

Community-developed open tools for supporting the ESA JUICE space mission preparation

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Abstract

The MASER (Measurements, Analysis and Simulation of Emissions in the Radio range) and VESPA (Virtual European Solar and Planetary Access) teams are proposing a set of tools and dataset used for preparing the ESA-lead JUICE (Jupiter Icy moon Explorer) space mission, with a focus on magnetospheric science topics. The case of the observation planning and science mode assessment in the frame of the JUICE mission is described. This case shows how Jovian radio emissions observations and simulations are used by the JUICE science and operation teams. Developments using the EOSC (European Open Science Cloud) infrastructure are also envisaged in the near future.