

Satellites
Ground segments
Transversal competencies



ACRI-ST is specialized in the field of space remote sensing for Earth and Space Observation. Its main activities are the collection, archiving, quality control, calibration/validation, processing, analysis and distribution of mass data transmitted by satellites, to improve knowledge of how our planet and universe work for sustainable development and to democratize and share this knowledge.

Our team of more than 90 engineer-researchers work with the whole chain of satellite data. We develop and operate valuable space data services for the space industry, scientists, space agencies and public decision-makers, an essential activity in this era of climate change.

COMPETENCIES & CAPABILITIES

- Satellite Remote Sensing (RS) Earth Observation (EO) Systems
 - R&D in satellite RS applied to environmental issues
 - Engineering for EO mission/instrument specifications
 - Development of Algorithms & Data Processor Validation
- Ground-Segment Operations Systems, Collaborative Exploitation Platform; Mission Performance Centre for all Optical Copernicus Missions (OPT-MPC), Processing Center, Ground Station
- Studies and research on Sciences of the Universe and Astrophysics
- Climate Change & Environmental Monitoring, Forecast & Surveillance
- Development of Decision-Making Tools & Solutions through its operational bodies ARGANS, adwäisEO, ARCTUS and ALBAVALOR
- ICT/Big Data
 - R&D for EO mission Ground Segments & Environmental Engineering
 - High Performance Computing, Data analytics through its subsidiary adwäisEO
- Control and reception operations for Nanosatellite (UHF / VHF bands)
 - R&D
 - Innovation & Incubators
 - Ground Segment as a Service

PRODUCTS & SERVICES

- C-TEP: platform to manage & process EO data for users
- GlobColour (<https://hermes.acri.fr/>)
- Crowdsourcing and satellite data (SCOLive, Jelly fish App) (Contact: scolive@acri-st.fr)
- Satellite data control & receiving stations in ACRI-ST CERGA (Grasse) (Contact: contact@astralink.eu)
- Space observatory in ACRI-ST CERGA (Grasse) (Contact: acristellar@acri-st.fr)
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Combined highly configurable mobile application and web interface to fuse participative reporting (crowdsourcing) and environmental data (mainly from Copernicus). Powerful decision-making tool.

MAJOR SPACE PROJECTS & REFERENCES

Cal/Val

- OPT-MPC Mission Performance of Copernicus optical missions (EU/ESA contract – 2021 - present)
- Towards Copernicus Cal/Val Solution - CCVS (H2020 project) (2021 – 2022)
- Ground-Based Observations for Validations of Copernicus Land service products (GBOV) (EU/JRC contract 2017 – Present)
- Ground-Based Observations for Validation of 3 Sentinel-3 datasets (Water Vapour, Aerosol Optical Thickness and Land Surface Temperature) (LAW) (ESA contract 2020 – 2022)

New sensors

- CO2M & CHIME simulators (EU/ESA/OHB/TAS contracts – 2021 – present)
- Enhanced super-spectral (from VIS to MIR) EO payload demonstrator (SURPRISE, H2020 project – 2020 – present)

Data processing/archiving/distribution

- Sentinels Archiving Center (ALTA) (EU/ESA contract – 2020 – present)
- Earth Observation Data Archiving & Processing Service (DAMPS) (ESA Contract – 2021 – present)
- Sentinel 3 production service (EU/ESA Contract 2021 – present)
- Sentinel 2 reprocessing service (EU/ESA Contract 2022 – present)
- Ground Segment Engineering Services (GSES) (EUMETSAT Contract 2016 – 2020)
- On demand processing CDSE (EU/ESA/T-System/CloudFerro Contract 2022 – present)
- Marine Data store (EU/Mercator/lobelia contract 022 – present)

Software/processors

- Prototypes & operational processors (IPFs) (MERIS, GOMOS, SMOS)
- Sentinel-3 (OLCI, SLSTR, MWR, SRAL) IPFs
- A processor for Fiducial Reference Measurements for Ocean Colour FRM4SOC (EUMETSAT/U. Tartu contract – 2021 – present)
- LSTM level 2 (ESA contract – 2023 – present)
- CHIME level 2 (ESA/DLR contract – 2023 – present)

New Space

- Data reception and distribution (UVSQSAT & INSPIRE SAT7 – Latmos 2021 – present)

Astrophysics

- Machine learning tools for planetary sciences: development, EOSC integration, and portal for Europlanet Research Infrastructure 2024
- Spectro-imaging tools for data fusion: James Webb Space Telescope, Sentinel 2 and 3 missions (INCLASS - ANR Labcom with IAS)
- Explore Platform develops 6 Scientific Data Applications in Stellar, Galactic and Lunar science (H2020 project, 2021 – present)

Oceanography

- Ocean Strategic Services (OSS) project beyond 2015, awarded the Etoile de l'Europe prize
- Copernicus Marine Services (EU/Mercator/CNR – 2018 – present)
- Eurosea (EU/H2020 2019 – present)
- OPFish indicators (EU/JRC 2022-2023)

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TURNOVER 32M€

WORK FORCE 170

SPACE WORK FORCE 150