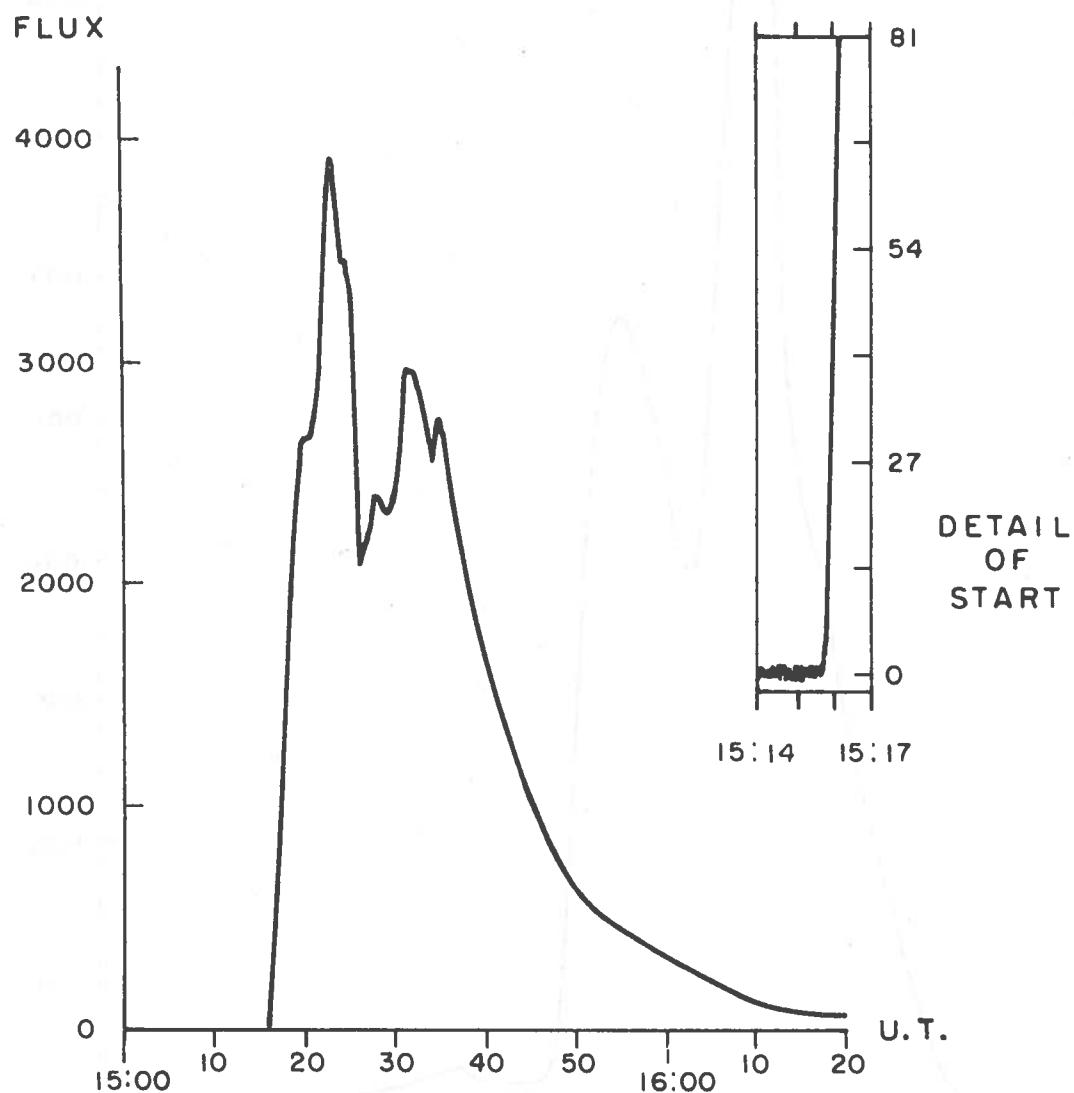


Figure 11

SELECTED 2700 MHz SOLAR NOISE BURST
DRAO PENTICTON B.C.

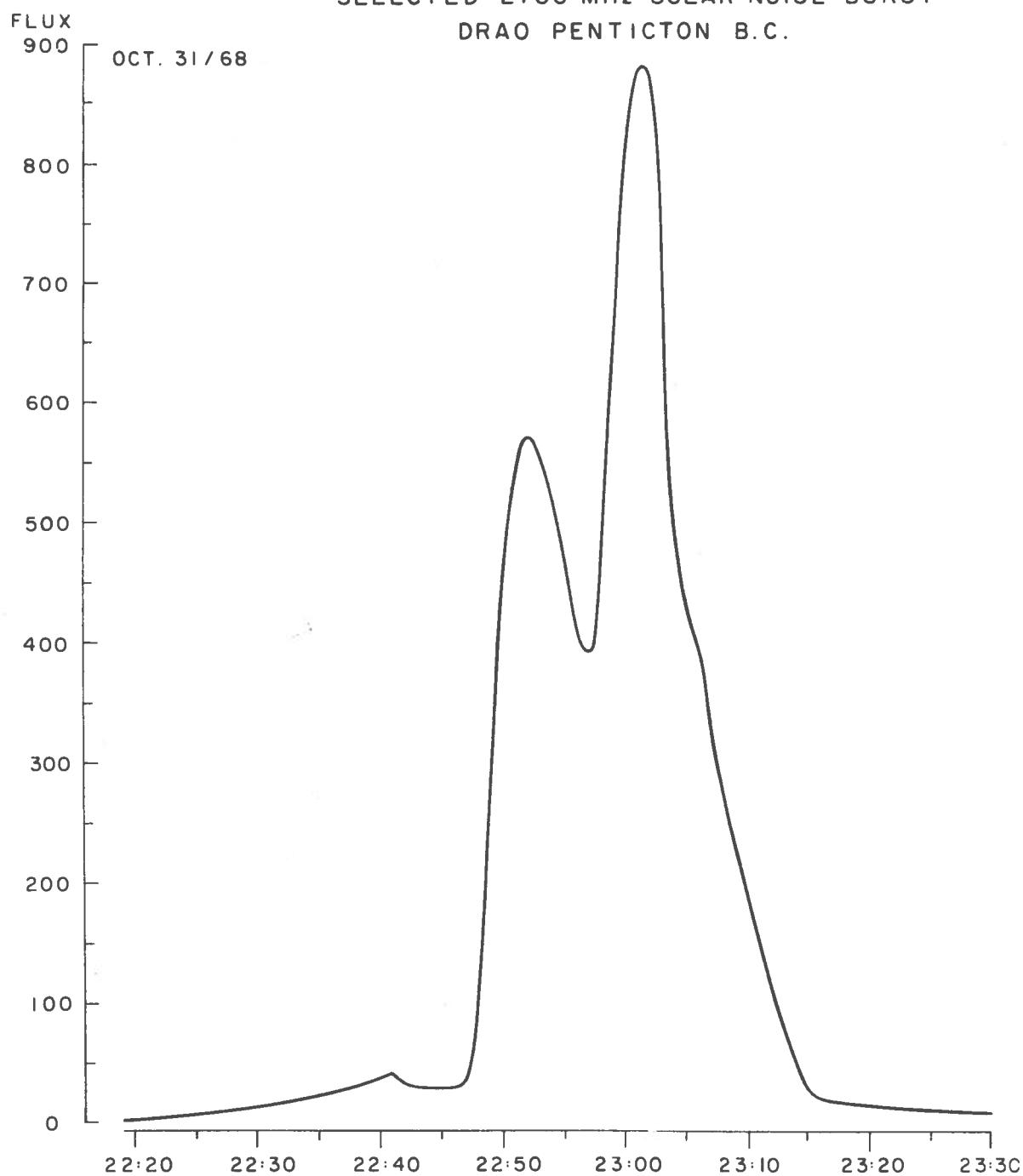


Figure 12

Monthly Report No. 262
November 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

		O T T A W A			P E N T I C T O N	
1968	Nov.	Observed		adj. to 1 A.U.	Observed	Adj. to 1 A.U.
		14:00	17:00	20:00	17:00	19:35
	1	155.7	155.7*	158.7*	153.4*	153.5
	2	156.0	154.0*	153.9	151.5*	147.6
	3	147.2	148.5	152.7	146.1	143.7
	4	146.8	142.7	140.4	140.3	135.3
	5	134.8	135.2	137.8	132.9	130.0
	6	132.6	133.8	131.8	131.4	125.8
	7	128.3	131.5	132.2	129.1	127.0
	8	---	135.7	138.7	133.1	128.8
	9	134.5	138.0	141.8	135.4	131.8
	10	140.6	138.0	139.4	135.2	132.8
	11	133.7	135.3*	134.3	132.6*	127.8
	12	132.1	132.1*	136.0*	129.3*	127.0*
	13	133.7	134.3	133.7	131.5	128.3
	14	132.7	134.1	133.9	131.3	127.3
	15	132.8	136.5	135.1	133.5	126.4
	16	136.0	130.5	132.6	127.6	124.0
	17	144.9	143.8	142.3	140.5	135.9
	18	159.4	151.5	149.5	148.0	142.9
	19	143.2	144.8	143.0	141.3	137.3
	20	145.4	142.5	140.9	139.1	131.8
	21	137.2	137.1	137.2	133.8	130.4
	22	134.3	134.4	134.2	131.0	126.0
	23	138.0	135.7	133.4	132.3	127.3
	24	140.7	137.8	139.0	134.2	132.7
	25	140.7	138.9	138.2	135.3	131.2
	26	142.0	138.8	138.9	135.2	133.4
	27	139.6	137.8	137.9*	134.1	129.4*
	28	135.3	133.2	134.1	129.6	126.0
	29	129.3	131.8	130.8	128.2	123.8
	30	134.0	132.3	135.3	128.6	128.2
Mean		139.4	138.5	138.9	135.5	131.8

*Corrected for burst.

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Nov.			H M	H M	H M		
1	3	Simple 3	14 22	0 12	14 26	3.4	1.7
	1	Simple 1F	14 51.5	0 06.5	14 55.5	7.2	3.6
	1	Simple 1F	15 03	0 08	15 19	7.2	3.6
	3	Simple 3A	16 26	0 20	16 28.3	7.4	3.2
	2	Simple 2F	16 29.2	0 05	16 30.5	26.0	11.0
	1	Simple 1	17 58.2	0 01.8	17 58.6	4.2	2.1
	1	Simple 1F	18 18.5	0 04.5	18 19	4.0	2.0
	1	Simple 1F	18 30.2	0 01	18 30.5	4.2	2.1
	1	Simple 1	19 30	0 02	19 30.2	4.2	2.1
	3	Simple 3A	19 55	0 35	20 08	11.4	5.4
	2	Simple 2F	20 03	0 06	20 04.8	390.0	44.0
	6	Complex F	20 09	0 04	20 11.6	42.0	25.0
	1	Simple 1F	20 14	0 03	20 15	9.8	4.9
	2	Simple 2	20 20.8	0 00.8	20 21	18.0	6.0
	1	Simple 1	21 12	0 01	21 12.2	2.8	1.4*
	1	Simple 1	21 24.5	0 01.5	21 24.8	2.8	1.4*
	1	Simple 1	22 33	0 02	22 33.5	6.4	3.2*
	2	Simple 2F	22 42	0 06	22 42.7	21.0	6.0*
2	8	Group (4)	15 19	0 30	----	--	--
	2	Simple 2	15 19	0 02.5	15 19.8	11.0	5.5
	1	Simple 1	15 24.5	0 01.5	15 25	2.2	1.1
	6	Complex F	15 27	0 13	15 31.5	40.0	20.0
		1st Compt	15 27	0 02.5	15 28	20.0	--
		2nd Compt	15 29.5	0 10.5	15 31.5	40.0	--
	1	Simple 1	15 42.5	0 07.5	15 44	9.2	4.2
	3	Simple 3	16 30	3 25	17 30	12.0	6.0
	3	Simple 3	20 18	0 50	20 21	4.0	2.0
	1	Simple 1	21 46.2	0 00.5	21 46.5	4.2	2.1*

*Only observed at Penticton

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Nov.			H M	H M	H M		
3		Incomplete	12 33E	>0 12	12 33.5	72.0	---
	3	Simple 3	13 10	0 30	13 25	3.0	1.5
		Rise	13 50	0 20	---	6.0	---
	3	Simple 3F	14 25	1 55	14 50	6.0	3.6
	8	Group (3)	17 09.2	0 11	---	---	---
	2	Simple 2	17 09.2	0 02	17 10	10.6	5.3
	1	Simple 1	17 15	0 02	17 15.5	2.0	1.0
	1	Simple 1	17 19	0 01	17 19.2	9.2	4.6
	1	Simple 1	19 34	0 02	19 34.5	5.2	2.6
	2	Simple 2F	20 37.5	0 05.5	20 38.8	49.0	11.0
	5	Absorption	20 43	0 53	21 00	-7.6	-3.8
4	1	Simple 1	13 05.5	0 02	13 06.3	2.8	1.4
		Fall	17 00	0 05	---	2.4	---
	1	Simple 1	21 04.7	0 04	21 05	3.0	1.5
		Rise	21 40	0 05	---	2.4	---
5	2	Simple 2	13 42.5	0 02.5	13 43.5	86.0	22.0
	4	Post B.I.A.	13 45	0 07	---	3.0	1.5
	1	Simple 1	13 48	0 01	13 48.3	6.2	2.0
		Absorption	17 55	1 20	18 20	-3.8	-1.9
	3	Simple 3A	20 00	>2 30	21 25	9.4	---
	1	Simple 1	20 11	0 04	20 12.5	2.8	1.4
	3	Simple 3A	21 16	0 25	21 28	5.0	2.5
	1	Simple 1	21 16	0 05	21 18.5	6.2	3.1
7	1	Simple 1F	16 25.2	0 01	16 26	2.4	1.2
8		Rise	19 40	0 10	---	2.4	---

* Only observed at Penticton

** Peak time and flux for period observed

Report No. 262

November 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Nov.							
10	1	Simple 1	15 32.5	0 02.5	15 33.2	3.0	1.5
	3	Simple 3	20 10	0 15	20 16	5.0	2.0
	1	Simple 1	21 18	0 03	21 19.2	3.6	1.8 *
11	2	Simple 2F	13 28	0 00.5	13 28.3	19.0	9.5
	3	Simple 3A	14 39	0 37	14 46	9.2	4.0
	1	Simple 1	14 39.5	0 01	14 39.6	2.2	1.1
	6	Complex	14 43.5	0 01.5	14 43.9	9.2	4.6
	1	Simple 1F	14 47.2	0 01	14 48	2.8	1.8
	1	Simple 1	15 28	0 01	15 28.4	2.2	1.1
	3	Simple 3A	15 52	1 20	15 55	4.0	2.4
	2	Simple 2	16 27.7	0 02	16 28.2	58.0	15.0
	1	Simple 1	18 29.5	0 02	18 30	6.2	3.1
	4	Post B.I.	18 31.5	0 10	---	2.4	1.2
12	3	Simple 3A	14 20	2 50	15 35	7.4	4.5
	2	Simple 2F	14 26.5	0 02.5	14 27	24.0	8.0
	1	Simple 1	15 46	0 01	15 46.5	3.2	1.6
	3	Simple 3A	17 27	1 35	17 55	6.8	3.0
	1	Simple 1	17 27	0 02	17 28	4.0	2.0
	3	Simple 3	19 05	2 05	19 45	4.2	2.1
	1	Simple 1F	21 27.2	0 03.8	21 29	4.0	2.0*
13	1	Simple 1	14 14	0 00.6	14 14.2	3.8	1.9
	3	Simple 3A	17 00	2 45	18 17	4.4	2.2
	3	Simple 3A	17 14	0 30	17 27	6.2	3.1
	1	Simple 1	17 14	0 02	17 14.5	4.4	2.2
	6	Complex	17 16.5	0 04.5	17 17	15.0	4.0
	3	Simple 3A	20 15	2 10	21 40	5.2	2.6*
	2	Simple 2	21 09	0 05	21 10.5	65.0	22.0*
	4	Post B.I.	21 14	0 10	---	2.0	1.0*

*Only observed at Penticton

November 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Nov.			H M	H M	H M		
14	3	Simple 3	15 27	0 40	15 43	2.0	1.0
	3	Simple 3	18 00	1 25	18 20	3.6	1.8
	2	Simple 2F	20 37	0 13	20 45	14.0	7.0
	4	Post B.I.	20 50	>1 50	---	5.6	---*
15	{	Rise A	15 20	0 10	---	2.5	---
	7	Irregular Activity	15 20	0 07	15 22.5	8.8	---
17	{	Simple 2	16 56	0 04	16 57.8	12.0	6.0
	4	Post B.I.	17 00	0 20	---	2.2	1.1
18	{	Simple 3AF	17 45	1 50	18 30	5.0	2.5
	1	Simple 1	18 04	0 02.5	18 05	2.2	1.1
	1	Simple 1	18 13	0 03	18 14	3.4	1.7
20	2	Simple 2F	19 56.5	0 03.5	19 57.8	10.2	5.1
23	7	Irregular Activity	16 54	0 06	16 55	11.0	---
24	{	Simple 1F	18 26.5	0 01.5	18 27.3	6.0	3.0
	4	Post B.I.A	18 28	0 07	---	2.0	1.0
	1	Simple 1	18 29.2	0 00.5	18 29.3	4.0	2.0
		Spike	18 31	---	18 31	4.0	---
	{	Simple 2F	20 37	0 03	20 38.6	48.0	18.0
	4	Post B.I.	20 40	0 05	---	3.4	1.7
25	3	Simple 3	16 10	0 15	16 16	2.0	1.0
	3	Simple 3	20 20	0 30	20 30	2.0	1.0*
26	1	Simple 1	13 57	0 02	13 57.5	5.2	2.6
27	3	Simple 3	15 19	0 15	15 21	2.0	1.0
	{	Simple 3A	18 10	2 30	18 45	5.0	2.5
	3	Simple 3F	19 10	0 35	19 10	2.4	1.2
30	3	Simple 3	20 50	>1 25	21 20	5.0	---*

*Only observed at Penticton.

FLUX

390

NOV. 1, 1968

SELECTED 2700 MHz SOLAR NOISE BURST
DRAO PENTICTON B.C.

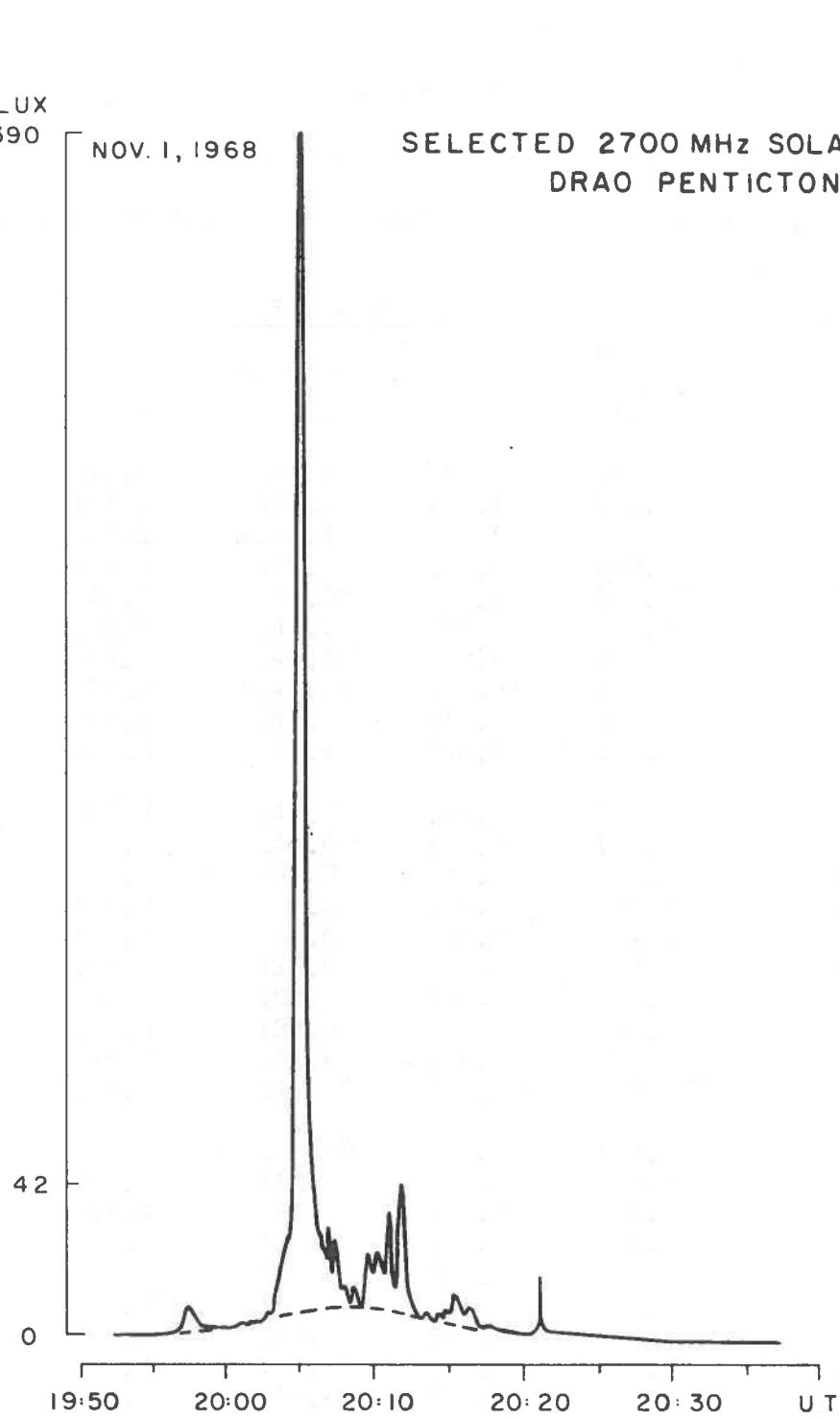


Figure 13

December 1968

DAILY VALUES OF SOLAR FLUX AT 2800 MC/S (OTTAWA-ARO)

AND 2700 MC/S (PENTICTON-DRAO) -- SERIES "C"

Flux in watts/m²/cycles/sec bandwidth ($\times 10^{-22}$) -- 2 polarizations

		<u>O T T A W A</u>			<u>P E N T I C T O N</u>	
1968	Dec.	Observed	adj. to 1 A.U.	Observed	Adj. to 1 A.U.	
	Dec.	14:00 17:00 20:00	17:00	19:35	19:35	
	1	143.8	144.2	146.8	140.2	140.2
	2	154.2	154.2	150.1	149.9	144.2
	3	154.1	154.1	152.5	149.6	140.6
	4	150.4	152.3	151.8	147.9	141.9
	5	146.0	151.0*	150.0	146.6*	139.3
	6	145.5	147.2	144.3	142.9	137.9
	7	143.6	144.5	147.0	140.2	136.5
	8	146.2	[146.2]	146.3*	141.8	136.8*
	9	149.4	150.1	149.3	145.6	140.1
	10	148.9	152.6	152.4	148.0	142.7
	11	149.7	148.2	148.2	143.6	138.3
	12	142.0	143.4	143.4	139.0	135.6
	13	135.1	135.7	135.9	131.5	125.6
	14	136.2	138.6	136.5	134.3	125.0
	15	138.4	138.4	134.4	134.1	126.8
	16	129.3	131.2	129.2	127.0	122.3
	17	131.0	134.5	137.5	130.2	125.7
	18	137.3	138.3	139.1	133.9	129.4
	19	145.7	146.6	146.5	141.9	132.5
	20	151.5	149.5*	150.5*	144.7*	139.2
	21	151.5	152.0*	151.2	147.1*	142.4
	22	155.3	152.2	150.2	147.3	141.5
	23	146.4	151.3	152.1	146.3	140.2
	24	161.1	159.3	160.0*	154.0	---
	25	160.7	160.6	161.8	155.3	151.1
	26	159.4*	159.3	164.9	154.0	154.3*
	27	166.6	169.1	167.1	163.5	155.8
	28	156.4	155.8*	155.9	150.7*	148.7
	29	152.4	147.6	147.0*	147.2	---
	30	144.6	149.1	150.1*	144.2	139.3
	31	146.8	144.4	147.8	139.6	---
Mean		147.7	148.4	148.4	143.9	142.8
						138.4

*Adjusted for Burst

[] Interpolated

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Dec.			H M	H M	H M		
1	3	Simple 3A	20 05	1 40	20 30	6.2	3.1
	1	Simple 1	20 16	0 06	20 18	8.6	4.3
2	3	Simple 3	20 35	0 10	20 37	1.8	0.6
	9	Pre	21 00	0 05	---	3.2	1.6*
	6	Complex F	21 05	0 42	21 16	270.0	60.0*
		1st Compt.	21 05	0 25.5	21 16	270.0	---
		2nd Compt.	21 30.5	0 16.5	21 34.5	58.0	---
	4	Post B.I.	21 47	>1 00	---	32.0	---*
3	3	Simple 3	19 46	0 11	19 52	3.0	1.5
4	3	Simple 3	15 06.5	0 10	15 07.5	2.0	1.0
	2	Simple 2	15 41	0 04	15 43	10.6	5.8
	4	Post B.I.	15 45	0 30	---	3.2	1.4
	3	Simple 3F	18 00	0 50	18 21	6.8	3.4
	3	Simple 3F	20 00	0 10	20 02	3.2	1.6*
	3	Simple 3F	20 20	0 50	20 34	4.0	2.0*
5	3	Simple 3F	14 25	3 50	15 40	8.4	4.6
	3	Simple 3	18 35	0 50	18 40	2.8	1.4
	3	Simple 3	21 30	0 22	21 35	3.6	1.8*
7	3	Simple 3	21 30	0 25	21 35	3.4	1.7*
8	2	Simple 2	15 22.5	0 05.5	15 24.5	31.0	14.0
	4	Post B.I.	15 28	0 10	---	5.4	2.7
	3	Simple 3	17 45	3 15	19 10	8.6	4.3
	2	Simple 2	21 58	0 04	21 58.5	13.0	3.4*
9		Rise	13 50	0 10	---	4.6	---
	3	Simple 3F	17 42	1 55	17 50	5.4	4.4
11	3	Simple 3F	15 05	1 00	15 20	4.0	2.0
12		Rise	15 00	0 04	---	1.7	---
		Incomplete	15 33.5	>0 06	15 34.8	165.0	---
	2	Simple 2	18 11.5	0 03.5	18 12.5	48.0	12.0

*Only observed at Penticton

December, 1968

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Dec.			H M	H M	H M		
12	2	Simple 2	20 13.3	0 03	20 14	24.0	6.0
	1	Simple 1	22 40	0 01	22 40.5	2.4	1.2*
14	2	Simple 2F	22 40	0 03.5	22 41	11.4	5.7*
15	3	Simple 3	17 10	1 40	17 55	2.2	1.1
16	1	Simple 1	18 42.5	0 01	18 42.6	6.0	2.0
20	3	Simple 3	16 25	0 45	indet.	2.8	1.4
	3	Simple 3AF	17 15	2 10	18 15	5.6	2.8
	3	Simple 3F	18 56	0 10	18 57	3.4	1.7
	2	Simple 2	19 36	0 18	19 42	72.0	27.0
	4	Post B.I.	19 54	1 55	---	10.0	5.0
21	3	Simple 3	16 05	1 30	16 25	2.8	1.4
	3	Simple 3A	17 40	1 10	17 52	2.8	1.4
	1	Simple 1F	18 14	0 03	18 15	2.2	1.1
22	1	Simple 1F	16 04.5	0 01	16 04.8	3.0	1.5
	2	Simple 2F	18 30.5	0 03	18 31	81.0	33.0
	4	Post B.I.	18 33.5	0 06	---	4.8	1.2
	1	Simple 1	19 31	0 00.5	19 31.2	3.6	1.8
	1	Simple 1	19 42	0 05	19 44	6.8	4.6
	4	Post B.I.	19 47	0 30	---	3.0	1.5
	3	Simple 3	21 10	>1 00	21 50	3.4	---*
23	1	Simple 1	15 13	0 01.5	15 13.3	2.4	1.2
		Rise F	15 24	0 30	---	5.6	---
	1	Simple 1	17 33.5	0 01	17 33.9	2.4	1.2
	1	Simple 1	17 35	0 01	17 35.8	3.0	1.5
	5	Post decrease	17 36	0 43	17 50	-8.8	-4.4
	3	Simple 3AF	15 54	0 26	15 58	6.4	1.8
	1	Simple 1	16 09.4	0 00.5	16 09.6	2.2	1.1
	2	Simple 2	16 54	0 04	16 54.4	20.0	5.0
	4	Post B.I.	16 58	0 06	---	2.2	1.1

*Only observed at Penticton

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
			H M	H M	H M		
Dec.							
24	{ 3	Simple 3A	19 35	1 50	20 15	8.0	5.4
	{ 2	Simple 2F	19 36	0 14	19 39	14.6	7.3
	{ 2	Simple 2F	19 51	0 11	19 54	10.0	5.0
	{ 6	Complex F	22 27	0 09	22 28.7	158.0	26.0*
		1st Compt.	22 27	0 01.2	22 27.7	145.0	---
		2nd Compt.	22 28.2	0 07.8	22 28.7	158.0	---
	{ 4	Post B.I.	22 36	>0 06	---	5.0	---*
25	{ 2	Simple 2	15 11.8	0 02	15 12.3	18.0	9.0
	{ 4	Post B.I.	15 13.8	0 08	---	3.8	1.7
	2	Simple 2F	15 47	0 01.5	15 47.4	18.6	4.7
	{ 3	Simple 3AF	18 36	0 55	19 01	6.0	3.0
	{ 2	Simple 2F	18 37	0 09	18 40	11.0	5.5
	{ 1	Simple 1	18 47.5	0 02	18 48	3.4	1.7
		Fall	20 05	0 55	---	6.4	---*
	1	Simple 1	22 06	0 01	22 06.5	5.0	2.5*
26	{ 3	Simple 3AF	13 56	0 30	13 58	5.4	2.7
	{ 1	Simple 1F	14 29	0 02	14 29.5	2.2	1.1
	1	Simple 1F	15 42	0 07	15 43.9	7.4	1.9
	1	Simple 1F	15 54	0 02	15 55	4.4	2.2
	1	Simple 1	18 03.8	0 01.5	18 04.5	3.0	1.5
	1	Simple 1	18 33	0 04.5	18 34	4.0	2.0
	{ 3	Simple 3A	18 50	1 10	19 10	3.0	1.5
	{ 2	Simple 2	19 03	0 05	19 04.5	13.0	6.0
	{ 3	Simple 3A	20 22	1 50	20 57	13.0	6.5
	{ 2	Simple 2	20 22	0 04	20 23.9	34.0	15.0
	{ 4	Post B.I. A	20 26	0 15	---	6.6	3.3
	1	Simple 1	20 28	0 02	20 28.5	2.6	1.3
	{ 6	Complex	20 52.5	0 04	20 53.2	16.0	7.4**
	{ 1	Simple 1	20 57.5	0 03	20 58.5	3.0	1.5**

*Only observed at Penticton

OUTSTANDING EVENTS - SOLAR RADIATION AT 2700 & 2800 Mc/s

DATE 1968	URANE KEY	CLASS	START U.T.	DURATION	MAXIMUM U.T.	PEAK FLUX	MEAN FLUX
Dec.							
			H M	H M	H M		
27	3	Simple 3	20 15	0 25	20 25	2.4	1.2*
28	{ 3	Simple 3A	16 00	1 00	16 30	3.2	1.6
	{ 1	Simple 1	16 26	0 01.5	16 26	2.6	1.2
	{ 3	Simple 3A	20 50	1 05	21 10	2.2	1.1*
	{ 1	Simple 1	20 21.5	0 01.5	20 22	3.8	1.9*
29	1	Simple 1F	14 28	0 01	14 28.5	2.4	1.2
	1	Simple 1F	15 23	0 01	15 23.3	2.0	1.0
	{ 3	Simple 3	17 50	>4 00	20 30	18.0	---
		1st Compt.	17 50	1 20	18 33	6.0	---
		2nd Compt.	19 10	>2 40	20 30	18.0	---
	1	Simple 1F	19 17.2	0 03	19 19	8.8	4.4
	6	Complex F	19 21	0 24	19 34	405.0	115.0
		1st Compt.	19 21	0 11	19 28.5	260.0	---
		2nd Compt.	19 32	0 13	19 34	405.0	---
	4	Post B.I.	19 45	0 13	---	6.6	3.3
30	2	Simple 2F	14 24.9	0 01.5	14 25.5	32.0	16.0
	3	Simple 3	18 39	0 09	18 40	2.0	1.1
	3	Simple 3	19 50	1 15	20 05	2.2	1.4

*Only observed at Penticton

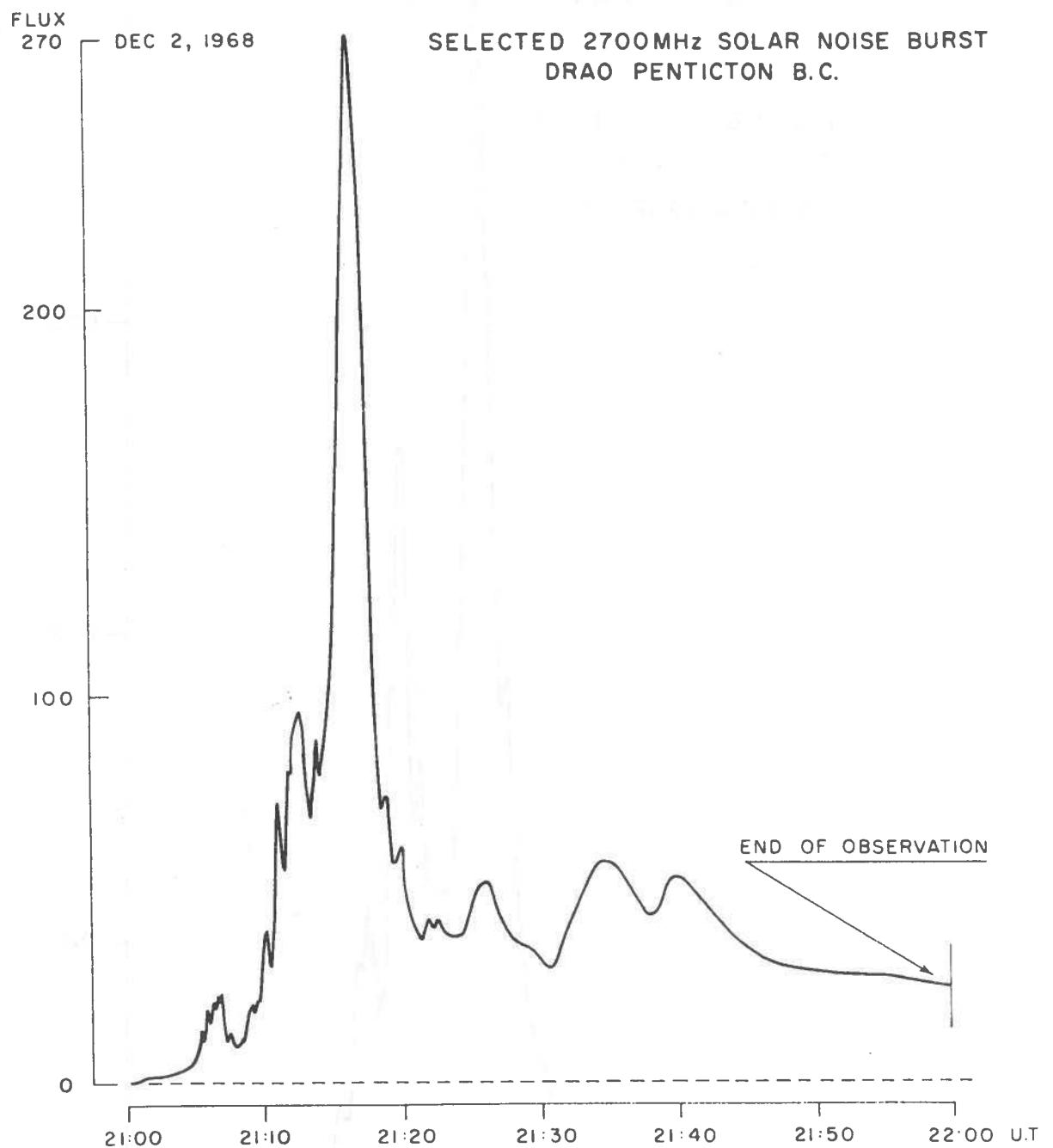


Figure 14

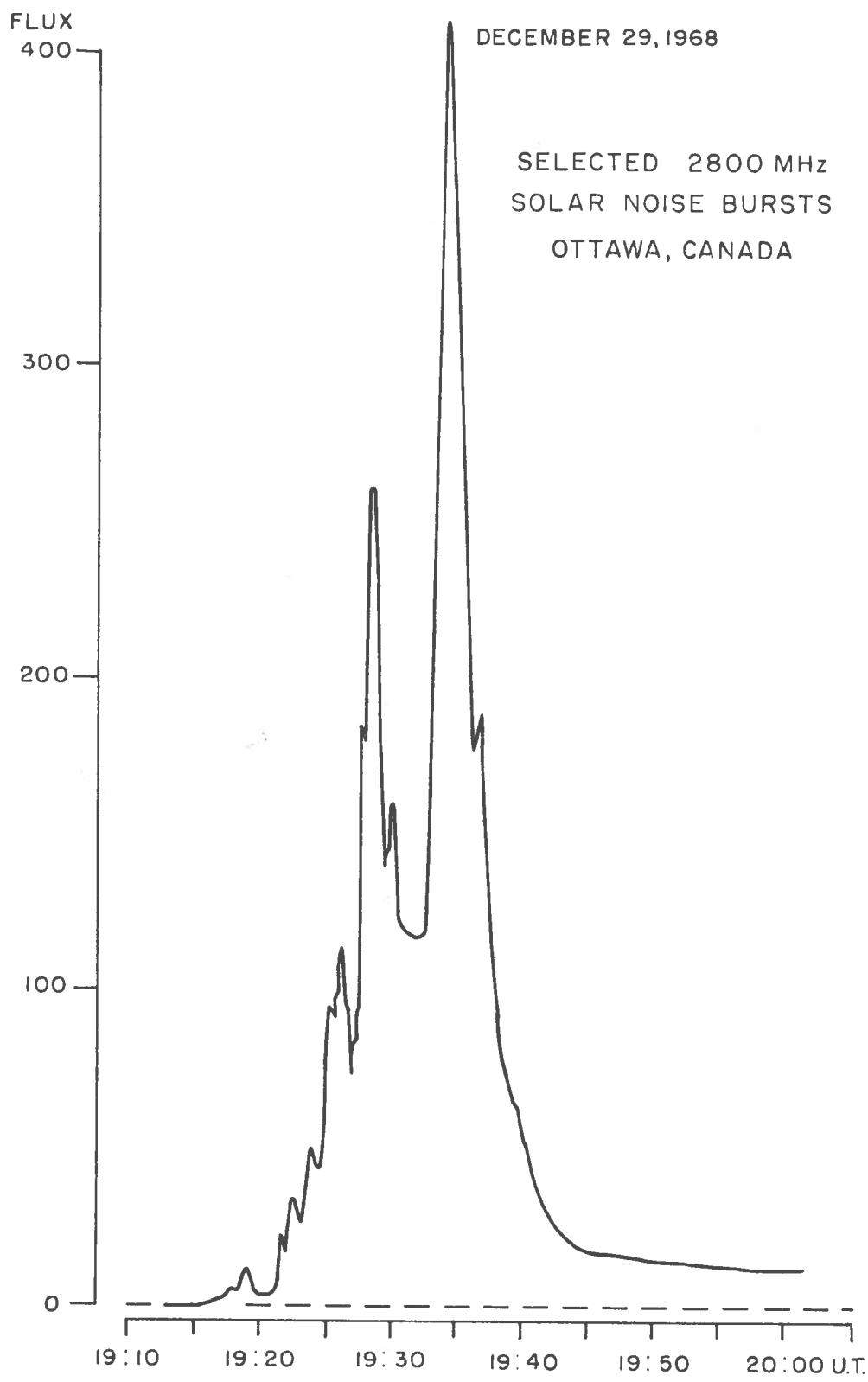


Figure 15

DAILY VALUES OF SOLAR FLUX AT 2800 MHz (OTTAWA - ARO) SERIES "C"
 FLUX IN WATTS/M²/CYCLES/SECOND BANDWIDTH ($\times 10^{-22}$) - 2 POLARIZATIONS

OBSERVED VALUES AT 1700 U.T.

1968

1968

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	177.3	261.7	165.8	144.0	142.5	147.7	124.1	130.3	127.2	136.2	155.7	144.2
2	177.7	260.6	167.3	144.2	145.9	141.3	116.3	130.3	131.8	136.2	154.0	154.2
3	185.4	251.6	153.4	137.1	153.7	139.8	113.3	136.8	140.4	145.1	148.5	154.1
4	190.1	226.7	146.9	131.6	151.9	139.9	112.2	131.8	140.8	146.1	142.7	152.3
5	197.7	196.9	140.0	129.0	153.2	134.3	115.5	132.1	137.4	147.9	135.2	151.0
6	216.9	177.2	138.1	124.9	145.9	141.3	116.2	143.8	133.9	145.4	133.8	147.2
7	231.5	168.8	133.6	124.5	142.7	147.8	130.6	136.0	139.0	147.0	131.5	144.5
8	238.1	155.7	125.9	130.3	139.0	150.1	142.3	137.9	147.2	141.9	135.7	146.2
9	229.6	155.9	124.6	140.7	137.2	144.5	148.6	142.7	147.3	137.7	138.0	150.1
10	215.4	159.9	125.7	142.2	137.0	143.5	151.8	142.7	154.0	135.0	138.0	152.6
11	209.4	159.9	130.0	137.7	130.9	142.1	157.4	146.7	150.5	134.4	135.3	148.2
12	205.7	163.4	132.0	142.0	124.7	139.1	160.8	157.4	154.0	137.3	132.1	143.4
13	203.9	152.9	129.4	141.1	125.7	139.0	150.6	166.5	148.7*	127.8	134.3	135.7
14	193.4	149.4	129.3	137.5	135.2	135.2	150.9	180.4	144.8	132.8	134.1	138.6
15	182.6	145.4	127.3	139.0	138.8	135.4	143.2	181.0	134.2	137.8	136.5	138.4
16	166.1	146.0	129.5	140.0	147.3	133.9	144.7	174.6	130.6	138.2	130.5	131.2
17	162.6	142.0	136.6	131.2	162.8	135.3	139.0	165.1	130.2	143.5	143.8	134.5
18	153.4	138.4	133.4	126.6	174.2	138.6	130.9	160.8	127.6	150.8	151.5	138.3
19	146.3	140.7	131.2	124.2	181.0	142.8	131.0	156.1	126.2	154.9	144.8	146.6
20	141.8	141.7	130.6	121.2	189.1	146.7	129.6	156.2	126.4	156.9	142.5	149.5
21	136.9	151.8	141.0	122.2	189.9	152.2	128.9	155.0	132.5	164.8	137.1	152.0
22	140.1	155.2	143.2	114.4	185.7	149.7	134.7	150.3	126.6	166.5	134.4	152.2
23	142.3	159.9	146.4	110.5	181.0	158.6	141.6	134.7	125.9	168.7	135.7	151.3
24	153.4	168.1	155.3	116.1	178.0	152.5	148.0	128.0	142.1	175.2	137.8	159.3
25	165.2	181.0	156.8	118.5	176.4	149.1	153.3	121.5	157.3	173.8	138.9	160.6
26	179.6	187.7	157.4	112.8	172.4	141.4	149.6	115.6	159.2	174.6	138.8	159.3
27	190.7	179.1	159.8	117.5	166.4	142.7	142.4	112.1	157.2	175.1	137.8	169.1
28	219.6	174.0	157.6	126.6	153.9	138.1	139.3	117.1	158.2	173.3	133.2	155.8
29	227.5	170.5	156.7	126.1	146.8	134.5	140.0	119.3	153.5	193.8	131.8	147.6
30	236.2		160.6	130.8	147.2	131.4	134.4	123.2	143.9	166.2	132.3	149.1
31	246.2		156.1		144.8		130.8	121.2		161.9		144.4
Mean	189.1	173.2	142.6	129.5	154.9	142.3	137.2	142.2	141.0	152.5	138.5	148.4

DAILY VALUES OF SOLAR FLUX AT 2800 MHz (OTTAWA - ARO) SERIES "C"

FLUX IN WATTS/M²/CYCLES/SECOND BANDWIDTH ($\times 10^{-22}$) - 2 POLARIZATIONS

ADJUSTED TO 1 ASTRONOMICAL UNIT AT 1700 U.T.

19681968

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	171.4	254.1	162.8	143.8	144.8	152.0	128.3	134.2	129.5	136.5	153.4	140.2
2	171.8	253.0	164.4	144.1	148.2	145.4	120.3	134.2	134.2	136.3	151.5	149.9
3	179.3	244.3	150.8	137.1	156.3	143.8	117.2	140.9	142.8	145.2	146.1	149.6
4	183.8	220.3	144.5	131.7	154.5	144.0	116.0	135.6	143.2	146.1	140.3	147.9
5	191.2	191.4	137.8	129.1	156.0	138.3	119.4	135.9	139.6	147.9	132.9	146.6
6	209.7	172.2	136.0	125.1	148.5	145.5	120.1	148.0	136.0	145.3	131.4	142.9
7	223.9	164.2	131.6	124.7	145.4	152.2	135.0	139.8	141.1	146.9	129.1	140.2
8	230.2	151.5	124.1	130.7	141.6	154.6	147.1	141.8	149.4	141.6	133.1	141.8
9	222.0	151.7	122.8	141.1	139.8	149.0	153.6	146.7	149.4	137.3	135.4	145.6
10	208.3	155.7	124.1	142.8	139.7	147.9	157.0	146.6	156.2	134.6	135.2	148.0
11	202.5	155.7	128.3	138.4	133.5	146.5	162.8	150.7	152.5	133.9	132.6	143.6
12	198.9	159.1	130.4	142.7	127.3	143.4	166.1	161.6	156.0	136.8	129.3	139.0
13	197.2	149.1	127.8	141.9	128.3	143.4	155.6	170.8	150.6	127.2	131.5	131.5
14	187.0	145.7	127.9	138.3	138.2	139.5	155.9	185.1	146.7	132.1	131.3	134.3
15	176.6	141.8	125.9	140.0	141.8	139.7	147.9	185.7	135.7	137.0	133.5	134.1
16	160.8	142.5	128.2	141.0	150.7	138.2	149.5	179.0	132.0	137.2	127.6	127.0
17	157.4	138.6	135.2	132.2	166.5	139.6	143.6	169.2	131.5	142.5	140.5	130.2
18	148.5	135.2	132.2	127.7	178.4	143.2	135.2	164.8	128.7	149.6	148.0	133.9
19	141.6	137.5	130.1	125.3	185.3	147.5	135.3	159.8	127.3	153.7	141.3	141.9
20	137.3	138.6	129.6	122.4	193.6	151.5	133.9	159.9	127.4	155.5	139.1	144.7
21	132.5	148.5	140.0	123.4	194.6	157.2	133.0	158.6	133.6	163.3	133.8	147.1
22	135.7	151.8	142.2	115.6	190.3	154.6	139.0	153.8	127.5	164.8	131.0	147.3
23	137.9	156.5	145.5	111.7	185.7	163.8	146.1	137.7	126.8	167.0	132.3	146.3
24	148.6	164.6	154.4	117.5	182.6	157.5	152.7	130.8	143.0	173.3	134.2	154.0
25	160.1	177.4	156.0	119.9	181.0	154.0	158.2	124.2	158.1	171.7	135.3	155.3
26	174.0	183.9	156.8	114.3	177.1	146.2	154.4	118.0	160.0	172.5	135.2	154.0
27	185.0	175.7	159.2	119.1	170.9	147.6	146.8	114.5	157.8	172.8	134.1	163.5
28	213.0	170.7	157.1	128.4	158.1	142.8	143.6	119.4	158.8	171.0	129.6	150.7
29	220.7	167.4	156.2	128.0	150.9	139.1	144.3	121.7	154.0	191.1	128.2	147.2
30	229.1		160.3	132.8	151.3	135.9	138.6	125.5	144.3	163.9	128.6	144.2
31	239.1		155.8		148.9		134.7	123.5		159.5		139.6
Mean	183.1	168.9	141.2	130.4	158.4	146.8	141.7	145.7	142.5	151.4	135.5	143.9

DAILY VALUES OF SOLAR FLUX AT 2700 MHz (PENTICTON - DRAO) SERIES "C"
 FLUX IN WATTS/M²/CYCLES/SECOND BANDWIDTH ($\times 10^{-22}$) - 2 POLARIZATIONS

Day	OBSERVED VALUES AT 1935 U.T.												1968
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1	158.8	241.2	151.7	133.7	131.3	146.4	119.2	125.7	121.5	134.1	155.8	144.2	
2	156.3	239.5	154.7	131.9	137.3	137.9	110.9	125.0	127.8	132.0	150.0	148.4	
3	164.3	230.9	145.3	125.8	144.0	136.1	110.0	130.6	134.7	138.8	146.0	144.8	
4	173.3	210.7	134.8	118.9	146.9	134.7	110.7	129.7	136.5	138.0	137.6	146.1	
5	179.5	184.2	129.9	117.3	143.0	132.2	112.6	125.1	131.6	141.4	132.2	143.5	
6	192.0	165.1	128.2	115.1	137.8	141.2	117.1	133.5	129.7	141.9	128.1	142.0	
7	214.8	160.3	121.8	116.1	133.4	144.9	127.4	130.3	134.8	139.9	129.3	140.7	
8	210.1	148.5	114.8	121.0	132.4	145.0	133.7	132.7	142.0	138.7	131.3	141.0	
9	211.0	146.2	114.8	128.5	125.8	140.4	140.7	134.8	144.9	133.7	134.4	144.4	
10	195.8	150.2	116.1	124.9	127.9	142.3	146.1	136.9	148.6	130.1	135.5	147.1	
11	195.7	150.1	120.8	128.0	121.4	137.9	150.3	141.1	145.7	130.6	130.4	142.7	
12	198.8	148.5	122.4	127.0	117.8	135.2	151.5	149.8	147.9	132.7	129.7	139.9	
13	193.1	142.2	119.9	131.0	121.1	135.8	146.1	161.8	146.4	128.4	131.1	129.6	
14	180.6	140.6	121.7	126.7	127.4	133.5	146.2	176.0	137.5	126.5	130.0	129.0	
15	171.2	136.9	117.9	126.7	129.8	133.1	136.6	173.0	128.8	134.3	129.2	130.9	
16	160.5	133.7	121.0	125.9	136.0	130.1	140.3	166.6	124.6	135.2	126.8	126.3	
17	159.0	133.3	126.6	120.8	151.9	132.0	131.5	162.1	---	139.0	139.1	129.9	
18	---	130.0	122.2	---	164.9	135.4	125.1	155.7	125.4	145.4	146.3	133.7	
19	136.3	131.0	121.5	---	169.6	139.6	126.0	149.2	122.3	148.0	140.7	136.9	
20	131.8	135.9	121.4	113.3	174.0	145.0	123.2	---	119.9	151.7	135.0	143.8	
21	129.8	142.0	131.3	---	173.6	146.2	124.3	149.2	126.0	157.3	133.6	147.1	
22	132.4	144.4	132.2	108.8	173.1	146.9	128.4	143.5	122.7	166.2	129.2	146.2	
23	142.3	147.9	139.8	105.8	165.6	153.8	142.7	126.8	122.9	166.0	130.6	145.0	
24	144.3	158.9	144.0	109.8	165.9	151.3	141.1	122.2	136.3	166.5	136.2	---	
25	158.4	165.3	150.0	111.9	160.9	146.6	148.1	115.5	151.2	166.0	134.7	156.3	
26	169.3	173.8	149.8	105.8	159.7	137.5	144.7	113.2	154.0	173.0	137.0	159.6	
27	176.4	165.6	152.4	---	149.8	138.8	137.1	108.5	149.4	171.6	133.0	161.1	
28	206.0	163.5	147.2	116.3	145.3	132.1	134.6	113.9	152.8	169.0	129.5	153.8	
29	215.3	157.4	149.5	119.3	142.4	129.7	137.7	114.6	147.0	171.2	127.2	---	
30	217.5		149.6	121.7	142.0	125.3	129.3	120.5	139.7	158.0	131.9	144.1	
31	229.0		143.6		142.3		127.1	117.5		155.5		---	
Mean	176.8	161.3	132.8	120.5	145.0	138.9	132.3	136.2	136.3	147.1	134.7	142.8	

DAILY VALUES OF SOLAR FLUX AT 2700 MHz (PENTICTON - DRAO) SERIES "C"

FLUX IN WATTS/M²/CYCLES/SECOND BANDWIDTH ($\times 10^{-22}$) - 2 POLARIZATIONS

ADJUSTED TO 1 ASTRONOMICAL UNIT AT 1935 U.T.

19681968

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	153.5	234.2	149.0	133.6	133.4	150.6	123.3	129.5	123.7	134.4	153.5	140.2
2	151.1	232.5	152.1	131.8	139.5	141.9	114.7	128.8	130.1	132.1	147.6	144.2
3	158.9	224.2	142.8	125.8	146.4	140.0	113.7	134.5	137.0	138.9	143.7	140.6
4	167.6	204.8	132.6	119.0	149.4	138.6	114.5	133.5	138.8	138.0	135.3	141.9
5	173.6	179.0	127.8	117.4	145.6	136.2	116.4	128.7	133.7	141.4	130.0	139.3
6	185.7	160.5	126.3	115.3	140.3	145.4	121.1	137.4	131.8	141.8	125.8	137.9
7	207.7	156.0	120.0	116.3	135.9	149.2	131.7	133.9	136.8	139.8	127.0	136.5
8	203.2	144.5	113.2	121.4	134.9	149.4	138.2	136.4	144.1	138.4	128.8	136.8
9	204.0	142.2	113.2	128.9	128.2	144.8	145.5	138.6	146.9	133.3	131.8	140.1
10	189.3	146.3	114.6	125.4	130.5	146.7	151.1	140.6	150.7	129.7	132.8	142.7
11	189.2	146.2	119.2	128.6	123.8	142.2	155.4	144.9	147.6	130.1	127.8	138.3
12	192.2	144.6	120.9	127.6	120.3	139.4	156.5	153.8	149.8	132.2	127.0	135.6
13	186.7	138.6	118.5	131.8	123.6	140.1	150.9	166.0	148.3	127.8	128.3	125.6
14	174.6	137.1	120.4	127.5	130.2	137.8	151.0	180.6	139.3	125.9	127.3	125.0
15	165.5	133.5	116.6	127.6	132.6	137.3	141.1	177.5	130.2	133.5	126.4	126.8
16	155.4	130.5	119.8	126.8	139.1	134.3	144.9	170.8	126.0	134.3	124.0	122.3
17	153.9	130.1	125.3	121.8	155.4	136.2	135.8	166.2	---	138.0	135.9	125.7
18	---	127.0	121.1	---	168.9	139.9	129.2	159.6	126.5	144.2	142.9	129.4
19	131.9	128.0	120.5	---	173.7	144.2	130.2	152.8	123.4	146.8	137.3	132.5
20	127.6	132.9	120.4	114.4	178.2	149.8	127.3	136.9	120.9	150.3	131.8	139.2
21	125.6	138.9	130.4	---	177.9	151.0	128.3	152.6	127.0	155.9	130.4	142.4
22	128.3	141.2	131.3	110.0	177.4	151.7	132.5	146.8	123.6	164.5	126.0	141.5
23	137.9	144.8	139.0	107.0	169.9	158.9	147.3	129.6	123.8	164.3	127.3	140.2
24	139.8	155.6	143.1	111.1	170.2	156.3	145.6	124.9	137.1	164.7	132.7	---
25	153.5	162.0	149.2	113.2	165.1	151.4	152.8	118.0	152.0	164.0	131.2	151.1
26	164.0	170.3	149.2	107.2	164.0	142.2	149.3	115.6	154.8	170.9	133.4	154.3
27	171.1	162.4	151.8	---	153.8	143.5	141.4	110.8	150.0	169.4	129.4	155.8
28	199.8	160.4	146.7	117.9	149.2	136.6	138.8	116.2	153.4	166.8	126.0	148.7
29	208.8	154.6	149.0	121.1	146.4	134.1	142.0	116.9	147.4	168.8	123.8	---
30	211.0		149.3	123.5	146.0	129.6	133.3	122.8	140.1	155.8	128.2	139.3
31	222.3		143.3		146.3		130.9	119.7		153.2		---

Mean 169.4 157.3 131.5 121.2 148.3 143.3 136.6 139.6 137.8 146.1 131.8 138.4