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

# Ocean transient tracers

## ECV Product: ¹⁴C

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | ¹⁴C | | | | |
| **Definition** | Ratio of sample to reference value (Δ14) in the water column | | | | |
| **Unit** | ‰ | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G | 2000  Regional  (deep water formation areas): 200 |  |
| B |  |  |
| T | 2000 |  |
| **Vertical Resolution** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** |  |  | G | decadal  Regional: (deep water formation areas): Bi-annual |  |
| B |  |  |
| T | decadal |  |
| **Timeliness** | year |  | G | 1 |  |
| B |  |  |
| T | 2 |  |
| **Required Measurement Uncertainty** | ‰ |  | G | 0.4 |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G | decadal  Regional: (deep water formation areas): annual |  |
| B |  |  |
| T | decadal |  |
| **Standards and References** | Requirements based on characteristic scales and magnitude of signal of phenomena to observe. See the EOV Specification Sheet for details and references ([www.goosocean.org/eov](http://www.goosocean.org/eov)). | | | | |
| **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?

NO COMMENT

## ECV Product: SF₆

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | SF₆ | | | | |
| **Definition** | Concentration of SF6 gas in the water column | | | | |
| **Unit** | fmol kg⁻¹ | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G | 2000  Regional  (deep water formation areas): 200 |  |
| B |  |  |
| T | 2000 |  |
| **Vertical Resolution** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** |  |  | G | decadal  Regional: (deep water formation areas): Bi-annual |  |
| B |  |  |
| T | decadal |  |
| **Timeliness** | year |  | G | 1 |  |
| B |  |  |
| T | 2 |  |
| **Required Measurement Uncertainty** | % |  | G | 1 |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G | decadal  Regional: (deep water formation areas): annual |  |
| B |  |  |
| T | decadal |  |
| **Standards and References** | Requirements based on characteristic scales and magnitude of signal of phenomena to observe. See the EOV Specification Sheet for details and references ([www.goosocean.org/eov](http://www.goosocean.org/eov)). | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** |  |  |  | | |
| **Extremes[3]** |  |  |  | | |

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NO COMMENT

## ECV Product: CFC-11

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | CFC-11 | | | | |
| **Definition** | Concentration of CFC-11 gas in the water column | | | | |
| **Unit** | pmol kg⁻¹ | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G | 2000  Regional  (deep water formation areas): 200 |  |
| B |  |  |
| T | 2000 |  |
| **Vertical Resolution** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** |  |  | G | decadal  Regional: (deep water formation areas): Bi-annual |  |
| B |  |  |
| T | decadal |  |
| **Timeliness** | month |  | G | 6 |  |
| B |  |  |
| T | 6 |  |
| **Required Measurement Uncertainty** | % |  | G | 1 |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G | decadal  Regional: (deep water formation areas): annual |  |
| B |  |  |
| T | decadal |  |
| **Standards and References** | Requirements based on characteristic scales and magnitude of signal of phenomena to observe. See the EOV Specification Sheet for details and references ([www.goosocean.org/eov](http://www.goosocean.org/eov)). | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** |  |  |  | | |
| **Extremes[3]** |  |  |  | | |

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NO COMMENT

## ECV Product: CFC-12

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | CFC-12 | | | | |
| **Definition** | Concentration of CFC-12 gas in the water column | | | | |
| **Unit** | pmol kg⁻¹ | | | | |
| **Note** |  | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** | km |  | G | 2000  Regional  (deep water formation areas): 200 |  |
| B |  |  |
| T | 2000 |  |
| **Vertical Resolution** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** |  |  | G | decadal  Regional: (deep water formation areas): Bi-annual |  |
| B |  |  |
| T | decadal |  |
| **Timeliness** | month |  | G | 6 |  |
| B |  |  |
| T | 6 |  |
| **Required Measurement Uncertainty** | % |  | G | 1 |  |
| B |  |  |
| T |  |  |
| **Stability** |  |  | G | decadal  Regional: (deep water formation areas): annual |  |
| B |  |  |
| T | decadal |  |
| **Standards and References** | Requirements based on characteristic scales and magnitude of signal of phenomena to observe. See the EOV Specification Sheet for details and references ([www.goosocean.org/eov](http://www.goosocean.org/eov)). | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
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