

WP10 Virtual Access

General Assembly, 12 February 2021



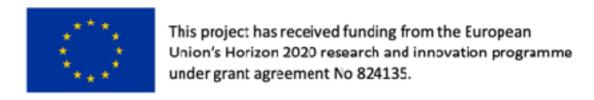
- Hinode Science Data Centre Europe (Hinode SDC), UiO
- Belgian Web Incessant Screening for SDO Mission (BE-WISSDOM), ORB
- Stockholm SST Archive, SU
- IBIS Data Archive (IBIS-A), INAF
- GRIS Data Archive, KIS



Deliverables

- DI0.1 Statistics of access provided. [month 18]
- DI0.4 Assessment on virtual access. [month 18]
- D10.2 Statistics of access provided. [month 36]
- D10.5 Assessment on virtual access. [month 36]
- D10.3 Statistics of access provided. [month 48]
- D10.6 Assessment on virtual access. [month 48]

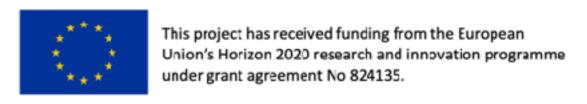




Hinode Science Data Centre Europe (UiO)

- Hinode
- IRIS
- Numerical simulations
- SST
- ALMA. Hiring 20 PM on CoG funding
- New search interface
- Ingestion of events from HEK
- Detect spacial/temporal overlap





Numerical Simulations

http://sdc.uio.no/search/simulations

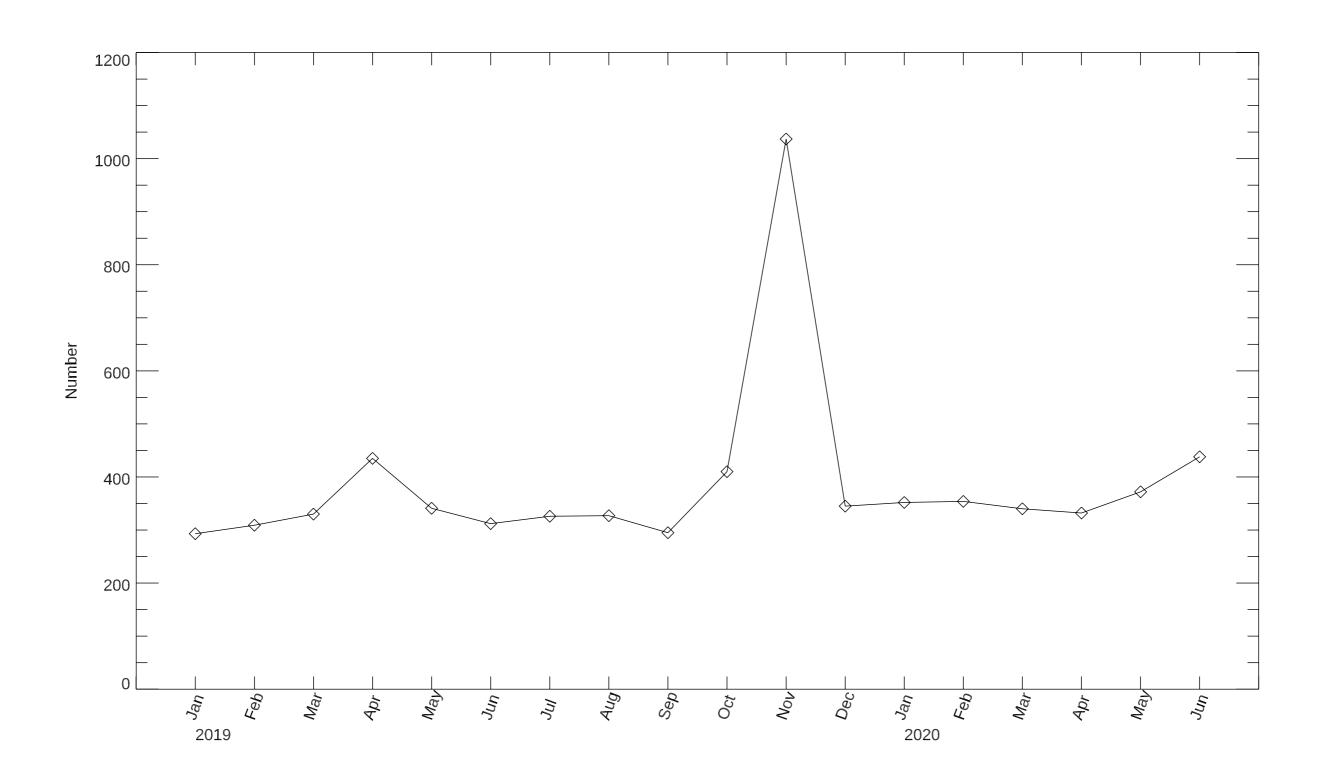
Simulation name	Type of data	# downloaded files	Total volume
en024048_hion	Simulation data	9672	4539 GB
en024048_hion	MgII h&k synthetic obs	710	451 GB
en096014_gol	Simulation data	3939	158 GB
ch024031_by200bz005	Simulation data	408	688 GB
Total		14729	5836 GB



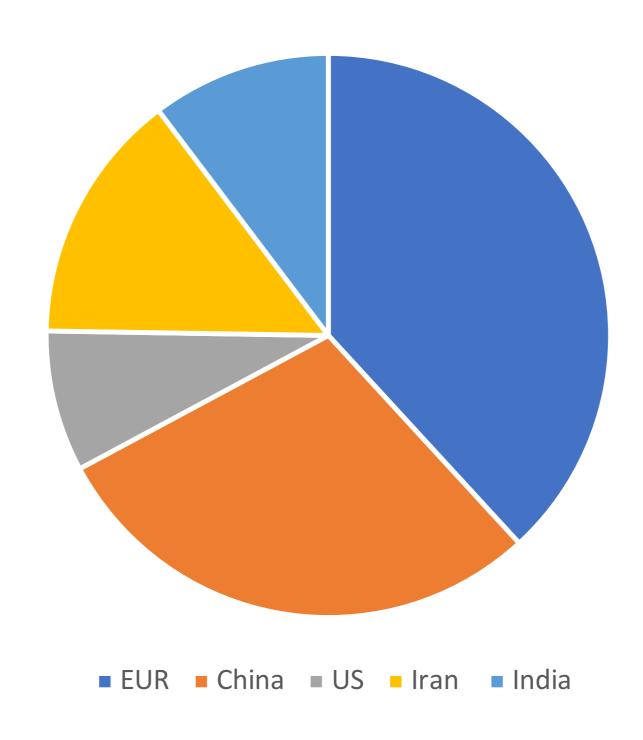


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.

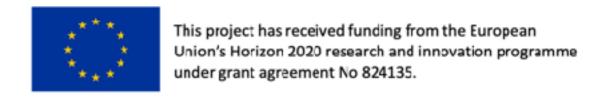
Number of distinct hosts



Downloads by affiliation



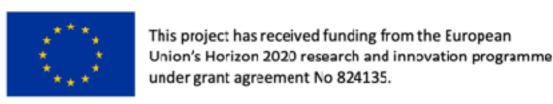




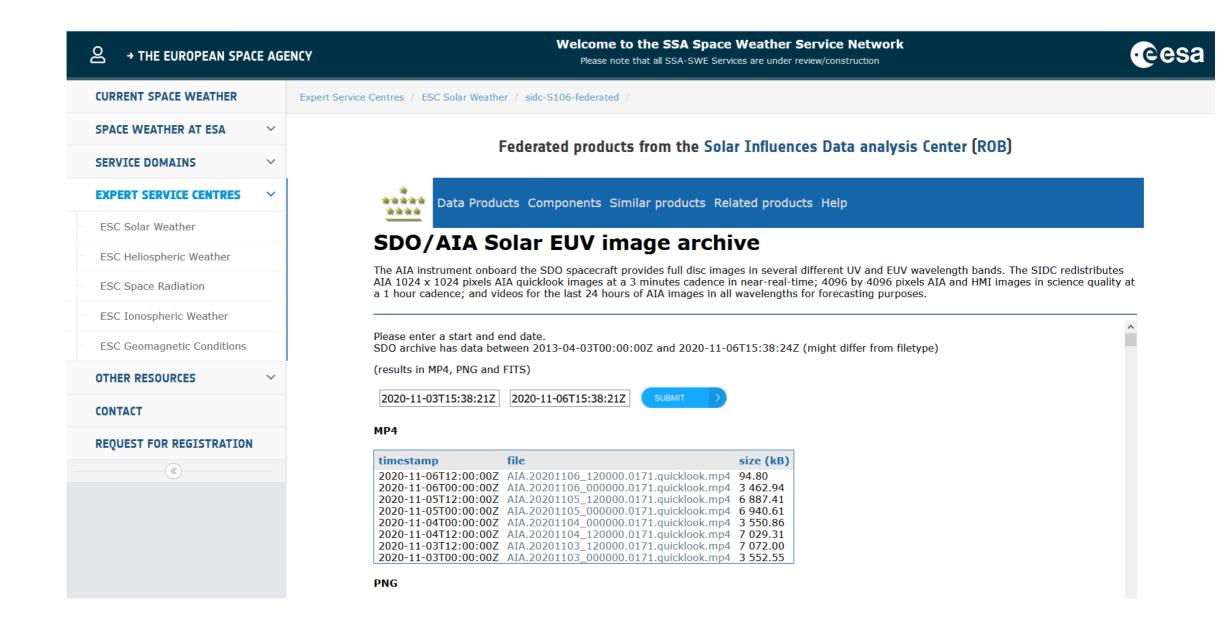
Belgian Web Incessant Screening for SDO Mission (BE-WISSDOM) (ORB)

- SDO-AIA
- SVO

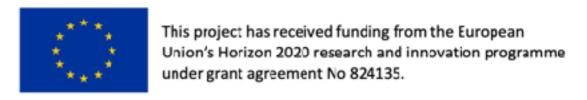




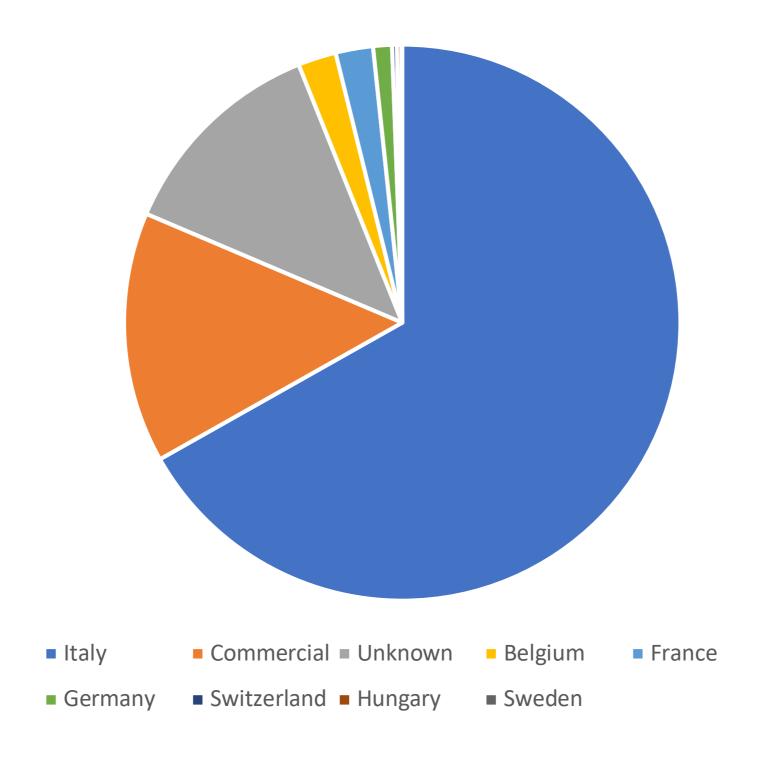
The SDO archive in ESA's SWE portal



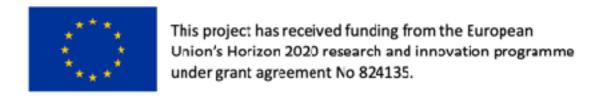




ftp access by affiliation (MTR)



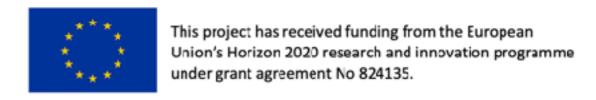




Stockholm SST Archive (SU)

- SST data (2020) work is completed, ready for first release of public Solarnet SST data. 9 CHROMIS cubes and 23 CRISP cubes available.
- Searches through SVO mechanisms for private/ public data developed.





IBIS-A (INAF)

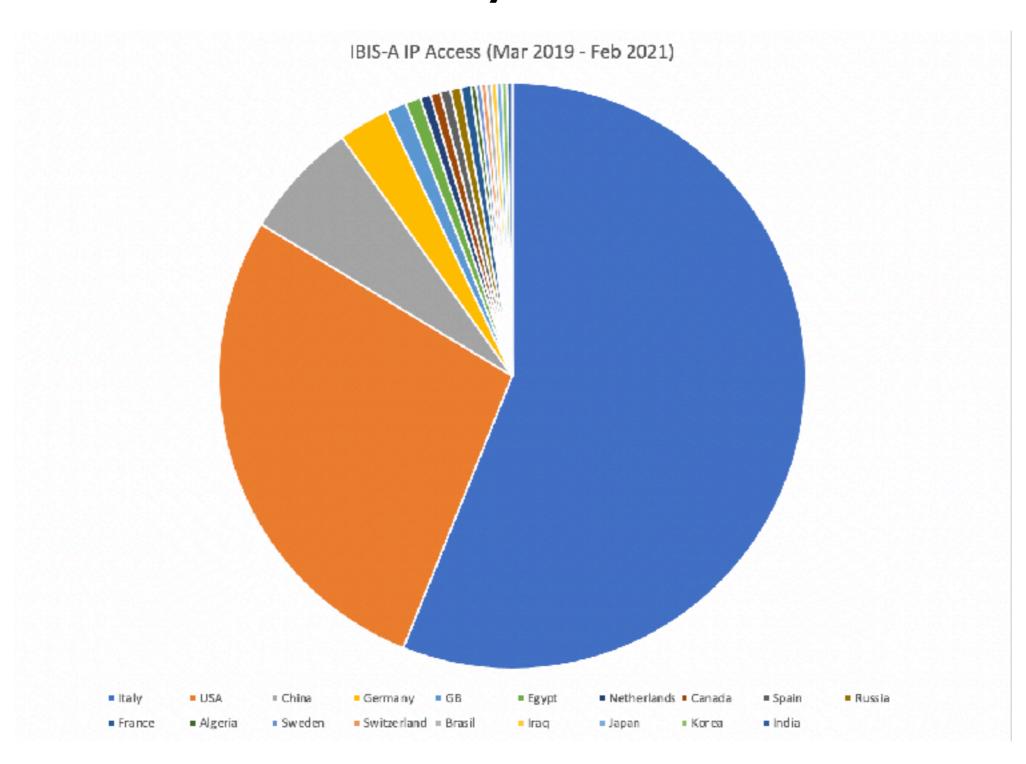
- IBIS data
- (14 campaigns, 92 days, 12 TB at time of proposal)
- More data now 26 campaigns, 152 days (2012-2019), 29
 TB
- More calibrated data products, 3 TB science ready
- Contextual full disk images added
- Co-temporal observations of Hinode and IRIS
- NICOLE Inversions will be added
- Statistics reporting procedures implemented.



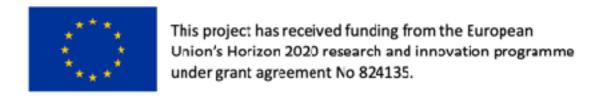


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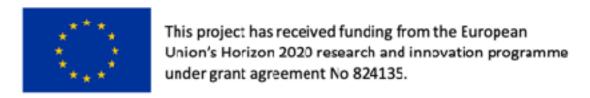




GRIS Data Archive (KIS)

- GRIS GREGOR IR Spectrograph: Spectro-polarimetric observations of high-resolution around the 1.5micron or 1.08 micron (Hel) ranges.
- LARS Laser Absolute Reference Spectrograph: the emission spectrum of a Laser Frequency Comb is superimposed with the solar spectrum from the echelle spectrograph at VTT.
- ChroTel Chromospheric Telescope: full-disc observations of the solar chromosphere in Calcium II K (393.3 nm), H alpha (656.3 nm) and Helium I (1083.0 nm) with a cadence of less than a minute.
- Data from the Broad-Band Imager (BBI) system and the Integral Field Unit instrument (Collados et al., IAC) at GREGOR have been ingested and will become accessible soon.

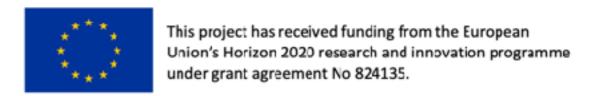




GRIS Data Archive

- An importer has been developed that by now can ingest most of the LI data from different (GRIS, BBI, LARS, ChroTel) instruments in an automated way.
- The query system has been improved. Now data are available via sdc.leibniz-kis.de
- The ingestion of IFU data is worked on but not completed yet.
- Automated tagging of solar features has not been implemented yet.
- An algorithm for the automated selection of data based on data quality for the ChroTel telescope (OT) has been developed.
- In May 2020 first tests started to run VFISV inversions (i.e., creation of L2 data) in an automated manner over all GRIS archived data.

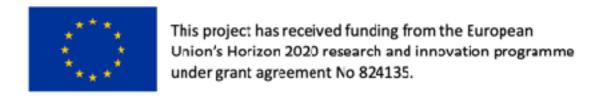




DI0.4 Assessment on virtual access. [month 18]

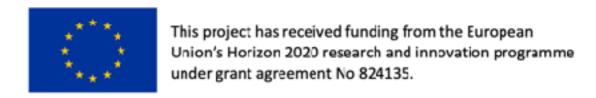
- Independent group of experts
 - Louise Harra, Director PMOD/WRC, affiliated
 Prof. at ETH-Zürich, Davos, Switzerland
 - Neil Hurlburt, Lockheed Martin Solar and Astrophysics Laboratory, Palo Alto, USA





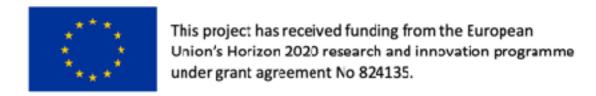
- What is the best source for SST data?
 - SOLARNET data in SST Archive with SVO access
 - Oslo SST data at Hinode SDC-Europe
- IBIS data archive what is the plan for improving in the future?
 - Add links to coordinated data from IRIS/Hinode
 - Add contextual full disk data
 - Add Science ready (L1) data for the L0 datasets
 - Add higher level data products (e.g. inversions)





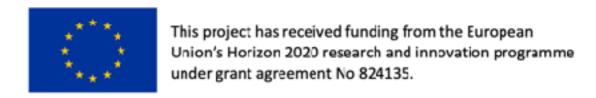
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- One common access point for five Archives
 - SVO efforts at ORB
- Coordinate metadata efforts in SOLARNET with efforts in the US
 - US experts take part in SOLARNET effort
- How is BE-WISSDOM SVO different from USVSO?
 - More modern SW design can work with latest operating systems
 - Standards for interfacing with other tools, e.g. JHelioviewer
 - Cross-dataset searches
 - More tailored for ground-based observations





- One common access point for five Archives
 - Common advertising on web
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