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|  | **Analysis Ready Data** ***For Land*** | **Product Alignment Assessment** |

**Product family title**

Surface Reflectance

**Name of product being assessed**

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**Mission/instrument**

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**Coverage** (spatial and temporal, note if product is updated on ongoing basis)

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**Product generation method**

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**Product distribution method**

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**Assessor (name, position and agency)**

**Date of assessment: X**

**Requirements**

**General metadata**

*A metadata records describing a distributed collection of pixels must comply with the following requirements. The collection of pixels must be contiguous in space and time.*

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| **Item** | **Threshold requirements** | **Target requirements** |
| **Yes/No** | **Notes** | **Yes/No** | **Notes** |
| **Traceability** |  |  |  |  |
| **Metadata machine readability** |  |  |  |  |
| **Data collection time** |  |  |  |  |
| **Geographical area** |  |  |  |  |
| **Coordinate reference system** |  |  |  |  |
| **Map projection** |  |  |  |  |
| **Geometric correction source** |  |  |  |  |
| **Geodetic correction methods** |  |  |  |  |
| **Geodetic accuracy** |  |  |  |  |
| **Instrument** |  |  |  |  |
| **Spectral bands** |  |  |  |  |
| **Sensor calibration** |  |  |  |  |
| **Radiometric accuracy** |  |  |  |  |
| **Algorithms** |  |  |  |  |
| **Ancillary data** |  |  |  |  |
| **Processing chain provenance** |  |  |  |  |
| **Data access** |  |  |  |  |
| **Overall data quality** |  |  |  |  |

**Per-pixel metadata**

*The following minimum metadata specifications apply to each pixel. It is at the discretion of the data provider whether the metadata is provided in a single record that is relevant to all pixels, or is provided separately for each pixel.*

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| **Item** | **Threshold requirements** | **Breakthrough requirements** |
| **Yes/No** | **Notes** | **Yes/No** | **Notes** |
| **Metadata machine readability** |  |  |  |  |
| **No data** |  |  |  |  |
| **Untested pixels** |  |  |  |  |
| **Saturation** |  |  |  |  |
| **Cloud** |  |  |  |  |
| **Cloud shadow** |  |  |
| **Land/water mask** |  |  |  |  |
| **Snow/ice mask** |  |  |  |  |
| **Terrain shadow mask** |  |  |  |  |

**Radiometric corrections**

*The following requirements must be met for all pixels in a collection. BRDF correction is optional.*

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| **Item** | **Threshold requirements** | **Breakthrough requirements** |
| **Yes/No** | **Notes** | **Yes/No** | **Notes** |
| **Aerosol** |  |  |  |  |
| **Water vapor** |  |  |  |  |
| **Normalization** |  |  |  |  |
| **Ozone** |  |  |  |  |
| **Solar incidence angle** |  |  |  |  |
| **Directional scattering in the atmosphere** |  |  |  |  |
| **Aerosol optical depth parameters** |  |  |  |  |

**Geometric corrections**

|  |  |  |
| --- | --- | --- |
| **Item** | **Threshold requirements** | **Breakthrough requirements** |
| **Yes/No** | **Notes** | **Yes/No** | **Notes** |
| **Accuracy** |  |  |  |  |

Products that meet all **threshold requirements** should be immediately useful for scientific analysis or decision-making.

Products that meet **target requirements** will reduce the overall product uncertainties and enhance broad-scale applications.