



## **Interactive Tools to Access the HELCATS Catalogues**

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The propagation tool is a web-based interface written in java that allows users to propagate Coronal Mass Ejections (CMEs), Corotating Interaction Regions (CIRs) and Solar Energetic Particles (SEPs) in the inner heliosphere. The tool displays unique datasets and catalogues through a 2-D visualisation of the trajectories of these heliospheric structures in relation to the orbital position of probes/planets and the pointing direction and extent of different imaging instruments. Summary plots of in-situ data or images of the solar corona and planetary aurorae stored at the CDPP, MEDOC and APIS databases, respectively, can be used to verify the presence of heliospheric structures at the estimated launch or impact times. A great novelty of the tool is the immediate visualisation of J-maps and the possibility to superpose on these maps the HELCATS CME and CIR catalogues.