# CLS-3.2: Coastal morphology

## Coastal morphology

## Challenge

### CLS_OFF.3.2 : Coastal morphology

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|---|---|---|---|---|---|---|
| 1 | Challenge ID | CLS_OFF.3.2 | | | | |
| 2 | Title | Coastal morphology | | | | |
| 3 | Originator of Challenge | SAIPEM | | | | |
| | General description | | | | | |
| 4 | What data/products do you currently use ? | Satellite images of coastline (historical images) | | | | |
| 5 | When do you use this kind of dataset? | Mainly during the design of structures | | | | |
| 6 | What are your actual limitations and do you have a work around? | The main limitation is the spatial resolution of images which is sometime larger than the expected variations of the shoreline position | | | | |
| 7 | Needs and expectations on EO data | Improved spatial resolution | | | | |
| | **Challenge classification** | | | | | |
| 8 | Lifecycle stage | *Pre license* | *Exp.* | *Dev.* | *Prod.* | *Decom.* |
| | Score from impact | | | 4 | | |
| 9 | Geographic context /restrictions | All over the world | | | | |
| 10 | Topographic classification / Offshore classification | Coastal areas | | | | |
| 11 | Activity impacted /concerned | H&S benefit; Due diligence tool; Operational cost reduction | | | | |
| 12 | Urgency (How quickly does the user need the solution) | 3 – immediate (0-2 yrs) | | | | |
| | **Information requirements** | | | | | |
| 13 | Update frequency | Every 2 months | | | | |
| 14 | Temporal resolution | Not appropriate | | | | |
| 15 | Spatial resolution | 1m | | | | |
| 16 | Data quality | n/a | | | | |
| 17 | Data Coverage and extent | Geo-stationnary | | | | |

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|---|---|---|
| 18 | Example formats | Text, excel, GEOTIFF, GIS…format is not a problem |
| 19 | Timeliness | 2 weeks |
| 20 | Existing standards | Yes, quality systems in place internally |

## Relevant products

**Content by label**

There is no content with the specified labels