

Conférence Méditerranéenne Côtière et Maritime EDITION 3. Video Monitoring of soft coastal defenses at the Lido of Sete, France

The feedback on soft techniques against erosion is still limited nowadays, and does not allow to determine if such techniques are efficient or not, and if they are applicable to similar environments. The site of the Lido of Sete is currently evaluating these techniques and thus provided an outstanding natural setting to analyze coastal behavior associated with soft defenses. An Argus video monitoring system was deployed in 2011 to survey this area. The monitoring before, during and after the management works permitted to describe the natural evolution of the beach and nearshore area, and the morphological response following the deployment of a submerged geotextile wave breaker. The bar system, characterized by well-developed crescentic patterns was linearized and progressively rotated to become parallel to the geotextile. Consequently, the beach began the same rotation, inducing a shoreline advance of 15m. After this period of adaptation, the system of bar/shoreline remained quite stable, and morphological response to storm events significantly decreased as it was observed during the storm of November 2014. These results indicate a quite efficient response of the site to the deployment of the geotextile.

Additional surveys of the wave breaker state are currently undertaken by the local authority to obtain a full feedback on the resistance and durability of this kind of protection against coastal erosion.

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