

SPACE WEATHER INTRODUCTORY COURSE



Collaboration of



Solar-Terrestrial Centre of Excellence



Koninklijke luchtmacht

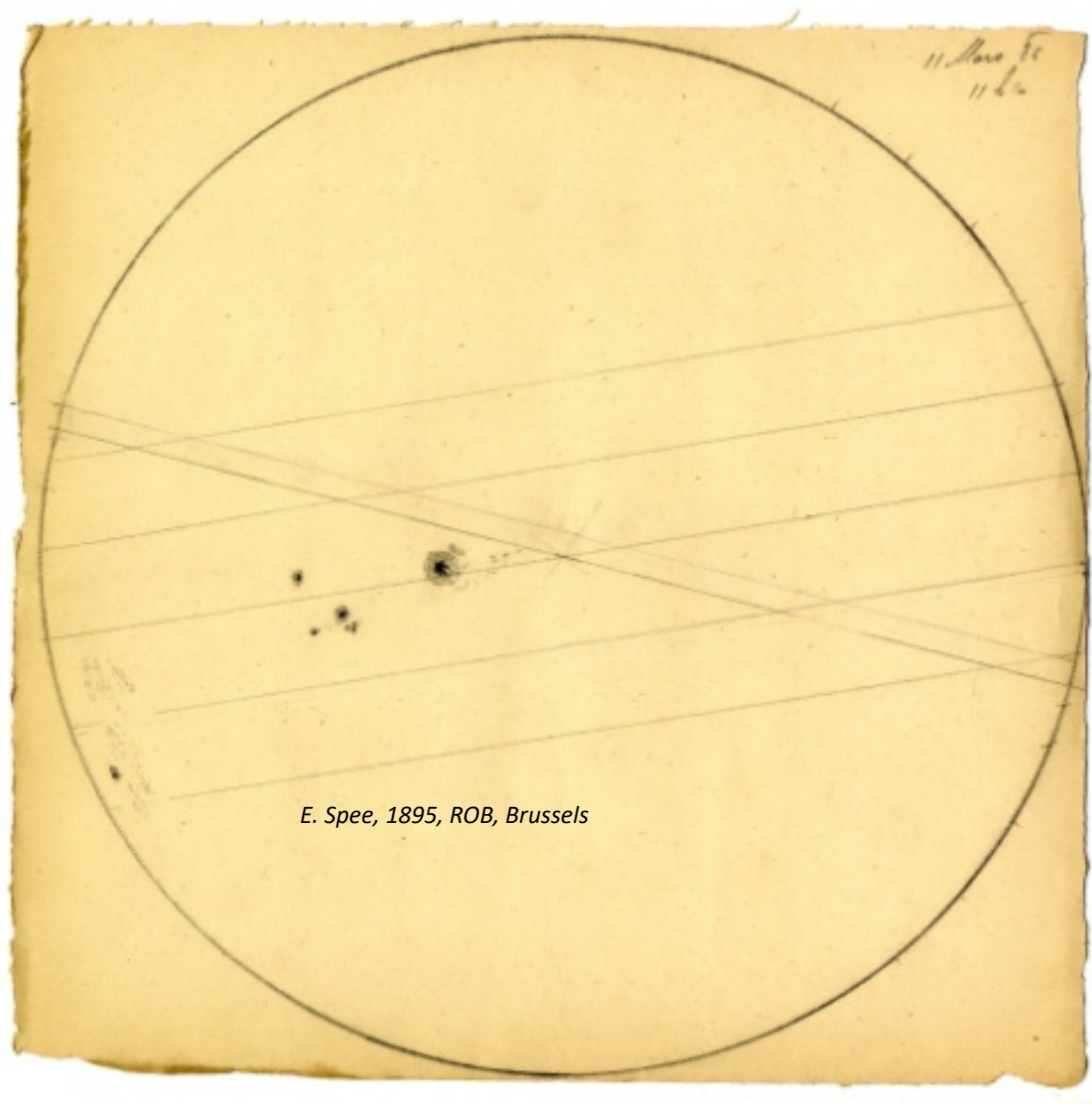


Koninklijk Nederlands
Meteorologisch Instituut
Ministerie van Infrastructuur en Milieu

The path to

Space Wather

Mid 19th century - 1908 - 1939

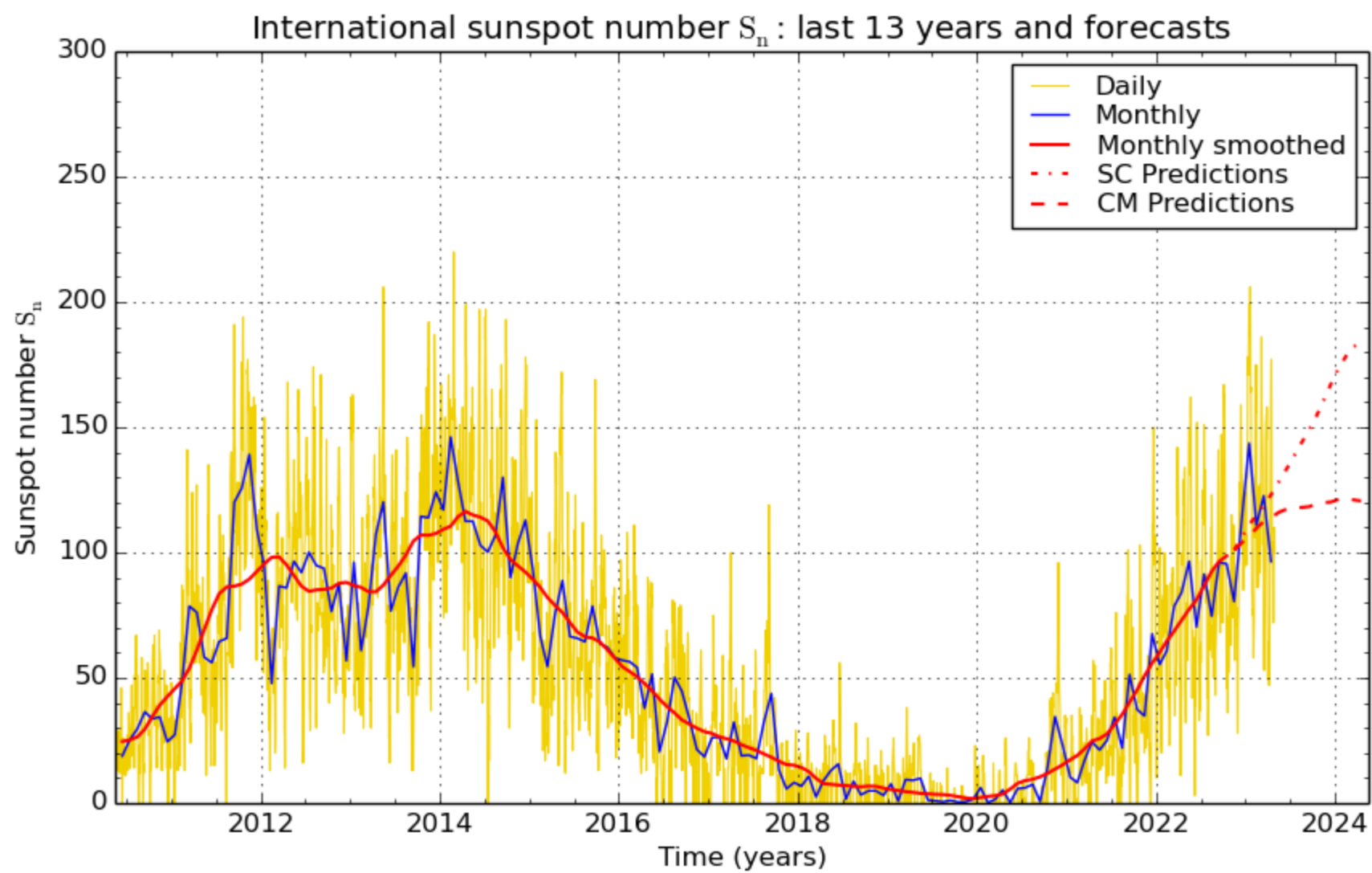


E. Spee, 1895, ROB, Brussels

1955 - USET
1957 - telescope



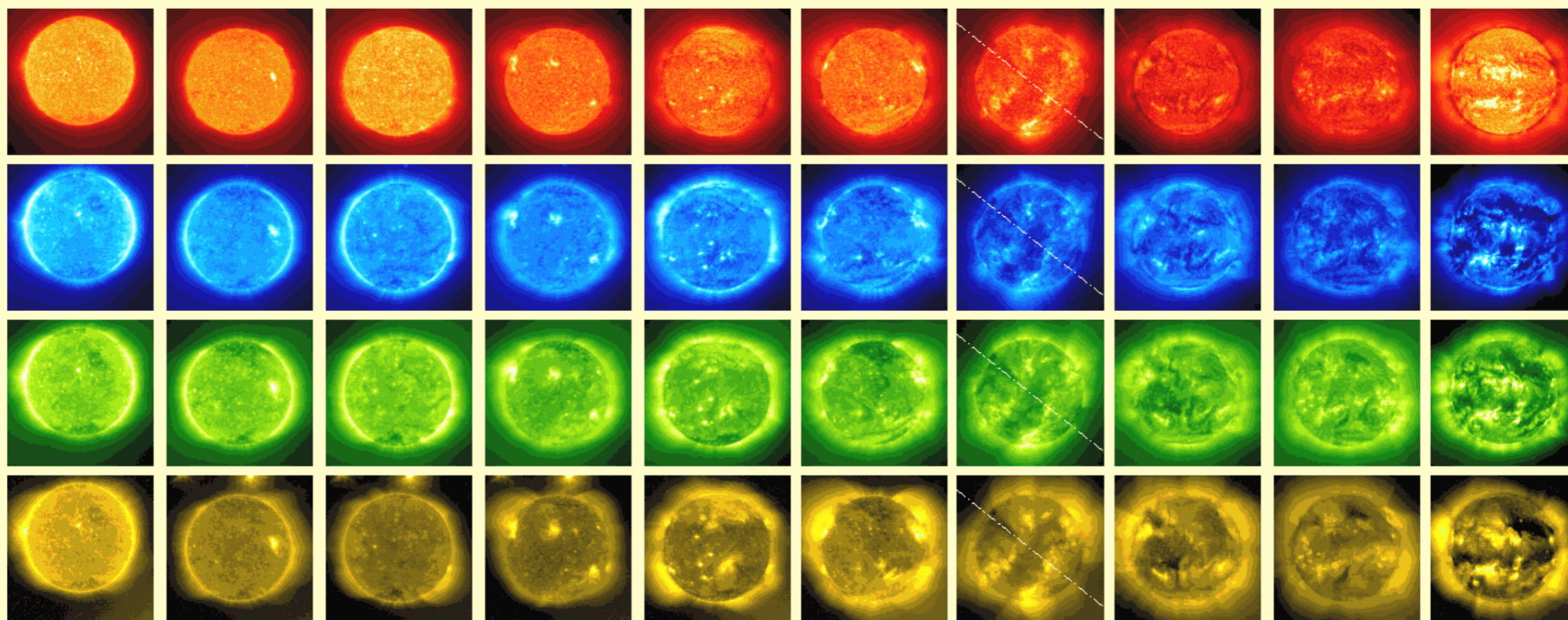
1981



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2023 May 1

1995

EIT TELESCOPE ONBOARD SOHO



15 Feb. 1996 12 Aug. 1996 11 Feb. 1997 13 Aug. 1997 10 Feb. 1998 23 Jun. 1998 18 Feb. 1999 14 Aug. 1999 11 Feb. 2000 3 Aug. 2000

2000

```
:Issued: 2000 Oct 16 1506 UTC
:Product: documentation at http://www.sidc.be/products/meu
#-----#
# DAILY BULLETIN ON SOLAR AND GEOMAGNETIC ACTIVITY from the SIDC #
# (RWC Belgium) #
#-----#
```

```
MEUDON URSIGRAM 01016
MEUDON SOLAR BULLETIN 16/10/00 1506UT
MEUDON FORECAST
FLARES 16/2 : Eruptive (C-classe flares expected, probability >50%)
MAGNETISM 16/2 : Active conditions expected ( A > 20 or K = 4)
PROTONS 16/2 : Proton event expected ( 10 pfu at > 10 MeV)
PRED 10CM FLUX 16/3 : 169 186 205
PRED AP 16/3 : 020 018 011
SOLAR INDICES FOR 13/10/00
SUNSPOT INDEX : 176
10CM SOLAR FLUX : 168
AK CHAMBON LA FORET : 44
AK Wingst : 32
ESTIMATED AP : 32
SOLAR INDICES FOR 14/10/00
SUNSPOT INDEX : ///
10CM SOLAR FLUX : 163
AK CHAMBON LA FORET : 49
AK Wingst : 39
ESTIMATED AP : 40
SOLAR INDICES FOR 15/10/00
SUNSPOT INDEX : ///
10CM SOLAR FLUX : 161
AK CHAMBON LA FORET : 14
AK Wingst : 9
ESTIMATED AP : 8
NOTICEABLE EVENTS SUMMARY
DAY BEGIN MAX END LOC XRAY OP 10CM TYPE SID
NONE
END
BT
```

```
#-----#
# Solar Influences Data analysis Center - RWC Belgium #
# Royal Observatory of Belgium #
# Fax : 32 (0) 2 373 0 224 #
# Tel.: 32 (0) 2 373 0 491 #
# #
# For more information, see http://www.sidc.be. Please do not reply #
# directly to this message, but send comments and suggestions to #
# 'sidctech@oma.be'. If you are unable to use that address, use #
# 'rvdlinden@spd.aas.org' instead. #
# To unsubscribe, visit http://sidc.be/registration/unsub.php #
#-----#
```

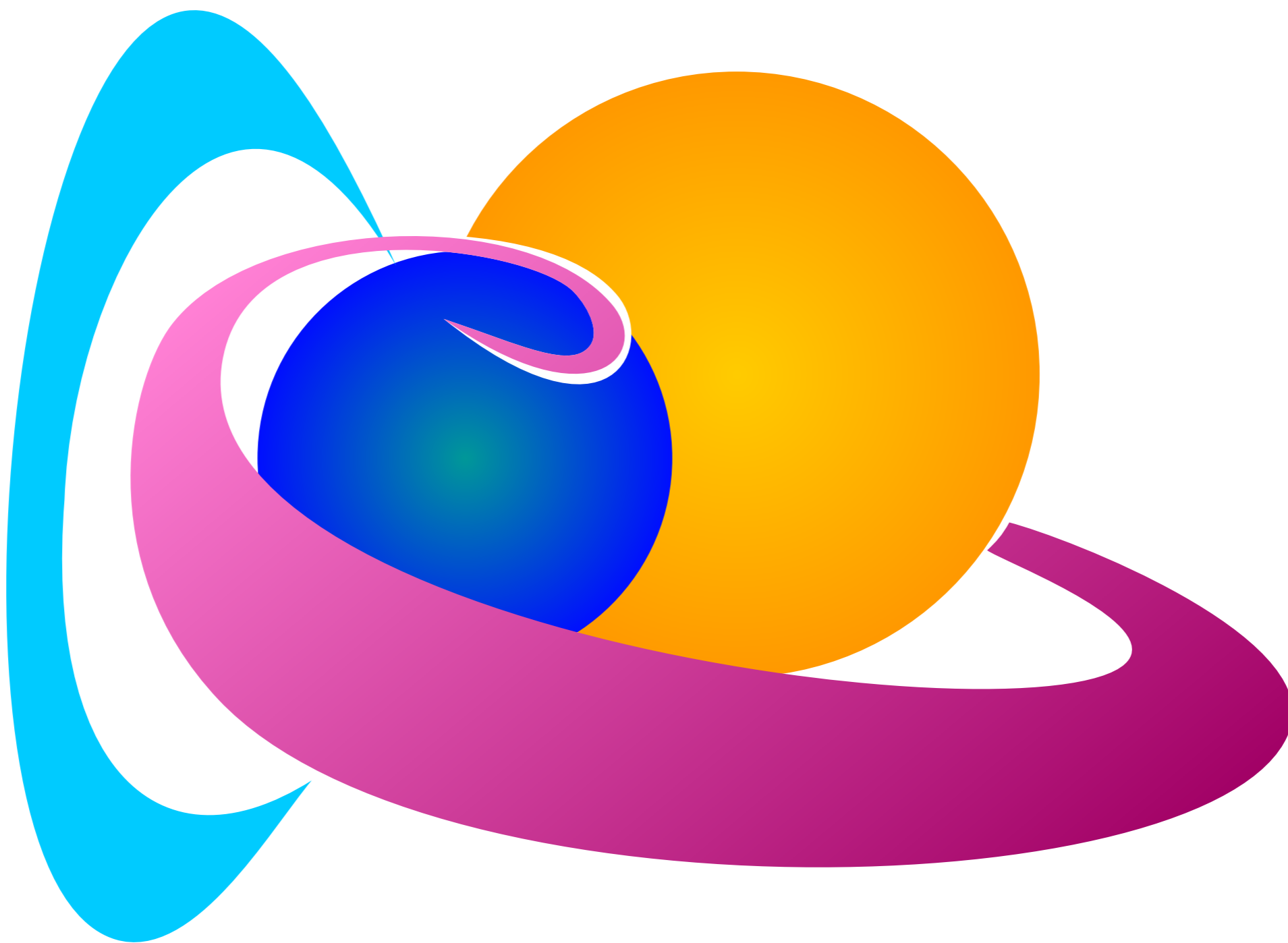
2002

“... I can imagine that Space Weather will become as important as the normal earthly weather.”

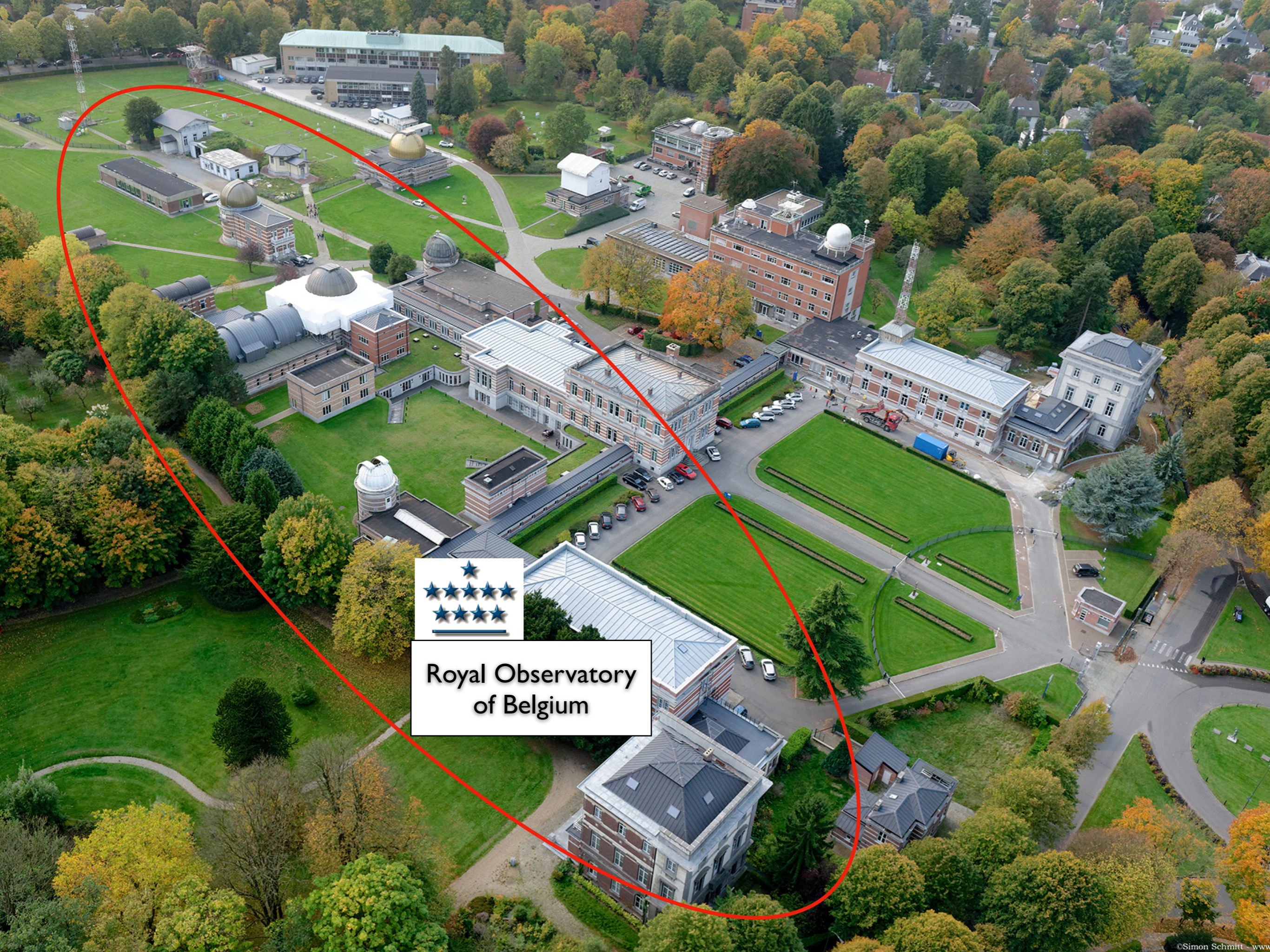
2006



2006







Royal Observatory
of Belgium



Royal Meteorological
Institute of Belgium



Royal Observatory of
Belgium



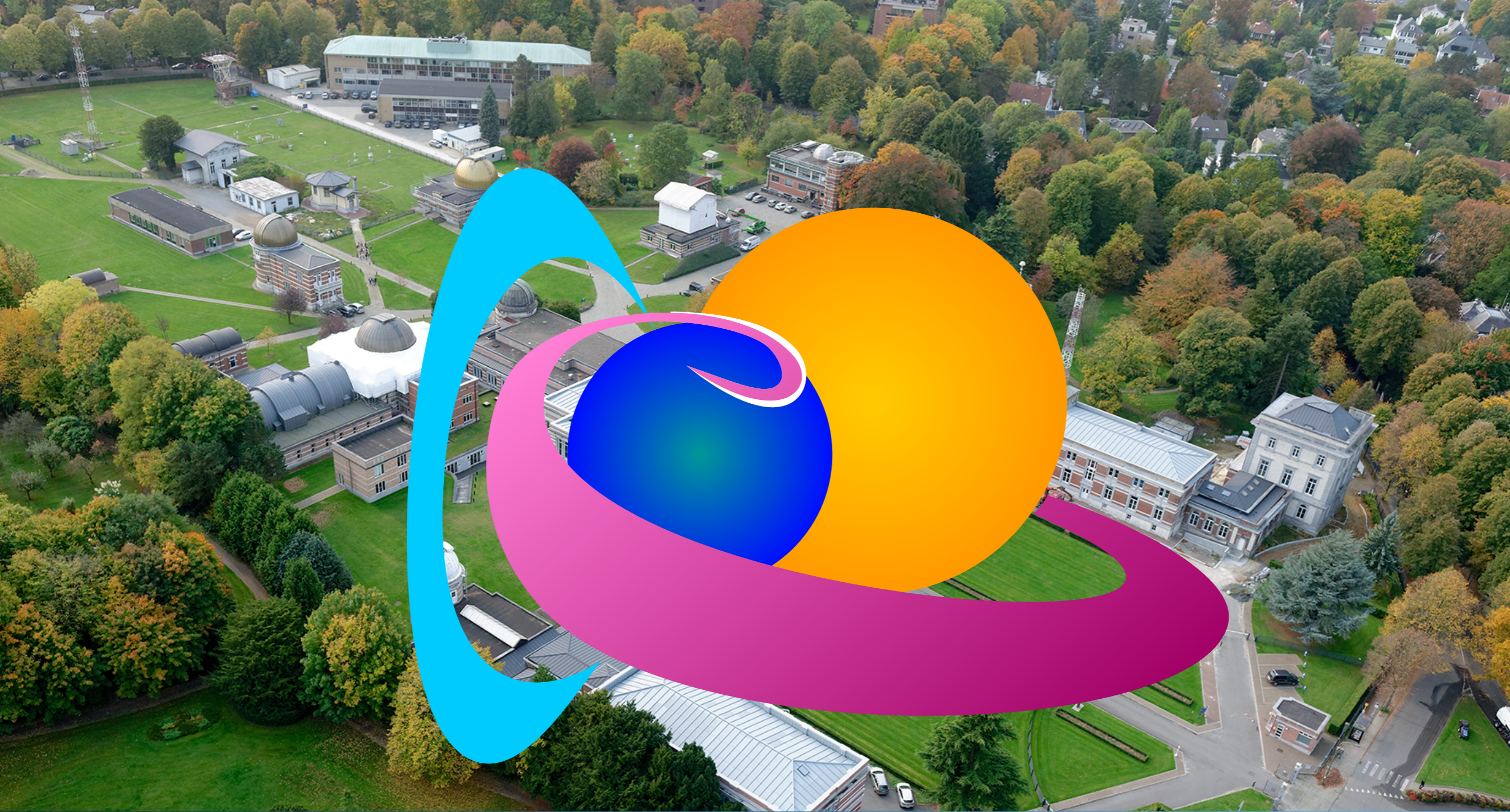
Royal Belgian Institute
for Space Aeronomy



Royal Meterological
Institute of Belgium



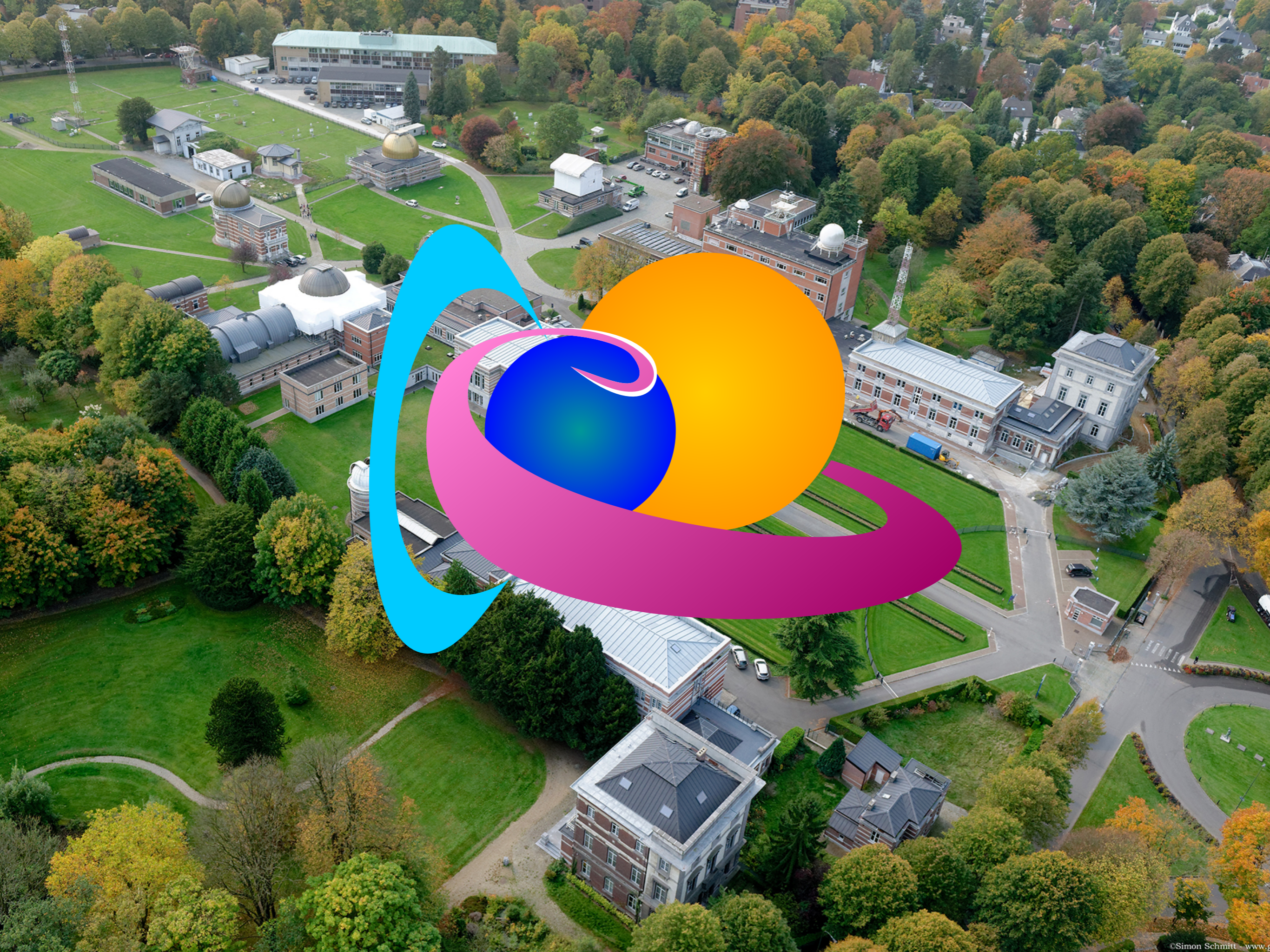
Royal Observatory of
Belgium



SPACE WEATHER

Bundeling of in house expertise



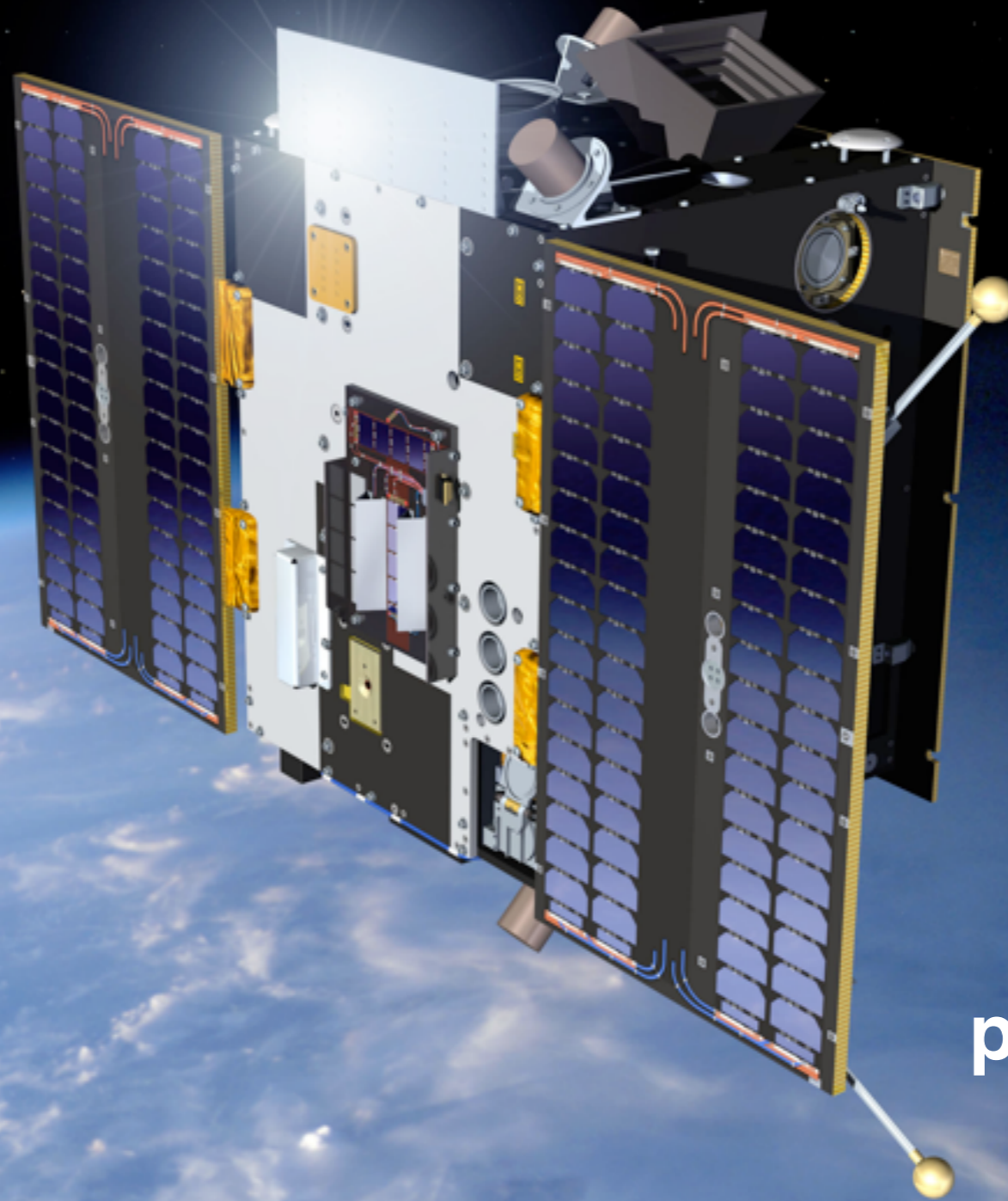


2008



SRB-detections

2009

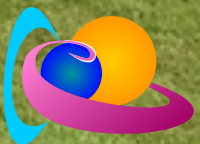
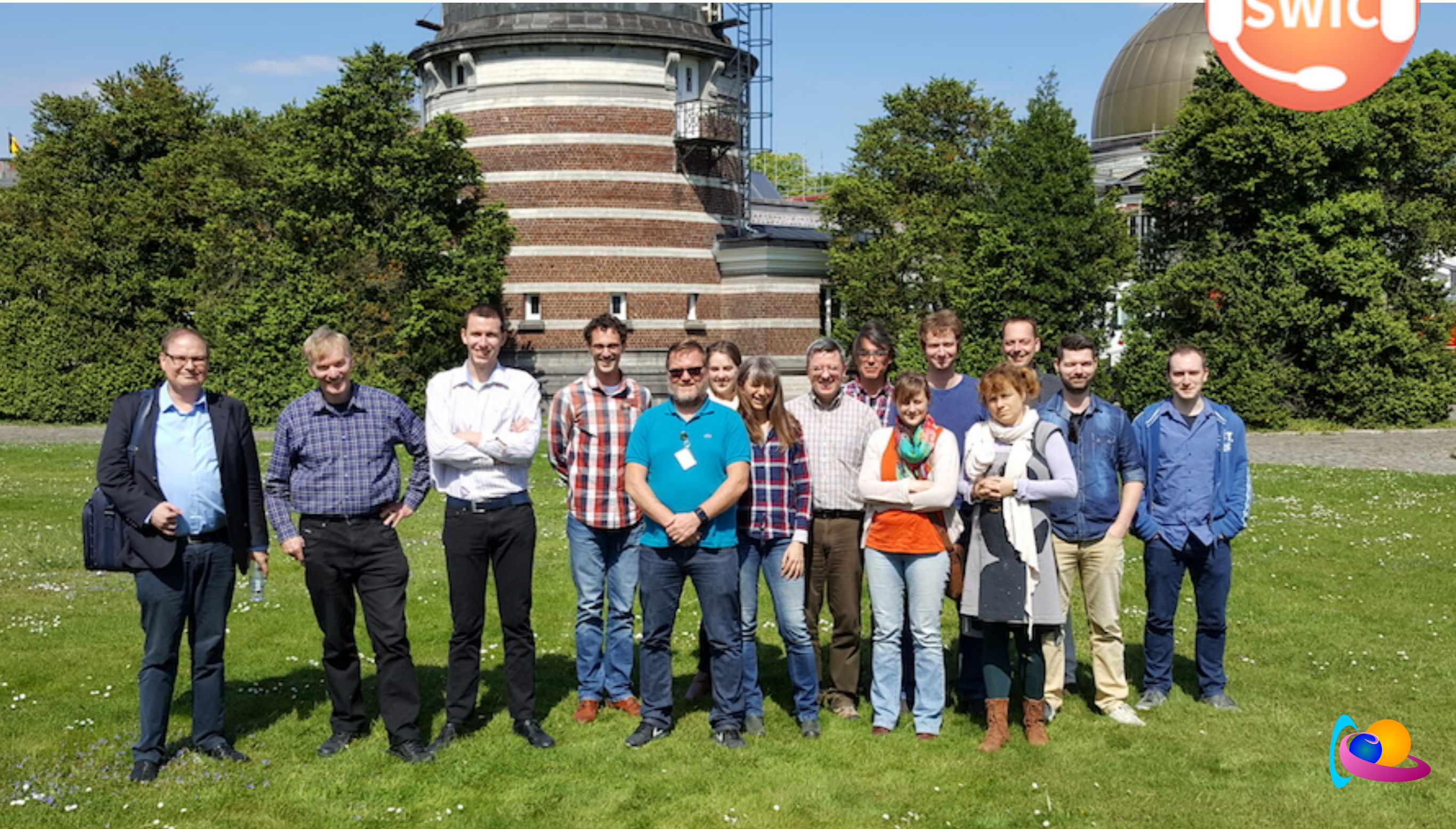


**Technology
demonstration
platform PROBA2**

2017

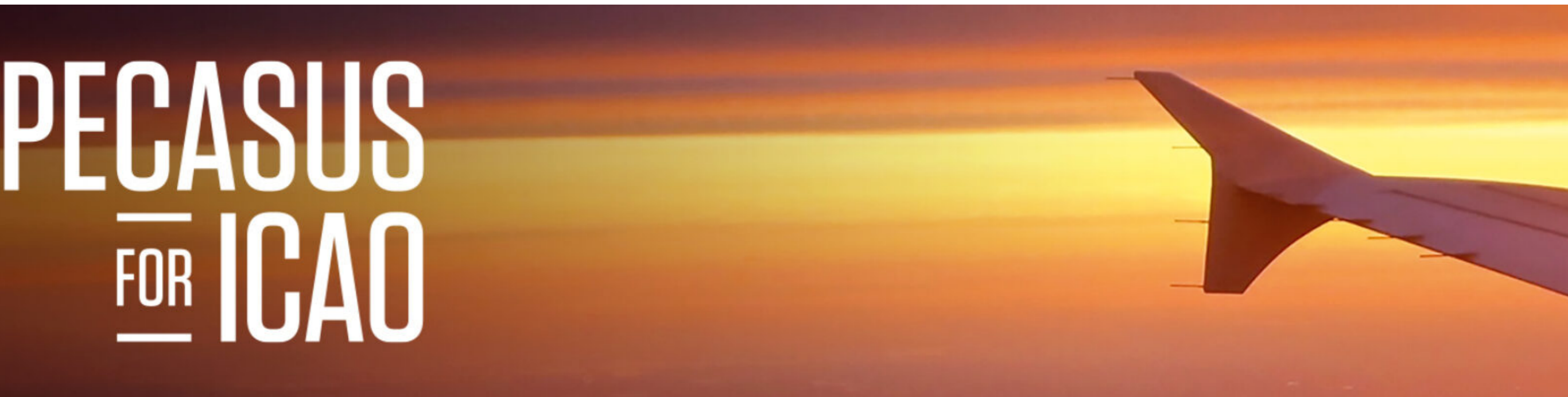


May 2017 - Space Weather Introductory Course



2019

PECASUS
FOR ICAO



1953

2021



Belgium magnetic crustal anomaly map - Total field





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