

NATIONAL RESEARCH COUNCIL
CANADARADIO AND ELECTRICAL
ENGINEERING DIVISION

OTTAWA, 23 June, 1948

Mr. G. Reber,
Central Radio Propagation Laboratory,
National Bureau of Standards,
WASHINGTON, D.C.

Dear Reber,

I hope you will forgive me for not waiting for you at the Naval Research Laboratory, and for not visiting your field station. While waiting for the time to go at the reception room at N.R.L., I realized that a train strike was planned within the next few days, and after thinking about my trip home to Ottawa via Chicago and Freeport, I decided to leave on an earlier train, and so have some more time at my wife's home in Freeport. As you recall, the strike didn't materialize, but I was not anxious to be stuck anywhere. Next time I visit you, I hope I will have the privilege of seeing your equipment.

We are in the process of checking some of our records of solar noise for the year 1947, and have found a couple of errors in calculating the solar emission. I have enclosed our revised results and would be pleased if you could pass them on to Denisse. The errors are not serious; in fact the two corrected results fall into the general trend and make a smoother curve.

Within the last few weeks we have been measuring the amount of circularly polarized radiation from the sun and find that there are daily variations. As yet we are not sure whether to call the excess left-handed polarization or right-handed polarization;-- in any case we have a number for the variation.

I hope Denisse has managed to get his paper into print. If he is still visiting you will you give him my best regards.

Yours sincerely,

A. E. Covington

AEC:HP

Encl.

JUN 28 1948

5

SOLAR NOISE MEASUREMENTS - 1946

Antenna Temperature (°K)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1								445			250	
2												
3												
4												
5												
6								330				
7										250		
8								300				
9								255				
10								265		250		
11												
12								260				
13												
14									340			
15												
16												
17								260				
18												
19												
20												
21*											440*	
22											460	
23											460	
24												
25												
26								430				
27								360				
28								380				
29								425				
30												
31								500				

* - New radiometer put into use on 21st Nov. 1946

SOLAR NOISE MEASUREMENTS - 1947

ANTENNA TEMPERATURE (°K)

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1				505	510			430		405	385	360
2				520	525	500	390	460	510			295
3				600	530	435	390		470	500	315	300
4				590		430	405	490	465	545	300	290
5			615	685	520	425	395	485	455		300	345
6			610		435	420		515	465	480	275	355
7			640	900	465	475	415	595		490	270	350
8			695	840	445		395	580	460	470		330
9				710	435		390	615	440	455		345
10			655	665	440	485	410		455	430	270	340
11			615	590		365	420	630	375	410		350
12			610	470	470	290	410	640	360	395	320	330
13			720		505	335		590	400		330	360
14		515	535	335	380	340	435	595		325	340	
15			450		360		450	540	340	310	380	350
16					460	355	520	460	315	330		405
17		465	360	310	465	415	550		315	340	355	415
18			320	315		500	505	405	320	310	380	395
19		360	285	310	495	550	510	390	315		395	380
20		335	285		560	540		350	295	390	400	360
21			305	310	645	575	485	320		390	425	
22			320	330	575		510	310	310	430	430	310
23				370	655	565	470	305	365	465	440	320
24		340	330	450		515	470		430	480	410	305
25		390	325	470		520	405	310	435	480	390	
26		345	365	585	595	465	405	350	420		380	345
27			390		585	445		370	400	460	370	355
28		475	400	555	665	490	330	390		435	390	
29			465	585	645		340	420	400	400	340	370
30			465	580	575	410	350	485	450	400		390
31			515		505		420			385		370