

**WGCV evaluation of OPERA (Sentinel1A) 30m IW VV VH self-assessment submitted
by JPL (NRB PFS v5.5) for CEOS-ARD compliance**

		Threshold	Goal
1	General Metadata		
1.1	Traceability	Not required	Not Assessed
1.2	Metadata Machine Readability	Verified	Not Assessed
1.3	Product type	Verified	Not Assessed
1.4	Document Identifier	Verified	Not Assessed
1.5	Data Collection Time	Verified	Not Assessed
1.6	Source Data Attributes		
1.6.1	Source Data Access	Verified	Not Assessed
1.6.2	Instrument	Verified	Not Assessed
1.6.3	Source Data Acquisition Time	Verified	Not Assessed
1.6.4	Source Data Acquisition Parameters	Verified	Not Assessed
1.6.5	Source Data Orbit Information	Verified	Not Assessed
1.6.6	Source Data Processing Information	Verified	Not Assessed
1.6.7	Source Data Image Attributes	Verified	Not Assessed
1.6.8	Sensor Calibration	Not required	Not Assessed
1.6.9	Performance Indicators	Verified	Not Assessed
1.6.10	Source Data Polarimetric Calibration Matrices	Not required	Not Assessed
1.6.11	Mean Faraday Rotation Angle	Not required	Not Assessed
1.6.12	Ionosphere Indicator	Not required	Not Assessed
1.7	CEOS-ARD Product Attributes		
1.7.1	Product Data Access	Verified	Not Assessed
1.7.2	Ancillary Data	Not required	Not Assessed
1.7.3	Product Sample Spacing	Verified	Not Assessed
1.7.4	Product Filtering	Verified	Not Assessed
1.7.5	Product Bounding Box	Verified	Not Assessed
1.7.6	Product Image Extent	Verified	Not Assessed
1.7.7	Product Image Size	Verified	Not Assessed
1.7.8	Product Pixel Coordinate Convention	Verified	Not Assessed
1.7.9	Product Coordinate Reference System	Verified	Not Assessed
2	Per-Pixel Metadata		
2.1	Metadata Machine Readability	Verified	Not Assessed
2.2	Data Mask Image	Verified	Not Assessed
2.3	Scattering Area Image	Not required	Not Assessed
2.4	Local Incident Angle Image	Verified	Not Assessed
2.5	Ellipsoidal Incident Angle Image	Not required	Not Assessed
2.6	Noise Power Image	Not required	Not Assessed
2.7	Gamma-to-Sigma Ratio Image	Not required	Not Assessed
2.8	Acquisition ID Image	Verified	Not Assessed
2.9	Per-Pixel DEM	Not required	Not Assessed
3	Radiometric Terrain Corrected Measurements		
3.1	Backscatter Measurements	Verified	Not Assessed
3.2	Scaling Conversion	Verified	Not Assessed
3.3	Noise Removal	Verified	Not Assessed
3.4	Radiometric Terrain Correction Algorithms	Verified	Not Assessed
3.5	Radiometric Accuracy	Not required	Not Assessed
4	Geometric Terrain Corrections		
4.1	Geometric Correction Algorithms	Not required	Not Assessed
4.2	Digital Elevation Model	Verified	Not Assessed
4.3	Geometric Accuracy	Verified	Not Assessed
4.4	Gridding Convention	Verified	Not Assessed

CEOS-ARD Evaluation Outcome: (NRB PFS v5.5)

Threshold level:	<p>Compliance verified for 31 PFS metadata items at Threshold level by WGCV PoC through 1-on-1 discussions and clarifications with JPL OPERA representative (Thomas Logan).</p> <p><i>The 30m IW VV VH Normalised Radar Backscatter Product is CEOS-ARD compliant at Threshold level</i></p>
Target level:	No Assessment