

OVGSO data center



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The OVGSO (Observatoire Virtuel du Grand Sud-Ouest: <https://ov-gso.irap.omp.eu/>) is one of the six French Astrophysical Data Center recognised by INSU/CNRS (National Institute for Earth Sciences and Astronomy) since 2013. It aims at providing a common environment for all the Astrophysical and Planetology researches, based on observed/theoretical/modelled data access and tools interoperability. The OVGSO organization is :



Different tools have been developed and VO (Virtual Observatory) standards and protocols have been used within this Data Center. For example, data observations can be retrieved using SSAP (Single Spectral Access Protocol) or TAP (Table Access Protocol) to access the IVOA (International Virtual Observatory Alliance) services, to reach some observed data and link them to theoretical atomic and molecular databases such as VAMDC (Virtual Atomic and Molecular Data Centre) databases. SAMP (Simple Application Messaging Protocol) is also used to get and send data to the tools developed by OVGSO Data Center and others partners.



The goal of the OVGSO Data Center is to share common tools for different thematic fields in astrophysics for a better use of the astrophysical data. This need has revealed to be crucial with the wealth of high-spatial/spectral resolution spectra for the past 15 years, with new generation of ground/space-based observatory. Dealing with a large quantity of data leads to optimized tools and a better and common access to the many databases.