



Equipment

The purpose of the research video station is to observe and study the physical processes that control coastal dynamics in a man-made environment subject to wave action and under the influence of a river mouth. The station is composed of a system with several cameras installed 60 m off the ground at the top of the Biarritz lighthouse. The cameras are operated using the open-source software [SIRENA](#) which compiles different types of images and transfers them via the Internet to the SIAME laboratory in Anglet.

This non-intrusive measurement system can be used to study:

- How beaches respond to a storm event.
- How protective structures respond to a storm event.
- The influence of protective structures on hydrodynamics.
- The spatiotemporal evolution of a river plume.
- The development of bathymetric and topographical models.
- Tests and validation of numerical models.

Partners:

- The SIAME laboratory would like to thank the DIRM SA / DSCM / Bayonne subdivision for lighthouses and beacons for granting it access to the Biarritz lighthouse.
- The project received financial support from the Spain-France-Andorra territorial cooperation program [POCTEFA](#) as part of the Pre2Pla project.

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