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# Data Services and Analysis Tools for Solar Energetic Particle Events and Related Electromagnetic Emissions – SEPServer

Olga Malandraki and the SEPServer Team
National Observatory of Athens, Greece

"Data Services and Analysis Tools for Solar Energetic Particle Events and Related Electromagnetic Emissions", or SEPServer in short, is a three year collaborative project funded by the seventh framework programme of the European Union. The main objective of the project is to produce a new tool, which greatly facilitates the investigation of solar energetic particles (SEPs) and their origin: a server providing SEP data, related electromagnetic (EM) observations and analysis methods, a comprehensive catalogue of the observed SEP events, and educational/outreach material on solar eruptions.

The project will combine data and knowledge from eleven partners from six European countries and several collaborating parties from Europe and US. The project is coordinated by the University of Helsinki, Finland.

SEPServer will add value to several space missions and earth-based observations by facilitating the coordinated exploitation of and open access to SEP data and related EM observations, and promoting correct use of these data for the entire space research community. This will lead to new knowledge on the production and transport of SEPs during solar eruptions and facilitate the development of models for predicting solar radiation storms and calculation of expected fluxes/fluences of SEPs encountered by spacecraft in the interplanetary medium.