

Announcement

From multidisciplinary data to integrated information for coastal areas

The H2020 project JERICO-next will organize a summer school on the use of integrated physical and biological monitoring with novel sensor methods for water management issues such as the Marine Strategy Framework Directive.

The JERICO-next project develops the European network of coastal observatories, including novel sensor methods such as HF radar (for current patterns) and imaging flow cytometry (for phytoplankton functional types and species determination). During this summer school, students will get an introduction and overview on the current state of the art of European coastal observatories and on-going new developments in this field. The new developments include sensor development for a range of ocean variables, the data management and dissemination of large amounts of sensor data, the integration between different types of data and variables and the final use to answer policy questions in coastal waters.



Students will do hands-on exercises on the use of multidisciplinary data in an integrated way, including morphology, hydrodynamics, ecology, chemistry, meteorology, governance. The Sand Motor (see photo) will be used as central showcase and visited for field work during the week.

The summer school will be held from 19-23 June 2017 (Monday – Friday) in a coastal resort near The Hague in the Netherlands. The Sand Motor coastal observatory is close by and will be used for field work in integrated physical and biological monitoring.

The course is geared for early career scientists and scientifically oriented early career marine spatial planners (MSP). There will be a maximum of 30 participants. The summer school programme has no course fees. However, students are expected to arrange for their own funding for accommodation (150 Euro per student for the week), travel and meals.

If you are interested in attending this summer school, please send an application letter with your motivation for joining the course along with your CV and letter of recommendation to jericonext-summer-school-2017@deltares.nl before March 15th 2017. Notifications for admission will be sent before April 1st 2017. Please mind timely visa procedures.

Programme

Time	Subject
Monday - morning	<ul style="list-style-type: none"> ● Welcome ● Introduction to course ● Introduction to JERICO-next ● Introduction to NatureCoast ● Introduction to coastal observatories (ICON)
Monday - afternoon	<ul style="list-style-type: none"> ● Students introduce themselves ● Objectives of marine monitoring ● Introduction into MSFD and monitoring
Tuesday - morning	Monitoring , introduction <ul style="list-style-type: none"> ● drone for vegetation and dune development ● ARGUS video ● HF-radar (incl. Xband radar?) ● Flowcytometry ● Bathymetry by jetski
Tuesday - afternoon	Field measurements: monitoring at beach Sand Motor: jetski, quad and RTK-carrier practical
Wednesday - morning	Data interpretation <ul style="list-style-type: none"> ● Introduction with interesting examples ● NatureCoast effects observed ● MSFD - eutrophication ● Analysis of multi-disciplinary data
Wednesday - afternoon	Integration of multidisciplinary data: <ul style="list-style-type: none"> ● Introduction ● Exercise integration of satellite data with google earth engine ● Hands-on exercise
Thursday - morning	Introduction to data management: <ul style="list-style-type: none"> ● European data landscape ● Data management and sharing ● Archiving and publishing citable data ● Portals for data dissemination
Thursday - afternoon	Integration of multidisciplinary data <ul style="list-style-type: none"> ● Introduction ● Hands-on exercise
Friday – morning	Presentations of integrated analyses by students
Friday - afternoon	Look into the future Wrap- up & evaluation