First E-SWAN school Space Weather Data, Models and Services



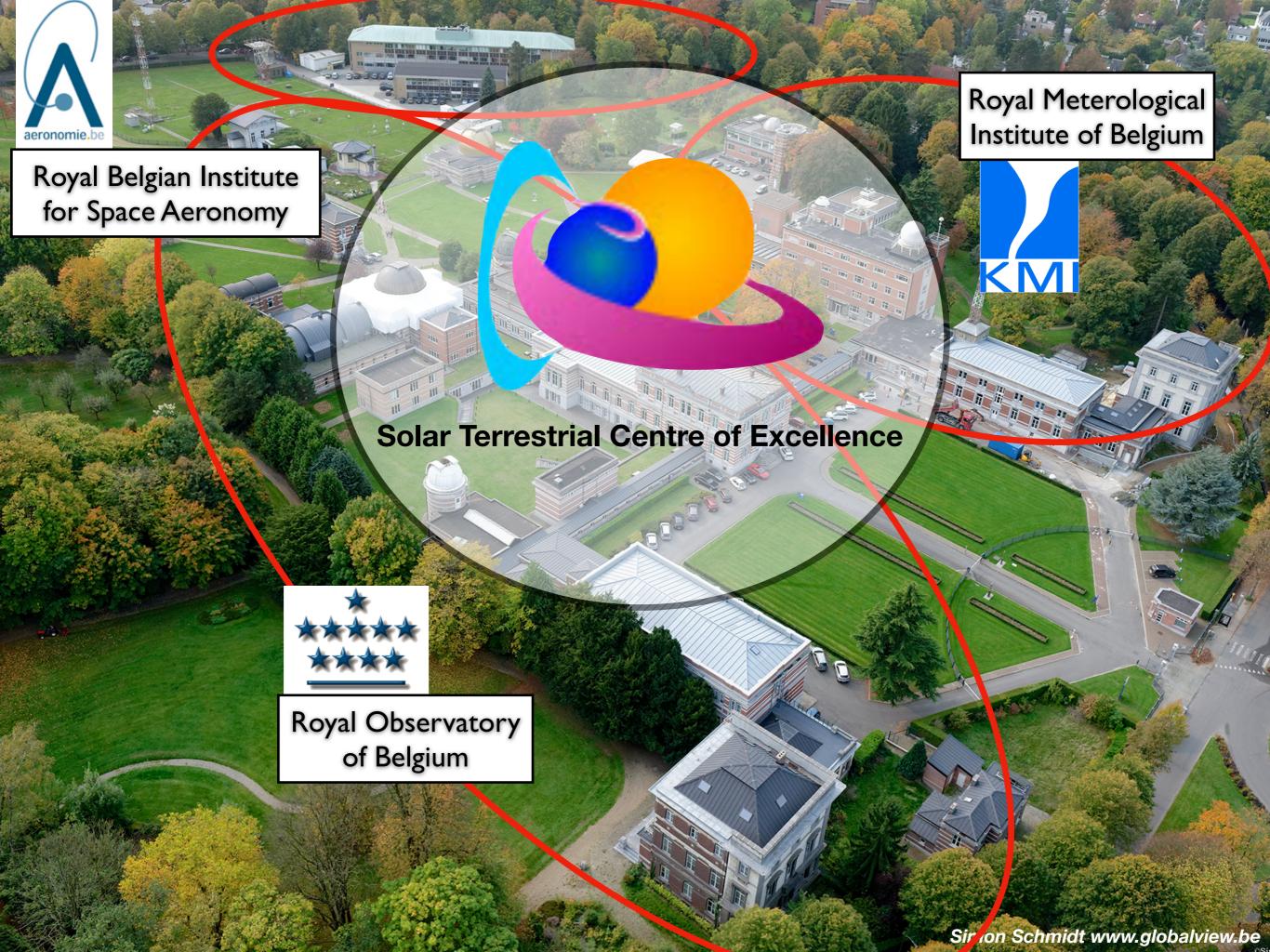
Collaboration of



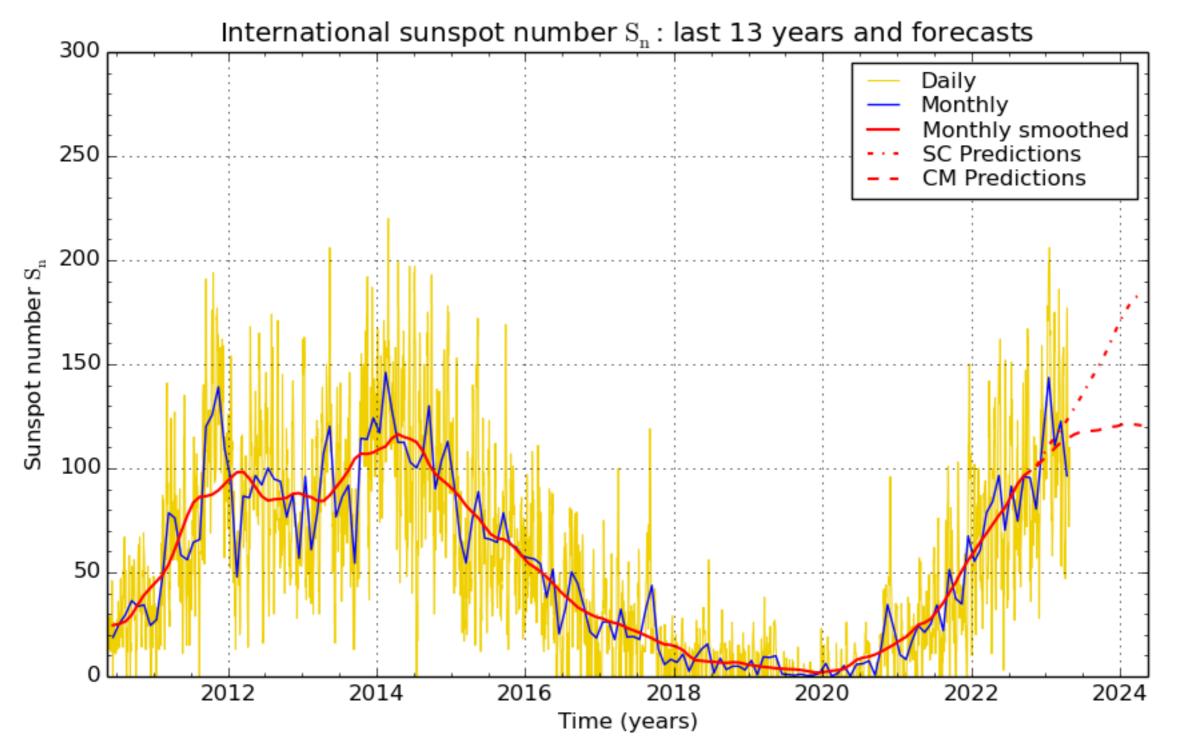


European Space Weather and Space Climate Association





SILSO - WDC

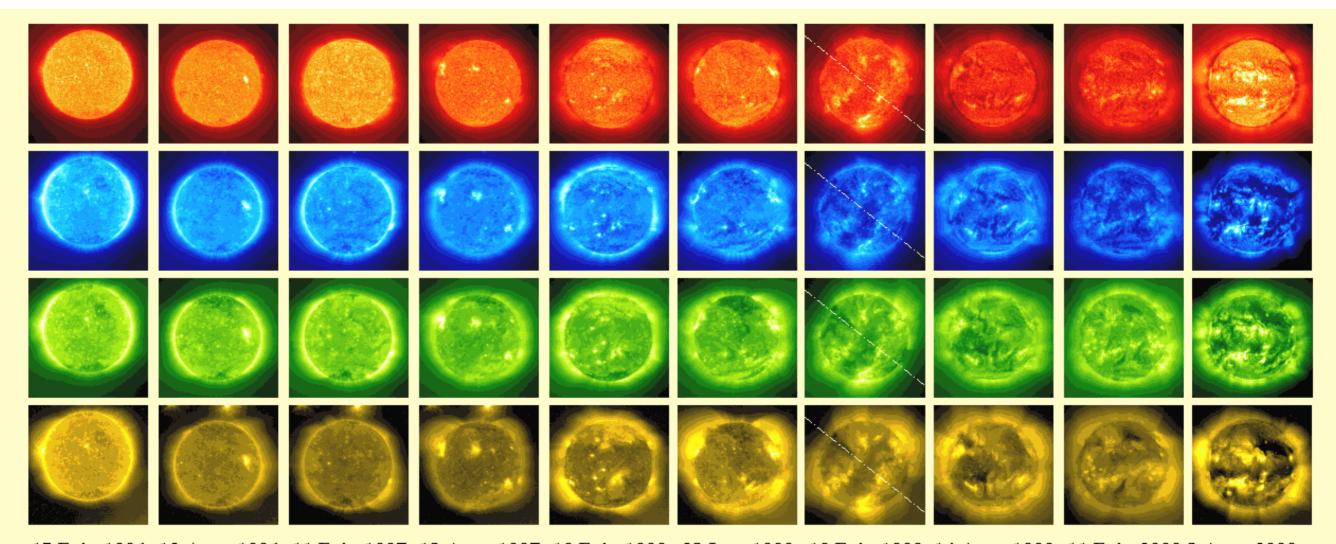


SILSO graphics (http://sidc.be/silso) Royal Observatory of Belgium 2023 May 1





EIT INSTRUMENT 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





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: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)
PR0T0NS
           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
                      L0C
                             XRAY OP 10CM TYPE
NONE
END
вт
# 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
```





RWC - DAILY BULLETINS AND ALERTS

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SIDC URSIGRAM 20216
SIDC SOLAR BULLETIN 16 Feb 2022, 1242UT
SIDC FORECAST (valid from 1230UT, 16 Feb 2022 until 18 Feb 2022)
SOLAR FLARES : C-class flares expected, (probability >=50%)
GEOMAGNETISM : Quiet (A<20 and K<4)
SOLAR PROTONS : Quiet
PREDICTIONS FOR 16 Feb 2022 10CM FLUX: 114 / AP: 003
PREDICTIONS FOR 17 Feb 2022 10CM FLUX: 115 / AP: 005
PREDICTIONS FOR 18 Feb 2022 10CM FLUX: 118 / AP: 004
COMMENT: Solar activity reached moderate levels. Catania group 26 (NOAA
region 2941) was most active, producing a M1.3 flare peaking at 18:15UT Feb
15. The region has now begun to rotate over the limb along with Catania
group 36 (NOAA region 2947). Catania group 32 (NOAA region 2943) also
produced some low level C-class flares. The remaining regions, including
Catania group 33 (NOAA region 2946), Catania group 37 (NOAA region 2948)
and Catania group 38 (NOAA region 2950), are small and relatively inactive.
Two other small regions emerged over the period; Catania group 39 (NOAA
region 2949, N25W10) and Catania group 40 (S24E07) but are not expected to
produce any significant flaring activity. Solar activity is expected to be
at low levels with a slight chance for an M-class flare in the next 24
```

A halo Coronal Mass Ejection (CME) was observed in LASCO-C2 data from 22:12UT Feb 15. This was associated with an eruption that was visible over the north-east limb and is therefore not expected to influence Earth. No Earth directed CMEs have been observed in the available coronagraph data.

hours, particularly while Catania group 26 (NOAA region 2941) remains just

The greater than 10 MeV proton flux was slightly enhanced over the past 24 hours, possibly related to the far side CME, but remained far below the 10pfu threshold and is expected to remain below this threshold for the next 24 hours. The greater than 2 MeV electron flux exceeded the 1000 pfu alert threshold. The threshold is expected to be exceeded again today. The 24 hour electron fluence was at moderate levels and is expected to be at moderate levels during the next 24 hours.

The solar wind speed continued to show a decreasing trend, with values decreasing from $420~\rm km/s$ to $350~\rm km/s$. The magnitude of the interplanetary magnetic field ranged between 1 and 6nT. The interplanetary magnetic field phi angle was predominantly in the negative sector (directed towards from the Sun). The solar wind conditions are expected to reflect a slow solar wind regime for the next $24~\rm hours$.

Geomagnetic conditions were quiet (NOAA Kp 1-2 and local K Belgium 1-2). Quiet conditions with are expected over the next 48 hours.

TODAY'S ESTIMATED ISN : 095, BASED ON 10 STATIONS.

 SOLAR INDICES FOR 15 Feb 2022

 WOLF NUMBER CATANIA : 109

 10CM SOLAR FLUX : 114

 AK CHAMBON LA FORET : 006

 AK WINGST : 004

 ESTIMATED AP : 002

ESTIMATED ISN : 086, BASED ON 22 STATIONS.

NOTICEABLE EVENTS SUMMARY

over the western limb.

DAY BEGIN MAX END LOC XRAY OP 10CM Catania/NOAA RADIO_BURST_TYPES
15 1754 1815 1831 N26W73 M1.3 SF 26/2941 III/1VI/1







First SWIC: May 2017

PECASUS - ADVISORIES

GNSS Advisory:

0000060401

FNXX01 EGRR 291526

SWX ADVISORY

DTG: 20220129/1526Z SWXC: PECASUS ADVISORY NR: 2022/2 SWX EFFECT: GNSS SEV

OBS SWX: 29/1155Z HSH E105 - E165 FCST SWX +6 HR: 29/1800Z NOT AVBL FCST SWX +12 HR: 30/0000Z NOT AVBL FCST SWX +18 HR: 30/0600Z NOT AVBL FCST SWX +24 HR: 30/1200Z NOT AVBL

RMK: SPACE WEATHER EVENT (IONOSPHERIC DISTURBANCE)

ΙN

PROGRESS. IMPACT ON GNSS

PERFORMANCE POSSIBLY LEADING TO LOSS OF GNSS

SIGNALS AND/OR DEGRADATION OF

TIMING AND POSITIONING PERFORMANCE.

NXT ADVISORY: WILL BE ISSUED BY 20220129/2038Z=

PAN-EUROPEAN CONSORTIUM FOR AVIATION SPACE WEATHER USER SERVICES

