



STAFF

- 101 members, including
▶ 40 researchers (4 UBS)
▶ 26 doctoral students (1 UBS)

CONTACT UBS

Université Bretagne Sud
Site Director:
David MENIER
david.menier@univ-ubs.fr

<http://www.univ-ubs.fr/fr/recherche/strategie/laboratoires/laboratoire-geosciences-ocean-lgo.html>

<http://www-iuem.univ-brest.fr/lgo/fr>

PARTNERS



UMR 6538 OCEAN GEOSCIENCES LABORATORY LGO

LGO is a pluri-disciplinary 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 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 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.
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)
MicrOBS model (Ifremer patent).
5 bottom geodetics stations.
Mass spectrometer (several) and microprobe
Sedimentary dynamics: Altus@NKE.
Sediment removal: dump, core drilling
Granulometry: sieve and laser.
Turbidity, filtration.
ArcGis, Mike 21, Swan, X-Beach, KoGeo software.
Drones.

SCIENTIFIC COLLABORATION

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

KEYWORDS

Coastal environment / Sediment transport / Erosion-Siltation / Morphosedimentary Functioning / Paleoclimatology Bioindicators / Marine level.