

UNION RADIO - SCIENTIFIQUE INTERNATIONALE

International Scientific Radio Union

U. R. S. I.

BULLETIN MENSUEL

MONTHLY BULLETIN

JUIN 1938

JUNE 1938

I N F O R M A T I O N S

I. ASSEMBLEE GENERALE - Mémoires

présentés :

- 1) Les premiers mémoires présentés pour être discutés à l'Assemblée Générale seront envoyés prochainement aux Présidents des Comités Nationaux et des Commissions. Ces documents seront caractérisés par leur numérotation spéciale

I. GENERAL ASSEMBLY - Papers :

- 1) The first papers to be discussed during the General Assembly will be sent incessantly to the Presidents of National Committees and Commissions. The papers are characterized by a special number

DOCUMENT A.G.1938/N°.../Comm. ...

Le Secrétariat Général prie les Présidents des Comités Nationaux d'assurer la diffusion des documents.

- 2) Le Secrétariat Général rappelle aux Membres de l'U.R.S.I. que le Bulletin n°3 (Mars 1938) contient les directives relatives à la publication des documents présentés à l'Assemblée Générale.

The General Secretary's Office beg the Presidents of National Committees to secure the distribution of the papers.

- 2) The General Secretary's Office reminds to the Members of the U.R.S.I. that Bulletin n°3 (March 1938) contains directions for the publication of papers brought forward for the General Assembly.

3) Grâce à un arrangement pris avec l'Editeur du Compte-rendu de l'Assemblée Générale, nous pouvons fournir, à des prix avantageux, des tirés à part aux auteurs de mémoires originaux.

Nous prions les auteurs désireux de jouir de cet avantage de nous le faire savoir lors de l'envoi des documents au Secrétariat Général.

3) Owing to an arrangement taken with the editor of the Proceedings of the General Assembly, we are able to furnish at low cost, extracts to the authors of unpublished papers. We beg authors wishing to obtain extracts to ask it when they forward their papers to the General Secretary's Office

II. ASSEMBLEE GENERALE - Participation :

Nous prions les Présidents des Comités Nationaux de faire parvenir sans retard aux délégués chargés de représenter leur Comité et aux Membres désireux de participer à l'Assemblée Générale, la brochure contenant le programme, ainsi que les bulletins d'adhésion.

Ces bulletins doivent être retournés sans retard, au Secrétariat Général de l'U.R.S.I., les inscriptions pour participer à l'Assemblée Générale et bénéficiant des conditions particulièrement avantageuses offertes par le Comité Italien étant clôturées le 31 Juillet 1938.

II. GENERAL ASSEMBLY - Partaking :

We beg the Presidents of National Committees to forward as soon as possible to the delegates nominated to represent their Committee and to Members wishing to assist to the General Assembly, the booklet containing the program and also adhesion bulletins.

These bulletins have to be returned without delay to the General Secretary's Office of the U.R.S.I.; inscriptions for partaking to the General Assembly and for obtaining the particularly profitable conditions made by the Italian National Committee, being closed on July 31, 1938.

D O C U M E N T S

COMITE NATIONAL FRANCAIS - FRENCH NATIONAL COMMITTEE -

N° 504 - Renforcement des atmosphériques en Mars 1938

N° 505 - Renforcements des atmosphériques et évanouissements
brusques en Avril 1938.

U R S I G R A M M E S - U R S I G R A M S

COMITE NATIONAL AMERICAIN

U.S.A. NATIONAL COMMITTEE

I.- PROGRAMME - PROGRAM

Voir Bulletin n°2 - Février
1938, p.26.

See Bulletin n°2 - February
1938, p.26

II.- CODE

Voir Bulletin n°2, p.28

See Bulletin n°2, p.28

III.- RENSEIGNEMENTS COSMIQUES - COSMIC DATA

Toutes les valeurs sont réunies par Science Service sous la garantie du Comité National Américain de l'U.R.S.I.

All data are collected by Science Service under the sponsorship of the American National Committee of the U.R.S.I.

M.A.G.

Les données proviennent du U.S. Coast and Geodetic Survey, Cheltenham, Md.

Data from U.S. Coast and Geodetic Survey, Cheltenham, Md.

Amplification : Donnée pour 24 heures, se terminant à 7 h. du soir E.S.T. du jour indiqué

Amplification : Given for 24 hours ending 7 p.m., E.S.T. date given

Date	Ursigrams	Amplification
1938 April 10	13XXX	Slightly disturbed
11	23XXX	Slightly disturbed
12	33XXX	Slightly disturbed
13	4553X 0835X	Quiet until 3:35 a.m. April 13 when a moderate storm began which was characterized by short period pulsations.

1938

April

14	555XX	Moderately disturbed with short period pulsations
15	6555X 2400X	Moderately disturbed
16	7797X 0547X 1600X	Slightly disturbed from 7 p.m. April 15 to no hours and 47 minutes the 16th, then violently disturbed to 11 a.m. the 16th, then slightly disturbed
17	1593X 1500X	Slightly disturbed until 10 a.m. April 17, then moderately disturbed.
18	2595X 0830X	Moderately disturbed until 3:30 a.m. April 18, then slightly disturbed
19	33XXX	Slightly disturbed
20	43XXX	Quiet
21	53XXX	Quiet
22	6593X 1715X	Quiet until 12:15 p.m. April 22, then moderately disturbed
23	759XX	Moderately disturbed
24	1595X 0435X	Moderately disturbed until 11:35 p.m. April 23, then slightly disturbed.
25	23XXX	Slightly disturbed
26	33XXX	Very slightly disturbed
27	43XXX	Slightly disturbed until 6 a.m. April 27, then quiet
28	53XXX	Quiet
29	63XXX	Quiet
30	73XXX	Quiet

May

1	13XXX	Quiet until 1:40 p.m. May 1, then slightly disturbed.
2	23XXX	Slightly disturbed
3	33XXX	Slightly disturbed
4	4593X 0310X	Slightly disturbed until 10:10 p.m. May 3, then moderately disturbed.

1938		
May		
5	5595X 0600X	Moderately disturbed until 1 a.m. May 5, then slightly disturbed
6	63XXX	Slightly disturbed until 1 p.m. May 6, then quiet.
7	73XXX	Quiet
8	13XXX	Quiet
9	23XXX	Quiet until 4 p.m. May 9, then slightly disturbed.
10	33XXX	Quiet
11	4793X 1555X	Slightly disturbed until 10:55 a.m. May 11, then greatly disturbed. Storm was characterized by high values of horizontal intensity. Ranges were about 1 1/4 degrees in declination, 800 gammas in vertical intensity and more than 700 gammas in horizontal intensity.
12	5795X 0030X	Greatly disturbed until 7:30 p.m. May 11, then moderately disturbed.
13	6595X 0200X	Moderately disturbed until 9 p.m. May 12, then quiet.
14	7593X 0949X	Slightly disturbed until 4:49 a.m. on the 14th, then moderately disturbed.

CARACTERISTIQUES MAGNETIQUES: . MAGNETIC CHARACTER :

Les explications des renseignements fournis sont données dans le Bulletin Mensuel de Janvier, n°1, 1938, p.11

Explanations of data are given in the Monthly Bulletin of January, n°1, 1938, p.11.

Date	Magnetic Character Magnetic Observatories of the U.S.A. Coast & Geodetic Survey Mean Value		Magnetic Character Mac Gregor Expedition	
	0h.- 12h.	12h. - 24h.	0h. - 12h.	12h. - 24h.
1938 April				
9	0.2	0.5	---	---
10	0.2	0.4	0.5	0.5
11	0.3	0.6	0.5	1.0
12	0.4	0.7	0.5	0.5
13	0.6	1.3	0.5	1.5
14	1.6	1.1	1.0	1.0
15	0.6	0.5	0.5	0.5
16	2.0	1.7	2.0	2.0
17	0.7	0.9	1.0	1.0
18	0.9	0.6	0.5	1.0
19	0.5	0.4	0.0	0.5
20	0.1	0.1	0.0	0.0
21	0.1	0.1	0.5	0.5
22	0.4	0.8	0.0	1.0
23	0.8	1.0	0.5	1.0
24	0.6	0.4	0.5	0.5
25	0.6	0.6	0.5	0.5

1938				
April				
26	0.1	0.3	0.0	0.5
27	0.4	0.2	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.1	0.0	0.0	0.0
30	0.0	0.0	0.0	0.5
May				
1	0.0	0.2	0.0	0.0
2	0.3	0.1	0.0	0.0
3	0.4	0.5	0.5	0.0
4	0.8	1.1	1.0	0.0
5	0.5	0.6	0.5	0.0
6	0.4	0.3	0.5	0.5
7	0.0	0.0	0.0	0.0
8	0.0	0.1	0.0	0.5
9	0.0	0.4	0.0	0.5
10	0.4	1.0	0.5	0.5
11	0.4	1.9	0.5	1.5
12	1.7	1.0	1.0	0.5
13	0.4	0.0	0.5	0.5
14	---	---	0.5	1.0

S. O. L.

Données fournies par l'Observatoire du Mont Wilson . Data from Mount Wilson Observatory.

Date	S.O.L.	Date	S.O.L.
1938		26	30955
April		27	41170
7	5XXXX	28	51280
8	60860	29	6XXXX
9	70750	30	7XXXX
10	10870	May	
11	20760	1	1XXXX
12	3XXXX	2	2XXXX
13	4XXXX	3	31020
14	50835 ⁺	4	41380
15	61070 ⁺	5	51240
16	70925 ⁺	6	61055
17	10800 ⁺⁺	7	71575
18	20970 ⁺	8	11580
19	30985 ⁺	9	21685
20	40855	10	31260
21	50676	11	41185
22	60965		
23	71045		

+ Add 100 to number of spots
++ Add 200 to number of spots

CORRECTION S O L , first quarter, 1938 : Mount Wilson announces following revision in sunspots :

	Groups	N°
March 1	7	70
23	6	35

K. H. L.

Renseignements du National
Bureau of Standards.Data from National Bureau of
Standards.

for April 13

3417X 41023
25012 44024
35014 54027
38518 70031
39027 94034
34171 20064
10038 24051
10043 26057
20046 280XX

for April 20

3417X 62039
25013 78042
35015 78045
365XX 84042
38023 84055
46025 90051
50029 90077
52034 98079
56035 990XX

for April 27

3417X 62034
25012 70038
35012 78040
37717 78045
38026 82040
40022 82059
44024 86043
52032 88048
54034 900XX

for May 4

3417X 50073
25012 52063
36013 56056
370XX 60065
38528 62060
41024 66057
43024 70068
46026 720XX
48037

for May 11

3417X 62032
25012 70035
35013 78037
39017 86039
39827 86046
42022 90045
48023 90050
52028 94046
54034 94064
58039 98050
34171 040XX
02068

MANILA URSIGRAMS received at Navy Department:M.A.G. for April 1 to April 17, 1938:

April 1 : 659XX 759XX 159XX 259XX 359XX 475XX 575XX
 659XX 77XX 159XX 279XX 377XX 47500 575XX
 677XX 775XX 159XX

M.A.G. for April 18 to April 30, 1938:

April 18 : 259XX 359XX 459XX 559XX 655XX 777XX 159XX
 255XX 357XX 455XX 559XX 659XX 739XX

M.A.G. for May 1 to May 16, 1938 :

May 1 : 159XX 259XX 359XX 455XX 559XX 655XX 759XX
 159XX 259XX 359XX 475XX 575XX 659XX 777XX
 155XX 259XX

COMBINED MANILA URSIGRAMS : M.A.G. for January, February, March 1938, transmitted by Miguel Selga, Director, Weather Bureau, The Government of the Philippine Islands, Department of Agriculture and Commerce, Weather Bureau, Central Office, Manila.

January 755XX 159XX 259XX 379XX 459XX 579XX 677XX 775XX
 159XX 23XXX 359XX 459XX 555XX 659XX 759XX 179XX
 279XX 477XX 579XX 679XX 779XX 159XX 259XX 375XX
 479XX 553XX 659XX 753XX 159XX 277XX

February 353XX 457XX 557XX 653XX 759XX 179XX 275XX 375XX
 477XX 577XX 659XX 759XX 157XX 279XX 357XX 459XX
 559XX 659XX 759XX 159XX 259XX 33XXX 475XX 557XX
 677XX 753XX 159XX 259XX

March 377XX 549XX 559XX 63XXX 775XX 177XX 253XX 359XX
 43XXX 559XX 659XX 777XX 159XX 257XX 377XX 43XXX
 559XX 659XX 73XXX 13XXX 259XX 375XX 475XX 575XX
 657XX 759XX 159XX 23XXX 355XX 459XX 53XXX

JAPANESE URSIGRAMS : from Tokyo Radio Station JAU-2, 7327.5 kc.
at 5 a.m. E.S.T., intercepted by R.C.A. San Francisco Station.

April 16 : Jap. Ursi April 16 not intercepted because Tokyo
Stations not received at San Francisco.

April 23 :

S.O.L. : 50776 60728 70915 10936 20726 30839 40913
Add 100 to number of spots every day

P.R.O. : 55141 65152 74141 14153 23261 35162 4XXXX

M.A.G. : 81432 72210

K.H.L. : 72003 26228 31435 39600

F.A.D. : 60332 60830 10600 Please make our Ursigram April
16th F A D as follows F A D 51315 ~~22230~~ 22230 30000
40930 42240

April 30 :

S.O.L. : 50840 6XXXX 7XXXX 10811, 2XXXX 30861 4XXXX
Add 100 to number of spots on Thursday and Sunday

P.R.O. : 52041 6XXXX 7XXXX 14132 2XXXX 35421 4XXXX
Tuesday E limb high prominence height 310000 km.

M.A.G. : 82112 31222

K.H.L. : 72703 XX234 34435 39600

F.A.D. : 22345

May 7 :

S.O.L. : 51006 61318 71145 11019 21324 3XXXX 4XXXX
Add 100 to number of spots on every day

P.R.O. : 5XXXX 64221 74131 16342 2XXXX 3XXXX 4XXXX

M.A.G. : 82800 00112

K.H.L. : 70403 XX234 34437 41600

F.A.D. : Nil

May 14 :

S.O.L. : 5XXXX 6XXXX 7XXXX 1XXXX 24111 31327 41297
Add 100 to number of spots every day

P.R.O. : 5XXXX 6XXXX 7XXXX 1XXXX 25240 35231 43151

M.A.G. : 80511 00004

K.H.L. : 71103 XX2XX 37439 44600

F.A.D. : Nil

COMITE NATIONAL FRANCAIS

FRENCH NATIONAL COMMITTEE

I.- PROGRAMME ET CODE - PROGRAM AND CODE

Le programme et le code des Ursigrammes émis sous les auspices du Comité Français de Radiotélégraphie Scientifique ont été publiés dans " L'Onde Electrique " Vol.10, n°120, Décembre 1931, p.I à X.

Program and code of Ursigrams emitted under the auspices of the French Radioscientific Committee are contained in " L'Onde Electrique " , Vol.10, n° 120, December 1931, p.I to X.

II.- RENSEIGNEMENTS - DATA

DATE	Bulletin Météorologique Quotidien B.A.R.								Acti- vité so- laire S.O.L.
	Lignes isobares				Zones des				
	Val. de la ligne (mb.)	Coordonnées			basses	hautes	pressions		
1938 Mai									
2	1015	15200 15630	15312	15123	74616 74203	990 1005	96500 94030	1025 1025	24322 341XX
		24830 23505	23920	24012					
3	1015	15100 13523	15115 12915	14520	74215	985	96115	1034	34323 360XX
4	1020	13017 14525 15313	13522 15021 15200	14029 15305	74210	997	93230 96020	1027 1034	43434 361XX
	1020	24535	25033	25535					

1938

May

5	1015	15000 13720 13009	14910 13315	14516 13307	74209	1000	96020	1030	53432
		27300 26400	27005	26515					
6	1015	16400	16006	15700	74205	1000	96840 95722	1040 1032	63331
		24900 23114	24515	23918					
7	1020	17001 15008	16002 14016	15300 13216	74207	1005	95719 94623	1033 1032	73332
	1020	24032	24530	25333					
8	1020	14230 15515	14320 15207	15020 15000	75432	1005	94911 93425	1028 1030	14431
	1020	24800 23015	25008	23913					
	1020	37405 36525	36508 36325	36315					
9	1020	17017 16425	16514 16534	16219	75230 76000	1000 1009	94313 96825	1027 1027	24431 341XX
		23009 24506	23305 25205	24010					
		25111 24030	24715	24020					
10	1015	14031 15612	14620 16423	14616	75335	982	93423 95101	1032 1021	34331 360XX
11	1015	14330 15011	14324 15606	14615 15600	77005 75428	993 984	93517	1031	44441 361XX
12	1015	14130 14908	14522 15500	14815	76504 75724	995 988	93618	1032	54431 362XX
13	1015	15230 14410	14530 15300	13919	76113 75119	992 992	93730 93512	1023 1025	6XXXX
14	1015	14200 15227	13715 16028	14119	75212 76407	998 999	94032	1032	74331 364XX
15	1015	16025 14610 13107	16216 14006	14614 13403	75605	1000	95131 93818	1027 1025	1XXXX

1938

Mai

16	1015	16600 15608 15100	16305 15309	15701 14904	75524 75303	995 1010	93719	1028	2XXXX
		24835 26420	24422	25508					
17	1015	15900 16323	15602 16230	16115	75725	1000	97210 94024	1030 1031	3XXXX
		23030 25118 24800	25125 24710	25022 25105					
18	1015	14000 15215	14508 15803	14512 16200	75537 74903	1004 1004	96907 93629	1027 1032	33330
		24935 26026	25025 26029	25525					
19	1020	14830 14506 13510	15215 14110 13020	14907 13903	75620	1005	96703 94022	1026 1032	5XXXX
		26300 26813	25709 27120	26314					
20	1020	16805 14911	16111 15115	15506 14332					
		25300 24602 23020	24709 23710	24506 23512	75337	1000	96203 94109	1025 1031	64333
21	1020	15230 16104 16905	15017 16104 17220	15704 16408	76120	995	94314 94324	1028 1030	7XXXX
		24600 23710	24302 23516	24308 23018					
22	1025	14500 14111 15516 15900	14704 14520 15906	14403 15213 15802	76612 76426	1005 1005	94710 94633	1029 1029	---
		25030 24530 23824	25125 24531	124924 24128					
23	1025	15630 14200 13529	15313 14308	14804 13519	75703 76215	1009 1009	94824	1037	23331

1938									17.
Mai									
24	1020	15730 15205	15426 14800	16014	75900	1005	94620	1035	33332 (1)
		23800 23612	24004 23017	24308					
25	1015	17000	16515	16530	75922	1005	97515	1026	---
		25531 25005	25325 25100	25417					
		33800 33311	33903 33207	33513					
26	1015	15225 13809	14519 13013	14310	75707 75312	992 993	94332	1030	53432 363XX
		17006 16430	16510	16319					
27	1015	15929 14007	14823 13508	14817	76005 74904	994 996	94330	1030	63X2X 364XX
28	1020	14830 14122 13712	14726 14315 13019	14228 14108	76808 75720 75400 74621	1002 995 996 1012	93325	1028	73333 365XX
29	1010	15025 14706	14618 15000	14810	77213 75805 75825	1002 993 990	93620	1028	13333 366XX
	1010	26400 27007	26411 27405	26518					

(1) Eruption chromosphérique méridien central observé sept heures 11 à huit heures 42.

COMITE NATIONAL JAPONAIS
JAPANESE NATIONAL COMMITTEE

I.- PROGRAMME ET CODE - PROGRAM AND CODE

Le programme et le code des Ursigrammes Japonais ont été publiés dans le " Report of Radio Research in Japan " Vol.VI, n°3, Décembre 1936, p.u.13 (Document URSI n°469) et dans le Bulletin des Ursigrammes de l'U.R.S.I. (Document n°467).

Program and code of Japanese Ursigrams are published in " Report of Radio Research in Japan " Vol.VI, n°3, December 1936, p.u. 13. (URSI Document n°469) and in the Ursigrams paper of U.R.S.I. (Document n°467).

Des copies de ce document peuvent être obtenues en s'adressant au Secrétariat Général de l'U.R.S.I. à Bruxelles.

Copies of this paper are sent on request by the General Secretariat of the U.R.S.I. in Brussels.

II.- URSIGRAMMES - URSIGRAMS

Date	Sunspot		Prominence				Terrestrial Magnetism	Kennelly-Heavisi- de Layer Heights			Fade outs in Radio Commu- nica- tions GMT
	Groups	Spots	Number		Area		State	Near. hour GMT	Freq.	Ht.	
			E	W	E	W					
1938									kc/s.	Km	
March											
1	6	68	8	6	23	16	Slight dis- turbance				
2	..	...	..	..	..	..	Rather calm	0400	4,000 6,000 8,000 10,000 12,000 14,000	250 300 310 340 380 +	
3	..	...	..	..	..	..	Rather calm				
4	4	36	4	4	13	5	Rather calm				
5	..	...	..	..	..	..	Disturbance				
6	..	...	..	..	..	..	Slight dis- turbance				
7	..	...	..	..	..	..	Slight dis- turbance				

1938							19.		
March									
8	..	...	..	..	..	..	Calm		
9	..	...	..	..	..	..	Calm	0300	6,000 300
									8,000 310
									10,000 350
									12,000 390
									14,000 440
									16,000 +
10	..	...	..	..	..	..	Calm		
11	..	...	..	..	..	..	Calm		
12	9	139	10	5	17	18	Slight disturbance		
13	..	...	..	..	..	..	Rather calm		
14	..	...	..	..	..	..	Slight disturbance		
15	8	142	11	7	14	9	Slight disturbance		
16	15	148	..	..	..	..	Calm	0300	4,000 130
									6,000 280
									8,000 320
									10,000 350
									12,000 390
									14,000 +
17	12	145	10	8	16	12	Calm		
18	10	102	7	6	13	9	Calm		
19	10	98	5	8	12	13	Calm		
20	7	59	7	9	12	14	Calm		
21	6	62	4	12	4	16	Rather calm		
22	..	...	..	..	..	..	Disturbance		
23	..	...	..	..	..	..	Disturbance	0300	4,000 240
									6,000 300
									8,000 300
									10,000 330
									12,000 370
									14,000 +
24	..	...	..	..	..	..	Disturbance		
25	4	42	12	4	15	6	Slight disturbance		
26	4	38	11	8	17	19	Slight disturbance		
27	..	...	..	..	..	..	Calm		
28	..	...	..	..	..	..	Calm		
29	5	73	8	6	8	6	Rather calm		
30	5	88	7	9	8	9	Calm	0300	4,000 270
									6,000 300
									8,000 330
									10,000 360
									12,000 390
									14,000 +
31	7	86	8	9	13	11	Calm		1033

.. = No observation

+ = No echo

DATE	Sunspot		Prominence				Terrestrial Magnetisg	Kennelly-Heavisi- de Layer Heights			Fade outs in Radio Commu- nica- tions GMT.
	Groups	Spots	Number		Area		State	Near. hour GMT.	Freq.	Ht.	
			E	W	E	W					
1938									kc/s.	Km.	
April											
1	8	104	8	13	11	15	Rather calm				
2	8	102	12	8	16	9	Calm				
3	..	..	..	..	..	..	Rather calm				
4	8	79	9	7	12	12	Rather calm				
5	10	68	10	5	21	8	Calm				
6	12	108	11	8	24	12	Slight dis- turbance	0300	4,000 6,000 8,000 10,000 12,000 14,000	270 300 340 360 400 +	0543 1155
7	..	..	..	..	..	..	Slight dis- turbance				1315
8	9	71	9	15	12	22	Rather calm				
9	..	..	..	..	..	..	Rather calm				
10	7	78	8	5	11	4	Rather calm				
11	..	..	..	..	..	..	Rather calm				2200 2230
12	7	118	..	..	..	..	Slight dis- turbance				0000
13	8	124	6	12	8	20	Storm with sudden com- mencement	0300	6,000 8,000 10,000 12,000 14,000	350 360 380 420 +	0930 2240
14	7	176	9	8	8	8	Disturbance				
15	7	128	10	9	15	16	Slight dis- turbance				0332 0830
16	9	115	7	7	10	12	Remarkable storm with sudden com- mencement				
17	9	136	8	10	12	29	Slight dis- turbance				0600
18	7	126	6	11	15	12	Slight dis- turbance				
19	8	139	10	12	13	22	Rather calm				

1938											
April											
20	9	113	..	..	..	..	Calm	0300	4,000	260
									6,000	280	
									8,000	310	
									10,000	350	
									12,000	390	
									14,000	+	
21	8	140	4	8	3	12	Rather calm				
22	..	...	..	..	..	..	Slight dis- turbance			
23	..	...	..	..	..	..	Disturbance			
24	8	111	7	6	14	15	Rather calm				
25	..	...	..	..	..	..	Slight dis- turbance			2345
26	8	61	10	4	41	9	Slight dis- turbance				
			(E limb high prominence, height 310000 km.)								
27	..	...	..	..	..	..	Slight dis- turbance	0300	6,000	340
									8,000	340	
									10,000	350	
									12,000	390	
									14,000	+	
28	10	106	..	..	..	..	Calm			
29	13	118	8	4	16	6	Calm				
30	11	145	7	6	12	8	Calm				

.. = No observation + = No echo