

Newsletter #3 WEST Project

March 22 2022

General information

Experiments related to WP1 and WP2 have started recently at Porsmilin beach. Two abstracts focusing on the innovative methodologies employed in the framework of WP1 and WP2 experiments were submitted and accepted for the GCGC conference (Chatou, October 2022). WEST project and objectives will be presented during DYNALIT General Assembly (Brest), ASF conference (Brest), as well as during IFQM Summer school (July 18th-22nd) (Bordeaux).

WP1. The seabed platform built by Eloi Droniou (DynamOcean) has been delivered to IUEM and deployed three times since the beginning of 2022. The first deployment (January 24th) aimed at improving the logistics of the platform mobilization and demobilization. Some conception improvements were then made before the second test that took place on January 28th, during which the platform was deployed with some instruments



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during an entire tidal cycle, in order to check the platform robustness to waves. For the third test (February 28th) all instruments (except Ub-LaB 3C) were mounted on the platform and programmed based on the experience acquired during tests 1 and 2 to record hydrodynamic data during an entire tidal cycle. Rapid reports on those deployments and additional documents are made available on WEST's Google drive.



March 1st-4th: Ub-LaB 3C validation in the LEGI flume, in Grenoble. With David Hurther. First data obtained with the new system seem reliable, although a measurement bias is observed, which is likely due to geometry configuration.

WP2. The first deployment of the stereo-video system took place on February 28th at Porsmilin beach, during rising tide. The objectives were threefolds : to test the installation of the cameras on the 5m high tower in the swash zone, to check the sensor calibration and synchronisation protocols in the field, and finally to get a first image of what could be observed. It turns out that the methods developed for the calibration and synchronisation are reliable and operational. Now the focus is on the improvement of the logistics implicated in the deployment of such a facility. The next acquisition will be done at a lower level on the beach, so as to record data closer to the waves.



Coming dates

March 31st: regular bathymetric and topographic acquisitions at Porsmilin beach

Mid-April: delivery of Ub-Lab 3C by Stéphane Fischer (Ubertone) and in situ field experiments (WP1 & WP2)

May 11th-12th: DYNALIT General Assembly

September 27th-29th: Congrès de l'Association des Sédimentologues français (ASF), Brest

If you wish to have particular information published in the next newsletter, please contact France.floch@univ-brest.fr or Noemie.fritsch@univ-brest.fr