NOOS annual report 2016

Member report – IMI

Country	Ireland
Institution	Marine Institute
Observations	Status:
	 Weather buoy network consisting of 5 platforms (4 on shelf around Irish coast and 1 deep sea west of Porcupine Bank). Real time measurements of air pressure, air temperature, wind, sea temperature, wave height and period (the 4 coastal platforms measure wave spectra) 4 spectral wave buoys located on west coast of Ireland. Real time wave spectral and statistics data 12 operational tide gauges around Irish coast providing water level data in real time. Several monitoring cruises to collect physical, chemical and biological (esp. fisheries) data Subsea observatory in Galway Bay with real time current profile and bottom temperature and salinity data New initiatives: New stations being added to tide gauge network
	Acoustic buoy to be deployed in Galway Bay
Modelling	 Baroclinic (ROMS 3.6) model of northeast Atlantic (1-2 km resolution) with 2 nested models (~200 metres resolution) for west and southwest Ireland. Daily 3-day forecasts Wave model (SWAN) of IBI region waters (0.025 degree resolution). Daily 6-day forecasts New initiatives:
	under development:
	 Flexible mesh model of Clew Bay (west coast of Ireland) Flexible mesh model of Killary Harbour (west coast of Ireland) planned for 2017
Dissemination	Status:
	 Data available via data.gov.ie (central government portal) Data available on our ERDDAP data server (erddap.marine.ie) New initiatives: Web-based Lagrangian modelling application
	Web viewer for model forecasts
Relevant National Projects	 National Flood Forecasting Service is being launched, led by Met Eireann (national weather forecasting centre) Collaboration with other agencies in development of renewable energy sector Oceanographic service report for Fisheries and Marine Environment Climate change support for national impact and adaptation planning
Relevant international	CMEMS (Copernicus Marine Environment Monitoring Service). We are coresponsible for IBI MFC biogeochemical modelling service

Projects	 Partner in Atlantos with involvement in Work Packages 1, 4 and 8
	 Partner in H2020 Tapas project – development of tools for sustainable
	aquaculture
	Full member of EuroArgo and EMSO ERICs
	Partner in Jerico-NEXT
	 We are partners in a number of Interreg Atlantic Area proposals which have yet to go through final evaluation