|  |  |  |
| --- | --- | --- |
|  | | |
|  | | |
|  | Author(s): | ***[Author Name]***  *Task [X] Mission Expert* |
|  | Approval: | ***[Approver Name]***  *Task [X] Lead* |
|  | Accepted: | ***Clement Albinet***  *EOP-GMQ EDAP Technical Officer* |
| *EDAP.TMP.001* | *Issue: 1.3* | *22/10/19* |

AMENDMENT RECORD SHEET

The Amendment Record Sheet below records the history and issue status of this document.

| **ISSUE** | **DATE** | **REASON** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

TABLE OF CONTENTS

1. Executive Summary 3

1.1 Mission Quality Assessment Matrix 4

2. Mission Assessment Overview 5

2.1 Product Information 5

2.2 Product Generation 7

2.3 Ancillary Information 8

2.4 Uncertainty Characterisation 8

2.5 Validation 9

3. Detailed Assessment 10

# Executive Summary

Text

|  |  |
| --- | --- |
| **Key** | |
| Not Assessed | |
| Not Assessable | |
| Basic | |
| Intermediate | |
| Good | |
| Excellent | |
| Lock | Information Not Public |

## Mission Quality Assessment Matrix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Product**  **Information** | **Product**  **Generation** | **Ancillary Information** | **Uncertainty Characterisation** | **Validation** |
| Lock  Product Details | Lock  Sensor Calibration & Characterisation Pre-Flight | Lock  Product Flags | Lock  Uncertainty Characterisation Method | Lock  Reference Data Representativeness |
| Lock  Availability & Accessibility | Lock  Sensor Calibration & Characterisation Post-Launch | Lock  Ancillary Data | Lock  Uncertainty Sources Included | Lock  Reference Data Quality |
| Lock  Product Format | Lock  Retrieval Algorithm Method | If target mission data product is Level 2 | Lock  Uncertainty Values Provided | Lock  Validation Method |
| Lock  User Documentation | Lock  Retrieval Algorithm Tuning | Lock  Geolocation Uncertainty | Lock  Validation Results |
| Lock  Metrological Traceability Documentation | Lock  Additional Processing |  | |

Figure 1 – Mission Product Quality Evaluation Matrix. Complete by removing cells, removing padlock symbols and colouring as appropriate

# Mission Assessment Overview

## Product Information

|  |  |
| --- | --- |
| **Product Details** | |
| Product Name | *e.g. Sentinel-3 OLCI Level 1b Full Resolution* |
| Sensor Name | *e.g. OLCI* |
| Sensor Type | *e.g. Optical – Multichannel spectrometer* |
| Mission Type | *e.g. Constellation – 2 satellites* |
| Mission Orbit | *e.g. Sun Synchronous* |
| Product Version Number | *e.g. v1* |
| Product ID | *e.g.*  *OL\_1\_EFR* |
| Processing level of product | *e.g. Level 1* |
| Measured Quantity Name | *e.g. Radiance* |
| Measured Quantity Units | *e.g. mW sr-1 m-2 nm-1* |
| Stated Measurement Quality | *e.g. stated 2% radiometric accuracy* |
| Spatial Resolution |  |
| Spatial Coverage |  |
| Temporal Resolution |  |
| Temporal Coverage |  |
| Point of Contact |  |
| Product locator (DOI/URL) |  |
| Conditions for access and use |  |
| Limitations on public access |  |
| Product Abstract |  |

|  |  |
| --- | --- |
| **Availability & Accessibility** | |
| Compliant with FAIR principles | *e.g.*  *Yes/No* |
| Data Management Plan |  |
| Availability Status |  |

|  |  |
| --- | --- |
| **Product Format** | |
| Product File Format | *e.g. netCDF4* |
| Metadata Conventions | *e.g. v1* |
| Analysis Ready Data? | *e.g.*  *Yes/No* |

|  |  |  |
| --- | --- | --- |
| **User Documentation** | | |
| *Document* | *Reference* | *QA4ECV Compliant* |
| Product User Guide |  |  |
| ATBD |  |  |

|  |  |
| --- | --- |
| **Metrological Traceability Documentation** | |
| Document Reference |  |
| Traceability Chain / Uncertainty Tree Diagram Available | *Yes/No* |

## Product Generation

|  |  |
| --- | --- |
| **Sensor Calibration & Characterisation – Pre-Flight** | |
| Summary |  |
| References | * Reference 1 * Reference 2 * Reference 3 |

|  |  |
| --- | --- |
| **Sensor Calibration & Characterisation – Post-Launch** | |
| Summary |  |
| References | * Reference 1 * Reference 2 * Reference 3 |

|  |  |
| --- | --- |
| **Retrieval Algorithm Method** | |
| Summary |  |
| References | * Reference 1 * Reference 2 * Reference 3 |

|  |  |
| --- | --- |
| **Retrieval Algorithm Tuning** | |
| Summary |  |
| References | * Reference 1 * Reference 2 * Reference 3 |

|  |  |
| --- | --- |
| **Additional Processing** | |
| *Additional Processing 1* | |
| Description |  |
| Reference |  |
| Additional Processing 2 | |
| Description |  |
| Reference |  |

## Ancillary Information

|  |  |
| --- | --- |
| **Product Flags** | |
| Product Flag Documentation |  |
| Comprehensiveness of Flags |  |

|  |  |
| --- | --- |
| **Ancillary Data** | |
| Ancillary Data Documentation |  |
| Comprehensiveness of Data |  |
| Uncertainty Quantified | *e.g.*  *Yes/No* |

## Uncertainty Characterisation

|  |  |
| --- | --- |
| **Uncertainty Characterisation Method** | |
| Summary |  |
| Reference |  |

|  |  |
| --- | --- |
| **Uncertainty Sources Included** | |
| Summary |  |
| Reference |  |

|  |  |
| --- | --- |
| **Uncertainty Values Provided** | |
| Summary |  |
| Reference |  |
| Analysis Ready Data? | *e.g.*  *Yes/No* |

|  |  |
| --- | --- |
| **Geolocation Uncertainty** | |
| Summary |  |
| Reference |  |

## Validation

|  |  |
| --- | --- |
| Validation Activity #1 | |
| Independently Assessed? | Yes/No |
| *Reference Data Representativeness* | |
| Summary |  |
| Reference |  |
| *Reference Data Quality & Suitability* | |
| Summary |  |
| Reference |  |
| *Validation Method* | |
| Summary |  |
| Reference |  |
| *Validation Results* | |
| Summary |  |
| Reference |  |

# Detailed Assessment

Text