



ESA's Earth Observation in Support of Geoscience

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The intervention will present ESA's Earth Observation Programme and its contribution to Geoscience. ESA's Earth observation missions are mainly grouped into three categories: The Sentinel satellites in the context of the European Copernicus Programme, the scientific Earth Explorers and the meteorological missions.

Developments, applications and scientific results for the different mission types will be addressed, along with overall trends and strategies.

A special focus will be put on the Earth Explorers, who form the science and research element of ESA's Living Planet Programme and focus on the atmosphere, biosphere, hydrosphere, cryosphere and Earth's interior. In addition the operational Sentinel satellites have a huge potential for Geoscience.

Earth Explorers' emphasis is also on learning more about the interactions between these components and the impact that human activity is having on natural Earth processes. The process of Earth Explorer mission selection has given the Earth science community an efficient tool for advancing the understanding of Earth as a system.