STAR Product Catalog Data Description Document

version 1.1

2 April 2018

Catalog Entry	Description
Product Name	The name of the product.
Algorithm	The short name of the algorithm from which the product is generated.
Product Description	A short description of the product.
STAR Role	The role that STAR plays in generating the product. Options include: Development, Processing, Maintenance, and Repository.
Product Class	The category in the catalog for which the product fits. Options are Atmosphere, Cryosphere, Hydrometeors, Imagery, Land, Level 1, Ocean, and Radiation Budget.
Product Subclass	This further breaks down the product class. Options are: • Atmosphere: Aerosol, Atmosphere, Atmospheric Winds, Lightning, Soundings, Trace Gas, Tropical Cyclone, Volcanic Ash • Cryosphere: Cryosphere, Sea Ice, Snow • Hydrometeors: Cloud, Precipitation • Imagery: Imagery • Land: Land, Land Surface Temperature, Soil Moisture, Surface Emissivity, Vegetation • Level 1: Level 1 • Ocean: Ocean, Ocean Color, Ocean Winds, Sea Surface Height, Sea Surface Temperature • Radiation Budget: Radiation Budget
Satellite	The satellite(s) used to generate the product. Multiple satellites selected means that the product is blended.
Sensors	The sensor(s) used to generate the product. Multiple sensors can be listed
Principal Investigator	The name of the PI.
Division	Selections include SMCD, SOCD, CORP, and Front Office.
Geographical Resolution	The resolution of the product. This can be a range if applicable.
Coverage	The different coverage areas for the product. Options include global, hemispheric, CONUS, Super-CONUS, Full Disk, Polar Projection, Tropics, and Other.
Performance Accuracy	This is a text field where RSME or bias can be described.
Product Level	Selections include the following. • Level 0: Reconstructed, unprocessed instrument and payload data at full resolution. • Level 1: Data that have been processed to sensor units. • Level 2: Derived geophysical variables at the same resolution and location as Level 1. • Level 2P: Satellite sea surface temperature observations together with a measure of uncertainty for each observation in a common Group for High Resolution Sea Surface Temperature (GHRSST) format. • Level 3: Variables mapped on uniform space-time grid scales. • Level 3U: A gridded single L2P file to create an L3 uncollated file.

	• Level 4: Results from analyses of lower-level data. These are often blended products that are gap-filled. • Level 5: A product that is derived using Level 4 data.
Operational Processing Organization	Options include OSPO, STAR, NDE, and IDPS.
Mission Assurance	Selections include the following. • High - (Operational, 24 x 7 Monitoring, 99.9% Availability) • Moderate - (Operational, 8 x 5 Monitoring, < 99% Availability) • Low - (Experimental, 8x5 Monitoring, < 99% Availability) • None - (Experimental, Processing/Availability on ad-hoc basis)
Criticality	Selections include the following. • Mission Critical - (Critical value for NOAA's mission) • Mission Essential - (High value for NOAA's mission) • Mission Optimal - (Added value for NOAA's mission) • Mission Enhancing - (Potential value for NOAA's mission)
Operational QC/QA Monitoring	yes/no
Security Level	This refers to the processing environment. Options include high, moderate, low, or none.
Delivery Mode	The method in which products are delivered to users. Options include stage, push, or both.
Staging Location	Where the products are staged for users, such as PDA or a STAR FTP site.
Archive Location	Where the products are located for long-term or short-term archive, such as NCEI, CLASS, or STAR.
Product Latency	The amount of time from observation until the product is generated.
Data Volume	The size of the data in megabytes per day.
Monitoring Website	The URL for the STAR monitoring website.
Operational Website	The URL for the OSPO-specific product page.
Repository Website	The URL for a long-term or short-term archive.

Table 1. Information contained in the Product Catalog

Document Version Control

Version	Edits	Editor	Approver / Date
1.0	First fully approved version	Stacy Bunin	Sid Boukabara 2/14/2018
1.1	Adding 'STAR Role' to catalog definitions	Stacy Bunin	Sid Boukabara 4/2/2018