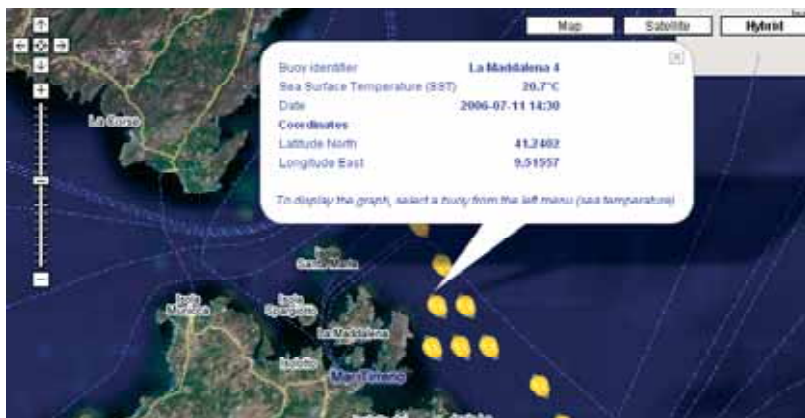


Sea surface temperature

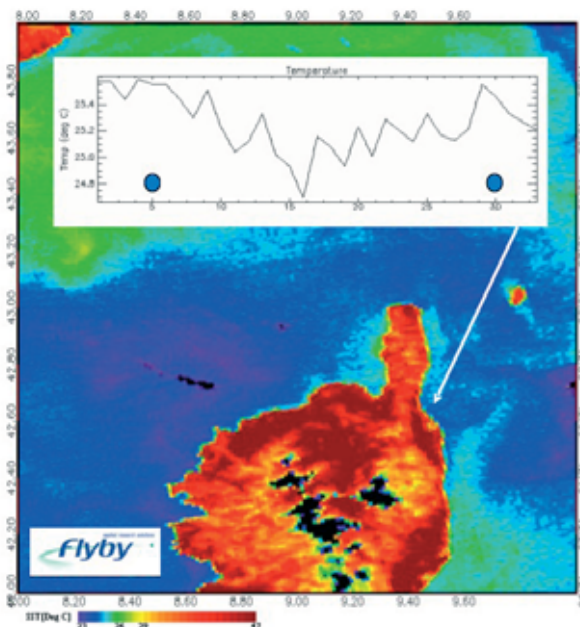
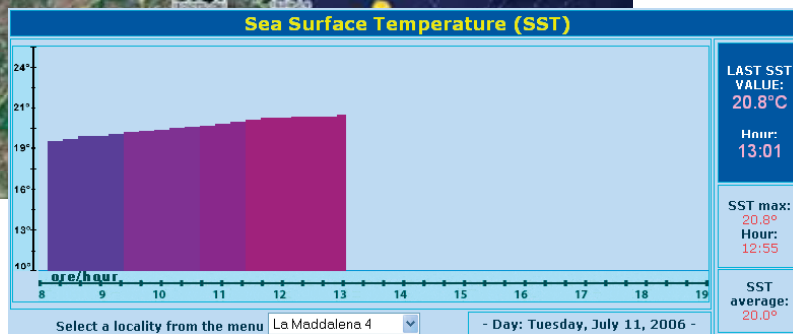
Thanks to satellite imagery exploitation, Flyby s.r.l. is capable to provide in real time the sea surface temperature for any Mediterranean sea area.

The service can be setup for several predefined localities: to each of them a “satellite virtual buoy” is associated, which collects the daily sea temperature evolution.

The service also allows to correlate possible local heating events to other pollution events and to the presence of local discharges into the sea.



Example of “satellite virtual buoy” plus associated graph showing the sea temperature derived from satellite



Sample thematic map for web visualization, derived from satellite image processing. It shows the sea surface temperature plus the associated temperature profile along a portion of the coast.

Sea surface temperature

Measurable parameters

- Sea surface temperature
- In-depth sea temperature (models estimation)

Measuring features

LEO orbit satellites

Periodicity:	1-2 days
Spatial resolution at sea level:	1 km

GEO orbit satellites

Periodicity:	15 min
Spatial resolution at sea level:	3 km

Applications

- monitoring of the heating due to the increase of solar radiation absorption in presence of substances and materials of natural or anthropic origin
- analysis of marine environmental impact by rivers
- detection of industrial discharges or of industrial plants which use sea water for cooling
- environment characterization for beach tourism

