



First results from Swarm's Absolute Scalar Magnetometers burst mode

Gauthier Hulot (1), Pierre Vigneron (1), Laura Brocco (1), Raul Crespo-Grau (1), Arnaud Chulliat (1), Jean-Michel Léger (2), Thomas Jager (2), François Bertrand (2), Axel Boness (2), and Isabelle Fratter (3)

(1) Institut de Physique du Globe de Paris, Sorbonne Paris Cité, Université Paris Diderot, INSU/CNRS (UMR7154) Paris, France (gh@ipgp.fr), (2) CEA-Léti, Grenoble, France, (3) CNES, Toulouse

Swarm's Absolute Scalar Magnetometers (ASM) provide absolute scalar measurements of the magnetic field with high accuracy and stability on the three satellites of the mission. These ASMs nominally run at 1 Hz. But they can also run at 250 Hz frequency using a so-called "burst" mode. This possibility is to be taken advantage of during commissioning (on-going, at time of writing this abstract). In particular, the burst mode is to be run simultaneously on all three satellites over several days. Although these burst mode sessions were initially driven by the engineering need to explore the high frequency spectral content of the signal measured by the ASMs, they can also be used to look for meaningful high frequency geomagnetic signal. In this poster, the data acquired (by the time of the meeting) will be presented and their main characteristics discussed.