

Maturity	Sensor Use	Algorithm stability	Metadata & QA	Documentation	Validation	Public Release	Science & Applications
1	Research Mission with limited period of record	Significant changes likely	Incomplete	Draft Operational Algorithm Description (OAD)	Minimal	Limited data availability to develop familiarity	Little or none
2	Research Mission with limited period of record	Some changes expected	Research grade (extensive)	OAD Version 1+	Uncertainty estimated for select locations/times	Data available but of unknown accuracy; caveats required for use.	Limited or ongoing
3	Research Mission with sufficient period of record	Minimal changes expected	Research grade (extensive); Meets international standards	Peer-reviewed OAD and product descriptions	Uncertainty estimated over widely distribute times/location by multiple investigators; Differences understood.	Data available but of unknown accuracy; caveats required for use.	Provisionally used in applications and assessments demonstrating positive value.
4	Operational Mission with sufficient period of record	Minimal changes expected	Stable, Allows provenance tracking and reproducibility; Meets international standards	Public Operational Algorithm Description (OAD); Peer-reviewed product descriptions	Uncertainty estimated over widely distribute times/location by multiple investigators; Differences understood.	Data archived and available but of unknown accuracy; caveats required for use.	Operationally used in applications and assessments demonstrating positive value.
5	All relevant research and operational missions; unified and coherent record demonstrated across different sensors	Stable and reproducible	Stable, Allows provenance tracking and reproducibility; Meets international standards	Public OAD and Validation Plan; Peer-reviewed product and validation articles	Consistent uncertainties estimated over most environmental conditions by multiple investigators	Multi-mission record is archived and publicly available with associated uncertainty estimate	Used in published applications and assessments by different investigators
6	All relevant research and operational missions; unified and coherent record over complete series; record is considered scientifically irrefutable following extensive scrutiny	Stable and reproducible; homogeneous and published error budget	Stable, Allows provenance tracking and reproducibility; Meets international standards	Product, algorithm, validation, processing and metadata described in peer-reviewed literature	Observation strategy designed to reveal systematic errors through independent cross-checks, open inspection, and continuous interrogation	Multi-mission record is publicly available from Long-Term archive	Used in multiple published applications and assessments by different investigators
<p>Comments for Maturity rating</p> <p>Avg rating = 3.4</p>	<p>AVHRR/1 and AVHRR/2 and AVHRR/3 included PATMOS-x. Reflectance calibration demonstrated to be consistent.</p> <p>AVHRR/1 data has larger uncertainty</p>	<p>Product suite is stable.</p> <p>Patmos-x will adopt lessons learned from NPOESS and GOES-R</p>	<p>CF compliant HDF4</p> <p>website to help users obtain and work with data.</p>	<p>No OAD but we do have OSDPD documentation</p> <p>All PATMOS-x algorithms are published</p>	<p>Through GEWEX and EUMETSAT workshops, we have done much multi-group intercomparisons</p>	<p>archived at NCDC</p> <p>All data is on-line and publically available</p>	<p>published and referenced research</p> <p>Several papers have written by users outside of the PATMOS-x team</p> <p>PATMOS-x data has found application and been published in the areas of cloud, aerosol, ndvi and ocean turbidity remote sensing.</p>