



HELIO - A step into the Future

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Abstract

The Heliophysics Integrated Observatory, HELIO, is creating a distributed network of services that will address the needs of a broad community of researchers in heliophysics. It will provide the most comprehensive integrated information system in this domain; it will coordinate access to the resources needed by the community, and will provide access to services to mine and analyze the data.

The HELIO project has been running for just over a year. It has already established the first services and can solve simple problems using coded workflows. Over the next few months many more capabilities should come on line and a workflow server will be established in preparation for the first Coordinated Data Analysis Workshop (CDAW) in November 2010.

We will report on the infrastructure that HELIO is creating and the work we are trying to do with other related virtual observatories. We will also describe a new project, the "Coordination Action for the integration of Solar System Infrastructures and Science" (CASSIS) that recently started. CASSIS involves the HELIO, Europlanet RI and SOTERIA projects and has the objective of improving interoperability for data and services in all areas of science in the Solar System.

HELIO is a Research Infrastructures funded under the Capacities Specific Programme within the European Commission's Seventh Framework Programme (FP7; Project No. 238969). It involved 13 groups spread over 7 countries and is led by University College London. The project started on 1 June 2009 and has a duration of 36 months.