



Researchers
in the service of societal issues
related to coastal environments.

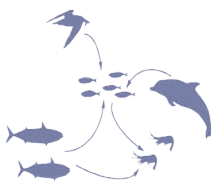


SYSTEM, EVOLUTION, DEVELOPMENT OF THE COASTLINE

Workforce

69 researcher teachers & researchers
39 PhD students
28 Engineers - Technicians
24 under contract
10 researcher teachers under contract

COASTAL ECOSYSTEM



Coastal areas and ecosystems are unique and vulnerable and play a fundamental role in ocean biology.

COASTAL RISKS

Coastlines are affected by global change, with changes in erosion and submersion hazards but also the vulnerability of people living on the coast.



GLOBAL CHANGE



Global change disrupts the physical, chemical and biological conditions of shorelines, leading to physiological adaptations and changes in the organisms that inhabit them.

ATTRACTIVE SPACE

Coastlines are coveted areas within which many uses and socio-economic exchanges develop. They are places of interaction between different categories of people, be they tourists or residents.



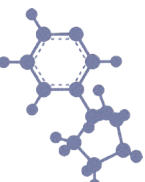
SUSTAINABLE MANAGEMENT

Long-term monitoring of the marine environment helps to understand human-induced pressures on ecosystem sustainability. Observations allow to deduce good practices for sustainable coastal management.



ORGANISMS, BIO-SURVEYS

The functioning of the coastal ecosystem implies a knowledge of the roles and functions of marine organisms. Understanding how they work allows biomass to be valorized by biotechnology and bio-prospecting to produce molecules with health benefits (antibiotic, antidiabetic, anti-tumor ...).



HISTORICAL PERSPECTIVES



Today's coastline is the result of a long history of co-evolution between societies and coastal ecosystems. Studying this story helps as to better understand its current functioning and to shed light on its future evolution.

6 TEAMS

Geographical Approach: Islands, Shorelines, Environment- **AGÎLE**
 Marine responses to environmental variability- **AMARE**
 Biotechnologies and Chemistry of Bioresources for Health - **BCBS**
 Biodiversity and Functioning of Coastal Ecosystems - **BIOFEEL**
 Physical Dynamics of the Littoral- **DPL**
 Spaces, Societies, Territories of Old and New Shores - **ESTRAN**

Expertise and technical means

7 Logistics, Analytical and Technical Platforms
 10 Technical platforms, scientific equipment and experts

Programs in progress

7 European programs

- 2 INTERREG, 1 FP7, 2 H2020, 1 ESA, 1 Aquitaine-Euskadi-Navarre -

19 ANR programs (National Research Agency)

- In progress - INSEPTION, MAMBA, BIOSYS, STORISK, MAPUCE, ILETOP, DELTA, TIREX, POLYSALGUE, CARQUAKES, MAREGAMI, MONUMEN -

- on the 1st of January 2019 - DRIVE, PAMPAS, CUTE, PORTIC, APPROVE, DIGUES, ISOMET -

66 Conventions / Research Programs

3 Fondation de France programs

- LITTOSIM-GEM, INEGALLITO, DYCOFEL -

1 member of the Institut Universitaire de France



Partners



LIENSs works with local authorities, including the New Aquitaine Region, the La Rochelle Urban Community, the Community of Commons of the island of Oléron and the national institutions including the Conservatoire du Littoral.

The research is conducted in partnership with French and foreign laboratories and scientific organizations.

LIENSs has developed partnerships with a dozen foreign scientific institutions.

The laboratory also collaborates with several French companies (Total, Léa Nature, Creocan, Valbiotis, Innov'ia, Seprosys, Flores de Terroirs ...).

Networks

AllEnvi National Research Alliance for the Environment

FRB Foundation for Biodiversity Research

AFB French Agency for Biodiversity

OASU Aquitaine Observatory of Sciences of the Universe of CNRS INSU and MESRI

Acclima Terra Regional Scientific Committee on Climate Change

FREDD Environmental Research Federation for Sustainable Development

INCREASE International Consortium on Eco-conception and renewable resources

SOMLIT Observation Service in the Middle Littoral

RESOMAR networks of stations and marine observatories

CNES National Center for Space Studies

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Research Training

Master of Science, Technology, Health

Mention Science for the Environment

Environmental Management and Coastal Ecology
 Geography course applied to coastal management
 Geosciences and Geophysics of the Littoral
 Environmental Management

Mention Biotechnology

Biochemistry
 Biotechnology and agro-industries management
 Applied Blue Biotechnology (teaching in English and open to alternating training with SMEs)

PhD with UMRi LIENSs

EUCLEIDE DOCTORAL SCHOOL AT THE UNIVERSITY OF LA ROCHELLE
 topics online on the lab website

Contact

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