CLS-3.1: Recommendations for the design of the structure

Recommendations for the design of the structure

Challenge

CLS_OFF.3.1: Recommendations on the design of the structure

1	Challenge ID	CLS_OFF.3.1				
2	Title	Recommendations for the design of the structure				
3	Originator of Challenge	TECHNIP/SAIPEM				
	General description					
4	What data/products do you currently use ?	 Profile of current for 95% occurrence, 1y, 10y and 100y return period Extreme wave event data (H/T for 1y,10y,100y return period) Wave scatter diagram (H/T) based on annual recording Wind, Wave and current data 				
5	When do you use this kind of dataset?	These extreme event data are useful during project development phase for the design of structures.				
6	What are your actual limitations and do you have a work around?	Actual limitations: Very low level of correlated data, i.e. we know well independently current velocities/directions, wave height/period/direction but have very low correlated data (which current to be associated to such extreme wave). Current profile trough the water depth considered unidirectional. Wave scatter diagram based on annual recording are often given omnidirectional (better for us to have one scatter per direction).				
7	Needs and expectations on EO data Challenge classification	Data provide by Company, so no work around as no way to act on it. When no correlated data exist, we combine even in a conservative way (max value of everything in the most critical combination of directions)				
8	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact	Tre ficense	E.Ap.	4	1100.	Become
9	Geographic context /restrictions	All over the world but some parameters are more predominant in some region; exemple: current important in West Africa and wave predominant in Brazil				
10	Topographic classification / Offshore classification	Deep water to very deep water (around 1800m)				
11	Activity impacted /concerned	Design of Riser: Best estimation of environmental conditions could optimize Riser design, structural support design, Major cost impact				
12	Urgency (How quickly does the user need the solution)	Immediate (0-2 yrs); Short term (2-5 yrs);				
	Information					
13	requirements Update frequency	Annual				

14	Temporal resolution	Every 1h/3h;
15	Spatial resolution	1km
16	Data quality	Geo-stationary referred to a specific location
17	Data Coverage and extent	Geo-stationary
18	Example formats	Text, excel, GEOTIFF, GIS
19	Timeliness	Around a week
20	Existing standards	Yes, quality systems in place internally

Relevant products

Content by label

There is no content with the specified labels