



UMR 6538 OCEAN GEOSCIENCES LABORATORY LGO UBS

LGO is a multidisciplinary geoscience laboratory encompassing geology, geophysics, geochemistry, sedimentology, and paleontology related to paleoclimatology, paleobiosphere and human settlements.

Research is applied to Earth's mantle, crust and surface, paying particular attention to modern and ancient ocean regions. The laboratory examines the ocean bottom and bedrock from the deep seas to the coastal regions and the land-sea interface.

LGO is incorporated into :

- ▶ the European University Institute of the Sea (IUEM).

A few researchers are also part of :

- ▶ the European University Institute of the Sea (IUEM) ;
- ▶ the Naval Hydrographic and Oceanographic Service (SHOM) ;
- ▶ the Centre for Studies and Expertise on Risks, Environment, Mobility, and Urban and Country Planning- Water Sea and Rivers (Cerema - Water Sea and Rivers) ;
- ▶ the Institute for Energy Transition (ITE) France Marine Énergies (FEM).

SCIENTIFIC COLLABORATION

International : UK, Italy, Germany, Spain, Tunisia, Morocco, US, Japan, Brazil, Australia, Ethiopia, Cameroun, Guinea, India, Malaysia

SCIENTIFIC DOMAINS

Marine science
Geology
Geophysics
Ecology
Paleoclimatology

APPLICATION SECTORS

Marine and coastal environments
Marine and coastal human activities
Renewable marine energy
Extreme events and resilience
Initial and continuing training

EXPERTISE

Marine and coastal sedimentology
Sedimentary morphodynamics
Tectonics and structural geology
Dynamic geomorphology
Micro-organisms and biodiversity
Geochemistry
Hydrodynamism and coastal instrumentation
Variable temporal scales
ICZM and human activities

SPECIFIC EQUIPMENT

- ▶ **Topography** : DGPS, tacheometer, Drones
- ▶ **Hydrodynamics** : current meter heave buoys, pressure sensors, CTD probes light seismic waves (Sparker source, Delph system acquisition, 6-trace flutes. Bathymetric sounder Simrad EM3002 (platform mapping 10 - 200m). 5 - 10 bottom seismometers (OBS) MicroOBS model (Ifremer patent). 5 bottom geodetics stations. Mass spectrometer (several) and microphone
- ▶ **Sedimentary dynamics** : Altus©NKE
- ▶ **Sediment removal** : dump, core drilling
- ▶ **Granulometry** : sieve and laser Turbidity, filtration
- ▶ **Softwares** : ArcGis, Mike 21, Swan, KoGeo

EDUCATION

- ▶ **Doctoral school** : Coastal and Marine Sciences (SML). ED SML n°598
- ▶ **Master UBS** – Earth and planets sciences, environnement : Coastal and marine geosciences

TEAM

- 101 members, including
- ▶ 40 researchers (6 UBS)
 - ▶ 26 doctoral students (2 UBS)
 - ▶ 4 engineers UBS

CONTACT UBS

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<http://www.laboratoire-geosciences-ocean-ubs.fr/>

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PARTNERS



KEYWORDS

Coastal environment

Sediment transport

Erosion-Siltation

Morphosedimentary Functioning

Paleoclimatology bioindicators

Marine level