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Introduction of CSES High Precision Magnetometer Data Products and Preliminary Results

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High Precision Magnetometer (HPM) is one of eight payloads onboard China Seismo-Electromagnetic Satellite (CSES), which plans to be launched on February 2018 in low earth orbit with an inclination of 97°. HPM includes two fluxgate magnetometer (FGM) and one Coupled Dark State Magnetometer (CDSM), which can respectively achieve the space magnetic field vector and strength data from DC to 15Hz on 507km altitude.

HPM includes level-0 data and level-1 to level-4 data products. Among these data, level-3 and level-4 data is the thematic products for earthquake applications. Level-2 is the calibrated science data from level-0 and level-2, and will be released to public in the future (registration is needed). Therefore, we will give a detailed introduction of level-2 data product definition, content, format, and some validation methods, as a basic guidance to users who will interested in our products. Finally, based on two months in-orbit results, we hope to present some preliminary results from HPM.