



Directorate of Science: Operations Department



- Overall management of ESA's operational space science missions.
- Science Operations Centres (SOCs) for
 - Astronomy,
 - Heliospheric, and
 - Planetary missions.
- Science Data Centre (ESDC)
 - Enabling discovery & long-term access
- Involved in ~25 missions/studies.
- Over 200 scientists, engineers, etc.























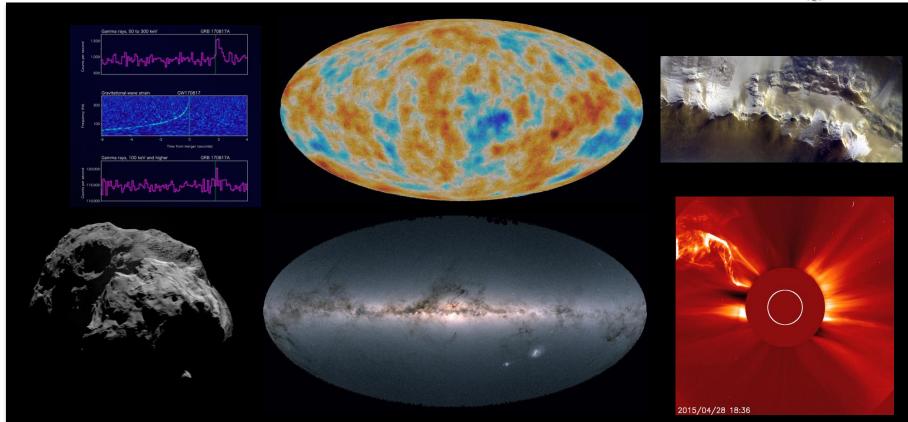






Enabling Science for Europe...





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CUBESAT ACTIVITIES @ ESAC

FERNANDO MARTIN-PORQUERAS







































Cubesat activities at ESAC: Ground Station





Supervisors:

J. Gallegos, F. Martin,
X. Dupac

Ground station:

2016 - Emilio Martinez

2017 - Roger Cano































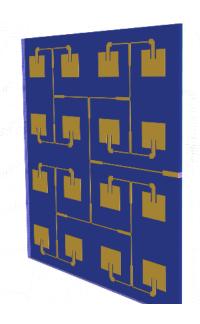




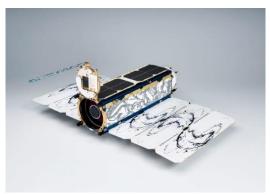
Cubesat activities at ESAC: Scientific case study



> In-orbit radiotelescope calibrator







Supervisors: M. Lopez-Caniego, J. Fauste

Payload Preliminary study (2018) – Mansur Tisaev Preliminary study (2018) - Jesus Mendia

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Cubesat activities at ESAC: Cubesat Initiative for Galileo



- ➤ The Galileo Science Office has supported ETH university in the development of a GNSS in-orbit technology demonstrator for a cubesat (Astrocast). Launch expected between November 15-21 from Vandenberg, California. Rocket: Falcon 9.
- The Galileo Science Office together with the GNSS Scientific Advisory Committee is internally discussing to repeat this experience through a recurrent programme where universities and institutions could participate with proposals for GNSS in-orbit technology demonstrators using cubesats.

