

BASS2000

(solar survey archive... and database)

Where do data come from???

28 Aug 2020 04:39 UT

BASe de données Solaire Sol
BASS2000
Observations systématiques du Soleil

Jour précédent 28/08/2020 OK Jour suivant

Entrer une date: Ex: 28/3/2001, 28.3.1, 28-3-01, AAAAMMJJ ou AAMMJJ

en | fr Ma Sélection

ACCUEIL
Dernières observations
Derniers films
Actualité
F.A.Q.

RECHERCHER
Des observations
Des fichiers
Des structures solaires
Des cartes synoptiques
HELIO features cat.

OUTILS
Ephémérides
Spectre solaire
Externes
Soleil live & webcams
Logiciels

GUIDES
Instruments
Données
Logiciels
Ressources éducatives

Collection avant 1980
Web Solaire
Galerie Multimédia

DERNIERES OBSERVATIONS

SPECTROHÉLIOGRAPHE DE MEUDON

27-Aug-2020 13:41:23
Image CaH
protubérances

.jpg
.fits.gz
grille + profils
3D
image avec grille
.img

RESEAU DECAMETRIQUE DE NANCAY

27-Aug-2020
Données intégrales avec
polarisation

.png
.RT1

SPECTROHÉLIOGRAPHE DE COIMBRA

27-Aug-2020 10:08:18
Image H Alpha

.jpg
.fits
grille solaire

27-Aug-2020 10:08:18
Dopplergramme H Alpha

.jpg
.fits

HELIOPHYSICS FEATURE CATALOGUE

27-Aug-2020
1 Régions actives
9 Protubérances

USET-ROYAL OBSERVATORY OF BELGIUM

27-Aug-2020 11:13:35
Image H Alpha

.jpg
.fts
grille solaire

design fuller@sig

l'Observatoire de Paris LESIA Données disponibles - A propos - Copyright - Contact WDC-Solar Activity, membre de WORLD DATA SYSTEM ICSU

Mise à jour le: 27 Apr 2020 09:39

* Database of ground-based solar observations (French at the origin...), with added-values

* World Data Center for Solar Activity (ICSU)

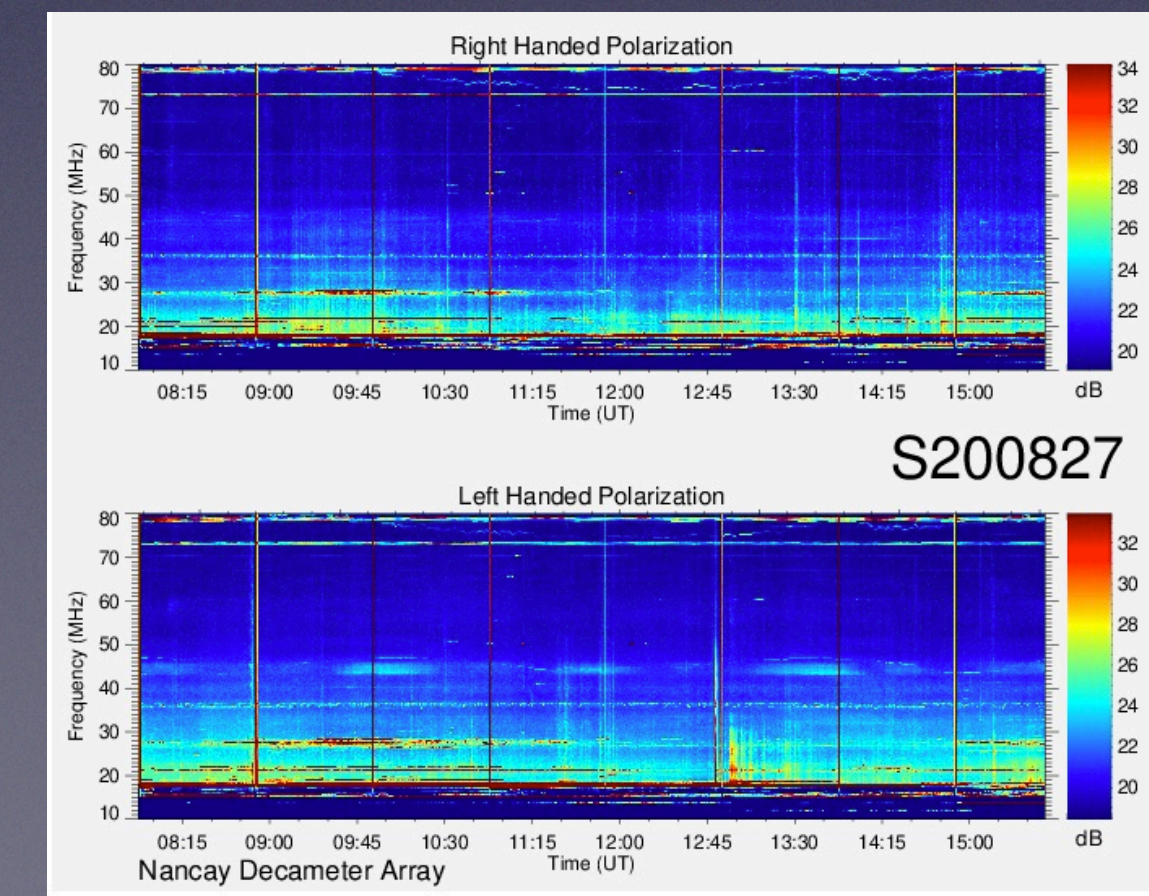
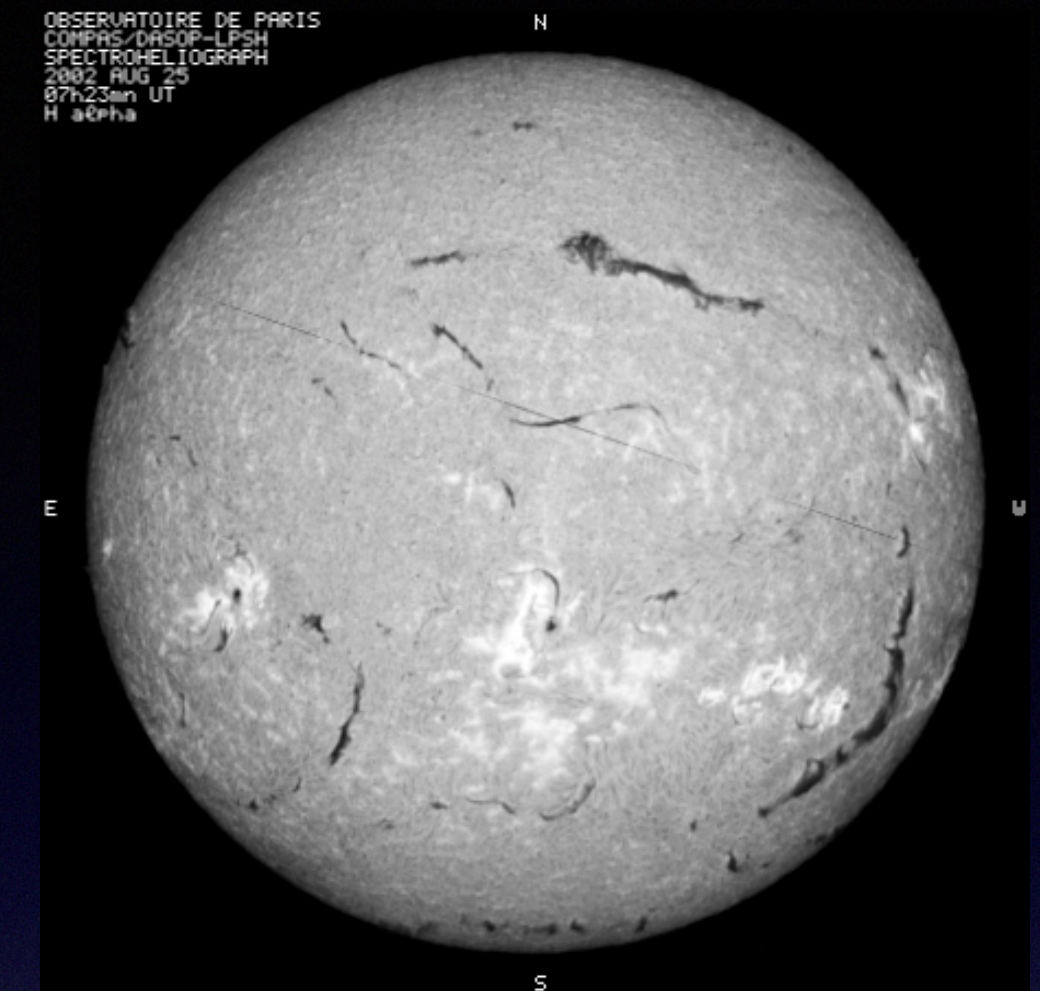
* CoreTrustSeal certified since 2017

Which data?

- Observations
- Solar & Heliophysics features
- Solar spectrum

1) Observations

- Full Sun images (or global Sun, in radio-wl)
- The name of the observatory where the image comes from is generally written on the image or in the filename
- When loading FITS file, it's written in the header



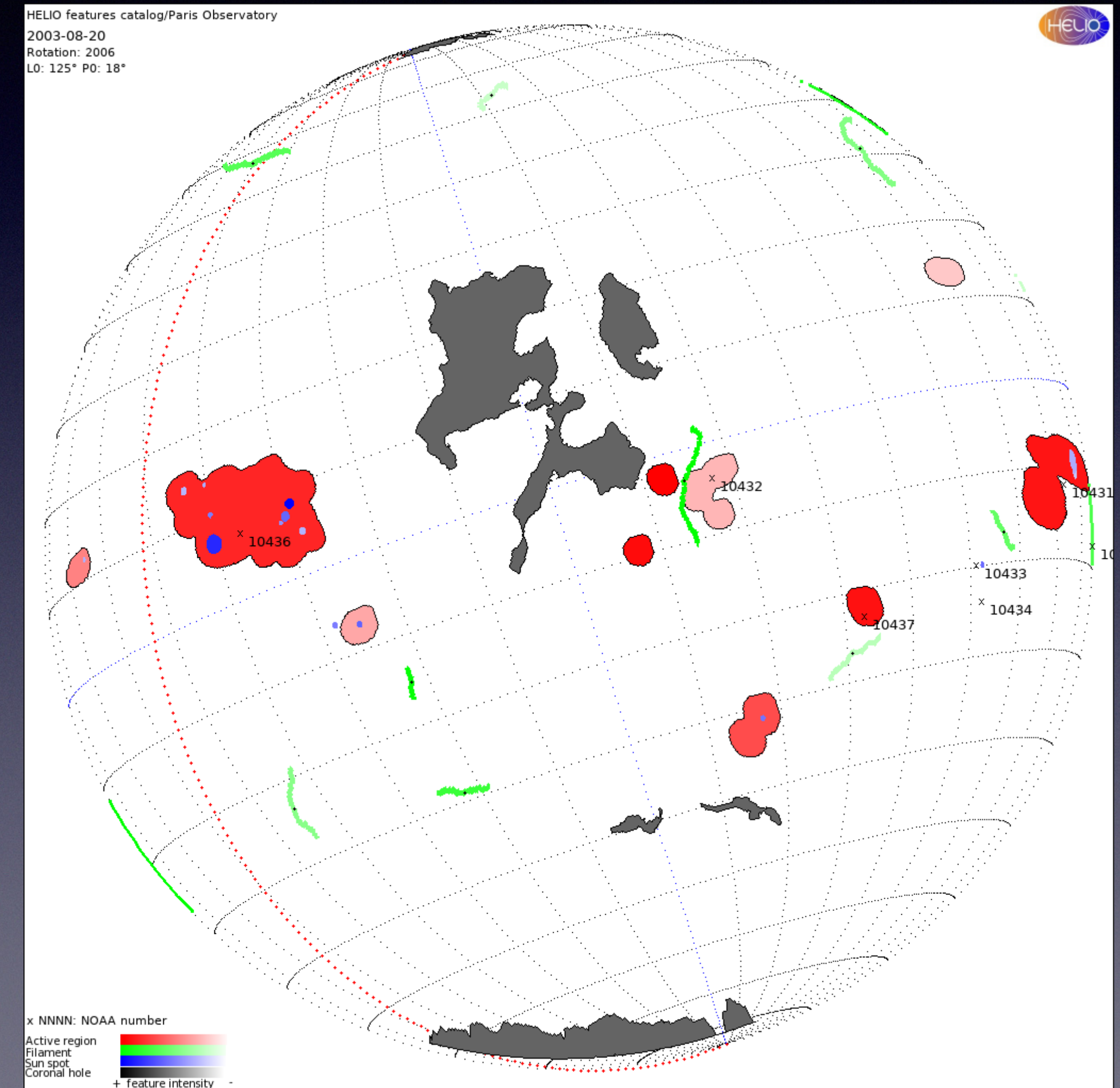
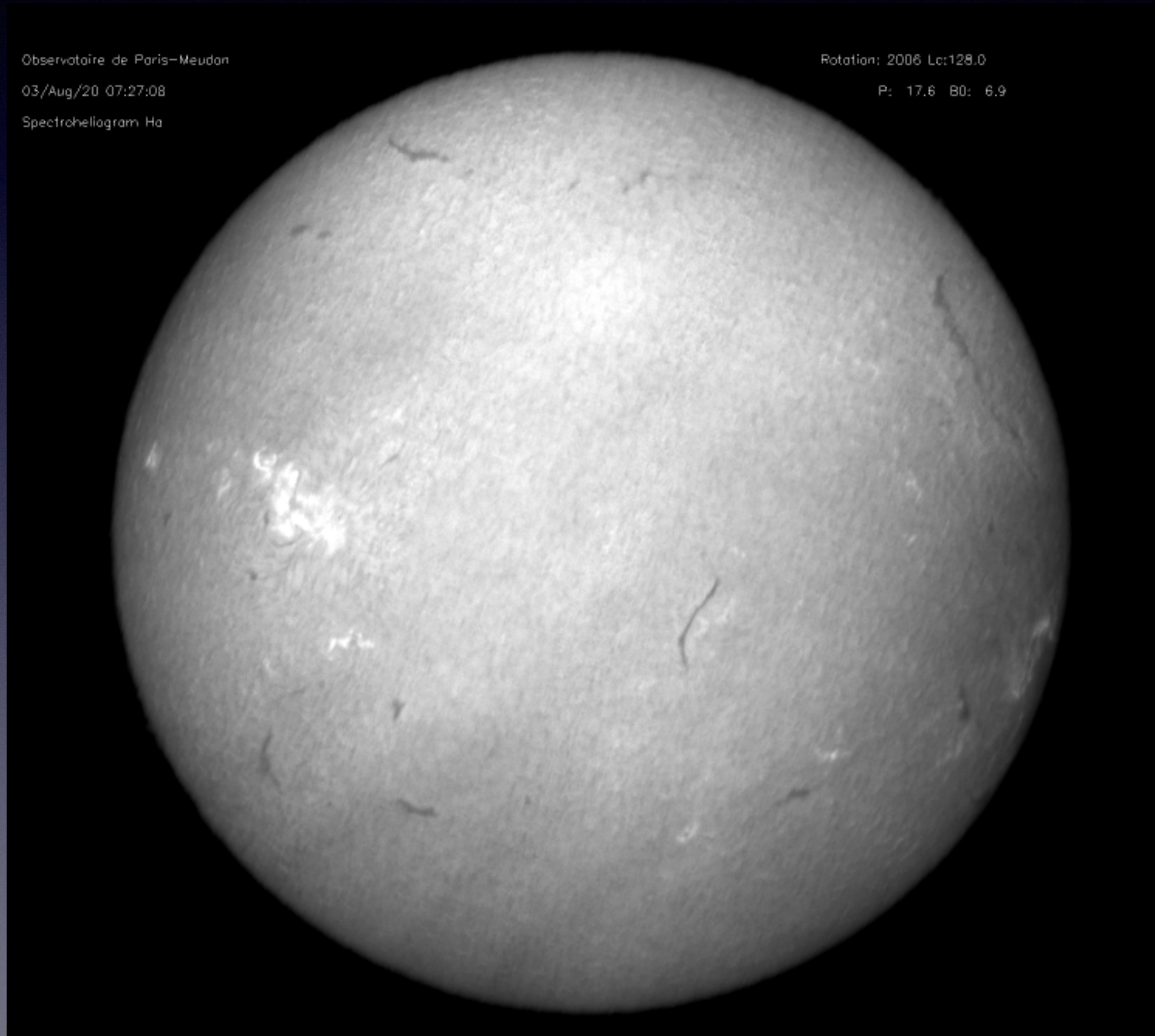
1) Observations



Solar & Heliophysics features

- Filaments
- Prominences
- Active regions
- Coronal holes
- Sunspots
- Type III radio bursts
- Radio sources

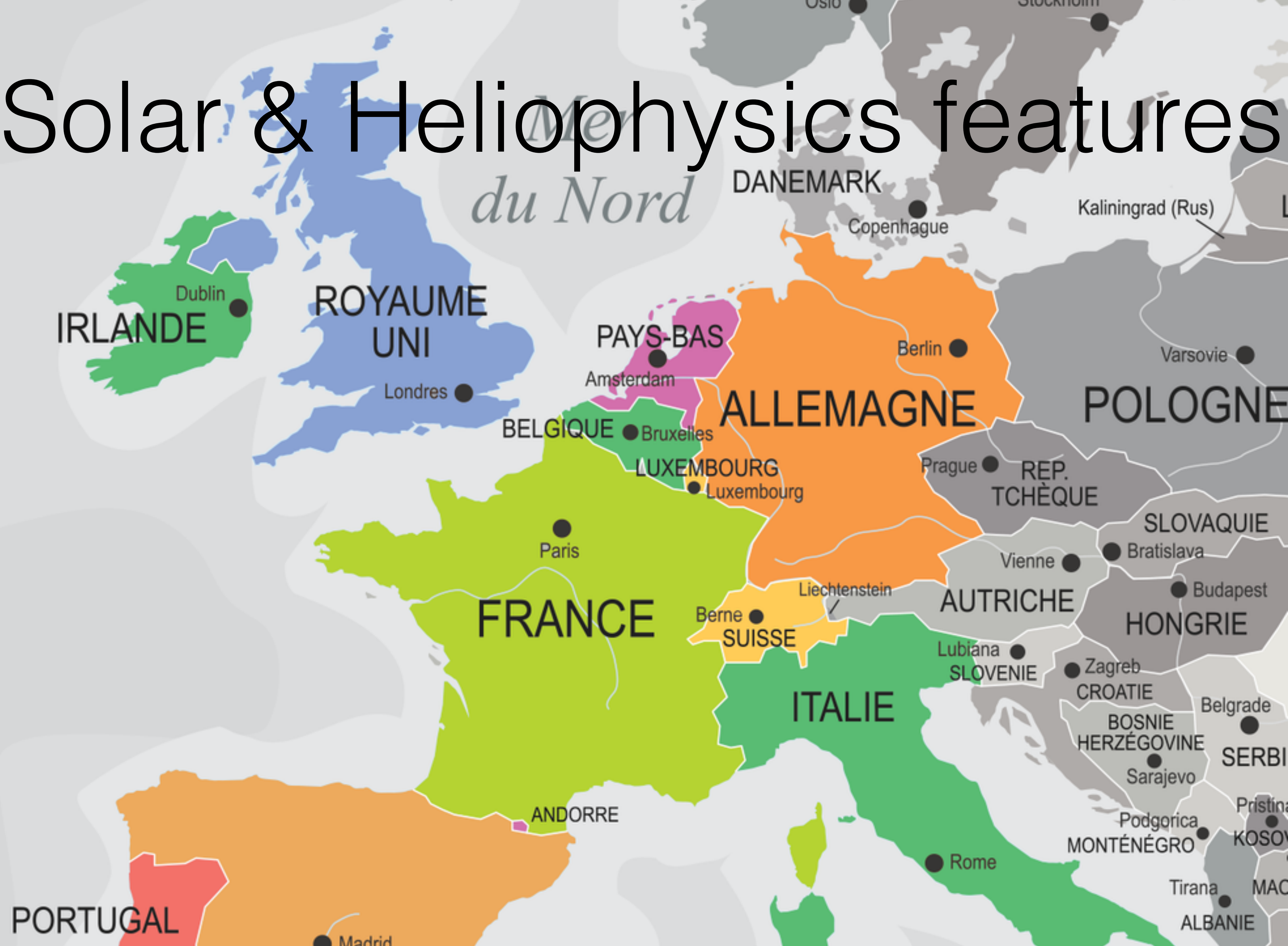
Solar & Heliophysics features



Data from:

- Meudon
(France)
- Nançay
(France)
- SOHO & SDO
(NASA - USA)
- Wind &
STEREO
(ESA -
Europa)

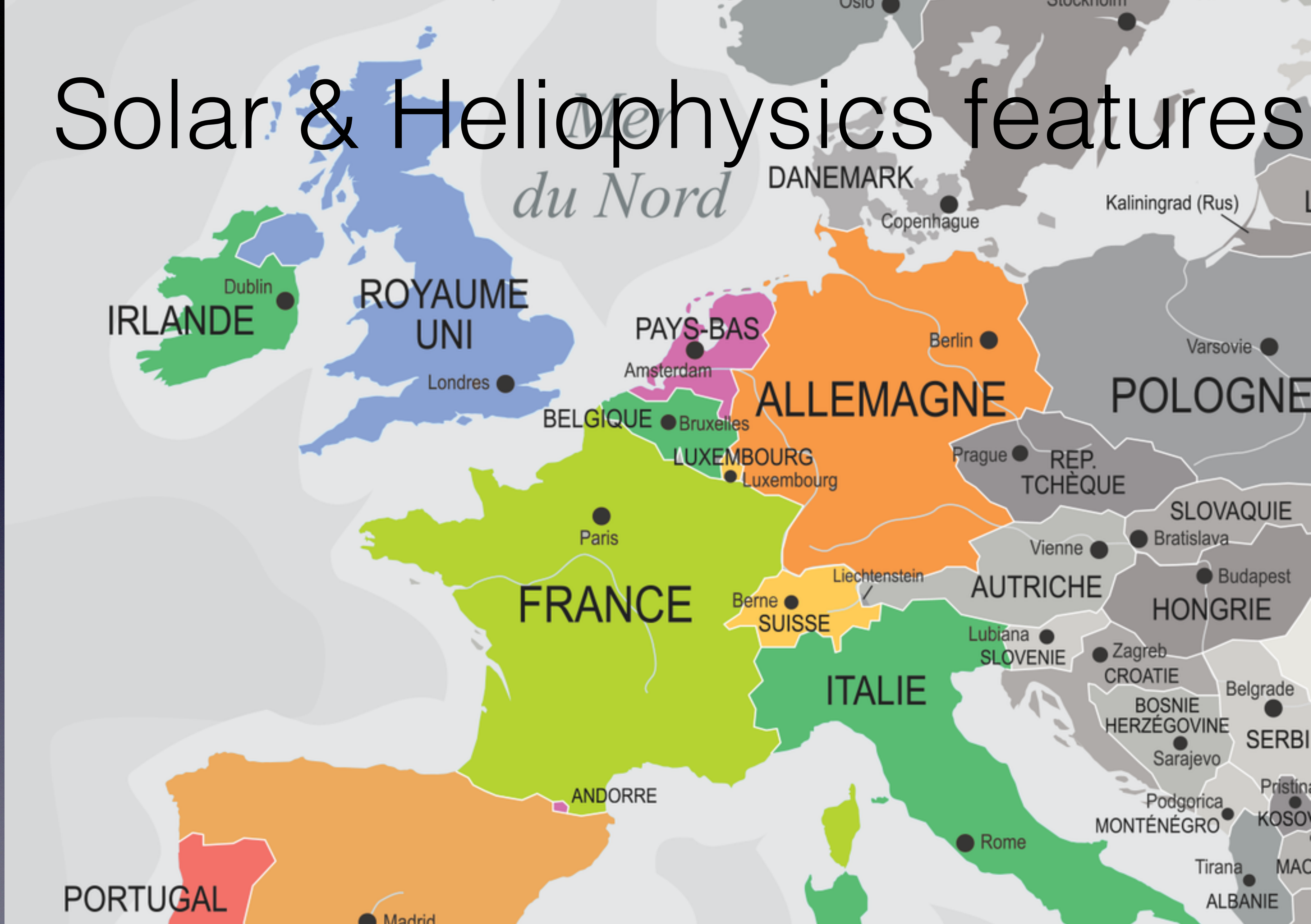
Solar & Heliophysics features



Features
recognition
codes
from:

- Meudon
(France)
- Dublin
(Ireland)
- Bradford
(UK)
- Brussels
(Belgium)

Solar & Heliophysics features

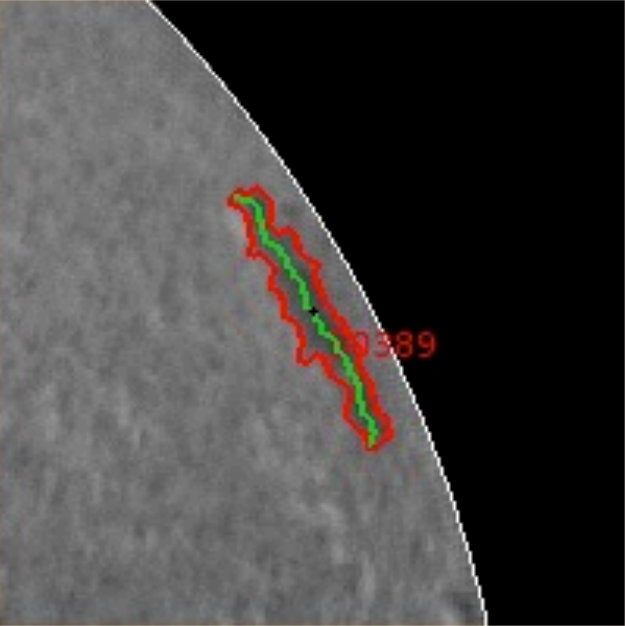
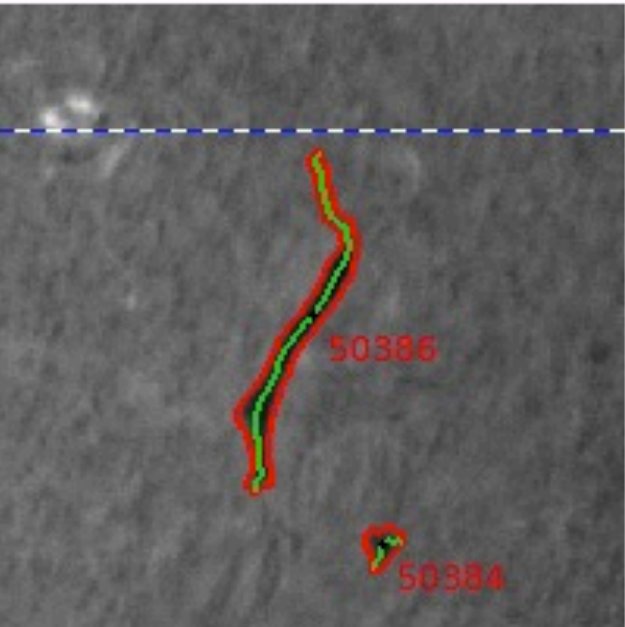
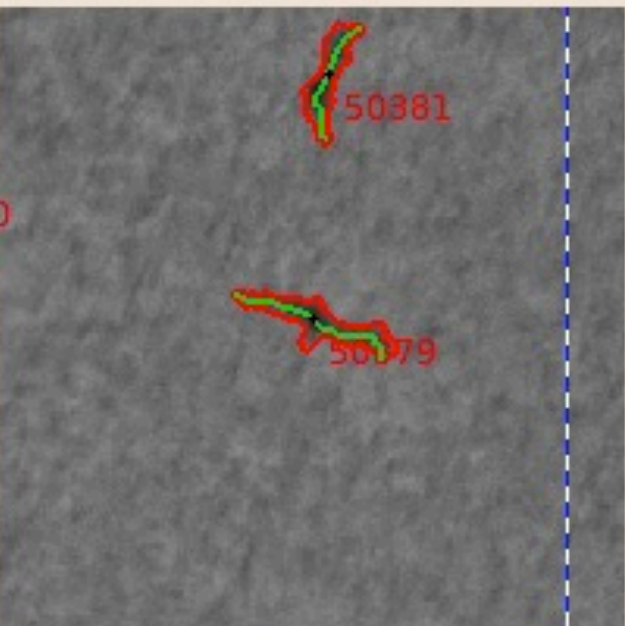


Solar & Heliophysics features

- Provenance complicated by:
 - Data origin
 - Instrument
 - Kind of processing on data
 - Possible update of processing after detection
 - Code origin
 - Code (same code on different datasets, or various codes?)
 - Version of the same code
 - Various codes on the same data

Solar & Heliophysics features

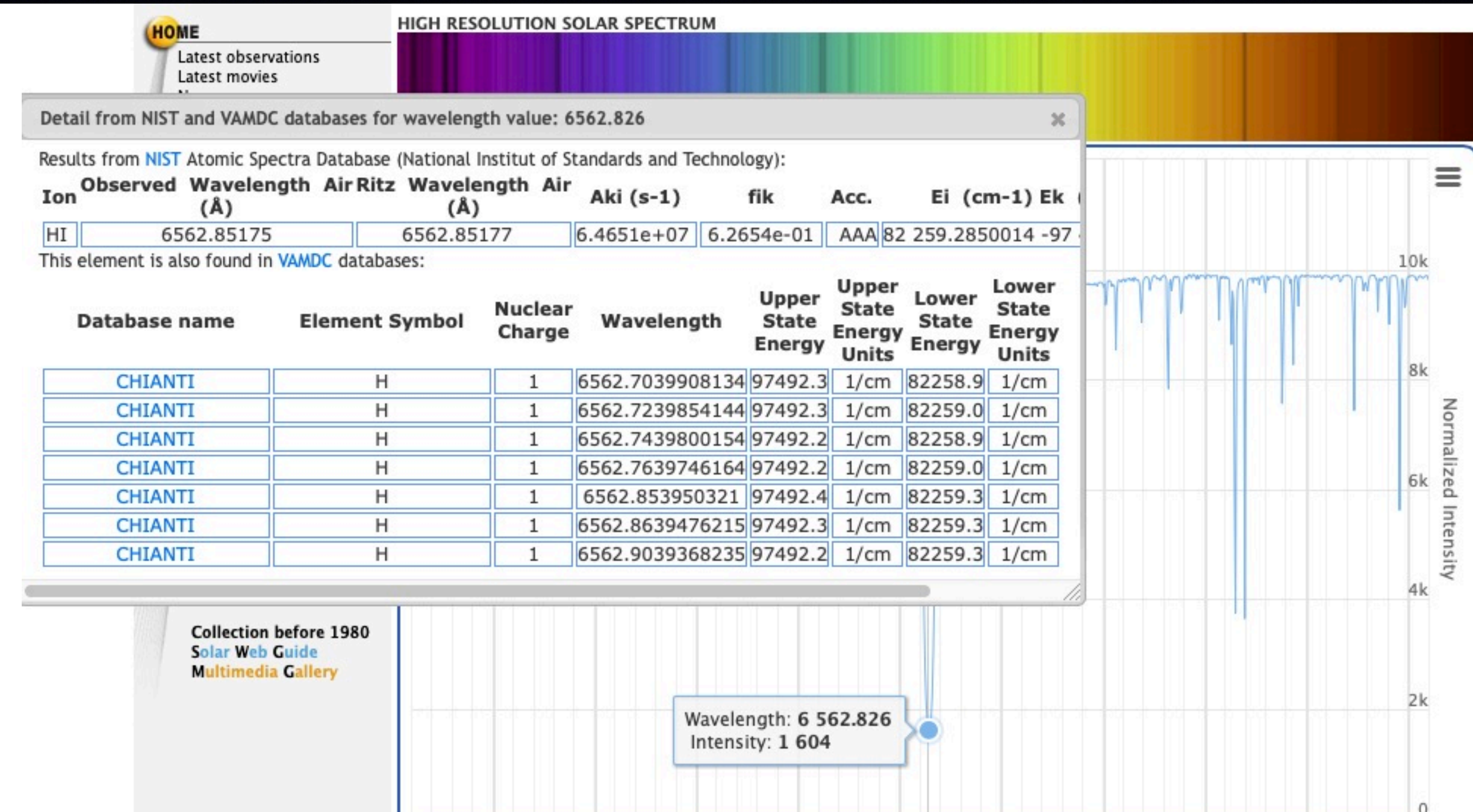
Show 10 entries

Index of the feature during a rotation Click for tracking info	Id of filament's component(s)	Name of the observatory (or spacecraft) that made the observation	Phenomen	Carrington latitude of the filament skeleton centre in degrees	Carrington longitude of the filament skeleton centre in degrees	Length of the filament in degrees	PROPA_MOD	SNAPSHOT
50191 2003-08-09 to 2003-08-21	50389	MEUDON/SPECTROHELIOGRAPH/SPECTROHELIOGRAPH	-	29.29	189.63	27.11	CME	
50317 2003-08-16 to 2003-08-22	50386	MEUDON/SPECTROHELIOGRAPH/SPECTROHELIOGRAPH	-	-1.96	141.54	17.87	CME	
50344 2003-08-18 to 2003-08-24	50379	MEUDON/SPECTROHELIOGRAPH/SPECTROHELIOGRAPH	-	-28.94	102.18	9.09	CME	

Solar spectrum

- From 670 Å to 54 000 Å
- 3 different sources
- Connected to VAMDC

Solar spectrum



An anecdotal problem concerning visible atlas...

- Data come from magnetic tapes of the atlas by Delbouille, Neven and Roland, 1972
- None of the author can be found now
- It seems that no other electronic data is available (Luc Delbouille \approx 2000)
- It comes from the solar team of the Institut d'Astrophysique of Liège University (Belgium), but the team no longer exists
- Data origin:
 - 1st version of spectrometer: Liège (Belgium)
 - Improvements: Kitt Peak team (USA)
 - Observations: Jungfrauoch (Switzerland)
 - Financial support: Belgium, UK, Europe, USA



"That's all Folks!"