ÉRUPTIONS CHROMOSPHERIQUES BRILLANTES
observées au spectrohélioscope et au spectrohéliographe.\(^{(c)}\)

Observatoires participants: Adler Planetarium (Chicago), Arcetri-Firenze, Beyrouth, Cambridge (Angleterre), Canberra, Cook (Wynnewood, Mr. Wyne Cook), Ewhurst, (Mr. Evershed), Greenwich, Huncayo, Institute of Technology (Cambridge, U.S.A.), Kharkov, Kodaikanal, Meudon, Mt. Wilson, Nanking, Pomona College (Claremont), Tachkent, Watheroo, Worthing (Mr. Newbegin), Yerkes, Zurich.

Tableau I. – Éruptions signalées.

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<th>Coordonnées approximatives</th>
<th>Vitesses radiales</th>
<th>Importance</th>
<th>Remarques</th>
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### Tableau II. – Régions actives.

| No | Rotation | Coordonnées du centre de la région active | Date du passage au méridien central | Nombre d'éruptions signalées | Caractères (déduits de l'examen des spectrohéliogrammes de Meudon)

|    |          |                                       |                                   |                          | **Abréviations:** $T =$ tache unique. – $GT =$ groupe de taches. – $PF =$ plage faculaire. – $HI =$ hémisphère invisible. – obs. = observation. – imp. = important. – crois. = croissant. – const. = constant. – déc. = décroissant.
|----|----------|----------------------------------------|-----------------------------------|--------------------------|--------------------------
| 34 | 1117     | 24° N. 266°                           | mars 21,4                        | 1                        | Petit GT et PF moyenne. – Retour du no 18. – Déc. lentement. |
| 35 |          | 26 S. 246                             | " 23,0                           | 1                        | Petite PF. – Retour du no 19. – Const. |
| 36 |          | 21 N. 238                             | " 23,5                           | 2                        | PF en voie de dissolution. – Retour des nos 18 et 20. |
| 37 |          | 19 N. 207                             | " 25,9                           | 1                        | PF en voie de dissolution. – Retour du no 20. |
| 38 |          | 21 S. 206                             | " 26,0                           | 2                        | Petite T et petite PF. – Retour probable d'une région non active à la rotation précédente. – Const., puis déc. |
| 39 |          | 8 N. 93                               | avril 3,6                         | 1                        | Petit GT et petite PF. – Formés dans HI. – Crois., puis const. |
| 40 |          | 16 N. 85                              | " 4,2                            | 1                        | Petit GT et petite PF. – Formés dans HI. – Crois., puis const. |

(*) Les explications relatives aux conventions adoptées dans les tableaux ont été données dans le Bulletin for character figures no 31.

Meudon, le 15 juin 1937

L. d'Azambuja
ÉRUPTIONS CHROMOSPHÉRIQUES BRILLANTES
observées au spectrohéliroscope et au spectrohéliographe. (1)

Observateurs : participants: Adler Planetarium (Chicago), Arcetri-Firenze, Beyrouth, Cambridge (Angleterre), Canberra, Cook (Wynnewood, Mr. Wynn Cook), Ewellhurt, (Mr. Evershed), Greenwich, Huancayo, Institute of Technology (Cambridge, U.S.A.), Kharkov, Kodaikanal, Meudon, Mt. Wilson, Nanking, Pomona College (Claremont), Tachkent, Watheroo, Worthing (Mr. Newbegin), Yerkes, Zurich.

Tableau 1. — Éruptions signalées.

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**Deux points brillants.**

**Protubérance éruptive.**

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Deux centres éruptifs.

Changements de forme et d'intensité.

Accompagnée de perturbations magnétiques et électriques.

Petite protubérance éruptive.

Protubérance éruptive.

Deux points brillants.

Protubérance éruptive.

Grande protubérance éruptive.

Plusieurs centres éruptifs.
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Fin incertaine.

Observée sur des spectrohéliogrammes pris avec la raie Ha.

Début de l'éruption observée sur un spectrohéliogramme pris avec la raie Ha.

Deux centres éruptifs.

Deux points brillants.

Deux centres éruptifs.

Maximum d'éclat à 4 h 34 m.
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### Tableau II. — Régions actives.

| No | Rotation | Coordonnées du centre de la région active | Date du passage au méridien central | Nombre d'éruptions signalées | Caractères (déduits de l'examen des spectrohéliogrammes de Meudon)


| No | Rotation | Coordonnées du centre de la région active | Date du passage au méridien central | Nombre d'éruptions signalées | Caractères (déduits de l'examen des spectrohéliogrammes de Meudon)

| 38 | 1120 | 21° N. 263° | juin | 11,4 | 3 |
| 39 | 12 | 12 S. 245 | 12,8 | 1 |
| 40 | 12 N. 201 | 16,1 | 11 (3) |
| 41 | 16 S. 198 | 16,5 | 29 (7) |
| 42 | 23 N. 191 | 16,9 | 3 (3) |
| 43 | 13 N. 180 | 17,7 | 4 (3) |
| 44 | 16 S. 175 | 18,0 | 12 (3) |
| 45 | 13 N. 148 | 20,1 | 1 |
| 46 | 8 S. 137 | 20,9 | 1 |
| 47 | 14 N. 135 | 21,1 | 8 |
| 48 | 13 N. 111 | 22,9 | 1 |
| 49 | 16 S. 46 | 27,8 | 13 |
| 50 | 1121 | 12 N. 302 | juil. | 5,6 | 1 |

D’abord PF peu imp. — Retour probable du no 24. — Un GT nouveau d’importance moyenne se forme entre le 11 et le 12; const. ensuite.

Petite PF. — Formée dans HI. — Décr.

T et PF imp. — Formées dans HI. — Crois., puis déc. lentement.


GT moyen et PF imp. — Retour du no 27. — Décr. lentement.

D’abord PF moyenne. — Retour du no 29. — Un petit GT se forme entre le 19 et le 20; const. ensuite.

GT et PF moyens. — Formés probablement le 12, près du bord est. — Crois., puis se réunit au no 40.

Petite PF en voie de dissolution. — Retour du no 30.


GT moyen et PF assez imp. — Retour probable du no 31. — Const.

GT assez imp. et PF étendue. — Retour du no 33. — Décr. lentement.

PF très petite et éphémère.

(1) Les explications relatives aux conventions adoptées dans les tableaux ont été données dans le Bulletin for character figures no 31.

(2) Noter en outre une éruption signalée au Bulletin précédent dans cette même région active.

(3) Pendant le 2ème trimestre, la zone comprenant les régions 12, 14, 16 à la rotation 1118: 27, 26, 29 à la rotation 1119: 40, 41, 43, 44 à la rotation 1120, a été, à chaque passage, le siège d’une activité continue et vraiment exceptionnelle.

*Meudon, le 26 septembre 1937*

*L. d’Azambuja*
ÉRUPTIONS CHROMOSPHÉRIQUES BRILLANTES
observées au spectrohélioscope et au spectrohéliographe.(1)

Observatoires participants: Adler Planetarium (Chicago), Arcetri-Firenze, Beyrouth, Cambridge (Angleterre), Canberra, Cook (Wynnewood, Mr. Wynnecook), Ewhurst, (Mr. Evershed), Greenwich, Huancayo, Institute of Technology (Cambridge, U.S.A.), Kharkov, Kodaikanal. Meudon. Mt. Wilson, Nanking, Pomona College (Claremont), Tachkent, Watheroo. Worthing (Mr. Newbegin), Yerkes, Zurich.

Tableau I. – Éruptions signalées.

<table>
<thead>
<tr>
<th>Observatoire</th>
<th>Date</th>
<th>Observation de à</th>
<th>T. C. G.</th>
<th>Coordonnées approximatives</th>
<th>Vitesse radiales</th>
<th>Importance</th>
<th>Remarques</th>
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<td></td>
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Tableau I. — Éruptions signalées.

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<th>Date</th>
<th>Observation de T.C.G.</th>
<th>Coordonnées approximatives</th>
<th>Vitesse radiales</th>
<th>Importance</th>
<th>Remarques</th>
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Plusieurs centres éruptifs.

Plusieurs points brillants.

Fin incertaine.

Fin incertaine.

Plusieurs éruptions successives.

Grande protubérance éruptive.

Plusieurs maxima d'intensité.

Faibles variations d'éclat.

Plusieurs éruptions.

Protubérance éruptive.

Deux centres éruptifs.

Eruption d'étendue exceptionnelle, plusieurs centres d'activité.
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Deux éruptions successives.

Plusieurs centres éruptifs.

Trois points brillants.

Obs. notamment avec Ca+ 8542.

Point brillant.

Trois points brillants.
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**Remarques**
- Preturbation éruptive.
- Trois points brillants.
- Trois centres éruptifs.
- Point brillait.
- Point brillant.
- Observée avec Ha.
- Deux maxima d'éclat.
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<tr>
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<th>Date</th>
<th>Observations de</th>
<th>Coordonnées approximatives</th>
<th>Vitesses radiales</th>
<th>Importance</th>
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Plusieurs centres éruptifs.

Petites éruptions pendant toute la journée.

Pétrole extrait.
Tableau II. – Régions actives.

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<th>Nombre d'éruptions signalées</th>
<th>Caractères (décrits de l'examen des spectrohéliogrammes de Meudon)</th>
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* Abréviations: T = tache unique. – CT = groupe de taches. – PF = plage faculaire. – HI = hémisphère invisible. – obs. = observation. – imp. = important. – crois. = croissante. – const. = constant. – déc. = décroissante. *
### Tableau II. – Régions actives.

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<th>No</th>
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<th>Date du passage au méridien central</th>
<th>Nombre d'éruptions signalées</th>
<th>Caractères (déduits de l'examen des spectrohéliogrammes de Meudon)</th>
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<td><strong>Abréviations:</strong> T = tache unique. - GT = groupe de taches. - PF = plage faculaire. - HI = hémisphère invisible. - obs. = observation. - imp. = important. - crois. = croisant. - const. = constant. - déc. = décroissant.</td>
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(*) Les explications relatives aux conventions adoptées dans les tableaux ont été données dans le Bulletin for character figures n° 31.

(*) Noter en outre 13 éruptions signalées au Bulletin précédent dans la même région active.

**Meudon, le 19 décembre 1937**

**L. d'Azambuja**
ÉRUPTIONS CHROMOSPHERIQUES BRILLANTES
observées au spectrohélioscope et au spectrohéliographe.

Observatoires participants: Adler Planetarium (Chicago), Arcetri-Firenze, Beyrouth, Cambridge (Angleterre), Canberra, Cook (Wynnewood, Mr. Wyane Cook), Ewhurst (Mr. Evershed), Greenwich, Huancayo, Institute of Technology (Cambridge, U. S. A.), Kharkov, Kodaikanal, Meudon, Mt. Wilson, Muswell Hill (London, Mr. Sellers), Nanking, Pomona College (Claremont), Tachkent, Watheroo, Worthing (Mr. Newbegin), Yerkes, Zurich.

Tableau 1. – Éruptions signalées.

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<th>Observatoire</th>
<th>Date</th>
<th>Observation de</th>
<th>Coordonnées approximatives</th>
<th>Vitesse radiales</th>
<th>Importance</th>
<th>Remarques</th>
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Deux centres éruptifs.
Deux centres éruptifs.
Deux centres éruptifs.
Grande protubérance éruptive.
Point brillant.
Point brillant.
Deux maxima d'intensité, plusieurs points brillants.
Protubérance éruptive.
Protubérance éruptive.
Protubérance éruptive.
Protubérance active.
Petite protubérance éruptive.
Point brillant.
Deux centres éruptifs.
### Tableau I. – Éruptions signalées.

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<th>Coordonnées approximatives</th>
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### Tableau II. – Régions actives.

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<th>Nombre d'éruptions signalées</th>
<th>Caractères (déduits de l'examen des spectrohéliogrammes de Meudon)</th>
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### Tableau II. – Régions actives.

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<td>40</td>
<td></td>
<td>7° S. 300°</td>
<td></td>
<td>16,4</td>
<td>Petite PF. – Formée probablement dans HI. – Décr.</td>
</tr>
<tr>
<td>41</td>
<td></td>
<td>23° N. 252°</td>
<td></td>
<td>20,0</td>
<td>Pas d'obs. du 19 au 26. – GT et PF peu imp.</td>
</tr>
<tr>
<td>42</td>
<td></td>
<td>25° N. 239°</td>
<td></td>
<td>21,0</td>
<td>Pas d'obs. du 19 au 26. – GT assez imp. et PF moyenne.</td>
</tr>
<tr>
<td>43</td>
<td></td>
<td>21° S. 149°</td>
<td></td>
<td>27,9</td>
<td>Pas d'obs. jusqu'au 27. – GT peu imp. et PF moyenne. – Crois., puis const.</td>
</tr>
</tbody>
</table>

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(1) Les explications relatives aux conventions adoptées dans les tableaux ont été données dans le Bulletin for character figures no 31.

(2) Noter en outre les 15 et 1 éruptions, respectivement, signalées au Bulletin précédent dans ces deux régions actives.

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Meudon, le 25 mars 1938

L. d'Azambuja