

Satellites  
Ground segments  
Transversal competencies

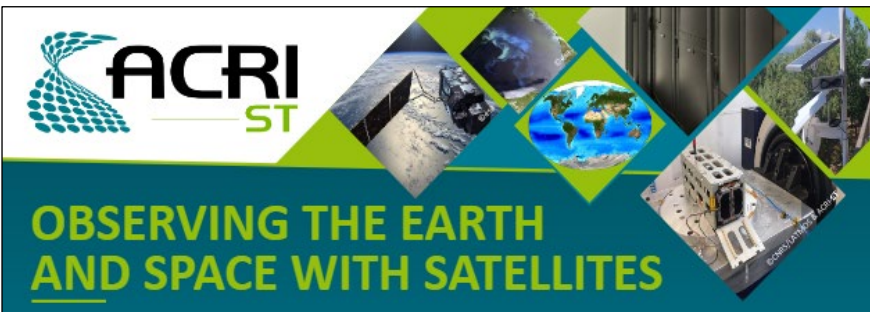


ACRI-ST is specialized in the field of space remote sensing for Earth and Space Observation. Its main activities are the collection, archiving, qualification, validation, processing, analysis and distribution of mass data transmitted by satellites, in order to improve environmental knowledge related to the ocean, land and atmosphere.

Our team of more than 60 engineer-researchers plays a role in the whole chain of satellite data. We develop valuable services and tools for satellite and optical equipment manufacturers, 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; S-2 & S-3 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 subsidiary ARGANS, 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



# ACRI-ST

## PRODUCTS & SERVICES

- Sentinel-3 Processing Archiving Center (S3 PAC)
- C-TEP: platform to manage & process EO data for users
- Earth Observation Data Archiving Service (EODAS)
- Ground Segment Engineering Services (GSES)
- GlobColour (<https://hermes.acri.fr/>)
- Glob Temperature
- Ground-Based Observations for Validations (GBOV)
- SIMPLEX™
- Satellite station in CERGA

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

- ENVISAT, SMOS commissioning, Cal/Val operations + design & update of MERIS, GOMOS & SMOS data processors.
- Spec., design, coding, verification/validation, industrialization of the Sentinel-3 processors (OLCI, SLSTR, MWR, SRAL)
- Prototypes & operational processors (IPFs)
- Operations of Ground Segment components: S2&S3 MPC, SLSTR+SYN PAC, EODAS
- Copernicus Long Term Archive framework
- S&T research in EO, geophysical fluid dynamics & downstream services demo on EC FP7's & H2020's, ESA EOP's, CNES programmes and ANR's funding (MARCOAST AQUAMAR, GlobColour, MyOcean, SENSIFY, SAFI, E-AIMS, Collaborative Exploitation Platform (C-TEP))
- Ocean Strategic Services (OSS) project beyond 2015, awarded the Etoile de l'Europe prize
- Machine learning tools for planetary sciences: development, EOSC integration, and portal for Europlanet Research Infrastructure 2024
- SURPRISE, H2020 project, Enhanced super-spectral (from VIS to MIR) EO payload demonstrator
- Spectro-imaging tools for data fusion: James Webb Space Telescope, Sentinel 2 and 3 missions (ANR Labcom)
- LAW project, Validation of 3 Sentinel-3 datasets (Water Vapour, Aerosol Optical Thickness and Land Surface Temperature)
- Explore Platform (H2020 project), develops 6 Scientific Data Applications in Stellar, Galactic and Lunar science

## POINT OF CONTACT

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**TURNOVER** 19M€

**WORK FORCE** 123

**SPACE TURNOVER** 18M€

**SPACE WORK FORCE** 103