

Enhancing Access to Solar Orbiter Data: Recent Updates to Solar Orbiter ARchive (SOAR)



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The ESAC Science Data Centre (ESDC) based at ESAC (European Space Astronomy Centre) in Madrid, plays a crucial role in preserving and providing long-term access to data from all ESA space science missions. Recent enhancements to the Solar Orbiter ARchive (SOAR) and its inclusion in the new HelioPhysics Archive (HPA) aim to provide researchers with more intuitive and powerful tools for data access. These updates include the ability to search data by solar distance and utilise Field of View (FoV) tables. The contents of the Solar Orbiter mission orbit file have been ingested and is available via our standard TAP interface. This allows users to search a rich set of metadata based on distance and latitude with ADQL requests. Integration with commonly used tools like SunPy, Autoplot, TOPCAT and soon the NASA Virtual Solar Observatory (VSO) has further streamlined data access and interoperability. Other upcoming features are presented.

