# CLS-3.4: Metocean forecast to avoid down time

## Metocean forecast to avoid down time

## Challenge

### CLS_OFF.3.4 : Metocean forecast to avoid down time

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Challenge ID | CLS_OFF.3.4 | | | | |
| 2 | Title | Metocean forecast to avoid down time | | | | |
| 3 | Originator of Challenge | Tullow Oil | | | | |
| | General description | | | | | |
| 4 | What data/products do you currently use ? | Consultancy,<br>Metocean model data Hycom, ECMWF, NCEP | | | | |
| 5 | When do you use this kind of dataset? | The main use of these forecast data is to look for a weather window to conduct operations. | | | | |
| 6 | What are your actual limitations and do you have a work around? | n/a | | | | |
| 7 | Needs and expectations on EO data | n/a | | | | |
| | **Challenge classification** | | | | | |
| 8 | Lifecycle stage | Pre license | Exp. | Dev. | Prod. | Decom. |
| | Score from impact | | | 4 | | |
| 9 | Geographic context/restrictions | • West Africa<br>• French Guyana<br>• Namibia<br>• Mozambique Channel | | | | |
| 10 | Topographic classification / Offshore classification | • Shallow Water (satellite bathymetry)<br>• Deep Water<br>• Inland Lakes (Africa) | | | | |
| 11 | Activity impacted/concerned | H&S benefit; Due diligence tool; Operational cost reduction; Increased production; Strategic decision enabler | | | | |
| 12 | Urgency<br>(How quickly does the user need the solution) | n/a | | | | |
| | **Information requirements** | | | | | |
| 13 | Update frequency | Daily,<br>One shot<br>Squall warning: daily update/ twice daily | | | | |
| 14 | Temporal resolution | Tidal: hourly<br>Current: daily if nothing else is available<br>Monthly mean | | | | |
| 15 | Spatial resolution | 1m, 100m, 1 km etc / 1:50000, 1:25000 etc..<br>¼° for model<br>SAR image 1/150000 | | | | |
| 16 | Data quality | Higher for lakes<br>Very important during operations | | | | |
| 17 | Data Coverage and extent | Along track, programmable | | | | |

| | | |
|---|---|---|
| 18 | Example formats | e.g. GeoTIFF, Report, GIS formats etc...<br>raw data and geotiffs |
| 19 | Timeliness | Squall: up to date<br>Metocean: that day |
| 20 | Existing standards | looking for OGP standards |

# Relevant products

**Content by label**

There is no content with the specified labels