

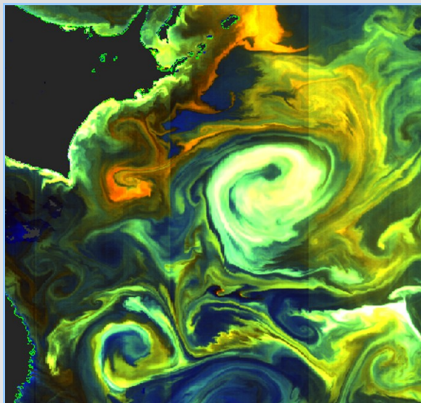
- **MERIS Calibration and Validation:**

Close collaboration with European expert scientists for tool development (e.g. MERIS Match-up In-situ database), assessment, quality control of MERIS scientific products.

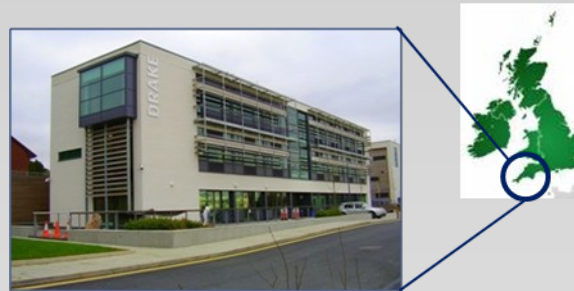


ESA's MERIS Matchup In-situ Database (MERMAID).
www.hermes.acri.st.fr/MERMAID

- **Consultancy:** ARGANS is also involved in remote sensing consultancy both locally and internationally. We provide expert knowledge support/training to those who wish to use EO data to aid decision making either directly or through the assimilation into numerical models.



Images courtesy of ESA (www.esa.int)



ARGANS Offices, Plymouth, UK.



ARGANS

ARGANS (*Applied Research in Geomatics, Atmosphere, Nature and Space*) Limited is an independent customer-oriented industrial company of highly skilled and innovative scientists and engineers, bringing state of the art research to solve industrial, operational and scientific requirements.



Images courtesy of ESA (www.esa.int)

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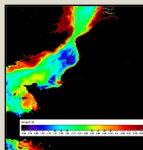
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PROFILE

About the Company

ARGANS, established in 2007, has its operational base in Plymouth, allowing for strong links to marine activities within the South West. Links include the University of Plymouth, and the Plymouth Marine Science Partnership.



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Image: Venice Tower (NASA).



RGB image, Courtesy of ACRI

Internationally, ARGANS is in collaboration with many companies, including ACRI-ST (France), GAEL Consultant (France), and NASA (USA), creating a coherent and complimentary pool of knowledge and the ability to respond effectively to customers' Earth Observation requirements.

Company Objectives:

- Specialism in and a supplier of all phases within Earth Observation missions: system requirements, analysis and ground segment design, mission operation.

- Research activities: ocean colour, atmosphere, soil modelling.
- Develop and operate information services related to the monitoring and forecasting of the Earth's environment.



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Current Activities:

The company's main European Space Agency (ESA) funded activities include:

- **SPPA (Sensor Performance Product Assessment):** Investigation of failures and anomalies found in Landsat, MERIS, MODIS and SeaWiFS products processed by ESA, and provision of advice on their technical status.
- **SMOS (Soil Moisture Ocean Salinity):** Launched in November 2009 to observe soil moisture over the Earth's land masses and salinity over the oceans.
- **Disaster Charter:** Providing consultation support for ESA for the uptake of the international Charter 'Space and Major Disasters' in Africa and establish links with organisations such as GEO and UN.

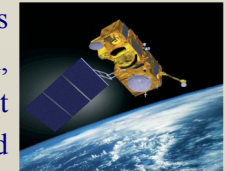


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- **Sentinel-3:** Product and algorithm definition. To be launched in 2013, Sentinel-3 will be devoted to operational oceanography and monitoring the earth. ARGANS is involved in designing/writing processing software for the OLCI and SLSTR instruments.

Sentinel-3 Airborne Campaign:

The campaign combines airborne, satellite and coincident ground activities to provide feedback on key issues related to the definition,



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performance and product quality of the OLCI and SLSTR instruments on Sentinel-3.

- **Water Radiance:** Ocean colour algorithm development and optical modelling; making use of the new Sentinel-3 spectral bands.
- **MERIS Coastal:** Development of the MERIS Bright Pixel Atmosphere correction and conducting laboratory and fieldwork to quantify the near infrared optical signal.



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