The BepiColombo Quick-Look Analysis system

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The ESA-JAXA BepiColombo mission to Mercury will be launched in late 2018 and will start acquiring science data at Mercury in 2026, after an approximately 7 years interplanetary cruise phase populated by several flybys of the Earth, Venus and Mercury. BepiColombo is a two spacecraft mission composed of the Mercury Planetary Orbiter (ESA/MPO) and the Mercury Magnetospheric Orbiter (JAXA/MMO), carrying in total a set of 16 instruments dedicated to the observation of the planet and its close environment. The BepiColombo Science Ground Segment (SGS), in close collaboration with the Instrument Teams, is designing a Quick-Look Analysis (QLA) web tool that will be used to continuously monitor the spacecraft and instrument health, and most importantly to produce preliminary views of instrument science products acquired throughout the mission. This system aims to rapidly assess the completion of science observations, to feed back into future mission planning, and to maximize the science return of the mission. This web interface will contribute to plan and analyse the data more efficiently, to detect regions or periods of interest, and to analyse the science observations with relevant contextual information from a given instrument, other BepiColombo instruments or from other missions like MESSENGER.