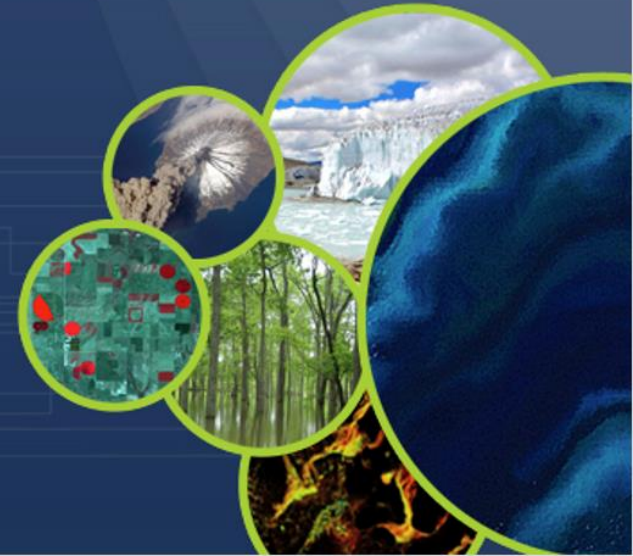




Committee on Earth Observation Satellites

CSIRO's NovaSAR-1 Operational Updates and its CEOS-ARD NRB Access

Zheng-Shu Zhou, Laura Brindle and NovaSAR-1 Team of CSIRO



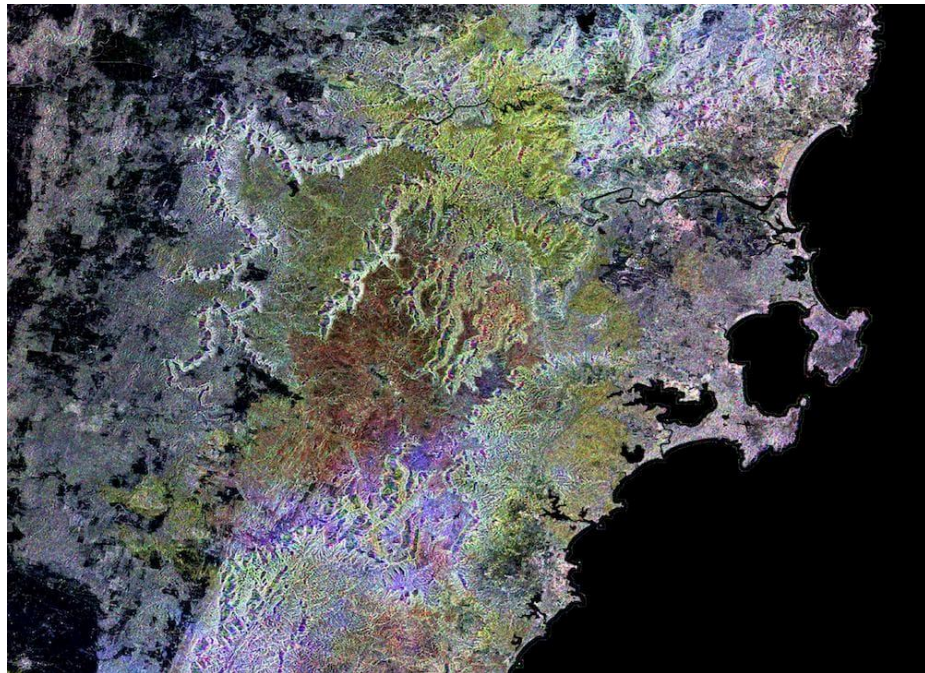
Content

NovaSAR-1 Operational Updates

- Satellite Status

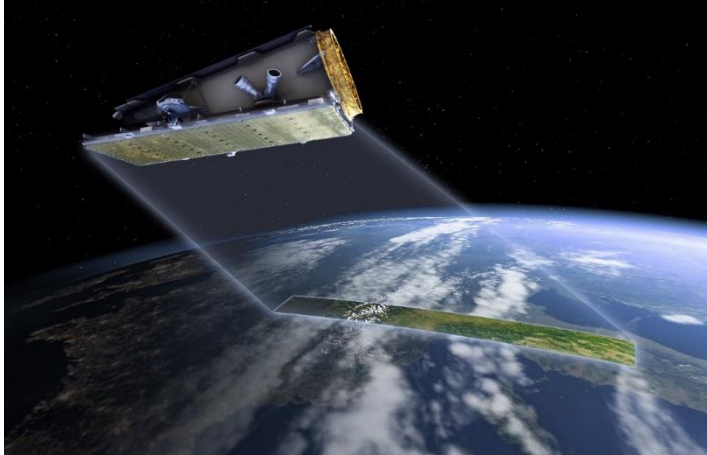
Access to NovaSAR-1 Data

- Image Tasking Requests
- NovaSAR-1 National Facility Datahub
- CEOS-ARD NRB PFS 5.5
- NovaSAR-1 CEOS- ARD Status and Access
- Access to other partners NovaSAR-1 data
- Current Status and Next Steps
- Impact Reporting



NovaSAR-1

- a low-cost SAR technology demonstrator by Surrey Satellite Technology Ltd, UK (SSTL), and Airbus DS, funded by the UK Space Agency



(Image credit: SSTL)

CSIRO acquired a 10% share in the acquisition and tasking capacity of this new satellite, providing the nation with a first-ever sovereign civilian EO satellite capability

3 | NovaSAR-1 Operational Updates and its CEOS-ARD NRB Access | Zhou et al.

| Parameter | Value |
|----------------------------|---|
| Imaging frequency band | 3.1-3.3GHz (S-band) |
| Antenna | Microstrip patch phased array (3m x 1m) |
| No. of phase centers | 18 |
| Peak RF power | 1.8kW |
| Polarisations | HH, HV, VV |
| Imaging polarization | Single, dual, tri- or quad polar |
| Design life | 7 years |
| Mass | <400kg |
| Optimum orbit | 583km |
| Propulsion system | Xenon |
| Payload duty cycle | 2-4min per orbit |
| Payload data memory | Up to 544GBytes |
| Downlink rate | 400Mbps |
| TTC frequency band | S-band (2025-2110MHz, 2200-2290MHz) |
| Downlink frequency band | X-band (8.025-8.4GHz) |

Satellite Status

SSTL are happy with the current health and are proposing a 3-year extension to the contract which currently runs until Dec 2026.

Calibration is ongoing with annual campaigns

Orbital maintenance manoeuvres currently occur weekly due to reaching a solar maximum mid 2024 and to sync with the S-1 satellite



Image Tasking Requests

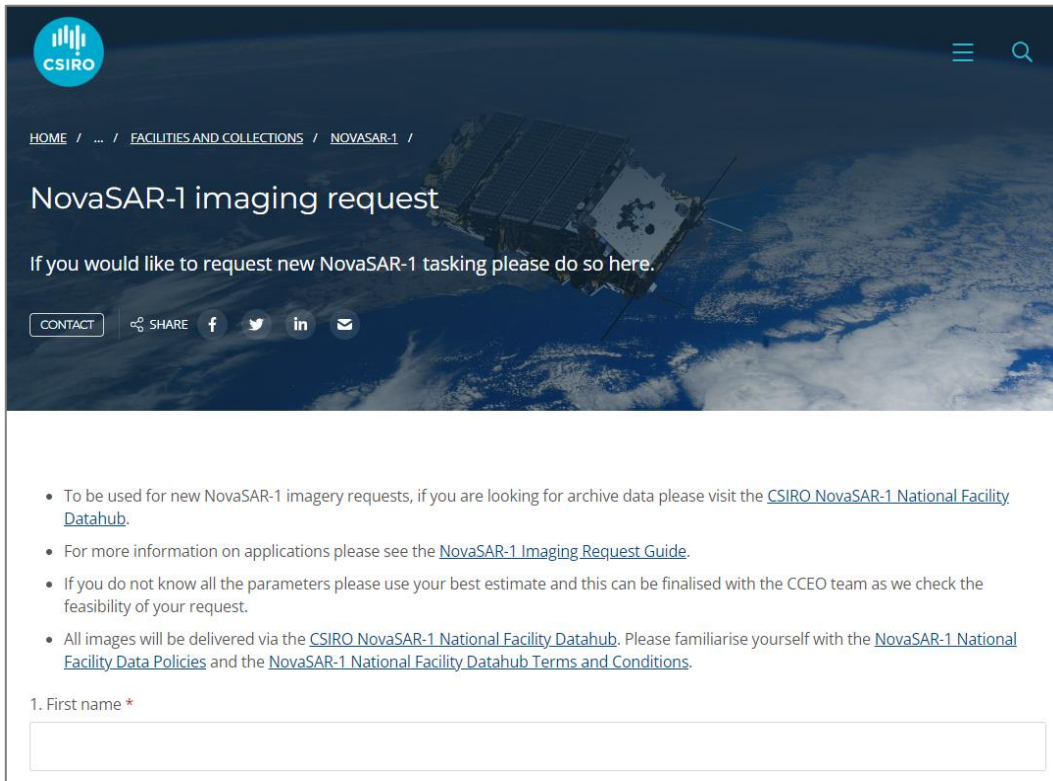
Always online form replaces the OPAL structure of open and closed submission periods

Requests are assessed on their feasibility and accepted, adjusted or rejected

Allows for faster response time

Fits better with other factors i.e. project timelines, budget cutoffs

Reviewed periodically by the team



HOME / ... / FACILITIES AND COLLECTIONS / NOVASAR-1 /

NovaSAR-1 imaging request

If you would like to request new NovaSAR-1 tasking please do so here.

CONTACT SHARE f t in e

- To be used for new NovaSAR-1 imagery requests, if you are looking for archive data please visit the [CSIRO NovaSAR-1 National Facility Datahub](#).
- For more information on applications please see the [NovaSAR-1 Imaging Request Guide](#).
- If you do not know all the parameters please use your best estimate and this can be finalised with the CCEO team as we check the feasibility of your request.
- All images will be delivered via the [CSIRO NovaSAR-1 National Facility Datahub](#). Please familiarise yourself with the [NovaSAR-1 National Facility Data Policies](#) and the [NovaSAR-1 National Facility Datahub Terms and Conditions](#).

1. First name *

<https://www.csiro.au/en/about/facilities-collections/NovaSAR-1/image-request>

<https://research.csiro.au/cceo/novasar-1-imaging-request-guide/>

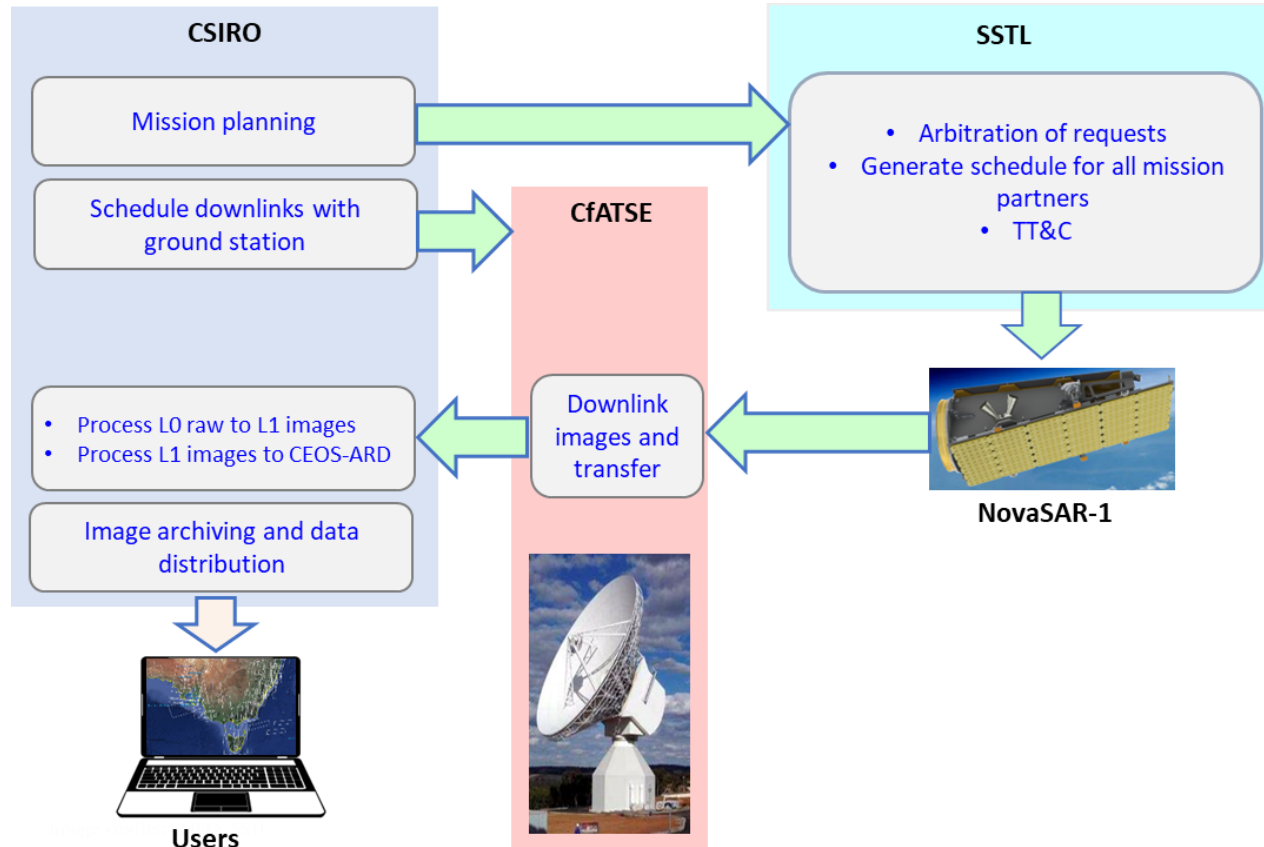
Capacity Share Usage

| Image Type | Average % of daily allocation Dec 22 – Nov 23 |
|---|---|
| CSIRO activities including TERN and Calibration | 16% |
| Science projects | 48% |
| Background | 31% |
| Disaster | 1% |

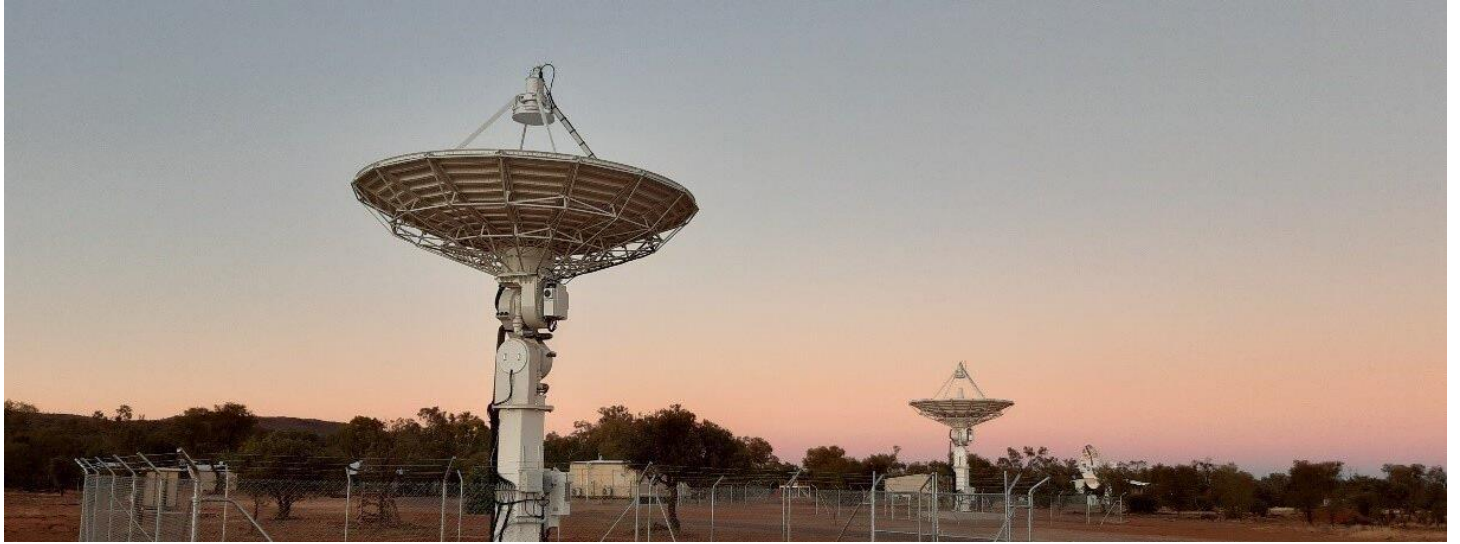
Daily allocation is split across the following four categories in order of priority:

1. Disaster acquisitions (Ad-hoc)
2. Merit-based Science projects
3. CSIRO activities
4. Background mapping

Ground Segment - Mechanism



Downlinks



Centre for Appropriate Technology Satellite Enterprises (CfATSE) operate the ViaSat Alice Springs antenna

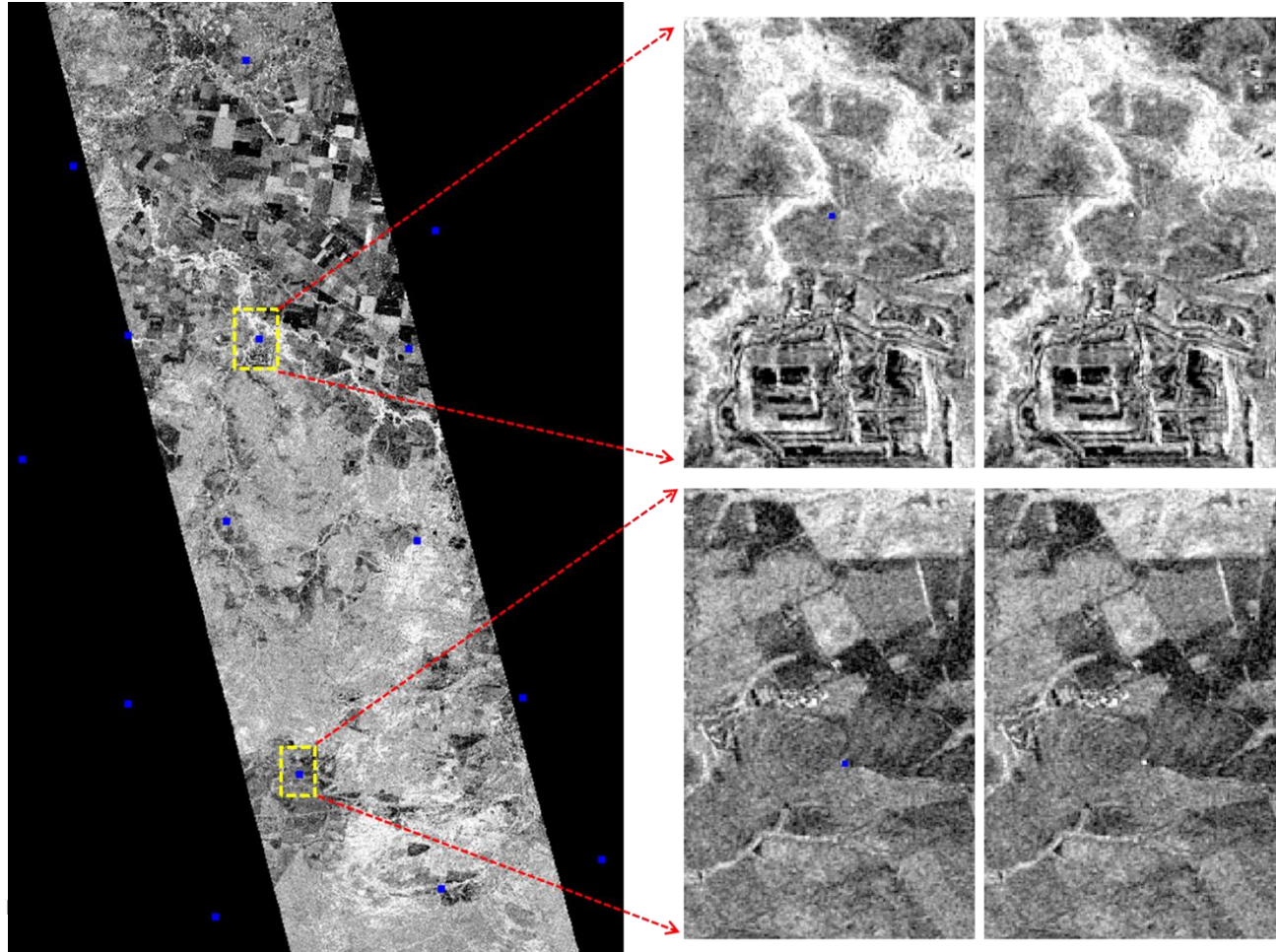
- Australia's first and only Aboriginal owned and operated space service provider
- Testing occurred in March and April 2022
- PR announcement followed operational acceptance
- Contract renewal underway
- Analysis of need for ARQ

Cal/Val

Cal Sites:

- QCRA - Queensland Corner Reflector Array
- WA Geodetic Station
- Future possible in Antarctica

Partial corner reflectors of QCRA are shown as blue dots on top of HH image of NovaSAR_01_33068_scd_220418_00564_4_HH_HV.zip (left), two zoomed-in subsets for the left yellow dashed-line rectangles with the blue dot of a corner reflector (middle) and the zoomed-in subsets for the left yellow dashed-line rectangles without the corner reflector location mark (right).



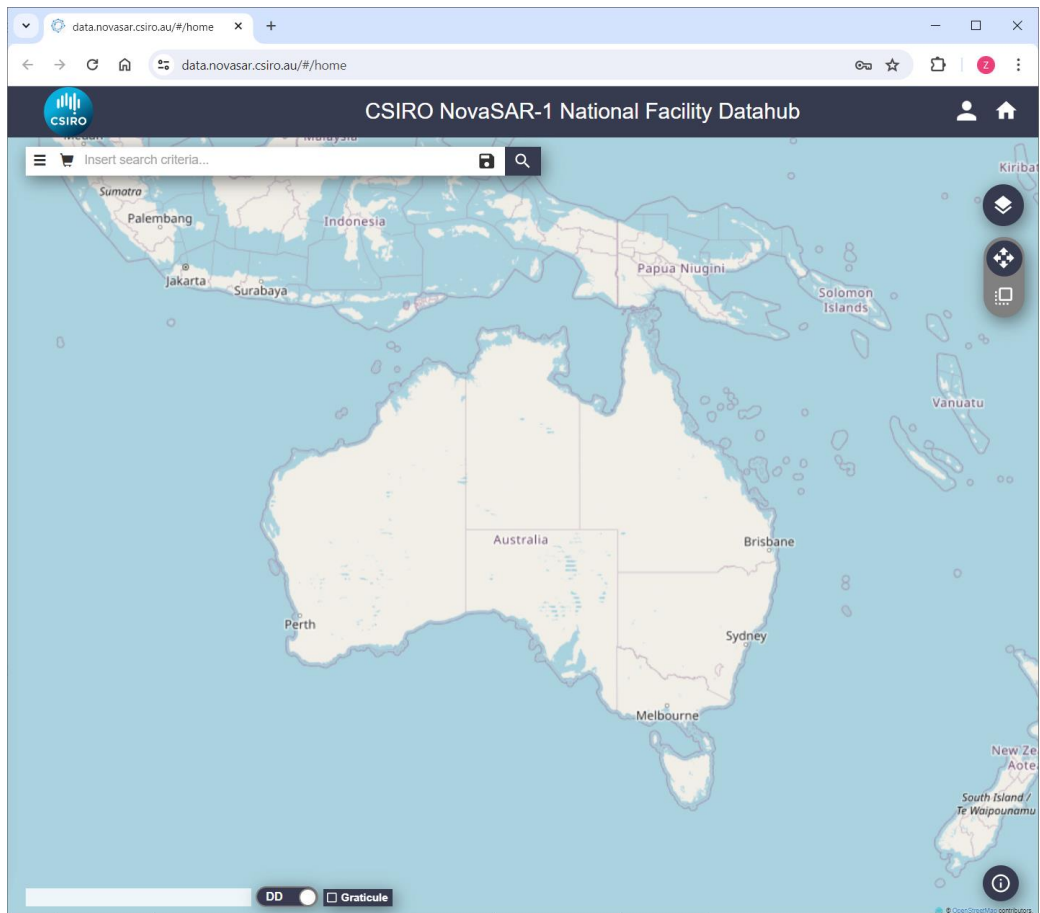
NovaSAR-1 National Facility (NNF) Datahub

The CSIRO NovaSAR-1 catalogue is available for free download online

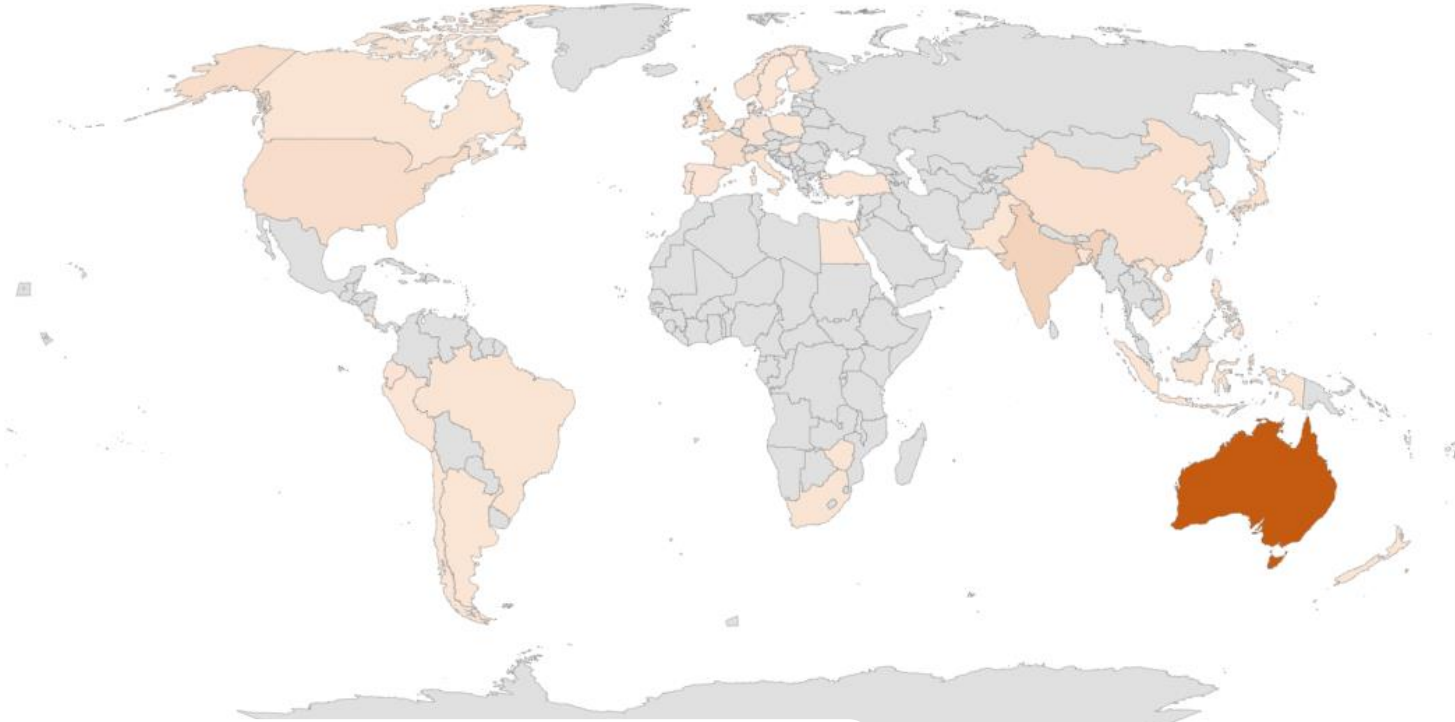
4800+ L1 products

2680+ CEOS-ARD NRB products (currently for acquisitions in Australia only)

<https://data.novasar.csiro.au/#/home>



Datahub – User Locations



On 3rd April 2024: 596 users registered from across 49 countries. 348 of these are Australian



150+ users/year



5+ countries/year

CEOS-ARD PFS

CEOS Analysis Ready Data (CEOS-ARD) are satellite data that have been processed to a minimum set of requirements and organized into a form that allows immediate analysis with a minimum of additional user effort and interoperability both through time and with other datasets.

CSIRO aims to process NovaSAR-1 source images to ARD products under the requirements of CEOS-ARD NRB (Normalised Radar Backscatter) PFS (Product Family Specifications) version 5.5.

Current Product Family Specifications

| PFS | Type | Version | Download | Metadata Spec | Last Updated |
|---|---------|---------|------------|---------------|------------------|
| Surface Reflectance | Optical | 5.0.1 | PDF Word | - | 6 December 2023 |
| Surface Temperature | Optical | 5.0 | PDF Word | - | 8 June 2020 |
| Aquatic Reflectance | Optical | 1.0 | PDF Word | - | 23 February 2022 |
| Nighttime Lights Surface Radiance | Optical | 1.0 | PDF Word | - | 2 October 2022 |
| Combined CEOS-ARD for Synthetic Aperture Radar (Normalised Radar Backscatter [NRB], Polarimetric Radar [POL], Ocean Radar Backscatter [ORB], Geocoded Single-Look Complex [GSLC]) | Radar | 1.0 | PDF Word | XLXS | 11 October 2023 |

In-progress Product Family Specifications

| PFS | Type | ETA |
|-------------------------------------|---------|------|
| Interferometric Radar (INSAR) | Radar | 2024 |
| LiDAR Terrain and Canopy Top Height | Optical | 2023 |

NovaSAR-1 CEOS- ARD Status



All archive NovaSAR-1 SCD (excluding Maritime mode) and GRD data acquired in Australian region have been processed into ARDs



Submitted CSIRO self-assessment for CEOS-ARD NRB PFS v5.5 compliance review to CEOS in August 2023



CEOS Review results were released on 5 October 2023: 14 CSIRO NovaSAR-1 NRB products have been evaluated as CEOS-ARD compliant at the threshold level



On 21 March 2024, the processed archive completed ingestion to the datahub and the AWS processing was integrated into the NovaSAR-1 image processing chain

[NovaSAR-1 CEOS-ARD compliance self-assessment reports, ARD samples & application demos can be found from previous LSI-VC-13 and 14 meetings](#)

NovaSAR-1 CEOS-ARD Access via NNF Datahub

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page header includes the CSIRO logo and the title "CSIRO NovaSAR-1 National Facility Datahub".

The main content area features a search bar with the placeholder text "Insert search criteria...". Below the search bar is a section titled "Upload Shape File For Geographical Selection" with a "Choose file" button and an "Upload" button. A note below this section states: "You can also drag & drop the shapefile on map. Only files with extension .shp are supported. Shapefiles are limited to one record of type POLYGON and must be no larger than 5.00 MB."

The "Advanced Search" section includes several filters:

- Sort By:** Ingestion Date
- Order By:** Descending
- Sensing period:** 2024/01/01 to 2024/02/29
- Ingestion period:** (empty)
- Mission:** NovaSAR
- Product type:** (empty)
- Pass direction:** (empty)
- Antenna pointing:** (empty)
- Polarisation:** (empty)
- Operational mode:** (empty)
- Format:** ARD (selected), GEOTIFF

The right side of the interface shows a map of Australia with labels for Perth, Melbourne, Sydney, Brisbane, and Australia. The map also shows parts of Indonesia and Papua New Guinea. A search icon is visible in the top right corner of the map area.

At the bottom of the interface, there are buttons for "DD" and "Graticule", and a small information icon in the bottom right corner.



NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page header includes the CSIRO logo and the title "CSIRO NovaSAR-1 National Facility Datahub".

Below the header, there is a search bar with the placeholder text "Insert search criteria...". To the right of the search bar, a map of Australia is visible, overlaid with numerous blue rectangular swaths representing SAR acquisition areas. Labels on the map include "Indonesia", "Papua Niugini", "Australia", "Perth", "Sydney", "Melbourne", and "Brisbane".

On the left side of the interface, a list of products is displayed. The list shows "Display 1 to 85 of 85 products." and "Order By: Ingestion Date ↓". A search request is shown: "Request Done: (footprint: \"Intersects(POLYGON((112.73809519695918 -44.141869397828614,154.48659835384808 -44.141869397828614,154.48659835384808 -44.141869397828614,154.48659835384808 -44.141869397828614))\")".

The product list includes the following items:

- CEOS-ARD_NRB_v5.5_NovaSAR_01_52885_scd_29_240229_130459_HH...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('dac93c6-11')`
Size: 1.95 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('c6b2f620-76')`
Size: 1.65 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52800_scd_29_240224_123520_HH...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('9a34f216-c-')`
Size: 1.19 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52824_grd_13_240226_002659_HH...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('188f2de2-a5')`
Size: 525.66 MB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52817_scd_27_240225_123634_VV...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('4734e8bc-df')`
Size: 574.77 MB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52803_scd_27_240224_141008_VV...
Download URL: `https://data.novasar.csiro.au/odata/v1/Products('29c67040-c')`
Size: 363.93 MB

At the bottom of the product list, there is a pagination control showing "100" items per page and "page: 1 of 1". A shopping cart icon is also present.

The footer of the interface includes a "DD" button, a "Graticule" checkbox, and the CSIRO logo.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page header includes the CSIRO logo and the title "CSIRO NovaSAR-1 National Facility Datahub".

The main content area is divided into two sections. On the left, a search results panel displays a list of products. At the top of this panel, it indicates "Display 1 to 85 of 85 products." and "Order By: Ingestion Date". A search bar at the top of the panel contains the text "Request Done: (footprint: \"Intersects(POLYGON((112.73809519695918 -44.141869397828614, 154.48659835384808 -44.141869397828614, 154.48659835384808 -44.141869397828614, 112.73809519695918 -44.141869397828614))\")".

The product list includes the following items:

- CEOS-ARD_NRB_v5.5_NovaSAR_01_52885_scd_29_240229_130459_HH...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'dac93c6-1'`
Size: 1.95 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'c6b2f620-76'`
Size: 1.65 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52800_scd_29_240224_123520_HH...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'9a34f216-c'`
Size: 1.19 GB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52824_grd_13_240226_002659_HH...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'188f2de2-a5'`
Size: 525.66 MB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52817_scd_27_240225_123634_VV...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'4734e8bc-d'`
Size: 574.77 MB
- CEOS-ARD_NRB_v5.5_NovaSAR_01_52803_scd_27_240224_141008_VV...**
Download URL: `https://data.novasar.csiro.au/odata/v1/Products/'29c67040-c'`
Size: 363.93 MB

At the bottom of the product list, there is a pagination control showing "page: 1 of 1" and a shopping cart icon.

On the right side of the interface, a map of Australia is displayed with numerous blue rectangular footprints overlaid, representing SAR data collection areas. The map includes labels for "Indonesia", "Papua Niugini", "Australia", "Perth", "Sydney", "Melbourne", and "Brisbane".



NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL: `data.novasar.csiro.au/#/home`. The page title is "CSIRO NovaSAR-1 National Facility Datahub". The main content area displays the product ID: `CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L`. The URL for the product is: `https://data.novasar.csiro.au/odata/v1/Products('c6b2f620-7614-4d31-a401-b5fb8471c183')$value`. The interface is divided into several sections:

- Footprint:** A map showing the geographic footprint of the data.
- Quicklook:** A thumbnail image of the SAR data.
- Attributes:** A list of product attributes, including:
 - Summary
 - Instrument
 - Product
 - Platform
 - SourceProduct
 - ARDProduct
 - Format: ARD
- Inspector:** A list of files associated with the product, including:
 - Annotation
 - Measurement
 - Preview
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.xml
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.yaml
 - readme.txt

The interface also includes a sidebar on the left with a search bar and a list of products, and a map on the right showing the location of the data. The bottom of the interface features navigation controls, including a zoom slider and a download button.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL: data.novasar.csiro.au/#/home. The page title is "CSIRO NovaSAR-1 National Facility Datahub".

The main content area displays the product details for "CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L". The URL for this product is [https://data.novasar.csiro.au/odata/v1/Products\('c6b2f620-7614-4d31-a401-b5fb8471c183'\)/\\$value](https://data.novasar.csiro.au/odata/v1/Products('c6b2f620-7614-4d31-a401-b5fb8471c183')/$value).

The interface is divided into several sections:

- Footprint:** A map showing the geographic footprint of the data, outlined in blue.
- Quicklook:** A thumbnail image of the SAR data.
- Attributes:** A section containing a **Summary** and **Instrument** details.
 - Summary:**
 - Filename: CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939
 - Identifier: CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939
 - Size: 1.65 GB
 - Instrument:**
 - Instrument name: Synthetic Aperture Radar
 - Instrument short name: SAR
 - Mode ID: 8205
 - Operational mode: 50m_ScanSAR_HHHV
- Inspector:** A list of files associated with the product, including:
 - Annotation
 - Measurement
 - Preview
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.xml
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.yaml
 - readme.txt

The interface also features a sidebar on the left with a search bar and a list of product thumbnails, and a map on the right showing the location of the data footprint.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page title is "CSIRO NovaSAR-1 National Facility Datahub". The main content area is titled "CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L".

The interface is divided into several sections:

- Attributes:**
 - Summary:**
 - Instrument:**
 - Product:**
 - Ingestion Date: 2024-03-20T22:08:26.435Z
 - Platform:**
 - Platform name: NovaSAR-1
 - Platform NORAD identifier: 43619
 - Platform NSSDC identifier: 2018-071B
 - Platform serial identifier: 1
 - SourceProduct:**
 - ARDProduct:**
 - Format: ARD
 - Processing facility: CSIRO HPC Petrichor
 - Processing time: 2024-03-08T23:18:40.000Z
 - Product type: Cloud Optimized Geotiff (COG)
 - Script version: CSIRO's GAMMA Sequence for NovaSAR-1 SCD Data Processing - CEOS-ARD_NRB_PFS5.5 v3.3
 - Software version: GAMMA_Software-20230712
- Inspector:**
 - CEOS-ARD_NRB_v5.5_NovaSAR_01_5...29_240229_125939_HH_HV_D_L
 - Annotation
 - Measurement
 - Preview
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.xml
 - CEOS-ARD_NRB_v5.5_N1_product_metadata.yaml
 - readme.txt

The interface also features a map on the right side showing the location of the data, with labels for "Brisbane" and "Sydney". The bottom of the interface includes navigation controls (back, forward, close, download) and a "DD" button.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page title is "CSIRO NovaSAR-1 National Facility Datahub".

The main content area is divided into two sections:

- Left Panel (List View):** Shows a list of SAR data products. The selected product is "CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L". The list includes columns for "Request Done" (with coordinates like -44.14186939) and "Display 1 to 8" (with "Order By: Ing").
- Right Panel (Inspector View):** Shows the details of the selected product. The title is "CEOS-ARD_NRB_v5.5_NovaSAR_01_5..._29_240229_125939_HH_HV_D_L". It lists several annotations with download links:
 - CEOS-ARD_NRB_v5.5_GammaToSigmaRatio_N1_52883_scd_29_D_L_20240229T125939.tif
 - CEOS-ARD_NRB_v5.5_LocallincidenceAngle_N1_52883_scd_29_D_L_20240229T125939.tif
 - CEOS-ARD_NRB_v5.5_Mask_N1_52883_scd_29_D_L_20240229T125939.tif
 - CEOS-ARD_NRB_v5.5_ScatteringArea_N1_52883_scd_29_D_L_20240229T125939.tif

The interface also features a map on the right side showing the location of the data (near Brisbane and Sydney) and a bottom navigation bar with navigation arrows and a download icon.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page title is "CSIRO NovaSAR-1 National Facility Datahub". The main content area shows a file list for the dataset `CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L`. The file list is organized into sections: "Measurement" and "Preview".

Measurement

- CEOS-ARD_NRB_v5.5_Gamma0_HH_N1_52883_scd_29_D_L_20240229T125939.tif
- CEOS-ARD_NRB_v5.5_Gamma0_HV_N1_52883_scd_29_D_L_20240229T125939.tif

Preview

- Map_Overlay_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L.bmp
- Map_Overlay_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L.kml
- QL_image_HH.tif
- QL_image_HV.tif
- CEOS-ARD_NRB_v5.5_N1_product_metadata.xml
- CEOS-ARD_NRB_v5.5_N1_product_metadata.yaml
- readme.txt

The interface also includes a sidebar with a search bar, a list of items, and a map view on the right side showing the location of the data. The bottom of the interface features navigation controls and a "DD" button.

NovaSAR-1 CEOS-ARD Access via NNF Datahub –cont.

The screenshot displays the CSIRO NovaSAR-1 National Facility Datahub interface. The browser address bar shows the URL `data.novasar.csiro.au/#/home`. The page title is "CSIRO NovaSAR-1 National Facility Datahub". The main content area shows a metadata view for the dataset `CEOS-ARD_NRB_v5.5_NovaSAR_01_52883_scd_29_240229_125939_HH_HV_D_L`. The metadata is organized into a tree structure:

- metadata
 - GeneralMetadata
 - Product
 - DocumentIdentifier: `https://ceos.org/ard/files/PFS/NRB/v5.5/CARD4L-PFS_NRB_v5.5.pdf`
 - DataCollectionTime
 - SourceAttributes
 - CARD4LProductAttributes
 - PerPixelMetadata
 - RadiometricCorrections
 - BackscatterMeasurementData
 - NoiseRemoval
 - RadiometricTerrainCorrections
 - GeometricCorrections
 - GeometricCorrectionAlgorithms
 - DigitalElevationModel
 - GeoCorrAccuracy

The interface includes a left sidebar with a search bar and a list of dataset thumbnails. The right sidebar shows a map view with geographical markers for Kiribati, Vanuatu, and New Zealand. The bottom of the interface features navigation controls, including a zoom level of 100% and a "Graticule" toggle.

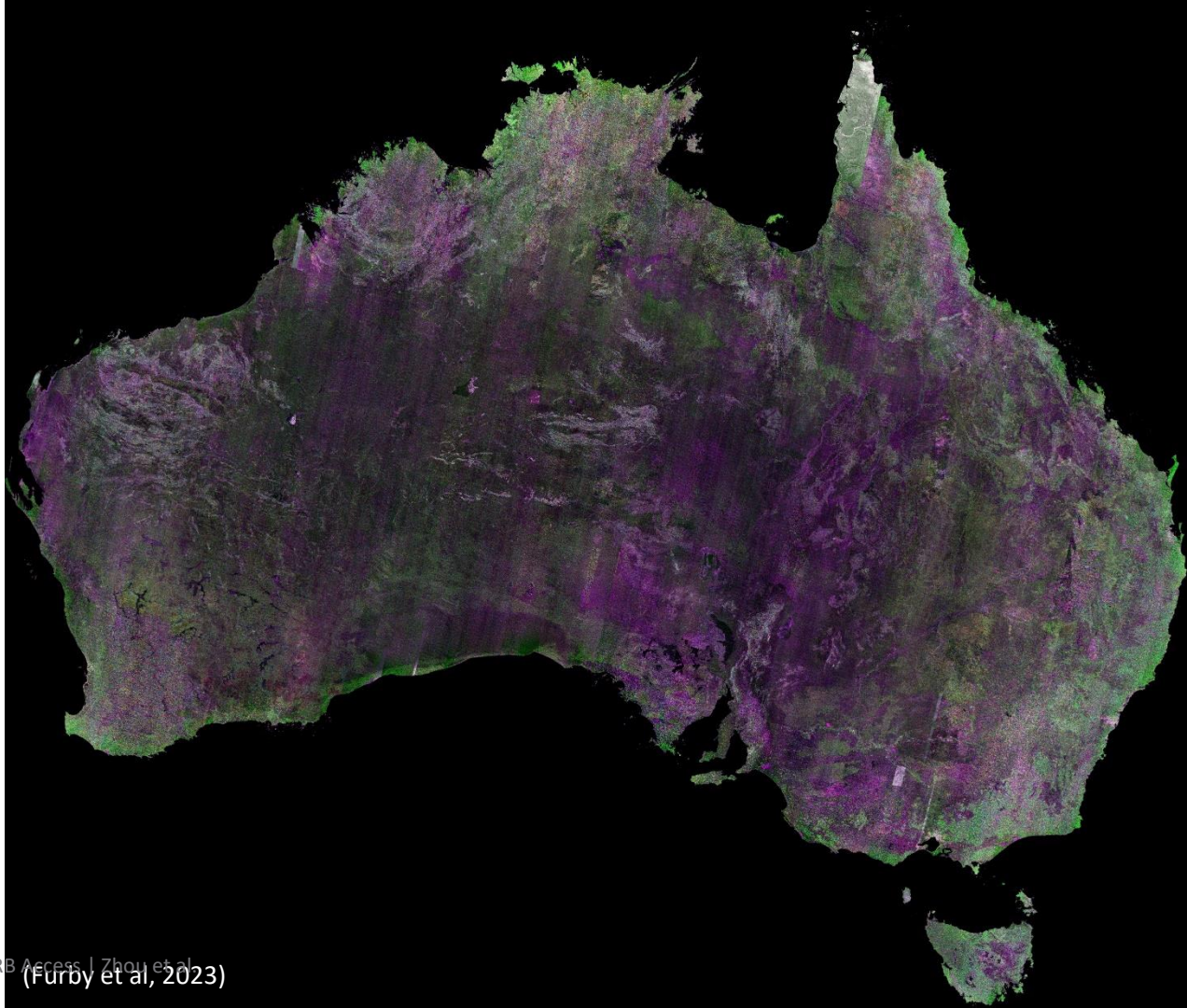
Access to Other Partners NovaSAR-1 data

| Acquisition Mode | Polarisation | Resolution (m) | Swath Width (km) | Incidence Angles | Number of Looks |
|------------------|--------------|----------------|------------------|------------------|------------------------|
| Stripmap | Single: HH | 6 | 20 | 16.0 – 25.38° | 3 (1 range, 3 azimuth) |
| | | | 13 – 20 | 21.29 – 31.2° | |
| | Single: VV | 6 | 20 | 16.0 – 25.38° | 3 (1 range, 3 azimuth) |
| | | | 13 – 20 | 21.29 – 31.2° | |
| ScanSAR | Single: HH | 20 | 100 | 15.0 - 24.66° | 4 (2 range, 2 azimuth) |
| | | | 50 | 24.51 - 28.94° | |
| | Single: VV | 20 | 100 | 15.0 – 24.66° | 4 (2 range, 2 azimuth) |
| | | | 50 | 24.51 - 28.94° | |
| | Single: HH | 30 | 150 | 11.29 – 25.93° | 4 (2 range, 2 azimuth) |
| | | | 55 | 27.35 - 32.01° | |
| | Single: VV | 30 | 150 | 11.29 – 25.93° | 4 (2 range, 2 azimuth) |
| | | | 55 | 27.35 - 32.01° | |

- In Jan 2024 ESA shared a NovaSAR-1 Announcement of Opportunity to use Airbus % share via the Third Party Mission (TPM) Programme
- Allows tasking over UK priority area and surrounding countries
- <https://earth.esa.int/eogateway/catalog/novasar-1-new-tasking>

Current Status and Next Steps

- Expand availability of ARDs outside of Australia
- Include CSIRO share in ESA TPM offering
- Promote 2023 mosaic to highlight NovaSAR-1 coverage
- Impact Reporting



Impact Reporting



An impact study will be important when considering the SSTL extension proposal



Aligns with new Chief Executive focus



Please share any outputs using NovaSAR-1 data with novasarinfo@csiro.au

We'd love to know of any:

- Publications
- Workshops
- Conferences
- Reports
- Case studies
- etc

Thank you

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