Level-2 product generation for the Swarm satellite constellation mission - DTU Orbit

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In order to take advantage of the unique constellation aspect of ESA's Swarm constellation mission, considerably advanced data analysis tools have been developed. The Swarm ESL/SCARF (Satellite Constellation Application and Research Facility), a consortium of several research institutions, derives Level-2 products by combination of data from the three satellites, and of the various instruments. A number of Level-2 data products are defined and produced by this consortium, including various models of the core and lithospheric field, as well as of the ionospheric and magnetospheric field. In addition, derived parameters like mantle conductivity, thermospheric mass density and winds, field-aligned currents, an ionospheric plasma bubble index, the ionospheric total electron content and the dayside equatorial zonal electrical field are determined. The present poster describes the various processing chains of SCARF, the Level-2 output data products defined and produced by SCARF, and the timeline of Level-2 product generation.

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