

MEDON - CABLED SEA FLOOR OBSERVATORY

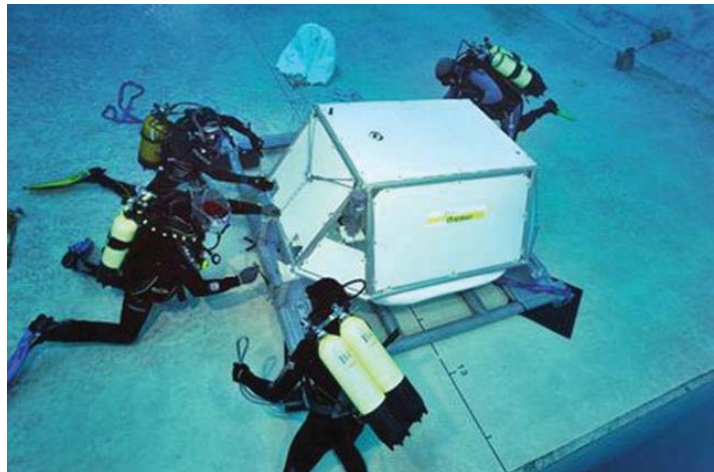
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□ Key words

Advanced engineering (including robotics / control systems) - Communications - Sensors / instrumentation / electronics

□ Description

Some coastal areas require continuous surveillance to follow their evolution along time. Multidisciplinary cabled observatories are well adapted to such continuous and long term monitoring. With MEDON Ifremer provides a new generation of cabled multidisciplinary underwater observatories for coastal areas, based on reliable industrial technologies.



Applications

- Continuous surveillance of marine environment
- Environmental studies
- Surveillance of seismic zones
- Multi-sensors: video images, physical & chemical parameters, currents and waves, acoustic data

Innovative Features

- Remote and virtual control of the instruments (sensors and software)
- Cable transmission capacity up to 1 Gbit/s:

- Typical distance from the coastal: 20 kms
- Water depth down to 4000 meters
- Possible data diffusion towards all users registered to an intermediate server

Validation phase achieved

- Pre-validation in basins
- Validation: a pilot observatory
"MeDON" deployed in the Iroise Sea (North East of Molène island)

