Comments from Public Consultation on ECV Requirements 13/01 – 13/03 2020 for:

# Subsurface currents

## ECV Product: Vertical mixing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | Vertical mixing | | | | |
| **Definition** | Ocean vector motion measured at or near the surface (at stated depth) | | | | |
| **Unit** | m/s | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G |  |  |
| B |  |  |
| T | 100 |  |
| **Vertical Resolution** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** |  |  | G |  |  |
| B | weekly |  |
| T | monthly |  |
| **Timeliness** |  |  | G |  |  |
| B |  |  |
| T | monthly |  |
| **Required Measurement Uncertainty** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Standards and References** |  | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** |  |  |  | | |
| **Extremes[3]** |  |  |  | | |

[1]Goal (G); Breakthrough (B)(not mandatory, more as one possible); Threshold (T), for definitions see [Guidelines](http://tiny.cc/ecv-review)

[2] Is the ECV Product directly relevant to support Climate Adaptation?

[3] Can the ECV Product be used to monitor climate extremes or aspects of extremes?

### Comment 1

|  |  |
| --- | --- |
| Author: ECMWF | Email: ecresgcosreqs@gmail.com |
| See below Table | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | Vertical mixing | | | | |
| **Definition** | Ocean vector motion measured at or near the surface (at stated depth) | | | | |
| **Unit** | m/s | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G | 10 |  |
| B |  |  |
| T | 100 |  |
| **Vertical Resolution** | m |  | G | 1 (upper ocean) 10 (deep ocean) |  |
| B |  |  |
| T | 10 (upper ocean) 100 (deep ocean) |  |

- show quoted text -

|  |  |
| --- | --- |
|  |  |
| **Temporal Resolution** |  |  | G | daily |  |
| B | weekly |  |
| T | monthly |  |
| **Timeliness** |  |  | G |  |  |
| B |  |  |
| T | monthly |  |
| **Required Measurement Uncertainty** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Standards and References** |  | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** |  |  |  | | |
| **Extremes[3]** |  |  |  | | |

- show quoted text -