

## Release Notes

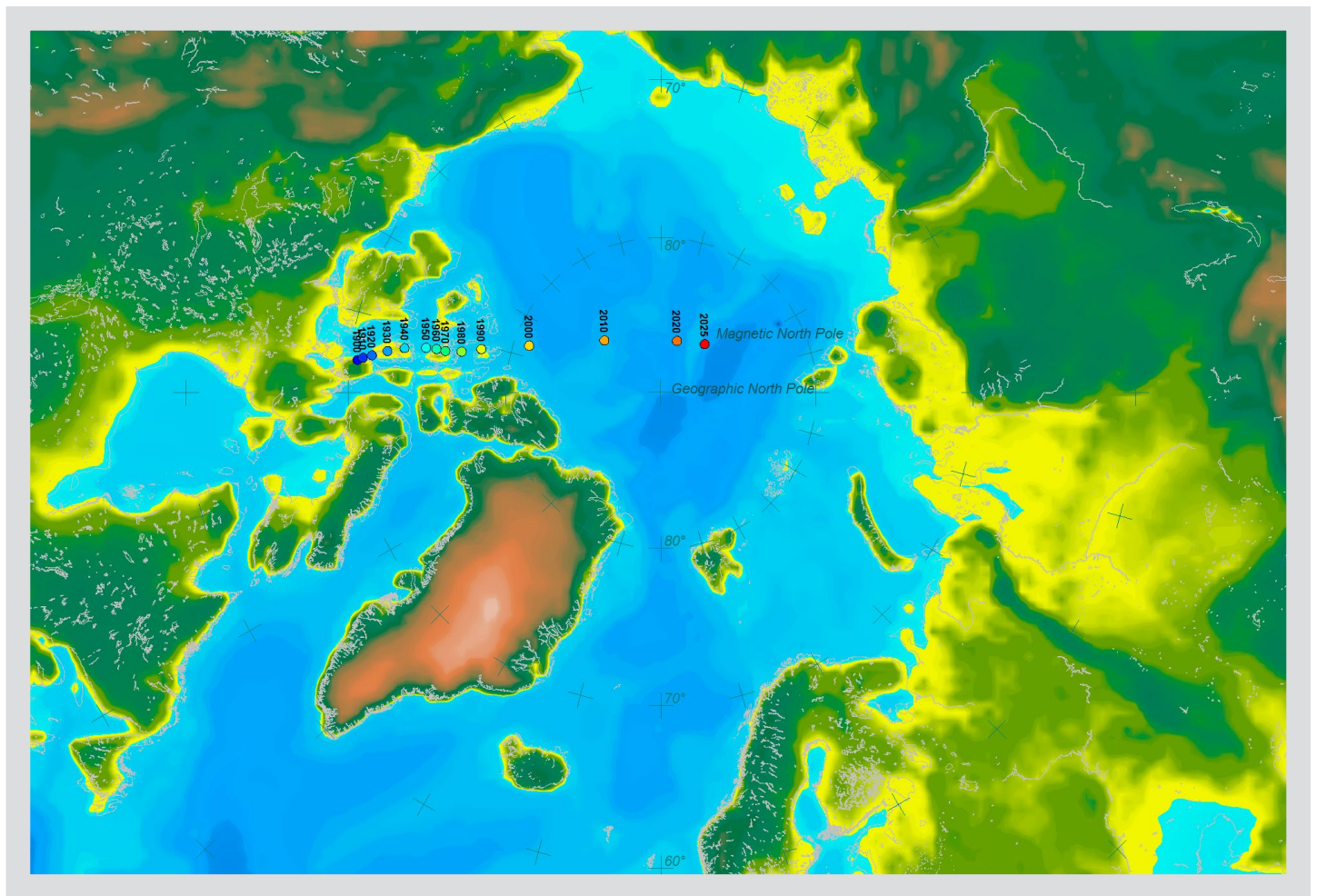
The Oasis montaj 2025.1 release reaffirms our commitment to advancing geophysics and improving data flow between geophysicists and geologists working on exploration projects. By integrating the latest scientific models, this update delivers greater accuracy and robust analysis tools. Key features include support for the International Geomagnetic Reference Field (IGRF) 2025, new geoid models for gravity corrections, improved GeoTIFF support, and better interoperability with Evo and Leapfrog.

## Table of Contents

New and Improved Features	2
Correct magnetic survey data with IGRF 2025	2
Standardise gravity data corrections with new geoid models	3
Import and Export GeoTIFF Section Images	4
Print Profile models to GeoTIFF images	5
Integrate geoscience objects with Evo	6
Key Evo features	6
Integrate and visualise geoscience objects with Evo and Leapfrog	7
Oasis montaj 2025.1 integration with Evo	8
Leapfrog 2025.1 integration with Evo	8
Updated Python environment	8
Bug fixes	9

# New and Improved Features

## Correct magnetic survey data with IGRF 2025

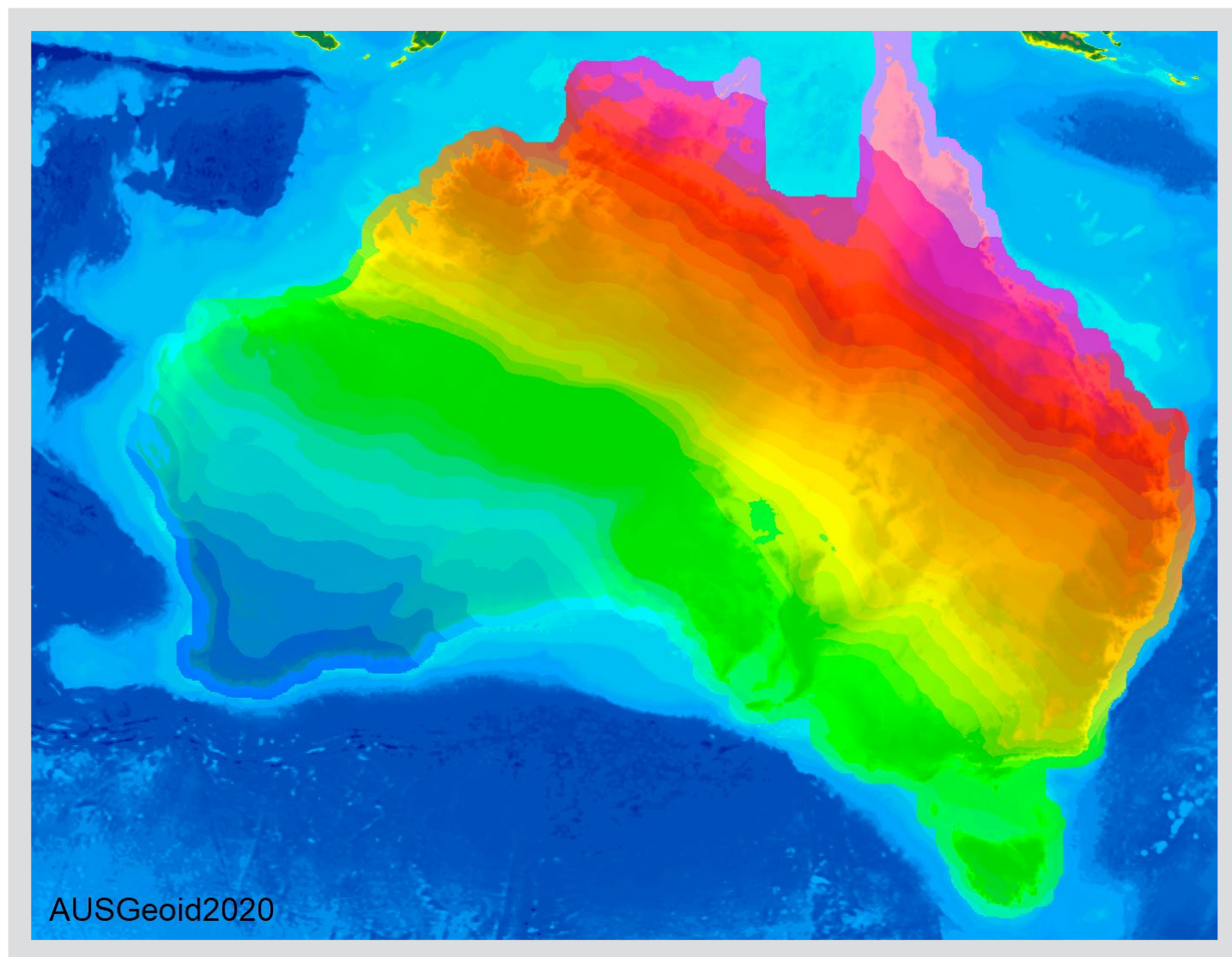


The 2025.1 release includes the latest coefficients for the 14th generation of the International Geomagnetic Reference Field (IGRF) model. The IGRF models the Earth's global magnetic field and its changes over time, with updates every five years based on actual observations and predictions.

With these new coefficients, you can calculate the Earth's dipole field's magnitude and direction at any given time and location. By subtracting this calculated dipole field from your magnetic survey data, the global dipole field component is removed, revealing smaller, local magnetic anomalies. The IGRF model can also be used to determine the appropriate field parameters for calculating a model's magnetic response.



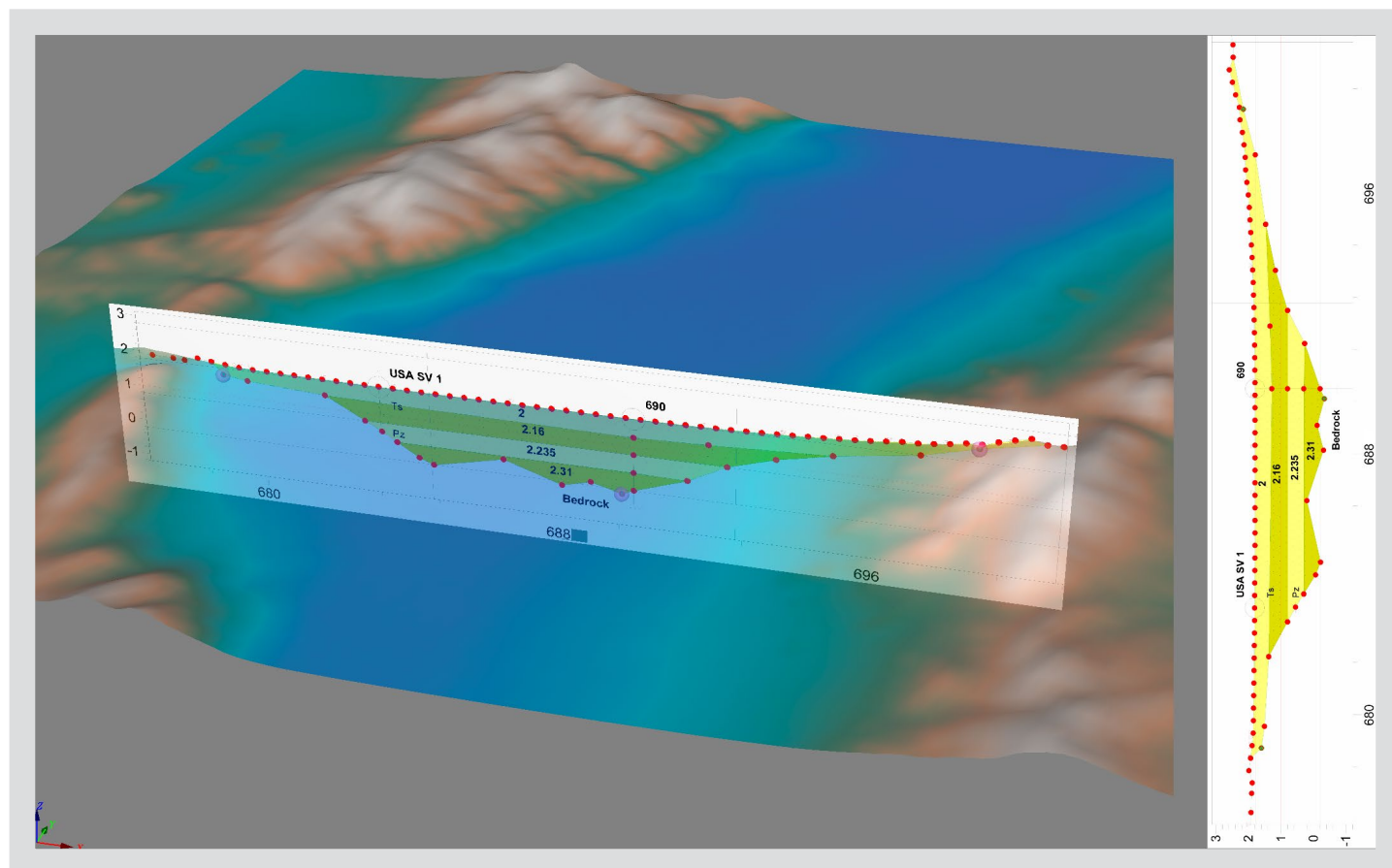
## Standardise gravity data corrections with new geoid models



The geophysics community is shifting from using geoidal height to ellipsoidal height for locating gravity surveys. Historically, gravity data was collected and reduced relative to the geoid (local sea level), but modern marine, airborne, and UAV survey platforms almost exclusively use GPS (ellipsoidal height) for geolocating sensors. Failure to correct for this discrepancy may result in artefacts in the data and inaccurate interpretations.

This release includes new geoid models that represent the difference in height between the geoid and the reference ellipsoid. This allows you to correct your data to your preferred common datum, ensuring consistency across your datasets. These new geoid models simplify merging historical and newer gravity datasets, providing a reliable method to address the discrepancy between datums.

## Import and Export GeoTIFF Section Images



In previous versions, a GeoTIFF could only be georeferenced using a single tie point and pixel size, which was suitable for plan views but inadequate for other orientations. The 2025.1 release introduces improved support for importing and exporting GeoTIFFs with arbitrary 3D orientations and georeferencing images as planes in any orientation.

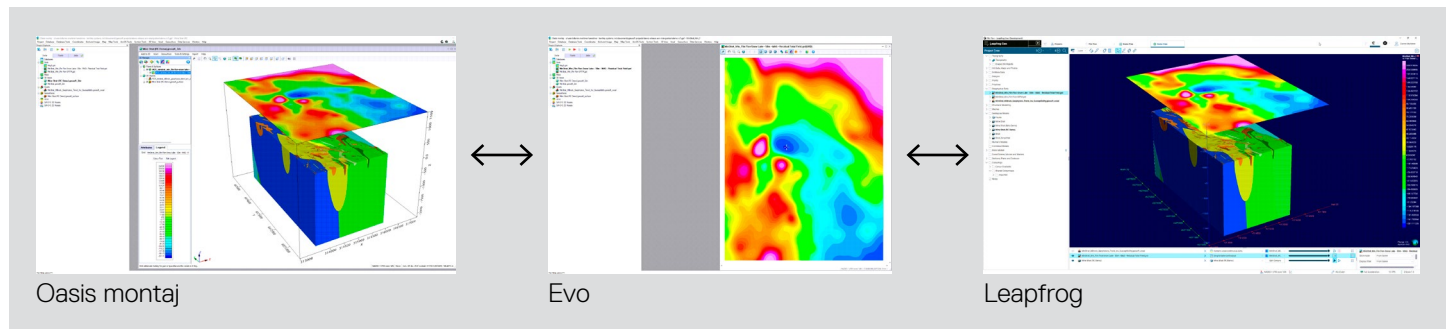
Updates include:

- Support for three arbitrary model tie points to orient planes in 3D space (most common).
- Support for model transformation matrix to orient planes in 3D space.
- Exported GeoTIFFs now always use three model tie points.
- Copying or converting data grids to colour GeoTIFF uses the assigned colour map.
- Oasis montaj Evo integration supports GeoTIFF as a “regular 2D grid”.

These improvements allow more accurate placement, visualisation, sharing, and use of oriented sections in GIS and mapping applications.

GeoTIFF images can be displayed in 3D visualisations in most interpretation, modelling, and GIS software packages. Displaying the model sections, anomaly curves, and other panels together in 3D makes it easier to compare the model with constraints and improves collaboration and usability.

## Integrate geoscience objects with Evo



Evo is a geoscience data and compute platform enabling integrated workflows and collaboration across Seequent and third-party products.

### Key Evo features

- **Integrated workflows:** Evo geoscience objects enable data sharing and visualisation between Seequent products like Oasis montaj and Leapfrog.
- **Geoscience objects:** Evo geoscience objects enable integrated workflows and collaboration in geophysical data processing, interpretation and visualisation, not only between Seequent products but also with third-party applications.
- **Collaboration:** Evo workspaces allow publishing, viewing, managing, and sharing geoscience data across multidisciplinary teams.
- **Data management:** Evo provides a centralised environment for storing and managing geoscience data, ensuring data integrity and facilitating collaboration.

## Integrate and visualise geoscience objects with Evo and Leapfrog

Evo includes a set of geoscience objects for integration and visualisation of geophysical data across various platforms, including Oasis montaj and Leapfrog. These objects support a wide range of data types and models, facilitating seamless data transfer.

Description	Geophysics Objects
Gravity Data	<a href="#"><u>gravity</u></a>
Magnetics Data	<a href="#"><u>magnetics</u></a>
Radiometric Data	<a href="#"><u>radiometric</u></a>
TDEM Data	<a href="#"><u>time-domain-electromagnetic</u></a>
FDEM Data	<a href="#"><u>frequency-domain-electromagnetic</u></a>
Resistivity & IP Data	<a href="#"><u>resistivity-ip</u></a>
Regular 2D Grid	<a href="#"><u>regular-2d-grid</u></a>
Regular 3D Grid	<a href="#"><u>regular-3d-grid</u></a>
Regular Masked 3D Grid	<a href="#"><u>regular-masked-3d-grid</u></a>
Tensor 2D Grid	<a href="#"><u>tensor-2d-grid</u></a>
Tensor 3D Grid	<a href="#"><u>tensor-3d-grid</u></a>
1D Model	<a href="#"><u>geophysical-records-1d</u></a>



To create workflows between Seequent products, through Evo, the 2025.1 releases of Oasis montaj and Leapfrog support the following geoscience objects required for data transfer.

### Oasis montaj 2025.1 integration with Evo

Geoscience object	Oasis montaj representation	Import from	Publish to
Regular 2D grid	Plan grid	Y	Y
	Section grid	Y	Y
Regular 3D grid	Voxel	Y	Y
Tensor 3D grid	Voxel	Y	Y
Triangle mesh	Geosurface	Y	N
Downhole collection	Drillhole project	Y	N
Geological model meshes	Geosurface file with surfaces	Y	N

### Leapfrog 2025.1 integration with Evo

Geoscience object	Import from	Publish to
Regular 2D grid	Y	N
Regular 3D grid	Y	N
Tensor 3D grid	Y	N
Triangle mesh	Y	Y
Downhole collection	Y	N
Geological model meshes	Y	Y

### Updated Python environment

Previous versions installed Miniconda, which was bundled with Anaconda. In this release, Miniconda will be replaced with an embedded Python package so users can continue using Python without needing an Anaconda license.

Customers on 2024.2 or earlier can contact support for guidance on manually removing Miniconda without affecting the functionality of Oasis montaj.

# Bug fixes

## Oasis montaj 2025.1

The following issues have been addressed for Oasis montaj **2025.1**:

### General

CN: N/A	In Seeker, folders with an ampersand in their names now correctly display their datasets in both tree and list views.
CN: 00062801	When importing a time-unit *.tbl file using the 2-channel lookup, the data is no longer subsampled and is imported at the correct frequency.
CN: 00200697	When exporting a database to CSV format, TIME and DATE channels retain their original formatting in the output file, just as they appear in the database.
CN: 00230956	When exporting data gridded at a 1m cell size to ER Mapper (*.ers) format, the grid header correctly retains the cell size information.
CN: 00231567	Running custom scripts no longer fails due to a previously incorrect file path value.
CN: 00231994	Shaded grid layers can now be correctly modified using the Colour Tool while preserving their association with their original grids.
CN: 00233143	LYRX files are now correctly oriented when imported into plan maps with angled sections.
CN: 00238353	Exporting a 2D map to a Geospatial PDF produces a correctly scaled and georeferenced file.
CN: 00239665	Extracting horizontal slices from a voxel no longer repeatedly triggers 'Gridding elevation #...' prompts.
CN: 00239820	Using the Copy/Convert Grid(s) option to generate a GeoTIFF Floating Point (*.tiff) file no longer causes a "striped" appearance in the output.

### Processing Extension Compudrape functionality

CN: N/A	The help files for the 'Compudrape' extension are once again accessible through the Drape1D and Drape2D GXs.
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### Basing Modelling GM-SYS functionality

CN: 00239007	Under FlexLM licensing, launching GM-SYS standalone from the GM-SYS Profile menu in Oasis montaj, no longer results in the error: "Error initializing CGX_NET object ("Message: Authorization has been denied for this request")".
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## Target 2025.1

The following issues have been addressed for Target **2025.1**:

CN: N/A	In Seeker, folders with an ampersand in their names now correctly display their datasets in both tree and list views.
CN: 00062801	When importing a time-unit *.tbl file using the 2-channel lookup, the data is no longer subsampled and is imported at the correct frequency.
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## Geosoft Viewer 2025.1

The following issues have been addressed for Geosoft Viewer **2025.1**:

CN: N/A	In Seeker, folders with an ampersand in their names now correctly display their datasets in both tree and list views.
CN: 00200697	When exporting a database to CSV format, TIME and DATE channels retain their original formatting in the output file, just as they appear in the database.
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CN: 00239820	Using the Copy/Convert Grid(s) option to generate a GeoTIFF Floating Point (*.tiff) file no longer causes a "striped" appearance in the output.

## DAP Server 2025.1

The following issues have been addressed for DAP Server **2025.1**:

### DAP Admin / DAP Server Enterprise

CN: N/A	Datasets that overlap an AOI with a latitude and/or longitude value of zero can now be downloaded successfully from the Geoscience Data Portal.
CN: N/A	In Seeker, folders with an ampersand in their names now correctly display their datasets in both tree and list views.