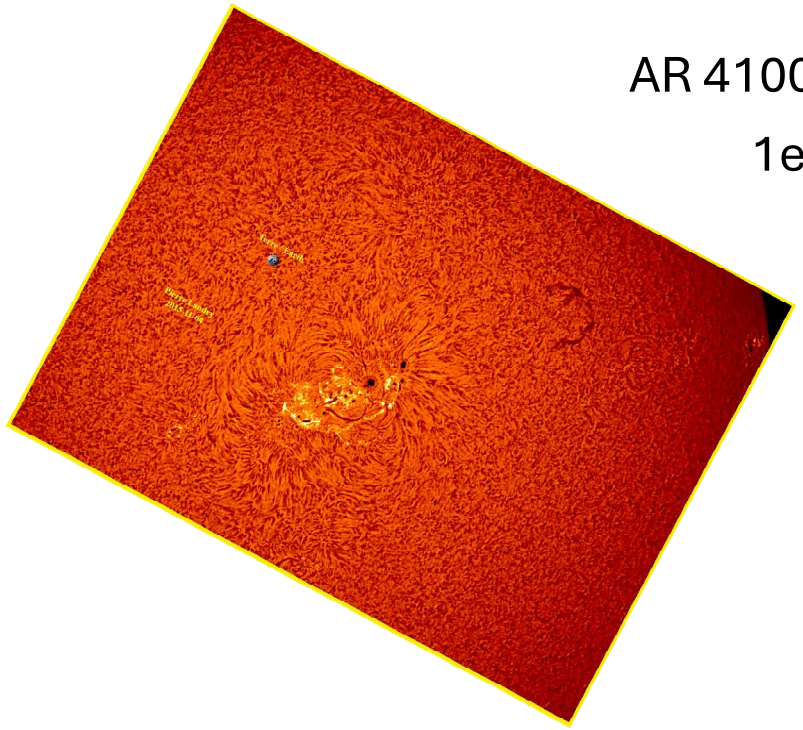
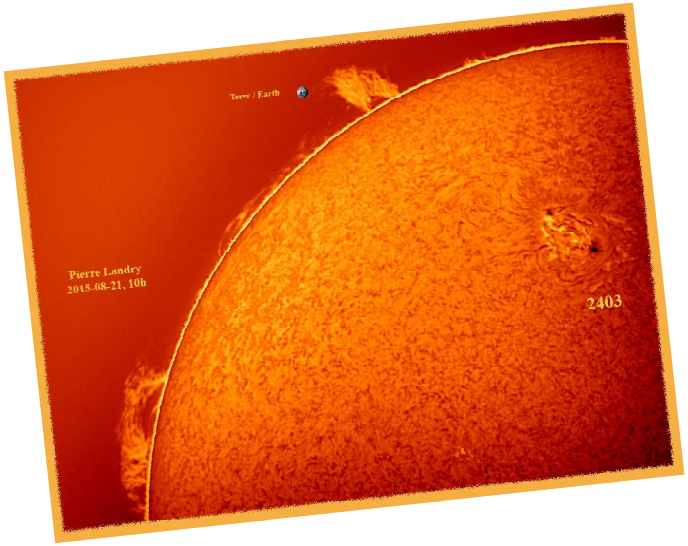
Soleil



AR 4100 (Active Region)

1er juin 2025

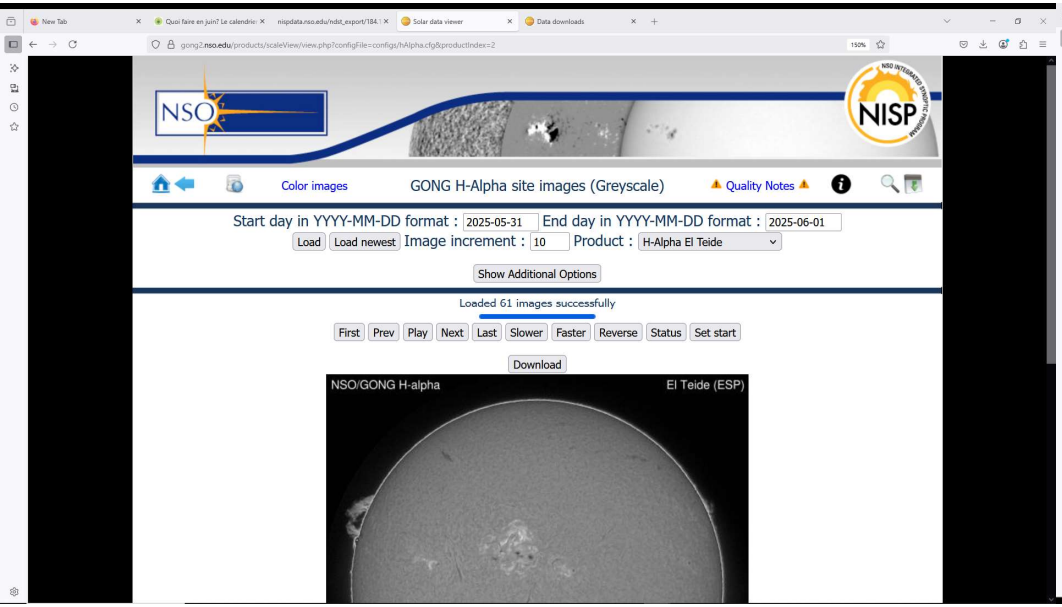


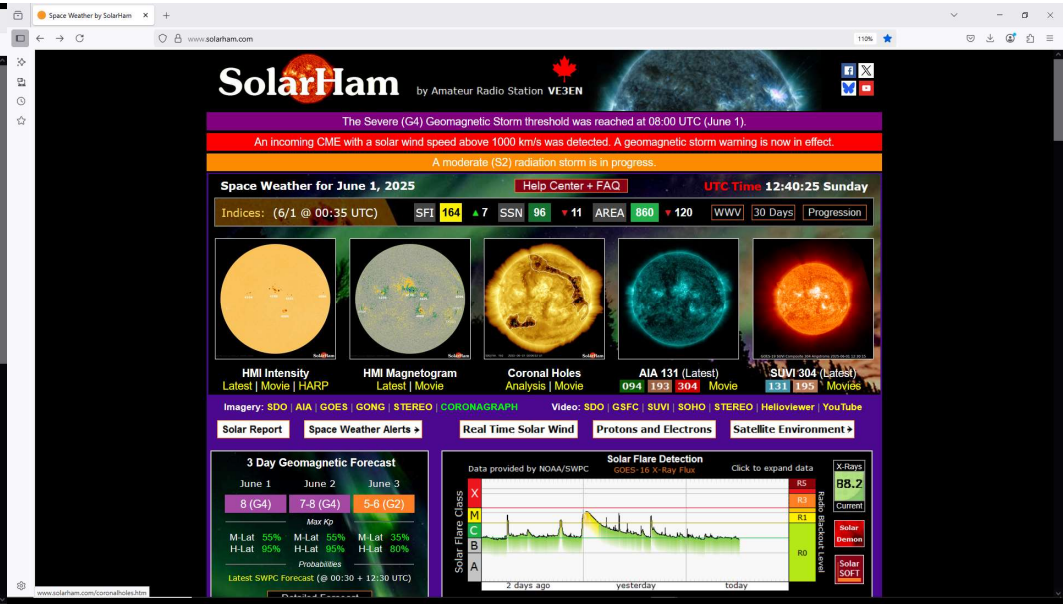
par Pierre Landry

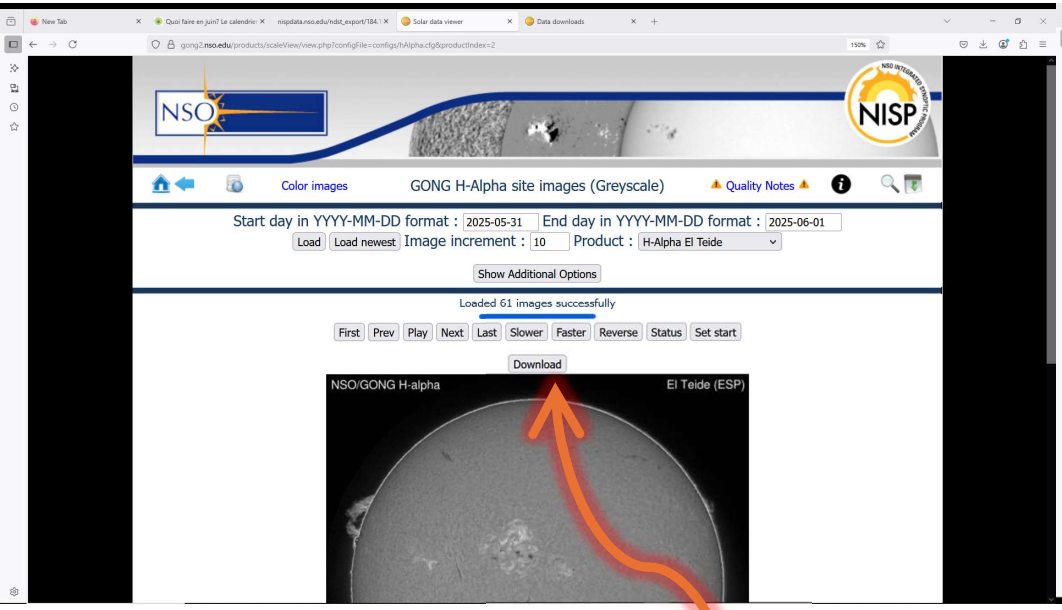
RAAQ

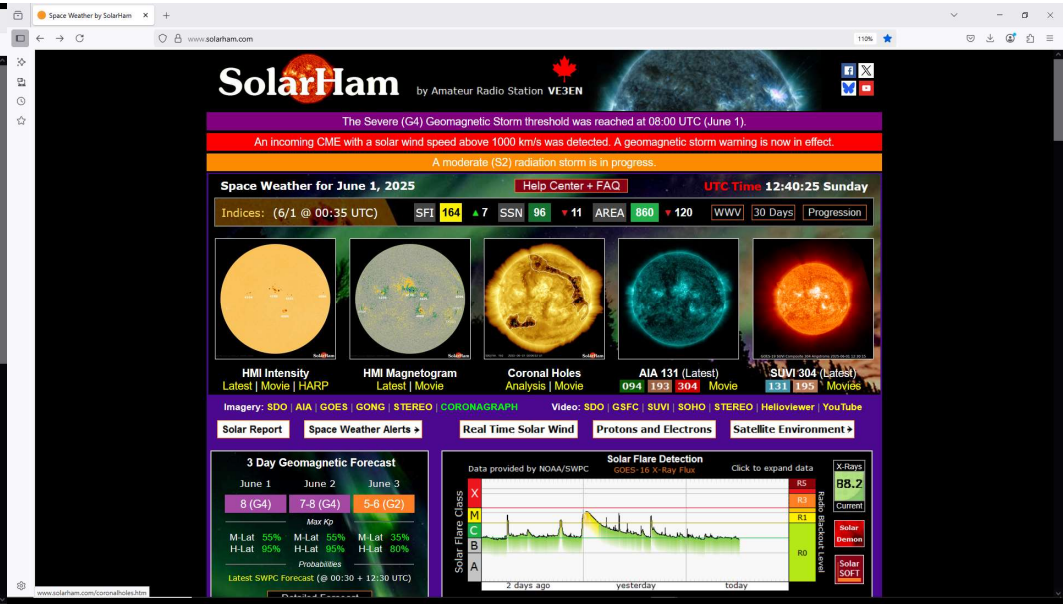
On regardera

1. comment se documenter sur le soleil et quantifier plusieurs aspect de l'interaction TERRE – SOLEIL (voir ***solarham.com***)
2. où se procurer des photos de la NSO – NASA (***https://gong2.nso.edu/products/tableView/table.php?configFile=configs/hAlpha.cfg***)
3. voir une comparaison entre une photo
    1. monochrome H-alpha et
    2. monochrome H-alpha colorée
4. faire un montage animé (i.e. vidéo) en se servant d'une série de photos

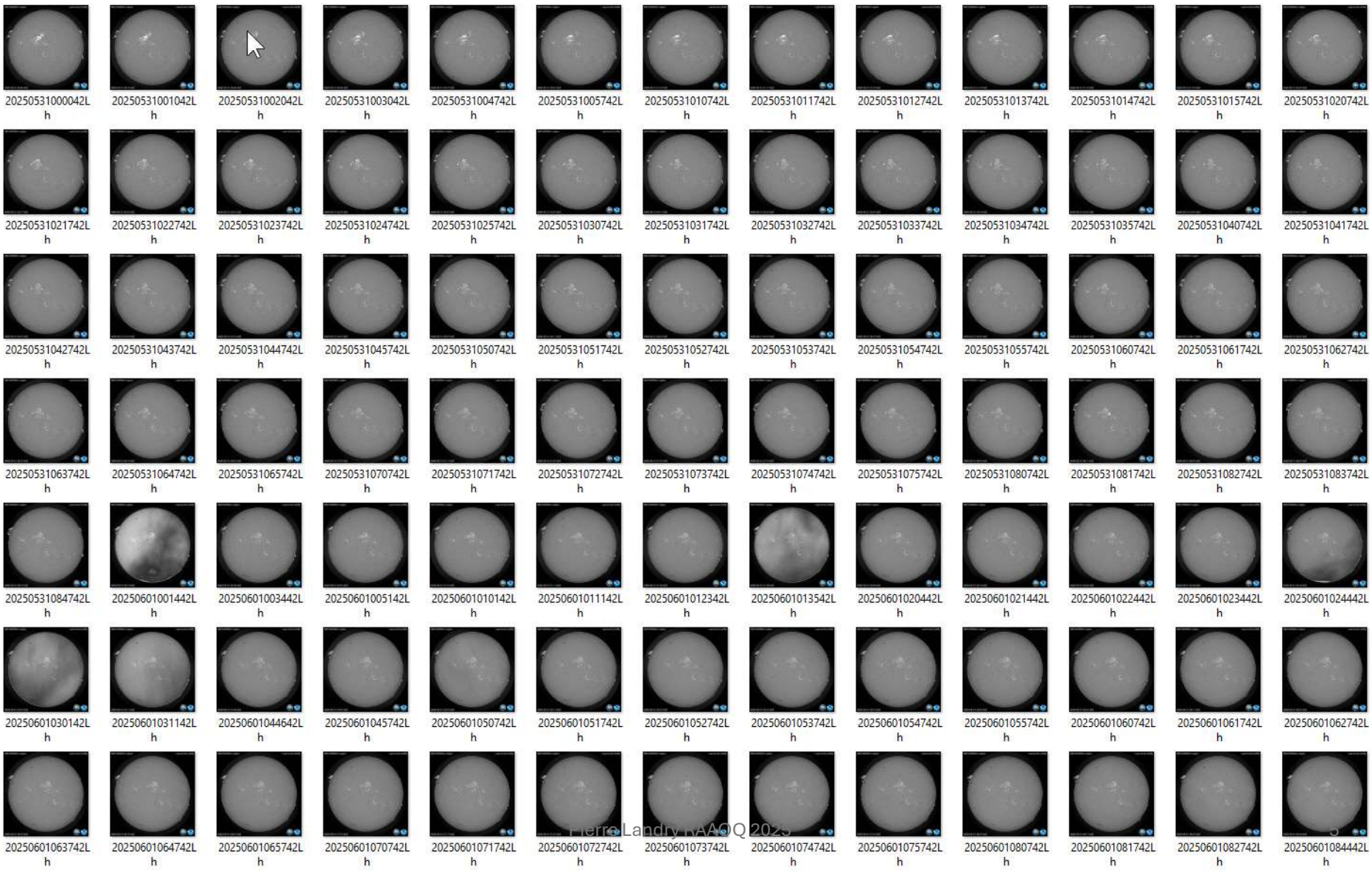

NSO
NISP
Color images
GONG H-Alpha site images (Greyscale)
Quality Notes
Start day in YYYY-MM-DD format : 2025-05-31
End day in YYYY-MM-DD format : 2025-06-01
Load
Load newest
Image increment : 10
Product : H-Alpha El Teide
Show Additional Options
Loaded 61 images successfully
First
Prev
Play
Next
Last
Slower
Faster
Reverse
Status
Set start
Download
NSO/GONG H-alpha
El Teide (ESP)


SolarHam
by Amateur Radio Station VE3EN
The Severe (G4) Geomagnetic Storm threshold was reached at 08:00 UTC (June 1).
An incoming CME with a solar wind speed above 1000 km/s was detected. A geomagnetic storm warning is now in effect.
A moderate (S2) radiation storm is in progress.
Space Weather for June 1, 2025
Help Center + FAQ
UTC Time 12:40:25 Sunday
Indices: (6/1 @ 00:35 UTC)
SFI 164 ▲7
SSN 96 ▼11
AREA 860 ▼120
WWV
30 Days
Progression
HMI Intensity
Latest | Movie | HARP
HMI Magnetogram
Latest | Movie
Coronal Holes
Analysis | Movie
AIA 131 (Latest)
094 193 304 Movie
SUVI 304 (Latest)
131 195 Movies
Imagery: SDO | AIA | GOES | GONG | STEREO | CORONAGRAPH
Video: SDO | GSFC | SUVI | SOHO | STEREO | Helioviewer | YouTube
Solar Report
Space Weather Alerts
Real Time Solar Wind
Protons and Electrons
Satellite Environment
3 Day Geomagnetic Forecast
June 1
June 2
June 3
8 (G4)
7-8 (G4)
5-6 (G2)
Max Kp
M-Lat 55%
H-Lat 95%
M-Lat 55%
H-Lat 95%
M-Lat 35%
H-Lat 80%
Probabilities
Latest SWPC Forecast (@ 00:30 + 12:30 UTC)
Solar Flare Detection
Data provided by NOAA/SWPC
GOES-16 X-Ray Flux
Click to expand data
Solar Flare Class
X
M
C
B
A
2 days ago
yesterday
today
X-Rays
88.2
Current
Solar Demon
Solar SOFT
Radio Blackout Level
R5
R3
R1
R0

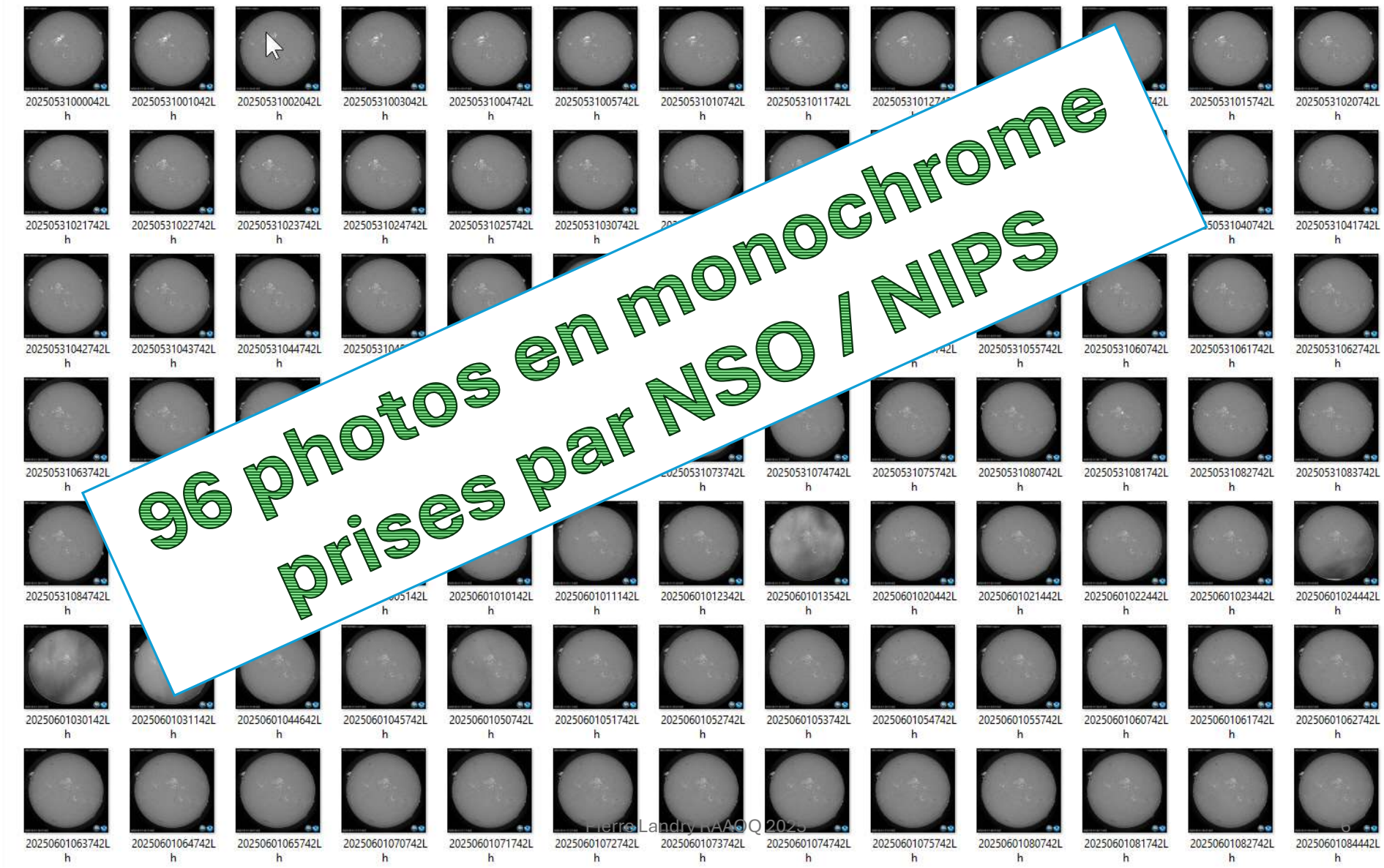




page suivante



Pierre Landry RAAQ 2025


96 photos en monochrome
prises par NSO / NIPS

M2.9	AR 4100	5/31/25 @ 15:49 UTC
M4.5	AR 4100	5/31/25 @ 08:18 UTC
	10cm Radio Burst	(1m, 220 sfu)
M2.4	AR 4100	5/31/25 @ 05:18 UTC
M8.2	AR 4100	5/31/25 @ 00:05 UTC
	Type II RE	(1938 km/s) IV DIM
	10cm Radio Burst	(102m, 1100 sfu)

Event Report | Top Solar Flares

Data Archive

Visible Sunspot Regions

Sunspot Summary | SRS

AR 4104	B	N06E27	Stable
AR 4101	B	N05W14	Stable
AR 4100	BGD	N08W00	Stable
AR 4099	BGD	S14W11	Stable
AR 4096	A	N07W64	Stable

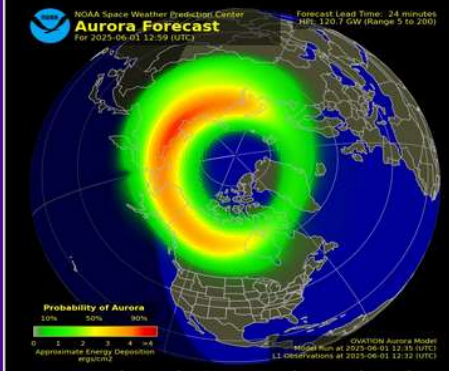
Updated @ 00:45 UTC (June 1)

Data Archive

CME Tracking

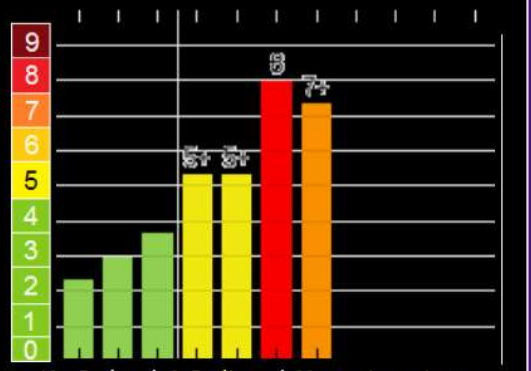
1 Event(s) Logged

Geomagnetic Field and Aurora



Auroral Oval Forecast | South Pole

Past 24 Hours Storm (G4)



Kp-Index | A-Indices | Magnetometers

Latest Space Weather News SolarHam News Archive

CME Impact! / Severe Storm in Progress

June 1, 2025 @ 05:55 UTC (UPDATED)

Arriving faster than expected, the CME associated with the M8 solar flare has swept past Earth at 05:42 UTC (Jun 1). The solar wind speed is in the vicinity of 1000 km/s which is very high and the Bz component of the interplanetary magnetic field (IMF) initially is pointing south. A geomagnetic storm warning is now in effect. Also of note, a moderate (S2) radiation storm is currently in progress. Aurora sky watchers should be alert for visible aurora should local light and weather conditions allow.

Severe Storm: The solar wind speed following the CME passage has increased to near an incredible 1100 km/s. The severe geomagnetic storm threshold was reached at 08:00 UTC (June 1).

ALERT: Geomagnetic K-index of 8, 9-
Threshold Reached: 2025 Jun 01 0800 UTC
Synoptic Period: 0600-0900 UTC
Active Warning: Yes
NOAA Scale: G4 - Severe

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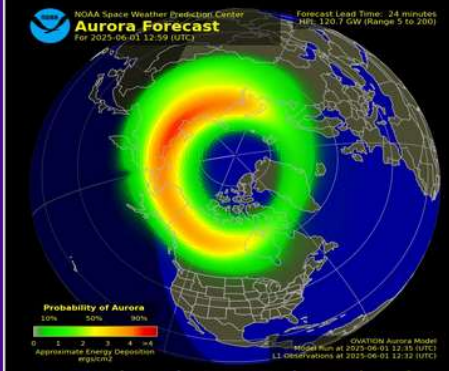
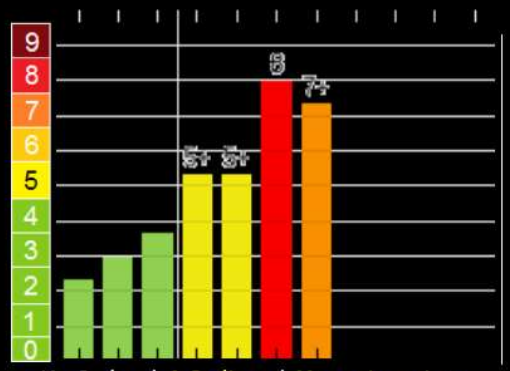


Auroral Oval Forecast | South Pole

Past 24 Hours Storm (G4)



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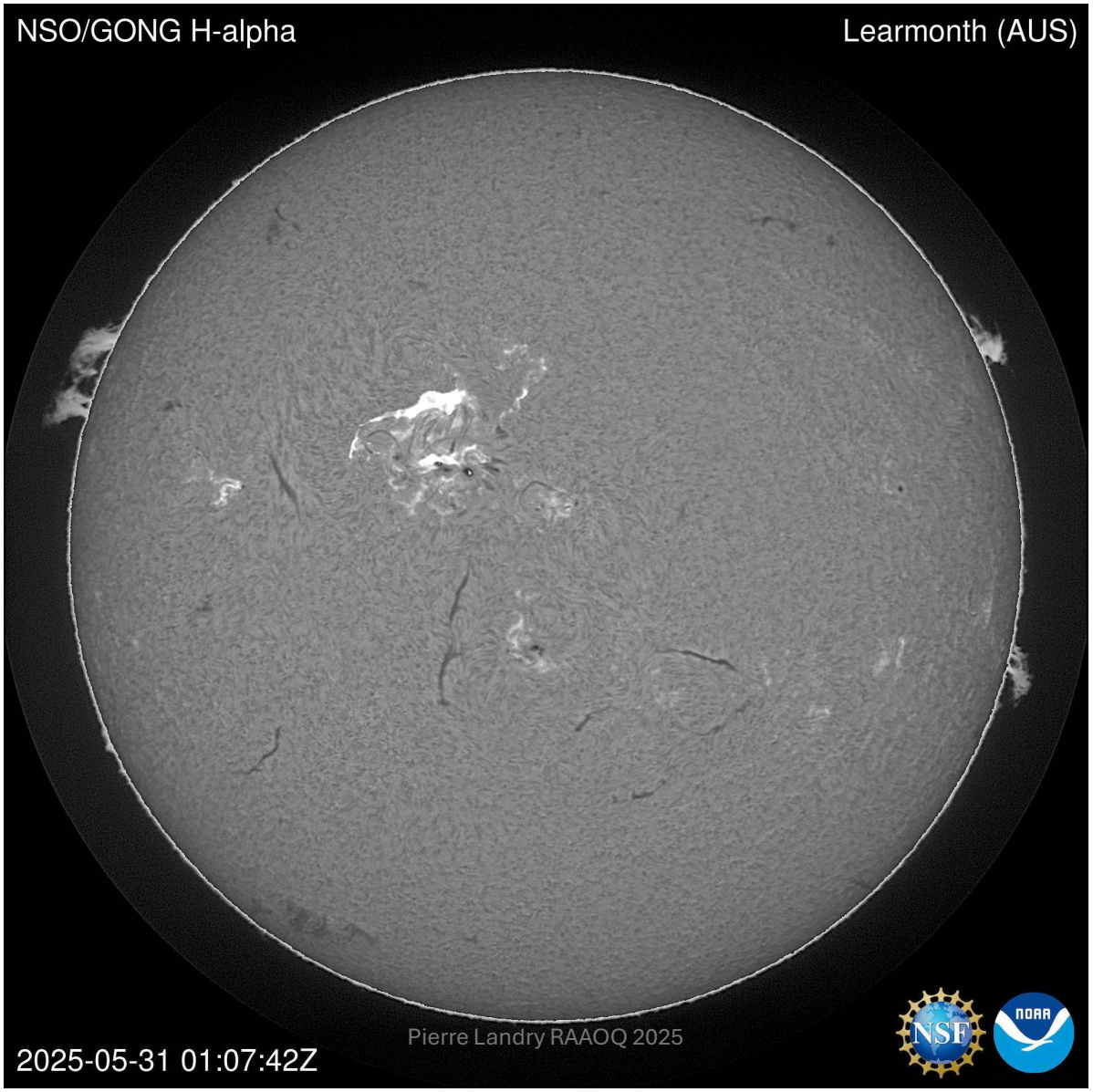
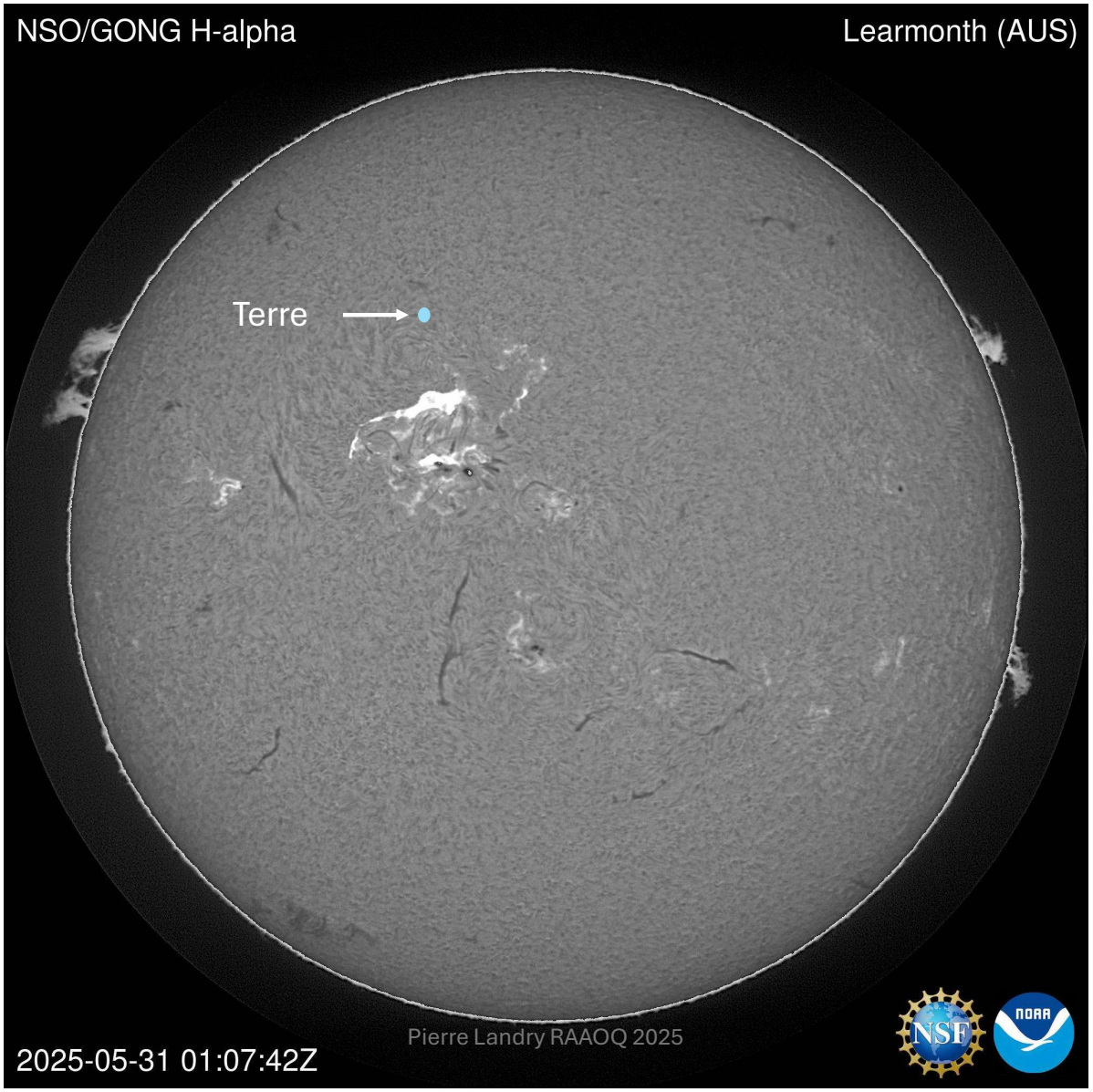
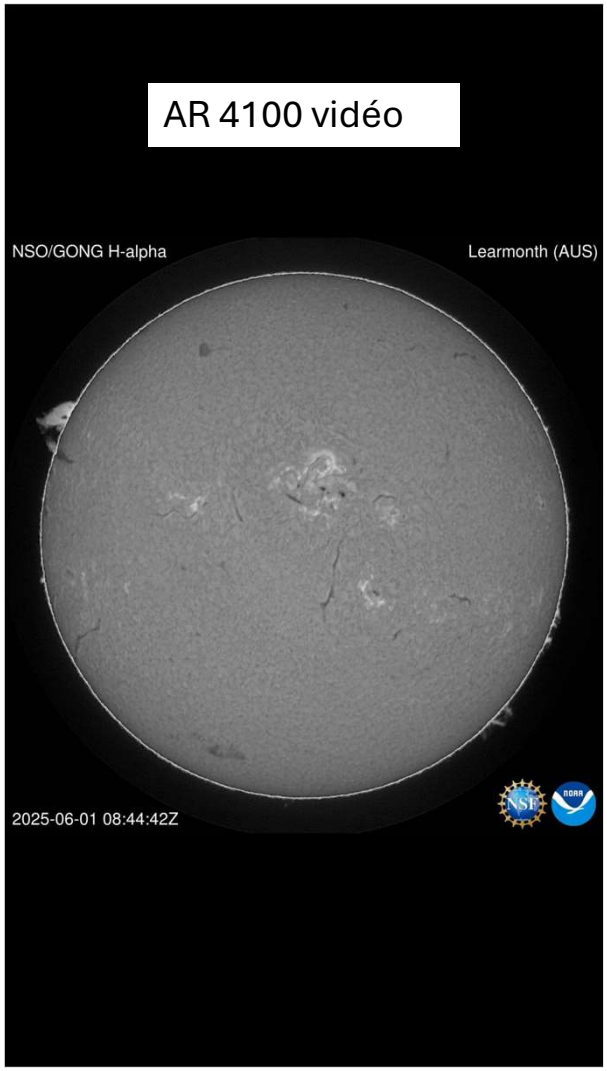
ALERT: Geomagnetic K-index of 8, 9-
Threshold Reached: 2025 Jun 01 0800 UTC
Synoptic Period: 0600-0900 UTC
Active Warning: Yes
NOAA Scale: G4 - Severe

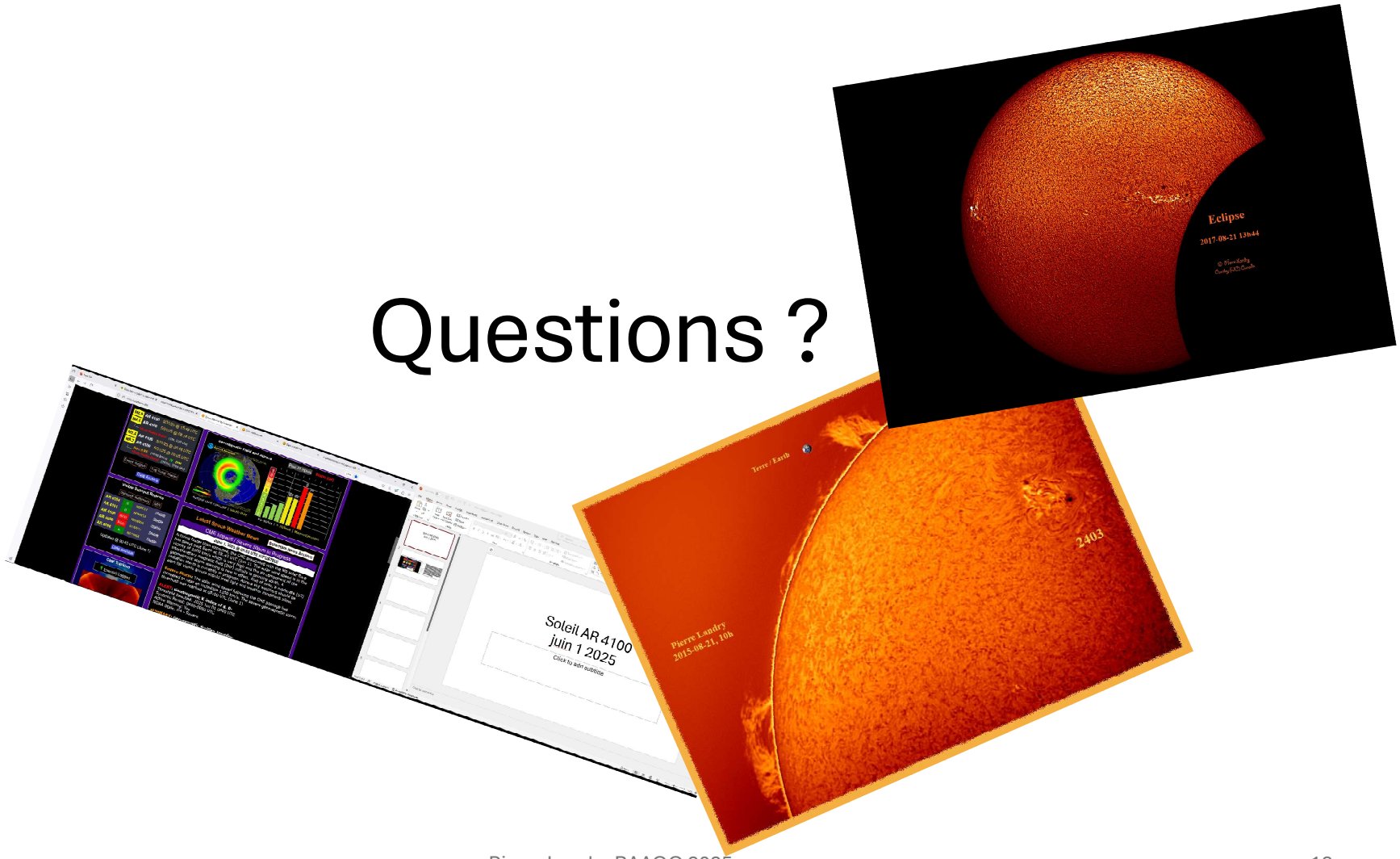
Vitesse	km/sec X 360 = --->	km/hr
Lumière	299,792	108,000,000
Vent solaire	500	180,000
Avion	1.7	600
Automobile	0.33	120
Marche	0.04	15
Son	3.4	1224


NSO/GONG H-alpha
Learmonth (AUS)
Pierre Landry RAAOQ 2025
2025-05-31 01:07:42Z


NSO/GONG H-alpha
Learmonth (AUS)
Terre
Pierre Landry RAAOQ 2025
2025-05-31 01:07:42Z


AR 4100 vidéo
NSO/GONG H-alpha
Learmonth (AUS)
2025-06-01 08:44:42Z

Questions ?


Eclipse
2017-08-21 13h44
Soleil AR 4100
juin 1 2025
Terre / Earth
Pierre Landry
2015-08-21, 10h
2403