

Rencontre des observateurs solaires

A photograph of the Eiffel Tower and the Paris skyline at sunset. The sun is low on the horizon, creating a bright orange and yellow glow. The Eiffel Tower is the central focus, with its intricate lattice structure silhouetted against the bright sun. To the right, the dome of the Invalides and other buildings are visible in silhouette. The sky is filled with soft, wispy clouds, and the overall atmosphere is warm and dramatic.

ROS 2016 Serbannes

Atelier traitement des images solaires

Réalisation d'animations

- Acquisitions unitaires
- Acquisitions en série
- Registration
- Cosmétique
- Animation
- Registration animation

Acquisitions unitaires

- Monochrome
 - On a généralement du flux « monochromatique »
 - Couleur = Convention
- Acquisition multi-images (Film)
- AVI, SER
- Problème du guidage

Acquisitions en série

The screenshot displays a Windows desktop environment used for astronomical imaging. The primary window is the ZWO ASI120MM-S camera interface, showing a live grayscale feed of a star with a red reticle overlay. The temperature of the camera is indicated as 39.5 °C. To the left, the FireCapture v2.4.10 software provides control over the capture process, including settings for image format (16 Bit, Bin 2x, Max 1280x960), exposure time (3,165 ms), and capture mode (SunHAlpha, RGB). The status bar shows a capture rate of 315.96 FPS. On the right side, the EQMOD HE... window displays real-time solar tracking data for the JPEEQ6 V1.27g mount, including LST (08:32:36), AD (06:21:15), DEC (+21:56:03), AZ (236:25:24), and ALT (52:51:53). A 'Click_Auto' utility window is also present, showing coordinates (X: 1363, Y: 21) and a large red '27'.

FireCapture v2.4.10

Image
16 Bit Bin 2x Max (1280x960)
ROI 400 x 320

Contrôle
Gain 0
Exp. (ms) 3,165
Gamma 100
Plus 1.00 - 10 ms

Capturer
Solh_2015_06_30_208_TIME
SunHAlpha RGB
Limit: 150 images AVI

Status
FPS (max/courant) 315,96 161,29
Capturé/Sauvegar... 150 150
RAM 985 MO HDD 95 GO

Histogramme
0/221 (86%) Unique: 150

Options
Paramètres

ZWO ASI120MM-S (T=39.5 °C) USB2.0

MAX 100 %
15:48:45 Rot: 0 Lux: 50

50%
100%
300%

EQMOD HE...

JPEEQ6 V1.27g
ASCOM

Position Monture
LST 08:32:36
AD 06:21:15
DEC +21:56:03
AZ 236:25:24
ALT 52:51:53
Orientation *EST, Pointage OUEST

Contrôle Pointage
Taux RA Taux DEC
N O E S
STOP 3
Inverser AD Inverser DEC
2000

Vitesse de Suivi: Solaire
STOP * ☽ ☼
AD 15,0817 DEC 0,17

Statut PARK: NON PARKÉE
PARK sur Position HOME

Click_Auto (c)2008 ...

22
X: 1363 Y: 21
Via Joypad B10
Click each 60 s
27

Telescope
PHD Guiding Magic_Guider FireCapture_ASI proc_coronog...

15:48

Acquisitions en série

The screenshot displays a desktop environment for astronomical imaging. The central window, titled "ZWO ASI120MM-S (T=13.2 °C) USB2.0", shows a live video feed of a star with a red reticle. A yellow arrow points to the center of the star. The left sidebar contains the "FireCapture v2.5.03 BETA x64" control panel, which includes sections for "Image" (16 bits, Bin x2, Max (1280x960), Taille 480 x 320), "Contrôle" (Gain, Exp. (ms) 6.098, Gamma 76), "Capture" (Solhalpha_2016_03_13_137_TIME, Solhalpha, L, Limite: 150 images, SER), "Statut" (im/s (max/réel) 163.99 / 79.68, Capturé / Sauvé 150 / 150, Tampon 3.495 images, Disque 697 Go), "Histogramme" (0/227 (89%) Unique: 185, Noise: 4.534424), "Options", and "Paramètres". The right sidebar shows the "EQMOD HEQ..." window with "ASCOM" branding and "Moniteur Autoguidage ASCOM" graphs for AD and DEC, both showing 100% gain impulse. Below these are "Vitesse de Suivi: Solaire" controls and "Statut PARK: NON PARKÉE" with "PARK sur Position HOME". At the bottom center, a "Click_Auto (c)2008..." utility window displays "133" in green, "25" in orange, and coordinates X: 4, Y: 726. The desktop background is a grayscale image of a celestial body, and the taskbar at the bottom shows icons for TheSky6, PRISM v1.0, FireCapture_ASI, Muniwin, AutoStakker, RegiStax6, ice, asi_today, Occult Watcher, and Tangra.exe.

Acquisitions en série

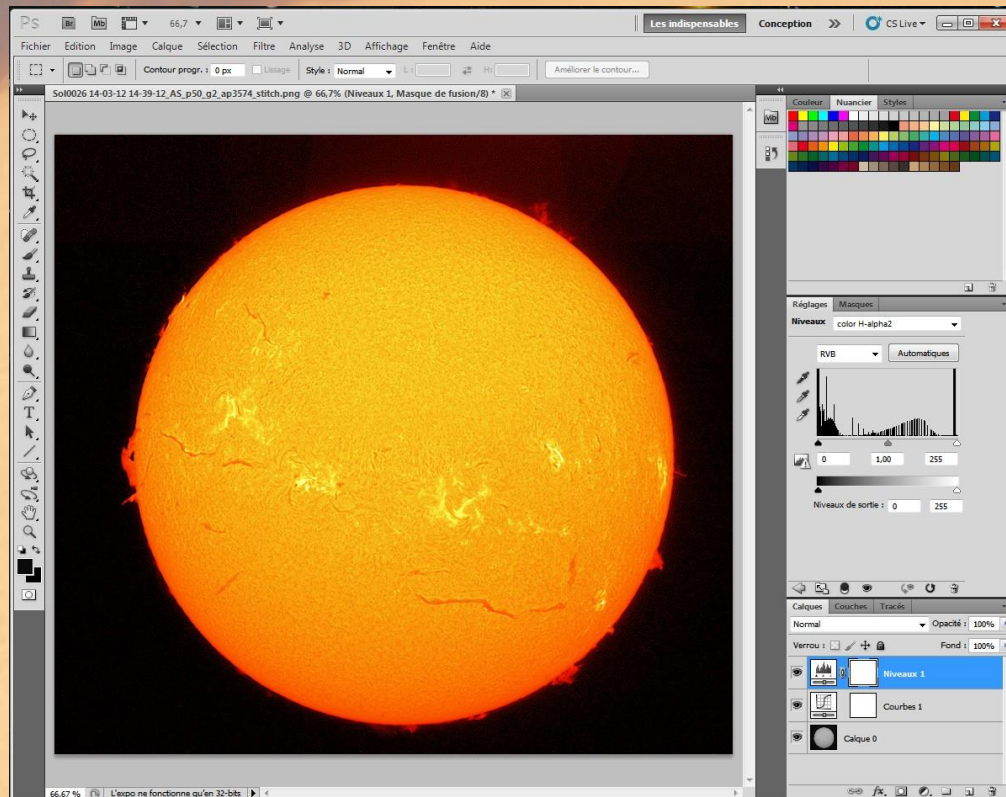
- Capture unitaire avec « FireCapture »
- SER
- AI's Reticule pour faciliter le guidage manuel
 - Enregistrement PEC?
- Click_Auto pour déclencher périodiquement
 - Forçage manuel si nuage/avion/oiseau

Registration

- Pour chaque film
- Registax
 - Possède un mode Batch incluant les ondelettes
 - Moins convivial/performant en registration
- Autostakkert (AS2)
 - Possède un mode Batch sans les ondelettes
 - Plus performant en registration
- Avistack
 - Abandonné

Cosmétique Unitaire

- Ondelettes avec Registax
- Colorisation avec PSP (long)



Préparation Animation

- Transformer un lot de Jpeg/Png en Avi
- Anim.exe (PSP7)
- Microsoft Gif Animator
- Virtualdub.exe
 - Irfanview pour renumérotation images
 - Virtualdub pour assemblage en Avi

Registration Animation

- Avec Registax 4
 - Si possible sur un détail précis
- Avec Registax 6
 - Choisir 1 point
 - Moyennage possible
- Avec IMPPG
 - Sur l'image globale (registration FFT)

Colorisation Animation

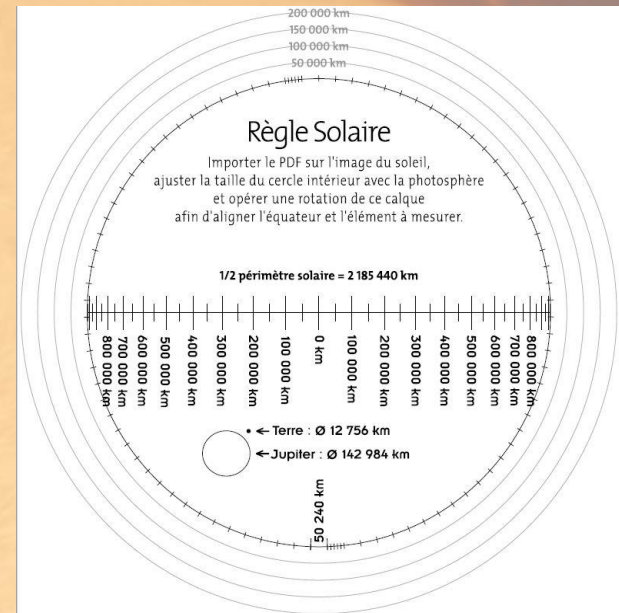
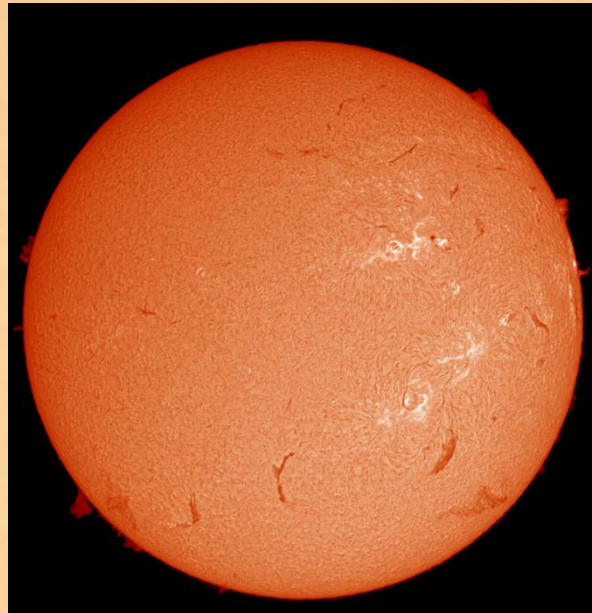
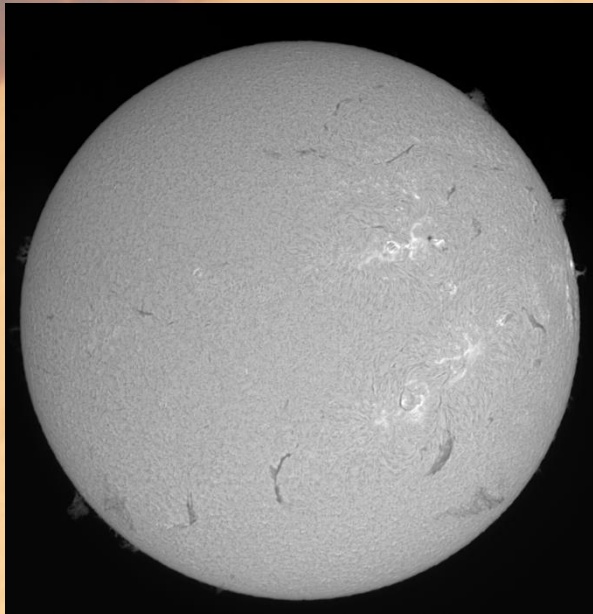
- Virtualdub.exe
 - Filtre/plugin colorisation



Publication Animation

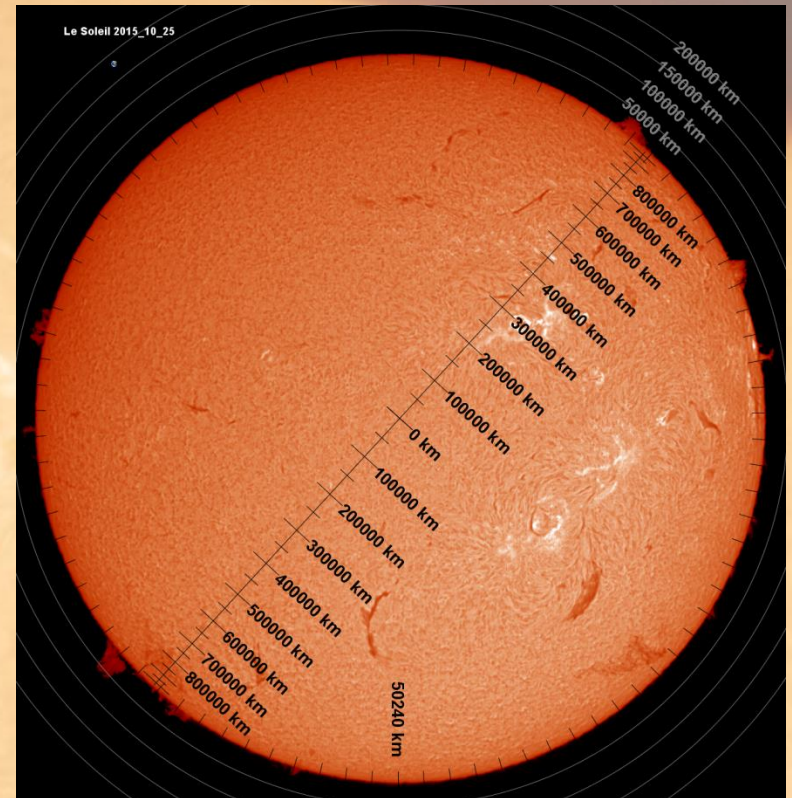
- Transformer un lot de Jpeg en
 - Avi (joué une fois ou duplication de séquences)
 - Gif (joué à l'infini) *** (pb avec FB)
- Anim.exe (PSP7)
- Microsoft Gif Animator
- Virtualdub.exe
 - Export en Gif

Rajouter des échelles

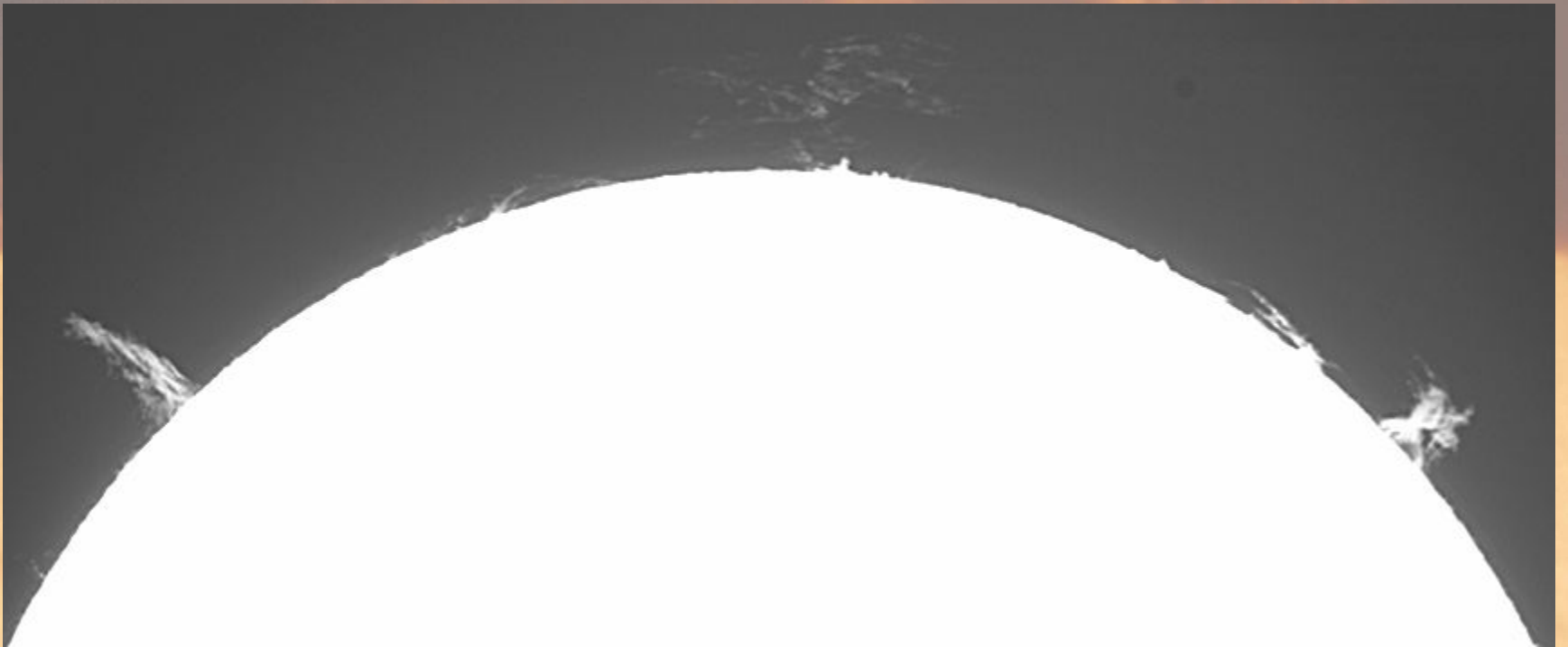


Rajouter des échelles

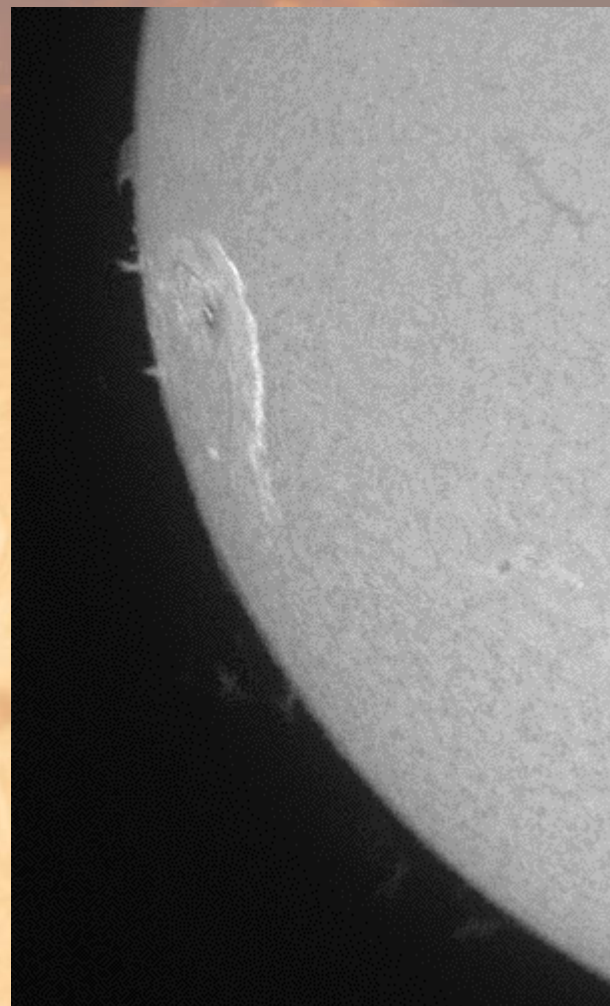
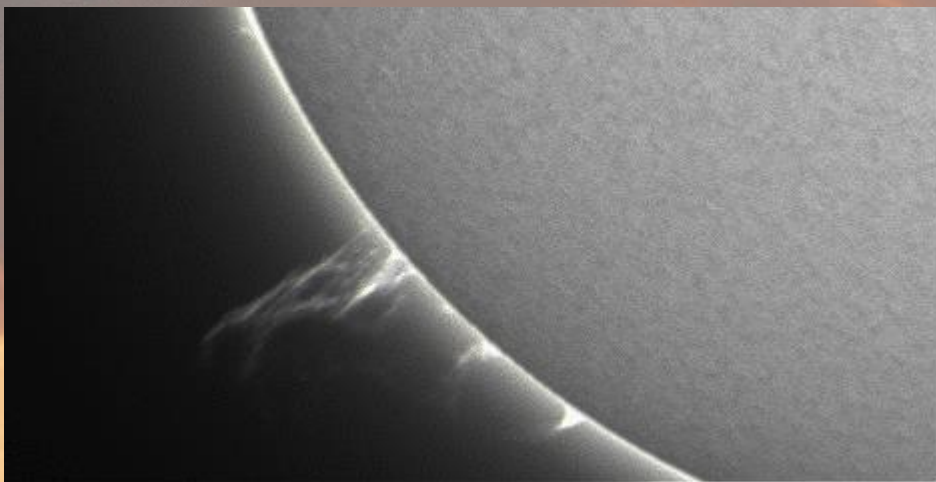
- Luso3D
- Masque PhotoShop



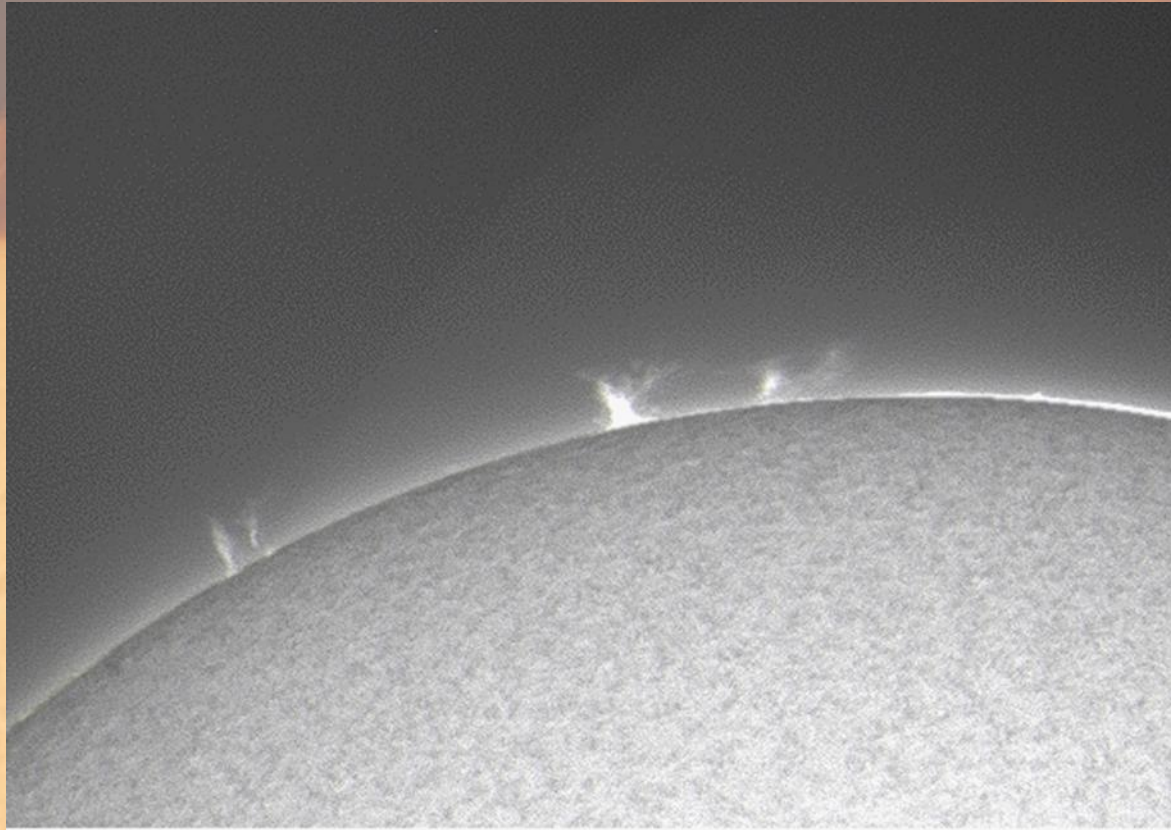
Fond « Blanc »



Fond « Surface »



Phénomènes



Avions

