

**WGCV evaluation of the NovaSAR 35m ScanSAR VVHHHV self-assessment  
submitted by CSIRO (NRB PFS v5.5) for CEOS-ARD compliance**

|            |   | Threshold    | Target       |
|------------|---|--------------|--------------|
| <b>1</b>   | <b>General Metadata</b>                           |              |              |
| 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 |
| <b>1.6</b> | <b>Source Data Attributes</b>                     |              |              |
| 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 |
| <b>1.7</b> | <b>CARD4L Product Attributes</b>                  |              |              |
| 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 |
| <b>2</b>   | <b>Per-Pixel Metadata</b>                         |              |              |
| 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 |
| <b>3</b>   | <b>Radiometric Terrain Corrected Measurements</b> |              |              |
| 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 |
| <b>4</b>   | <b>Geometric Terrain Corrections</b>              |              |              |
| 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 CSIRO NovaSAR representative (Zheng-Shu Zhou).</p> <p><i>The 35m ScanSAR VVHHHV Normalised Radar Backscatter Product is CEOS-ARD compliant at Threshold level</i></p> |
| Target level:    | No Assessment  |