

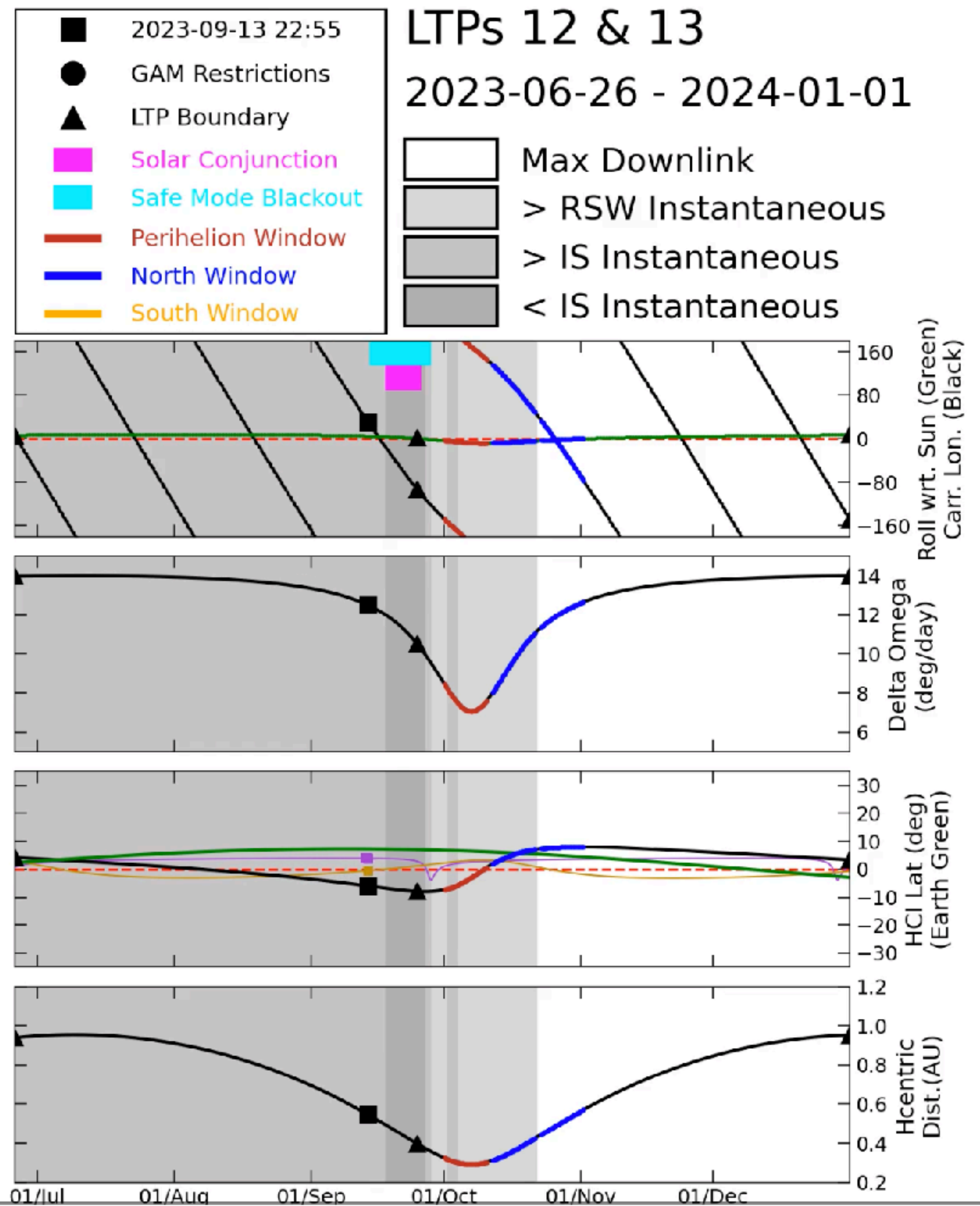
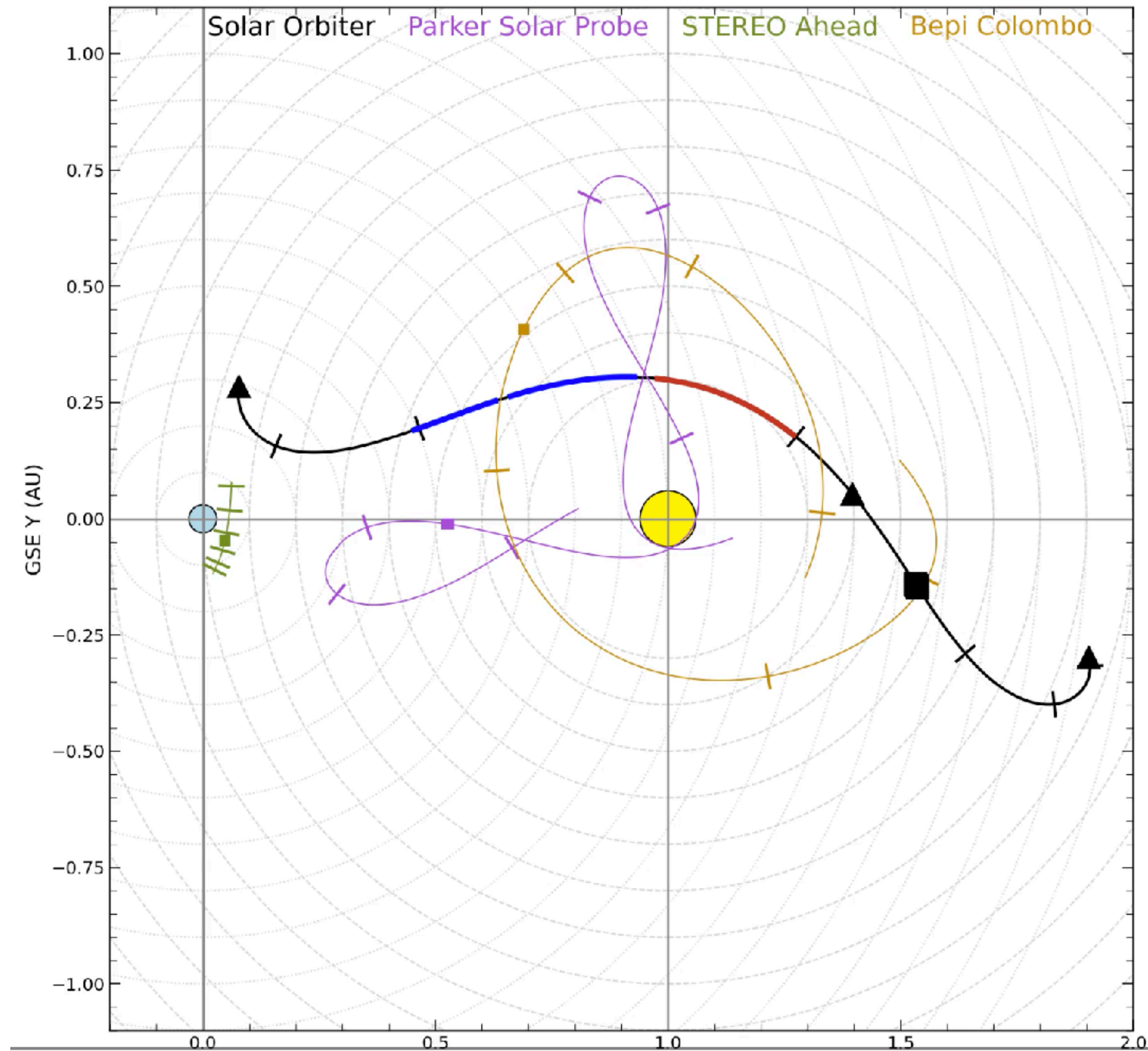
Recent EUI news

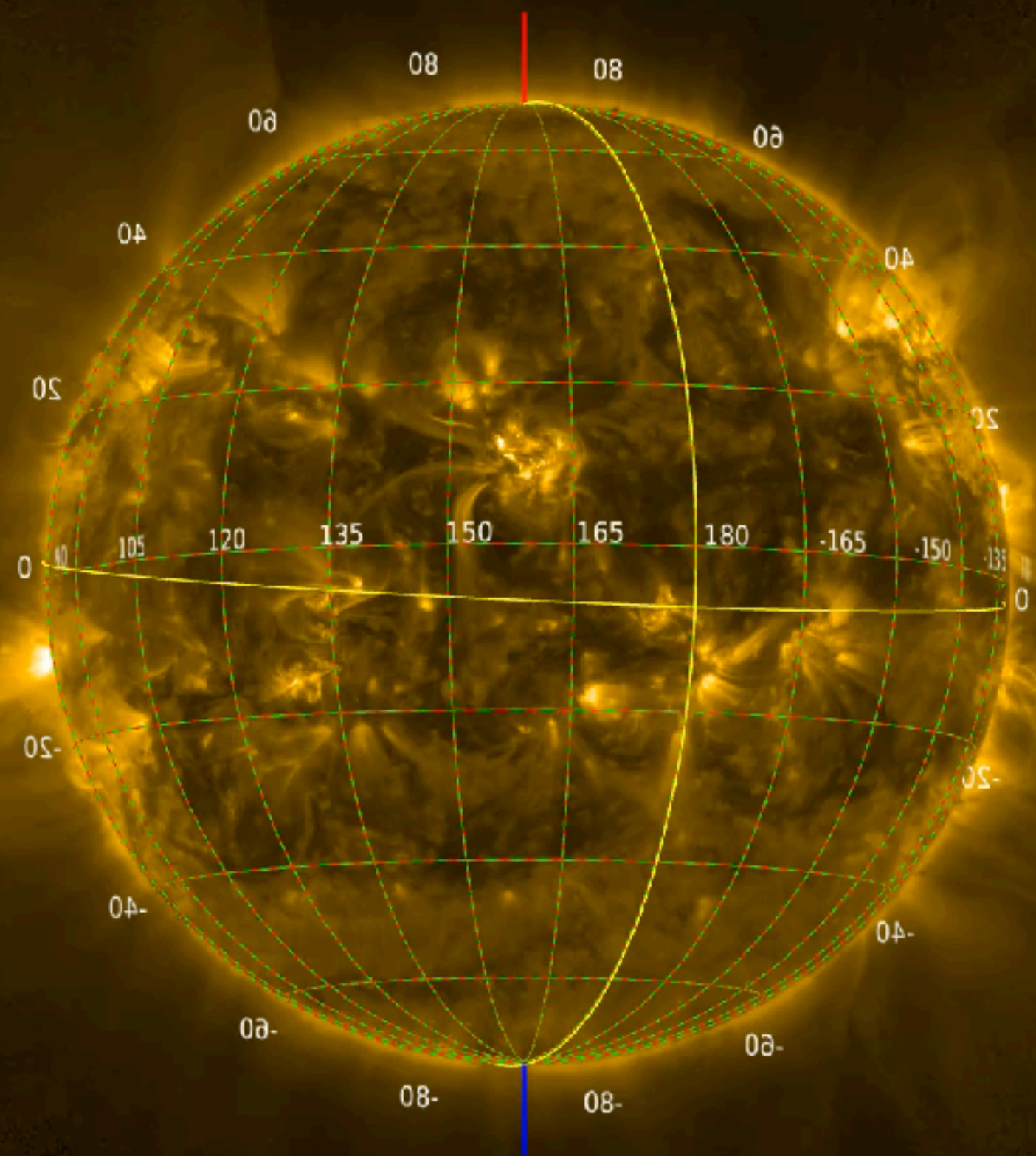
D. Berghmans

30th Consortium Meeting
IAS (Paris), 2023-09-13

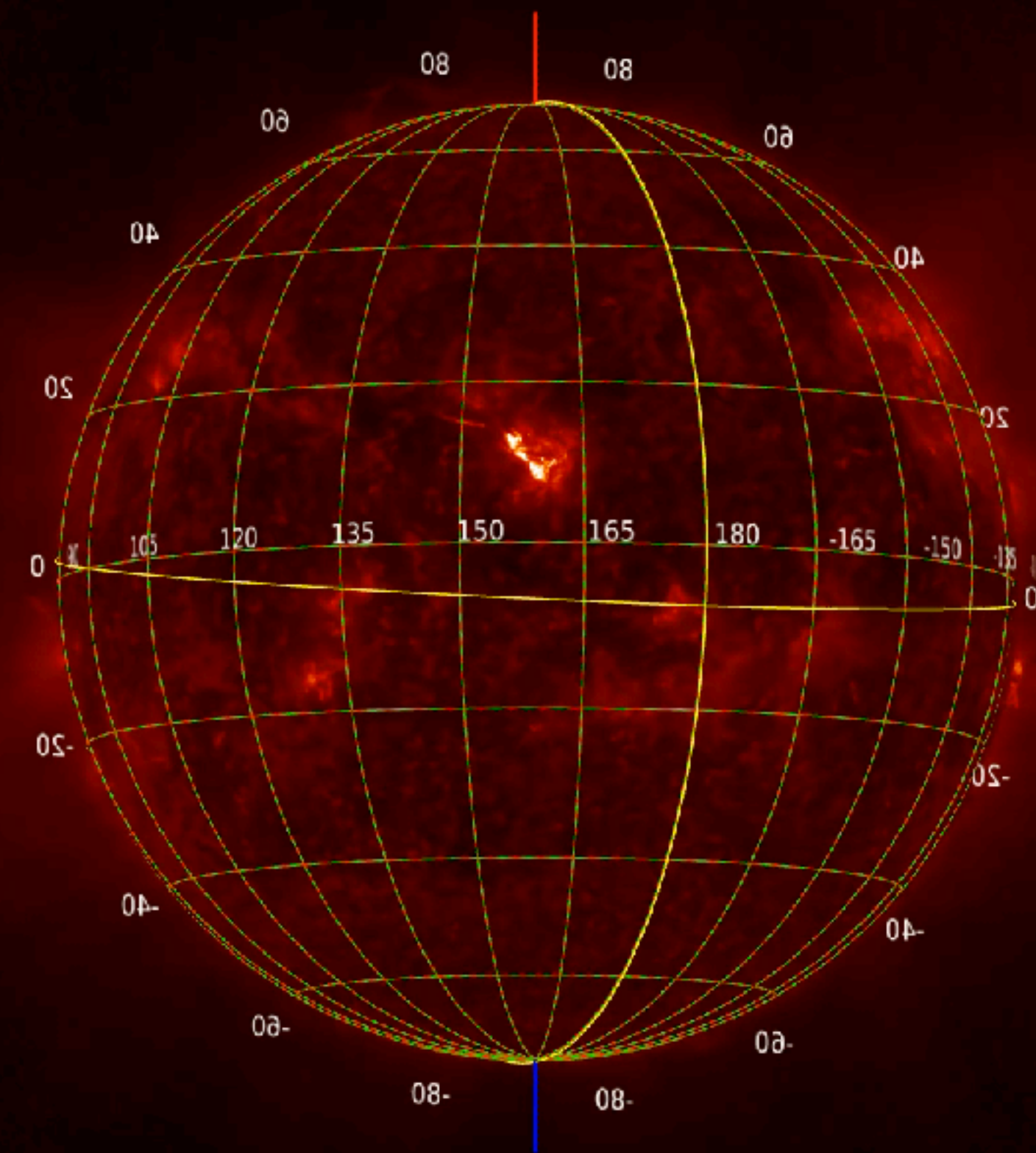
Contact: david.Berghmans@sidc.be (PI)







EUI FSI 174 2023-09-07T23:55:51.785 | D \odot : 0.6181au



EUI FSI 304 2023-09-07T23:55:16.783 | D \odot : 0.6181au

Data Return

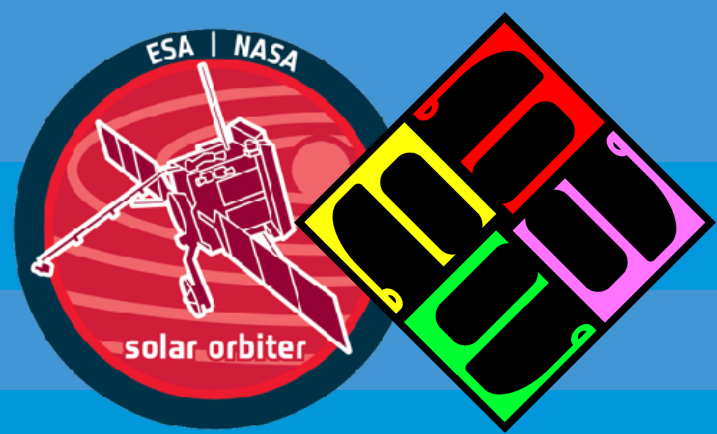


NSM00869 PS12 Accumul Data (Hourly median)



Over the mission so far

- **275 000 MiB** (x 6.6 EID-A rate)
- **1.3 % HK, the rest is science** (HK rate has been reduced early March)
- **> 399 000 images**



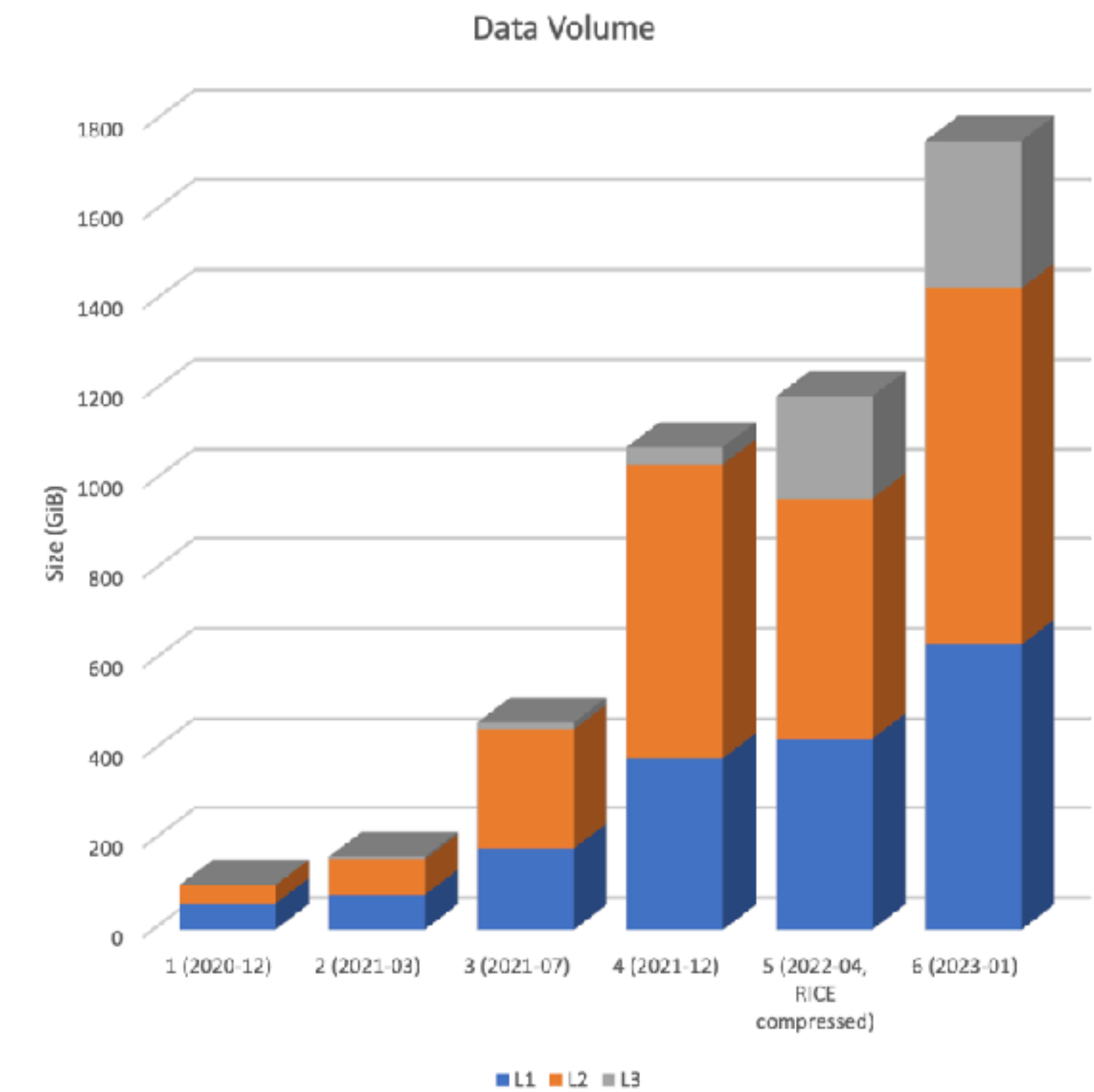
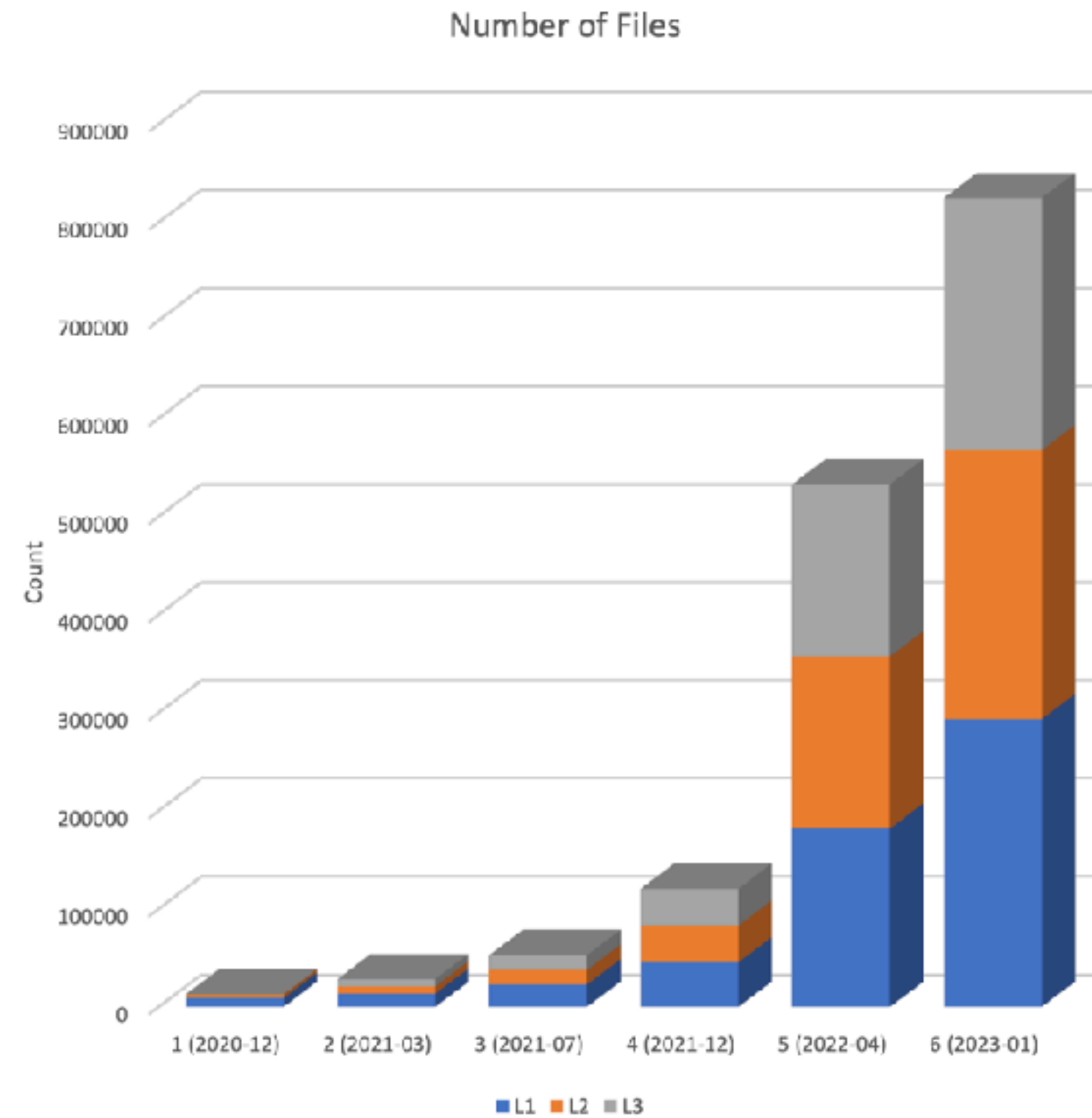
Data release 6



2023-06-20

- data till ~~2023-01-10~~
- 270k images
- reprocessing takes 3 days
- new filename descriptors
 - image
 - image-led, image-dark
 - image-occulter
 - image-short

Data Release - size



SOAR

<https://www.sidc.be/EUI/data/releases/>

<https://doi.org/10.24414/z818-4163>

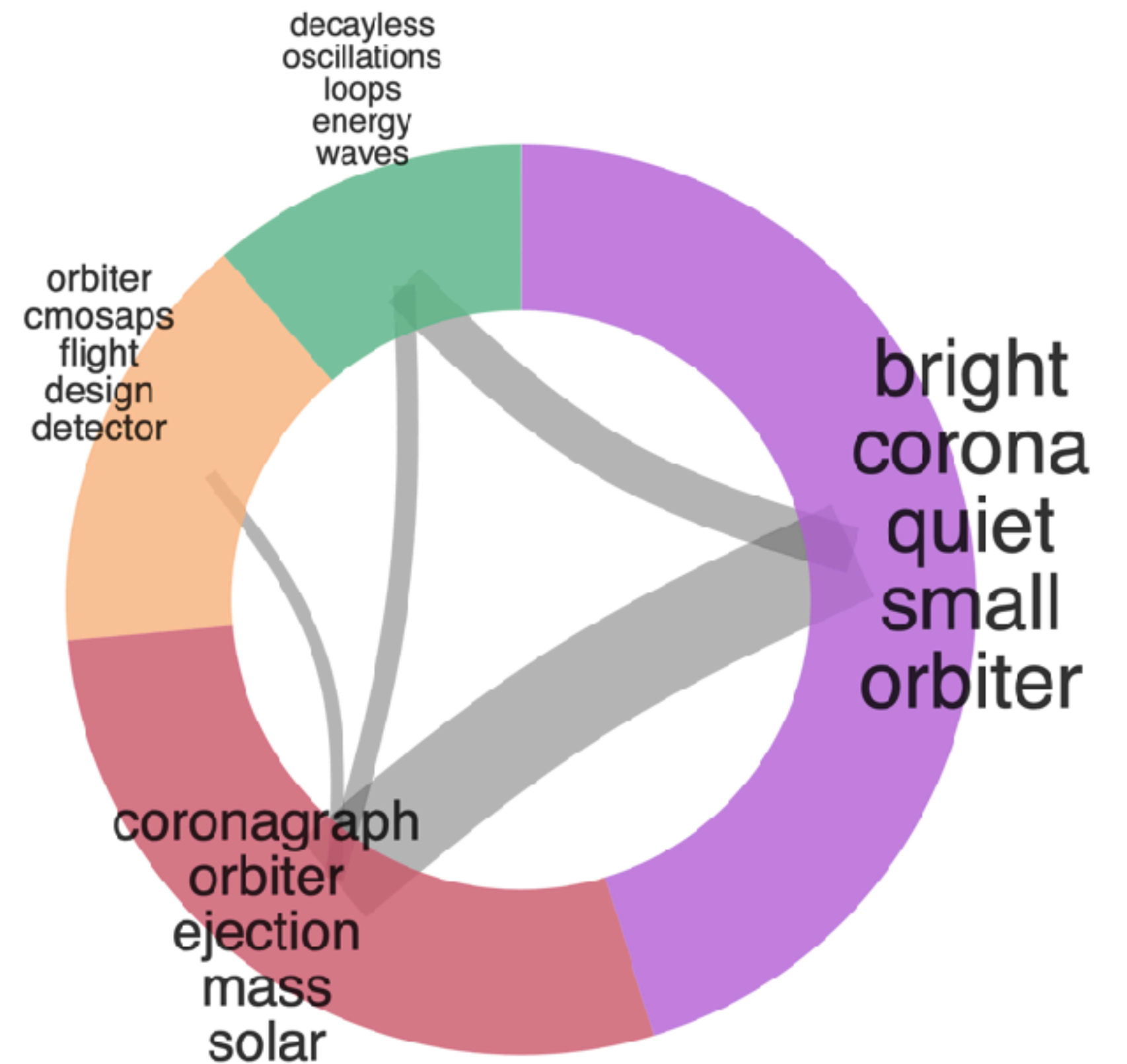
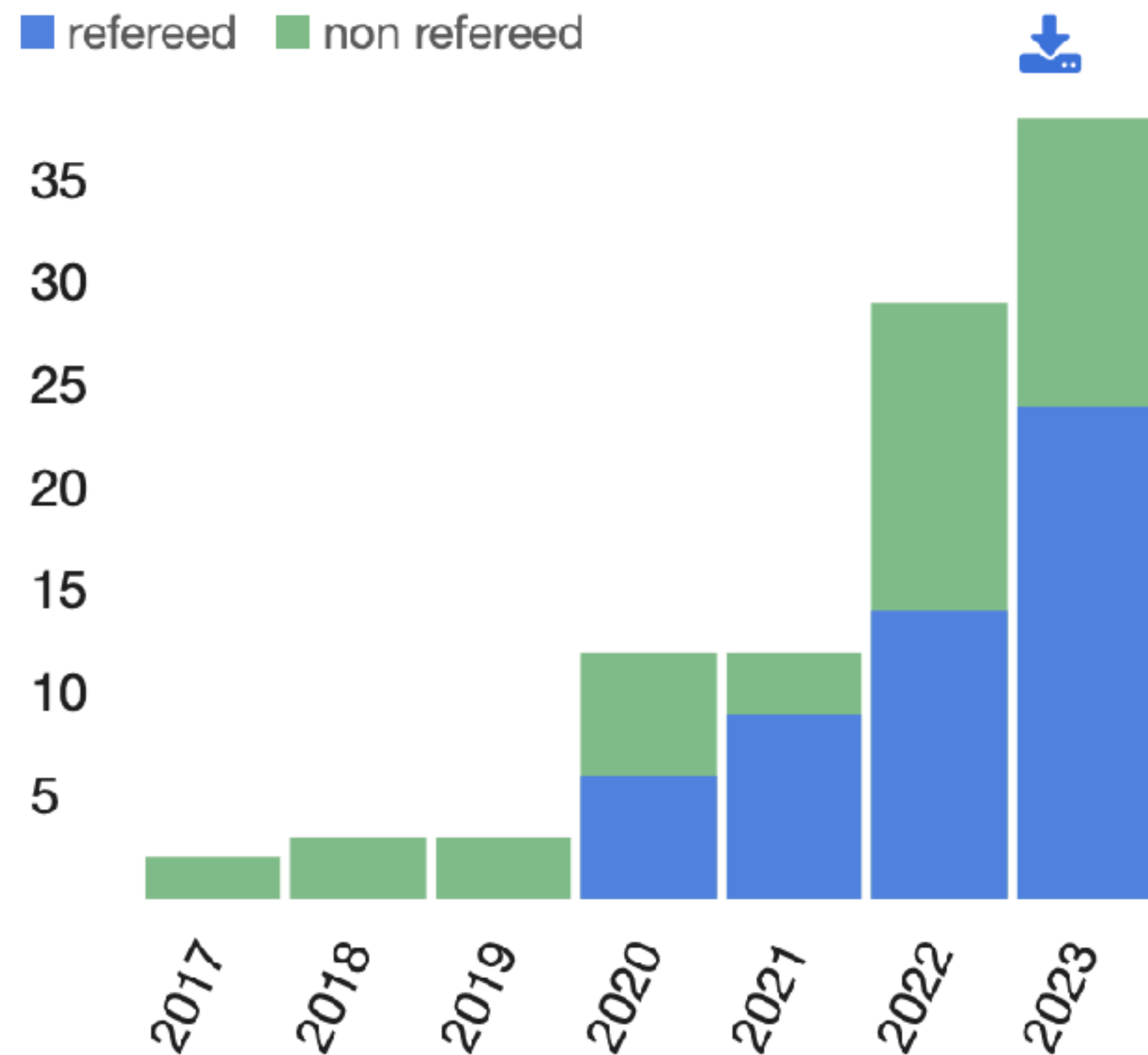
Publications

58 refereed publications in AA (35), ApJ (8), Sol Phys (6), ApJL (4)


Chitta L.P. et al “Picoflare jets power the solar wind emerging from a coronal hole on the Sun”, Science 2023

Sihui Z. et al “Polarisation of decayless kink oscillations of solar corona loops”, Nature Comm. 2023

Cheng, X et al “Ultra-high-resolution observations of persistent null-point reconnection in the solar corona”, Nature Comm 2023



Recent media highlights

 European Space Agency

Mercury's black disc helps sharpen Solar Orbiter's view

This year started with a nice imaging opportunity for Solar Orbiter, ... A number of the ESA/NASA Solar Orbiter's instruments captured the transit.



20 Feb 2023

 The Royal Astronomical Society

Solar astronomers discover 'shooting stars' on the Sun's corona

Observations from the European Space Agency's Solar Orbiter (SOHO) have revealed never-before-seen 'falling stars' in the Sun's corona.

03 Jul 2023

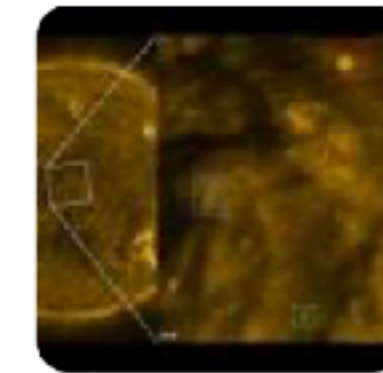



 Space.com

Scientists may have just cracked the sun's greatest mystery

These fast-oscillating waves produce so much energy, according to latest calculations, that they could explain the coronal heating. Related: Solar Orbiter...

1 month ago



 7sur7.be

<https://www.7sur7.be/sciences/d...>

Des chercheurs de la KU Leuven font une découverte sur le Soleil

06 Apr 2023 — La présence de ces boucles magnétiques dans la couronne était connue, mais avec le télescope, les chercheurs ont découvert que les boucles...

 CNN

Solar Orbiter observes jets of material escaping the sun

Explore the universe with news on fascinating discoveries, scientific advancements and more. CNN —. The Solar Orbiter mission has discovered jets of material...

3 weeks ago



 Digital Trends

Hacking Solar Orbiter camera to get a better look at the sun

Recently, members of the instrument team for the Solar Orbiter's Extreme Ultraviolet Imager (EUI) camera have found a new way to make use of the instrument to...

1 day ago



Recent hick-ups

- July 31, Aug 10, Aug 31 time synchronisation problem -> resync
- Aug 10 EDAC uncorrectable errors -> reboot on Aug 11
- Sept 4 EUI Heartbeat out of limit
(patch for HRILYA was not applied on Aug 11)
- software update upload postponed till early November