

# Research projects for marine coastal remote sensing

## SEALINE (2006)

**Description:** Analysis of Bastia Harbour impact on the surrounding coastal waters by means of satellite images

**Service user:** Bastia Chamber of Commerce; Bastia Coast Guard

**Flyby position:** Partner in the ESA project LHEON

**Flyby role:** Provision of informative products regarding concentrations of substances in sea water

## BIOSHORE (2006-2008)

**Description:** Environmental impact analysis of off-shore extractive platforms by means of physical and biological marine parameters measured by satellite

**Service user:** Eni S.p.A.

**Flyby position:** Prime contractor with ESA

**Flyby role:** Periodic provision of water quality products & assessment of results

## HAPPYSUN (2004-2006)

**Description:** WebGIS services for the touristic enhancement of marine coastal environment.

**Service user:** APT Versilia, Grado Impianti Turistici S.p.A., Baja Sardinia Hotels s.r.l.

**Flyby position:** Prime contractor with ESA

**Flyby role:** Daily provision of informative products including sea water transparency and sea surface temperature

## STRIM (2004)

**Description:** System for the remote sensing of hydrocarbons in marine environment

**Service user:** Italian Space Agency

**Flyby position:** Partner of Telespazio S.p.A.

**Flyby role:** Optical satellite remote sensing responsible

## ROSES (2005)

**Description:** Real-Time Ocean Services for Environment and Security

**Service user:** Italian Ministry of Environment, Land and Sea

**Flyby position:** Partner of Telespazio S.p.A.

**Flyby role:** Daily provision of marine oil spill detection report in Mediterranean Sea by optical satellite remote sensing

## SOOSDE (2003 -open)

**Description:** Satellite Optical Oil Spill Detection Experiment

**Service user:** Flyby internal R&D department

**Flyby position:** Partner of ESA

**Flyby role:** Principal Investigator in developing algorithms for the characterization of hydrocarbons at sea through optical multi & hyper-spectral satellite sensors

## PRIMI (2007-2010)

**Description:** Pilot Project for the Monitoring of Marine Pollution by Hydrocarbons

**Service user:** Italian Space Agency

**Flyby position:** Partner of Telespazio S.p.A.

**Flyby role:** Development of innovative algorithms and software for an operational system aimed at the detection of pollutant hydrocarbons at sea, based on optical satellite images

## LIMES (2006-2009)

**Description:** Land and Sea Integrated Monitoring for European Security

**Service user:** Italian Coast Guard

**Flyby position:** Partner of Telespazio S.p.A.

**Flyby role:** Algorithm development for the detection and classification of naval vessels and terrestrial vehicles by means of satellite and airborne optical images (hyperspectral and thermal)

## EOREA (2005-2006)

**Description:** Earth Observation enhanced Rapid Environmental Assessment

**Service user:** NATO Undersea Research Center (NURC); Hydrographic Institute of the Italian Navy (IIMM)

**Flyby position:** Partner of Satellite Observing Systems Ltd. (SOS)

**Flyby role:** Determination of coastal shallow water bathymetry and seabed classification by means of optical hyperspectral satellite images

