Application of the NEAREST Tsunami Detection Algorithm to tide gauge data of Arena Cove, CA and Cordova, AK. An example of a synergy in the field of tsunami Early Warning within CoopEUS framework.

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The development of Tsunami modeling and Tsunami Early Warning Systems able to operate in near-source areas is a common need for many coastal regions like Mediterranean, Juan de Fuca/NE Pacific Coast of North America, Indian Ocean archipelagos and Japan. These regions with the important exception of Mediterranean and North East Atlantic are presently covered by Tsunami Warning Systems and Ocean Bottom Observatories, in the frame of EMSO, OOI and ONC ocean networks equipped with a varieties of sensors, using different technologies, data formats and detection procedures. A significant improvement in efficiency, cost saving and detection reliability can be achieved by exchanging technologies and data and by harmonizing sensors metadata and instrument settings.
To undertake a step in this direction we propose to apply the Tsunami Detection Algorithm, which was developed in the framework of NEAREST EU project for open ocean data in near source areas and is presently used by NEMO-SN1 EMSO abyssal observatory, to the tide gauge data of Arena Cove, CA and Cordova, AK. We show the first results of the application of the algorithm.