

EarthCARE



Customer: Astrium GmbH

Mission objective

As part of the Earth Observation Envelope Programme (EOEP) led by ESA to cover primary research objectives, the EarthCARE mission will be the third Earth Explorer Core Mission. The mission will be implemented in collaboration with Japan Aerospace Exploration Agency who will provide one of the core instruments.

The EarthCARE mission has been specifically defined with the basic objective of improving the understanding of cloud-aerosol-radiation interactions so as to include them correctly and reliably in climate and numerical weather prediction models. EarthCARE will meet these objectives by measuring simultaneously the vertical structure and horizontal distribution of cloud and aerosol fields together with outgoing radiation over all climate zones.

SSTL's role in this mission is to provide a Multi Spectral Imager (MSI) Instrument by development, manufacturing, testing and operations support during Phase B/C/D/E1.