

Open solar data, data products, and tools at MEDOC

Éric Buchlin¹, Stéphane Caminade¹, Susanna Parenti¹, Barbara Perri^{1 2}, Frédéric Auchère¹, Nima Traoré³, Khalil Ashkar¹, Nicolas Dufourg⁴

¹ Université Paris-Saclay, CNRS, Institut d'astrophysique spatiale, 91405, Orsay, France

² Dept. d'Astrophysique/AIM, CEA/IRFU, CNRS/INSU, Université Paris et Paris-Saclay, 91191 Gif-sur-Yvette Cedex, France

³ DSI Group, Paris, France

⁴ CNES, Toulouse

MEDOC (Multi-Experiment Data and Operation Centre), initially created as a European data and operation centre for the SoHO mission, has grown with data from other solar physics space missions, from STEREO to SDO, and now Solar Orbiter. In addition to observational data, MEDOC also provides datasets derived from observations (maps, catalogues...), tools for data analysis and interpretation, and numerical simulation results.

We will present the current and future MEDOC interfaces, including APIs and VO services, data formats, implementation of DOIs, and how they contribute making MEDOC data FAIR.