

ESA CARD4L self-assessment of Sentinel-2 Surface Reflectance PFS v5

WGCV Evaluation of CARD4L self-assessment submitted by ESA (SR PFS v5)

	Threshold	Target
1. General Metadata		
1.1 Traceability	Not required	Not assessed
1.2 Metadata Machine Readability	Verified	Not assessed
1.3 Data Collection Time	Verified	Not assessed
1.4 Geographical Area	Verified	Not assessed
1.5 Coordinate Reference System	Verified	Not assessed
1.6 Map Projection	Verified	Not assessed
1.7 Geometric Correction Methods	Not required	Not assessed
1.8 Geometric Accuracy of the Data	Not required	Not assessed
1.9 Instrument	Verified	Not assessed
1.10 Spectral Bands	Verified	Not assessed
1.11 Sensor Calibration	Not required	Not assessed
1.12 Radiometric Accuracy	Not required	Not assessed
1.13 Algorithms	Verified	Not assessed
1.14 Auxiliary Data	Verified	Not assessed
1.15 Processing Chain Provenance	Not required	Not assessed
1.16 Data Access	Verified	Not assessed
1.17 Overall Data Quality	Not required	Not assessed
2. Per-Pixel Metadata		
2.1 Metadata Machine Readability	Verified	Not assessed
2.2 No Data	Verified	Not assessed
2.3 Incomplete Testing	Verified	Not assessed
2.4 Saturation	Verified	Not assessed
2.5 Cloud	Verified	Not assessed
2.6 Cloud Shadow	Verified	Not assessed
2.7 Land/Water Mask	Not required	Not assessed
2.8 Snow/Ice Mask	Not required	Not assessed
2.9 Terrain Shadow Mask	Not required	Not assessed
2.10 Terrain Occlusion	Not required	Not assessed
2.11 Solar and Viewing Geometry	Verified	Not assessed
2.12 Terrain Illumination Correction	Not required	Not assessed
2.13 Aerosol Optical Depth Parameters	Not required	Not assessed
3. Radiometric and Atmospheric Corrections		
3.1 Measurement	Verified	Not assessed
3.2 Measurement Uncertainty	Not required	Not assessed
3.3 Measurement Normalisation	Not required	Not assessed
3.4 Directional Atmospheric Scattering	Verified	Not assessed
3.5 Water Vapour Corrections	Verified	Not assessed
3.6 Ozone Corrections	Not required	Not assessed
4. Geometric Corrections		
4.1 Geometric Correction	Verified	Not assessed

WGCV CARD4L Evaluation Outcome: (SR PFS v5)

Threshold level:	Compliance verified for 21 items at Threshold level by WGCV and LSI-VC PoCs through 1-on-1 discussions and clarifications with ESA representatives (Valentina Boccia, Ferran Gascon). <i>The ESA Sentinel-2 Surface Reflectance Product is CARD4L compliant at Threshold level</i>
Target level:	ESA self-assessment for the Sentinel-2 SR product was submitted only for Threshold items, therefore Target level compliance was NOT reviewed by the WGCV CARD4L Panel members

WGCV CARD4L Review Panel Members:	Cody Anderson Fernando Camacho Nigel Fox Darren Ghent Medhavy Thankappan
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