CLS-2.6: Drilling Survey preparation : Environmental conditions

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Challenge

CLS_OFF.2.6 : Drilling Suvrey preparation : Environmental conditions

1	Challenge ID	CLS_OFF.2.6				
2	Title	Drilling Survey preparation : Environmental conditions				
3	Originator of Challenge	CGG				
	General description					
4	What data/products do you currently use ?	For survey preparation: • Environmental conditions in relation with streamer biofouling • Marine mammal habitats & climatology • Impact of the noise for animals • Sound velocity in first layer during the survey for streamer • Sensor positioning and 3D for imagery processing (direct in-situ measurement)				
5	When do you use this kind of dataset?	These data are needed during the Survey preparation. They are helpful for estimating the impact of the drilling on the environment, for ballasting of in-sea equipment during the survey.				
6	What are your actual limitations and do you have a work around?	n/a				

7	Needs and expectations on EO data	• Have an access to satellite data : SST, Color, SSS, altimetry
		• Being able to generate these products with EO data:
		  • Buoyancy perturbation: sinking of streamers,
		  • Upwelling of water of different properties: visible images, micro structures.
		  • Retroflected eddies (geometry of acquisition perturbed)
		• Altimetry: satellite data known but not used.
		• Global comment: Some companies don't, usually, buy directly data (SST, Color etc…), except may be SAR images. These parts are provided by service companies.
		
		EO products improvement :
		Synoptic data, more data at low latitudes.
		Better coordination between satellite missions for a better coverage.				

	Challenge classification					
8	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact			4		
9	Geographic context/restrictions	Offshore operations / worldwide				

10	Topographic classification / Offshore classification	All offshore area except Inland sea / lake
11	Activity impacted/concerned	Safety navigation, operation efficiency
12	Urgency (How quickly does the user need the solution)	Immediate (0-2 yrs)
	Information requirements	
13	Update frequency	Daily for operation
14	Temporal resolution	hourly
15	Spatial resolution	1-10km / depth up to 100-200m or deeper
16	Data quality	good
17	Data Coverage and extent	Over survey area, typically 100km x 100km
18	Example formats	GIS format, netCDF…
19	Timeliness	RT application as fast as possible
20	Existing standards	n/a

Relevant products

Content by label

There is no content with the specified labels