

C-CORE 2.13 Coastal resource mapping of mangroves, coral reefs, wetlands, and sandbanks

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Challenge

Challenge ID	C-CORE_OFF2.13
Title	Coastal resource mapping of mangroves, coral reefs, wetlands, and sandbanks
Challenge originator:	
General Description	
What data/products do you use?	Data currently collected through shoreline, small boat, and dive surveys but satellite imagery has been used to help with broad classification
When do you use this kind of dataset?	When offshore production transported to shore via pipeline, or operation requires construction of a terminal and has associated shipping with potential of oil spills in nearshore environment
What are your actual limitations and do you have a work around?	EO products have been used in some cases but are expensive. Using EO products for this would still require on-the-ground validation, but if area is extensive, assessment in this way would save time and could easily be repeated on a seasonal basis.
Needs and expectations on EO data	High resolution maps that will allow characterization/ classification of inter and sub-tidal and nearshore environment High resolution maps that will allow characterization/ classification of coral reefs
Challenge classification	
Pre license	1
Exp.	1
Dev.	1
Prod.	1
Decom.	1
Geographic context/ restrictions	- South China Sea, Falkland Islands, Myanmar
Topographic classification / Offshore classification	Shallow Water
Activity impacted /concerned	Strategic decision enabler
Technology Urgency	Mid-Term (5-10 years)
Information requirements	
Update frequency	One-off, perhaps every few years might be helpful One-off for initial assessment and monthly for monitoring purposes

Temporal resolution	Seasonal
Spatial resolution	1m
Data quality	High
Data Coverage and extent	District area, vessel route and onshore site
Example format	High resolution image
Timeliness	Reference data - timeliness not important
Existing standards	Huang, Weigen, Fu, Bin. 2002. <i>Remote Sensing for Coastal Area Management</i>. Laboratory of Ocean Dynamic Processes and Satellite Oceanography Second Institute of Oceanography State Oceanic Administration Hangzhou, People's Republic of China in China. <i>Coastal Management</i>, 30:271–276, 2002. UNEP, 2005. Wilkinson, C., DeVantier, L., Talaue-McManus, L., Lawrence, D. and D. Souter. South China Sea, GIWA Regional assessment 54. University of Kalmar, Kalmar, Sweden. BOBLME (2011) Country report on pollution – Myanmar. BOBLME-2011-Ecology-14

Relevant products

Content by label

There is no content with the specified labels