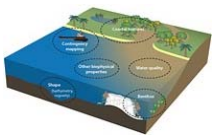


MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX CSER 8 April 2010















Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels



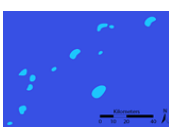

| SENSOR Type Platform | | | | | Icon | Passive | | | | | | | Active | | | | Field | | | | | |
|---|-------------------------|----------------------|--------------|-------------------|--------------|----------------|--------------|-----------|----------------|-----------|-----------|-------------|----------|-----------|----------|-----------|--------|--------|-------------|----|----|----|
| | | | | | | Multi-spectral | | | Hyper-spectral | | | Photo graph | Radar | | Laser | Acoustic | Visual | | | | | |
| | | | | | | Airborne | Satellite | Satellite | Airborne | Satellite | Satellite | Airborne | Airborne | Satellite | Airborne | Boat/ ROV | Boat | Diving | Snorkelling | | | |
| PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m > | | | | | Icon | Fine | Fine | Medium | Fine | Medium | Coarse | Fine | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | | | |
| Parameter and environment | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Seagrass habitats | presence/absence | Presence/absence | Intertidal | Exposed | | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | nf | nf | nf | | |
| | | | | Submerged | Clear | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | f | O | | |
| | | | | | Clear-turbid | | O\$ | O\$ | O | O | f | nf | O | nf | nf | nf | nf | O | f | O | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | Subtidal | Shallow | Clear | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | fp | O | O\$ | O | | |
| | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | fp | O | O\$ | O | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O\$ | O | | |
| | | | | Deep | Clear | | O\$ | O\$ | O | O\$ | f | nf | nf | nf | nf | nf | f | O | O | nf | | |
| | | | | | Clear-turbid | | O\$ | O\$ | nf | O\$ | f | nf | nf | nf | nf | nf | f | O | O | nf | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | % Cover | Percent cover | Intertidal | Exposed | | | O\$ | O\$ | O | O\$ | f | OE | f | nf | nf | nf | nf | nf | nf | nf |
| | | | | | | Submerged | Clear | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | f | O |
| | | | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | f | O |
| | | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O |
| | | | | | Subtidal | Shallow | Clear | | O | O | O | O\$ | f | OE | O | nf | nf | nf | fp | O | O | nf |
| | | | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | fp | O | O | nf |
| | | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf |
| | | | | | | Deep | Clear | | O | O | O | O\$ | f | nf | nf | nf | nf | nf | f | O | O | nf |
| | | | | | | | Clear-turbid | | nf | nf | O | O\$ | f | nf | nf | nf | nf | nf | f | O | O | nf |
| | | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | cover type (to species) | Species | Intertidal | Exposed | | | O | O | nf | O | nf | nf | fp | nf | nf | nf | nf | nf | nf | nf | | |
| | | | | Submerged | Clear | | O | O | nf | O | nf | nf | fp | nf | nf | nf | nf | O | f | O | | |
| | | | | | Clear-turbid | | O | O | nf | O | nf | nf | fp | nf | nf | nf | nf | O | f | O | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | Subtidal | Shallow | Clear | | O | O | nf | O | nf | nf | fp | nf | nf | nf | fp | O | O | nf | | |
| | | | | | Clear-turbid | | O | O | nf | O | nf | nf | fp | nf | nf | nf | fp | O | O | nf | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | Deep | Clear | | O | O | nf | O | nf | nf | fp | nf | nf | nf | f | nf | O | nf | | |
| | | | | | Clear-turbid | | nf | nf | nf | O | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | biomass | Biomass | Intertidal | Exposed | | | O | O | nf | O | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | | |
| | | | | Submerged | Clear | | f | O | nf | O | nf | nf | O | nf | nf | nf | nf | O | f | O | | |
| | | | | | Clear-turbid | | f | O | nf | O | nf | nf | O | nf | nf | nf | nf | O | f | O | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | Subtidal | Shallow | Clear | | O | O | nf | O | nf | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | | Clear-turbid | | O | O | nf | O | nf | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | Deep | Clear | | O | O | nf | O | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | Clear-turbid | | nf | nf | nf | O | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| ≥ 40%) | Intertidal | Exposed | | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | nf | nf | nf | nf | | | |
| | | Submerged | Clear | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | f | O | | | | |
| | | | Clear-turbid | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | f | O | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

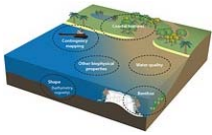


MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX CSER 8 April 2010

Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels

| SENSOR Type Platform | | Passive | | | | | | | Active | | | | Field | | |
|---|------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Multi-spectral | | | Hyper-spectral | | | Photo graph | Radar | | Laser | Acoustic | Visual | | |
| | | Airborne | Satellite | Satellite | Airborne | Satellite | Satellite | Airborne | Airborne | Satellite | Airborne | Boat/ ROV | Boat | Diving | Snorkelling |
| PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m > | | Fine | Fine | Medium | Fine | Medium | Coarse | Fine | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Parameter and environment | Icon |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Benthos | Cyano bacterial bloom (e.g. <i>Lyngbya majuscula</i>) | % cover (above ) | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O |
|---------|--|---|------------|--------------|--------------|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|-----|-----|-----|
| | | | Subtidal | Shallow | Clear | | O | O | O | O\$ | f | OE | O | nf | nf | nf | nf | O | O | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | O | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | O | nf |
| | | | | Deep | Clear | | O\$ | O\$ | O | O\$ | f | OE | O | nf | nf | nf | nf | O | O | nf |
| | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf |
| | | Composition and Biomass  | Intertidal | Exposed | | | fp | fp | nf | fp | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf |
| | | | | Submerged | Clear | | fp | fp | nf | fp | nf | nf | nf | nf | nf | nf | nf | O | f | O |
| | | | | | Clear-turbid | | fp | fp | nf | fp | nf | nf | nf | nf | nf | nf | nf | O | f | O |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | f | O |
| | | | Subtidal | Shallow | Clear | | fp | fp | fp | fp | nf | nf | nf | nf | nf | nf | fp | O | O | nf |
| | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf |
| | | | | Deep | Clear | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf |
| | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf |
| | | Cover type at reef system scale  | Intertidal | Exposed | | | O\$ | O\$ | O\$ | O\$ | O | O | O\$ | nf | nf | nf | nf | nf | nf | nf |
| | | | | Submerged | Clear | | O\$ | O\$ | O\$ | O\$ | O | O | O\$ | nf | nf | nf | nf | nf | nf | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O\$ | O\$ | O | O | O\$ | nf | nf | nf | nf | nf | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf |
| | | | Subtidal | Shallow | Clear | | O\$ | O\$ | O\$ | O\$ | O\$ | O | O | nf | nf | nf | nf | nf | nf | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O\$ | O\$ | O\$ | O | O | nf | nf | nf | nf | nf | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf |
| | | | | Deep | Clear | | O\$ | O\$ | O\$ | O\$ | O\$ | O | nf | nf | nf | nf | f | nf | nf | nf |
| | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | nf | nf |
| | | cover type at reef scale  | Intertidal | Exposed | | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | nf | nf | nf | nf |
| | | | | Submerged | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | nf | O | nf | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O\$ | O\$ | O\$ | OE | O | nf | nf | nf | nf | O | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf | nf |
| | | | Subtidal | Shallow | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | fp | O | nf | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | nf | fp | O | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | nf | nf |
| | | | | Deep | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | nf | nf | nf | nf | f | nf | nf | nf |
| | | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | O\$ | OE | nf | nf | nf | nf | f | nf | nf | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | nf | nf |
| | | ver type at geomorphic zone scale | Intertidal | Exposed | | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | nf | nf | nf | nf |
| | | | | Submerged | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | nf | O | O\$ | O\$ |
| | | | | | Clear-turbid | | O\$ | O\$ | O\$ | O\$ | O\$ | OE | O | nf | nf | nf | nf | O | O\$ | O\$ |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | O\$ | O\$ |
| | | | Shallow | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | f | fp | O | O\$ | nf | nf |
| | | | | Clear-turbid | | O\$ | O\$ | O | O\$ | O\$ | OE | O | nf | nf | nf | fp | O | O\$ | nf | nf |

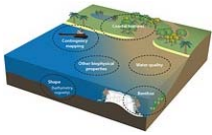


MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX CSER 8 April 2010

Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels

| SENSOR Type Platform | | | | | | Icon | Passive | | | | | | Active | | | | Field | | | | | | |
|---|----------------------|---------------------------------------|----------|------------|--------------|--------------|----------------|-----------|-----------|----------------|-----------|-----------|-------------|----------|-----------|----------|-----------|--------|--------|-------------|-----|-----|----|
| | | | | | | | Multi-spectral | | | Hyper-spectral | | | Photo graph | Radar | | Laser | Acoustic | Visual | | | | | |
| | | | | | | | Airborne | Satellite | Satellite | Airborne | Satellite | Satellite | Airborne | Airborne | Satellite | Airborne | Boat/ ROV | Boat | Diving | Snorkelling | | | |
| PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m > | | | | | | | Fine | Fine | Medium | Fine | Medium | Coarse | Fine | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | | | |
| Parameter and environment | | | | | | Icon | | | | | | | | | | | | | | | | | |
| | | | Subtidal | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O\$ | nf | | | |
| | | | | Deep | Clear | | O\$ | O\$ | O | O\$ | O\$ | OE | nf | nf | nf | nf | nf | nf | f | nf | O\$ | nf | |
| | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O\$ | nf |
| | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O\$ | nf |
| | | % cover for benthic community | | Intertidal | Exposed | | | O\$ | O | nf | O\$ | nf | nf | O | nf | nf | f | nf | O | nf | nf | | |
| | | | | | Submerged | Clear | | O\$ | O | nf | O\$ | nf | nf | O | nf | nf | nf | nf | O | O\$ | O\$ | | |
| | | | | | | Clear-turbid | | O\$ | O | nf | O\$ | nf | nf | O | nf | nf | nf | nf | O | O\$ | O\$ | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | O\$ | | |
| | | | | Subtidal | Shallow | Clear | | O\$ | O | nf | O\$ | nf | nf | O | nf | nf | nf | fp | O | O\$ | f | | |
| | | | | | | Clear-turbid | | O\$ | O | nf | O\$ | nf | nf | O | nf | nf | nf | fp | O | O\$ | f | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | nf | O | nf | | |
| | | | | | Deep | Clear | | fp | fp | nf | fp | nf | nf | fp | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | Clear-turbid | | fp | fp | nf | fp | nf | nf | fp | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | cover type at benthic community scale | | Intertidal | Exposed | | | nf | f | f | f | f | nf | nf | nf | nf | f | nf | nf | nf | nf | | |
| | | | | | Submerged | Clear | | nf | f | f | f | f | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | | | | Clear-turbid | | nf | nf | nf | f | f | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | | | | Turbid | | nf | nf | nf | f | f | nf | nf | nf | nf | nf | nf | O | f | O | | |
| | | | | Subtidal | Shallow | Clear | | nf | f | f | f | f | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | | | Clear-turbid | | nf | nf | nf | f | f | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | fp | O | O | nf | | |
| | | | | | Deep | Clear | | nf | nf | nf | f | f | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O | nf | | |
| | | Cover type at Reef Patch Scale | | Intertidal | Exposed | | | fp | nf | nf | nf | nf | nf | fp | nf | nf | nf | nf | nf | O\$ | O\$ | | |
| | | | | | Submerged | Clear | | fp | nf | nf | nf | nf | nf | fp | nf | nf | nf | nf | nf | O\$ | O\$ | | |
| | | | | | | Clear-turbid | | fp | nf | nf | nf | nf | nf | fp | nf | nf | nf | nf | nf | O\$ | O\$ | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | O\$ | | |
| | | | | Subtidal | Shallow | Clear | | fp | nf | nf | nf | nf | nf | fp | nf | nf | nf | nf | nf | O\$ | f | | |
| | | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | f | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | f | | |
| | | | | | Deep | Clear | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | nf | | |
| | | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | nf | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | nf | | |
| | | Low Extent Coral Bleaching | | Exposed | | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O\$ | | |
| | | | | submerged | | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | nf | O\$ | O\$ | | | |
| | tent Coral Bleaching | | | Intertidal | Exposed | | | fp | f | fp | f | f | fp | O | nf | nf | f | nf | nf | nf | | | |
| | | | | | Submerged | Clear | | nf | nf | nf | nf | nf | nf | O | nf | nf | nf | nf | O | f | O\$ | | |
| | | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | O | nf | nf | nf | nf | O | f | O\$ | | |
| | | | | | | Turbid | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | f | O | | |
| | | | | | Shallow | Clear | | nf | nf | nf | f | nf | fp | O | nf | nf | nf | nf | O\$ | O\$ | nf | | |
| | | | | | | Clear-turbid | | nf | nf | nf | nf | nf | nf | O | nf | nf | nf | nf | O\$ | O\$ | nf | | |





MARINE REMOTE SENSING - MAPPING CAPABILITY MATRIX CSER 8 April 2010

Table Key: O= operational, O\$ = operational but cost prohibitive, f = feasible but not operational, nf =not feasible, fp=partly feasible, OE=possible if extent is bigger then several pixels

| SENSOR Type Platform | | | | | | Icon | Passive | | | | | | | Active | | | | Field | | | |
|---|---|---|--------------------------------------|---------|------------|------|----------------|-----------|-----------|----------------|-----------|-----------|-------------|----------|-----------|----------|-----------|--------|--------|-------------|----|
| | | | | | | | Multi-spectral | | | Hyper-spectral | | | Photo graph | Radar | | Laser | Acoustic | Visual | | | |
| | | | | | | | Airborne | Satellite | Satellite | Airborne | Satellite | Satellite | Airborne | Airborne | Satellite | Airborne | Boat/ ROV | Boat | Diving | Snorkelling | |
| PIXEL SIZE Fine < 5m, Medium 5 m - 100 m, Coarse 100 m > | | | | | | | Fine | Fine | Medium | Fine | Medium | Coarse | Fine | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | |
| Parameter and environment | | | | | | Icon | | | | | | | | | | | | | | | |
| Water Quality | Water Colour | TSS | Ocean | Deep | Blue | | O\$ | O\$ | O\$ | O\$ | f | O | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | | Coloured dissolved organic matter concentration | Coastal | Deep | Brown | | O\$ | O\$ | O | O\$ | f | OE | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | | | | | Blue/Green | | O\$ | O\$ | O | O\$ | f | OE | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | | | Ocean | Deep | Blue/Green | | nf | nf | nf | fp | f | nf | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | | | | | Blue | | O\$ | O\$ | O\$ | O\$ | f | O | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | | Chlorophyll concentration | Coastal | Deep | Brown | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf | nf | |
| | | | | | Blue/Green | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf | nf | |
| | | | | Shallow | Blue/Green | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf | nf | | |
| | | | Ocean | Deep | Blue | | O\$ | O\$ | O\$ | O\$ | f | O | nf | nf | nf | nf | nf | O\$ | nf | nf | |
| | Cyano bacterial blooms (other then Lyngbya) | | % cover | | | O\$ | O\$ | O\$ | O\$ | f | O | nf | nf | nf | nf | nf | O | nf | nf | | |
| | | | Composition and Biomass | | | nf | nf | nf | O\$ | f | O | nf | nf | nf | nf | nf | O | nf | nf | | |
| | Hydro Optical properties | Attenuation coefficient | Coastal | Deep | Brown | | O\$ | O\$ | O | O\$ | f | OE | nf | nf | nf | nf | nf | O\$ | O\$ | nf | |
| | | | | | Blue/Green | | O\$ | O\$ | O | O\$ | f | O | nf | nf | nf | nf | O\$ | O\$ | nf | | |
| | | | | Shallow | Blue/Green | | nf | nf | nf | O\$ | f | nf | nf | nf | nf | nf | O | O\$ | nf | | |
| | | | Ocean | Deep | Blue | | OE | OE | O | OP | f | O | nf | nf | nf | nf | nf | fp | fp | nf | |
| | | Euphotic depth | Coastal | Deep | Brown | | O\$ | O\$ | O | O\$ | O | O | nf | nf | nf | nf | nf | nf | nf | nf | |
| | | | | | Blue/Green | | O\$ | O\$ | O | O\$ | O | O | nf | nf | nf | nf | nf | nf | nf | nf | |
| | | | | Shallow | Blue/Green | | nf | nf | nf | O\$ | O | nf | nf | nf | nf | nf | nf | nf | nf | nf | |
| | | | Ocean | Deep | Blue | | OE | OE | O | OE | O | O | nf | nf | nf | nf | nf | nf | nf | nf | |
| | | Secchi depth | Coastal | Deep | Brown | | O\$ | O\$ | O | O\$ | f | O | nf | nf | nf | nf | nf | O | nf | nf | |
| | | | | | Blue/Green | | O\$ | O\$ | O | O\$ | f | O | nf | nf | nf | nf | nf | O | nf | nf | |
| | | | | Shallow | Blue/Green | | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | nf | O | nf | nf | |
| | | | Ocean | Deep | Blue | | OE | OE | O | OE | f | O | nf | nf | nf | nf | nf | fp | nf | nf | |
| Other biophysical properties | | | Photosythetic Active Radiation (PAR) | | | | | | nf | f | f | f | OS | O | nf | nf | nf | nf | nf | nf | f |
| | | Surface Temperature | | | | | | nf | nf | f | f | OS | O | nf | nf | nf | nf | nf | O | nf | nf |
| | Wave Height | | | | | | nf | nf | nf | nf | nf | nf | nf | O | O | O | nf | nf | nf | nf | |
| | Surface Currents | | | | | | nf | nf | nf | nf | nf | nf | nf | O | O | O | nf | nf | nf | nf | |
| | Surface Winds | | | | | | nf | nf | nf | nf | nf | nf | nf | O | O | O | nf | nf | nf | nf | |