Technology Committee Report

National Association of Ordnance Contractors

Monthly Update

July 17, 2024

www.naoc.org

M2S2 Stand Down

- Tuesday, Dec. 10 – Thursday Dec. 12
- M2S2 at Redstone Arsenal
  - 12/10 – open to NAOC from 1 PM to 5 PM
  - 12/11 – open to NAOC from 8 AM to 5 PM
  - 12/12 – open to NAOC from 8 AM to 5 PM
- NAOC Annual Meeting at Embassy Suites
- More Information at
  - https://www.naoc.org/2024-annual-meeting
- Registration for M2S2
  - **M2S2 Stand Down Conference 2024 Registration (whova.com)**

M2S2 Stand Down

- Call for Presenters

Breakout Sessions	Special Interest Topics
Interesting Case Studies	Planning DUs, SUs
GIS	SLAM lessons learned
MEC Feasibility Studies	Drones lessons learned
Innovative solutions	RA phased approach
Underwater Technology	Risk-focused FS alternatives
All Things AGC	3rd party seeding lessons learned
Explosive Safety	3rd party vs in-house seeding
MC	
MR-QAPP	
Cost Engineering	

Contact Andrew Schwartz by August 2 to volunteer: andrew.b.schwartz@usace.army.mil

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USACE - NAOC M2G2 Call

- 2024 M2G2 Calls (2:00 PM Eastern)
  - August 14
  - November 13
- Recording of the 2/14 and 5/8 M2G2 calls are available on youtube.com
  - 2/14 - https://youtu.be/-siHHM5xDXE [youtu.be]
  - 5/8 - https://youtu.be/UUpjsrRk4lk
- Topic Suggestions for August 14 M2G2?
  - Send to Craig M., Harry W. or Jeffrey L.

Seeking Guest Editor

- A special section of SEG's The Leading Edge on Explosive Remnants of War has been proposed
- The special section will contain up to 8 articles
- Several groups (EEGS, USACE, SEG Europe, and NAOC) have been asked to help with editing the special section
- If you are interested in being a Guest Co-editor for the special section, contact craig.murray@parsons.us.

Oasis Montaj / UX-Analyze

- Most recent EDQW validated version – 2022.1
- EDQW validation is pending for 2022.2, 2023.1, 2023.2, and recently released 2024.1
- Upcoming Training Classes
  - **Oasis Montaj | UXO Land | Remote**
    - August 21-22 | 8:30am–12:30pm PDT | $690 USD |
    - **REGISTER HERE [discover.seequent.com]**

SERDP/ESTCP

- MR Spring In Progress Review – May 20-23
  - Jeffrey Leberfinger attended virtually to represent the NAOC Technology Committee
- MR July IPR – July 11-12
  - Alex Kostera and Brandon Puttroff attended virtually to represent the NAOC Technology Committee
- MR August IPR – August 12-13
- Are there critical needs in Munitions Response which SERDP/ESTCP should address? – Contact John Jackson

Miscellaneous Topics 1

- Geometrics is working on MM2x2 validation for One-pass classification planned for September
- Draft QSR Appendix B and C
  - Expect QSR 3.0 draft for review possibly by end of Sept.
- Steep Slopes requirements – No update
- MR-QAPP Toolkit Module 2 has been available for almost a year. EDQW will be looking for feedback and suggestions for improvement from NAOC
  - Send feedback to Harry.Wagner@WestonSolutions.com

Miscellaneous Topics 2

- Preliminary characterization critical density selection
  - EMCX plans to draft a white paper describing how to select critical density for preliminary characterization
  - The white paper will go to IDQTF; how that white paper will be issued is TBD
- PWS template – USACE has been working on a template, but that effort has become a lower priority with target date around the end of FY24
- Next Technology Committee Call – August 21, 2024

Discussion Topics

- Data Usability Seeds
- Concern – Industry does not fully understand the limitations of AGC for complex seed scenarios
- Suggestion – Initiate a government funded project to evaluate the capabilities of AGC with various complex seed scenarios possibly including:
  - Synthetic seeding
  - Field tests with different seed scenarios
- Industry implements data usability seeding on projects with complex seed scenarios which have been shown to be within the capabilities of current AGC technology.

Discussion Topics

- Possible future discussion topics:
  - Software Validation – is there a way NAOC could speed up the software validation process?
  - Defining SRA boundaries
  - Separating Ras into two contract actions, phase 1 AGC and phase 2 intrusive
  - Defining inaccessible areas including steep slopes
  - Insert your favorite topic of interest here by emailing craig.murray@parsons.us or harry.wagner@WestonSolutions.com

Technology Committee Contact

QUESTIONS?

Craig Murray, PGp

Chair

Phone: 720-219-3749

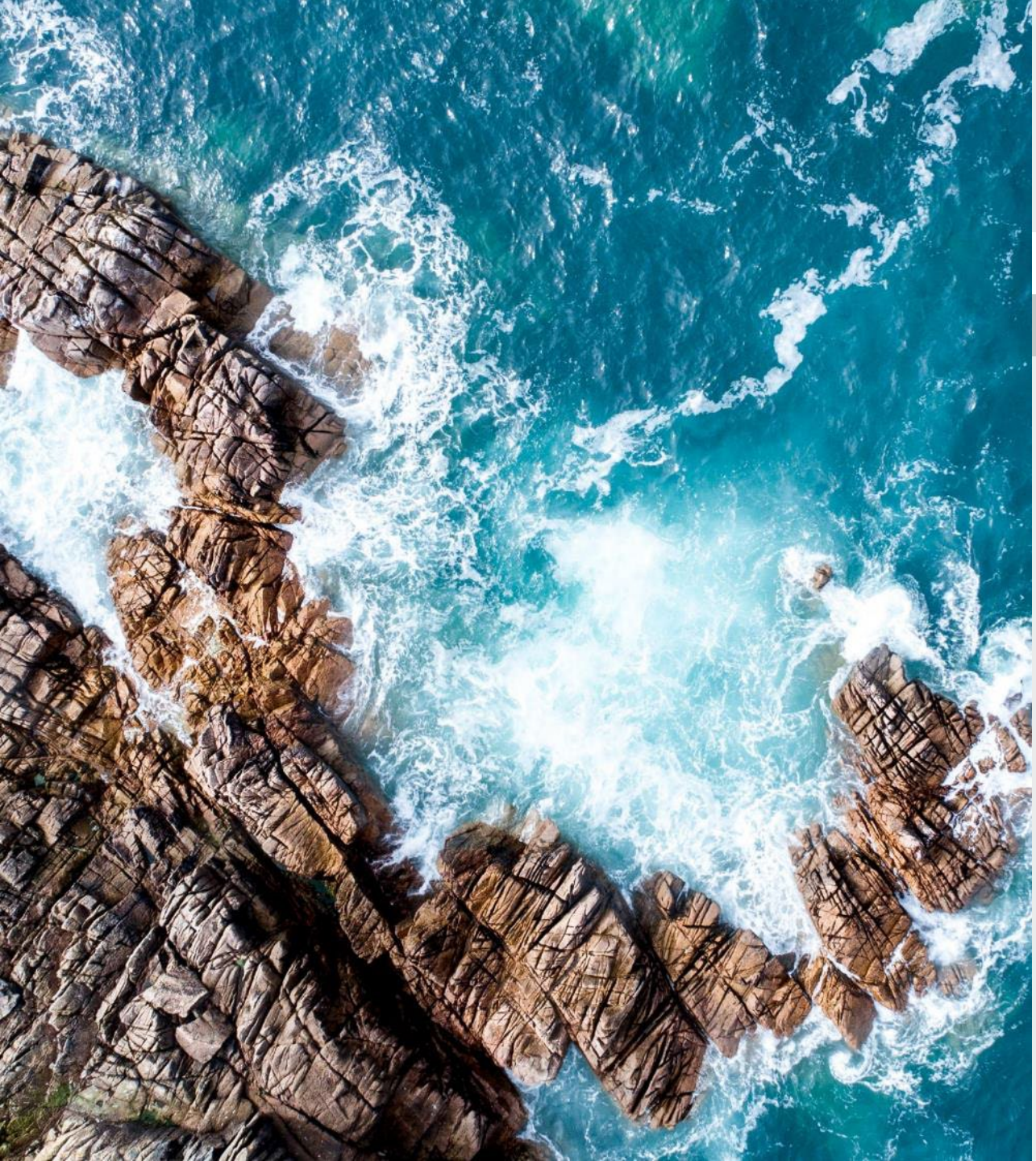
Craig.Murray@Parsons.us

Harry Wagner

Deputy Chair

Phone: 775-225-1424

Harry.Wagner@WestonSolutions.com



SEEQUENT

Oasis montaj 2024.1

July 2024

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Oasis montaj 2024.1

Geosoft

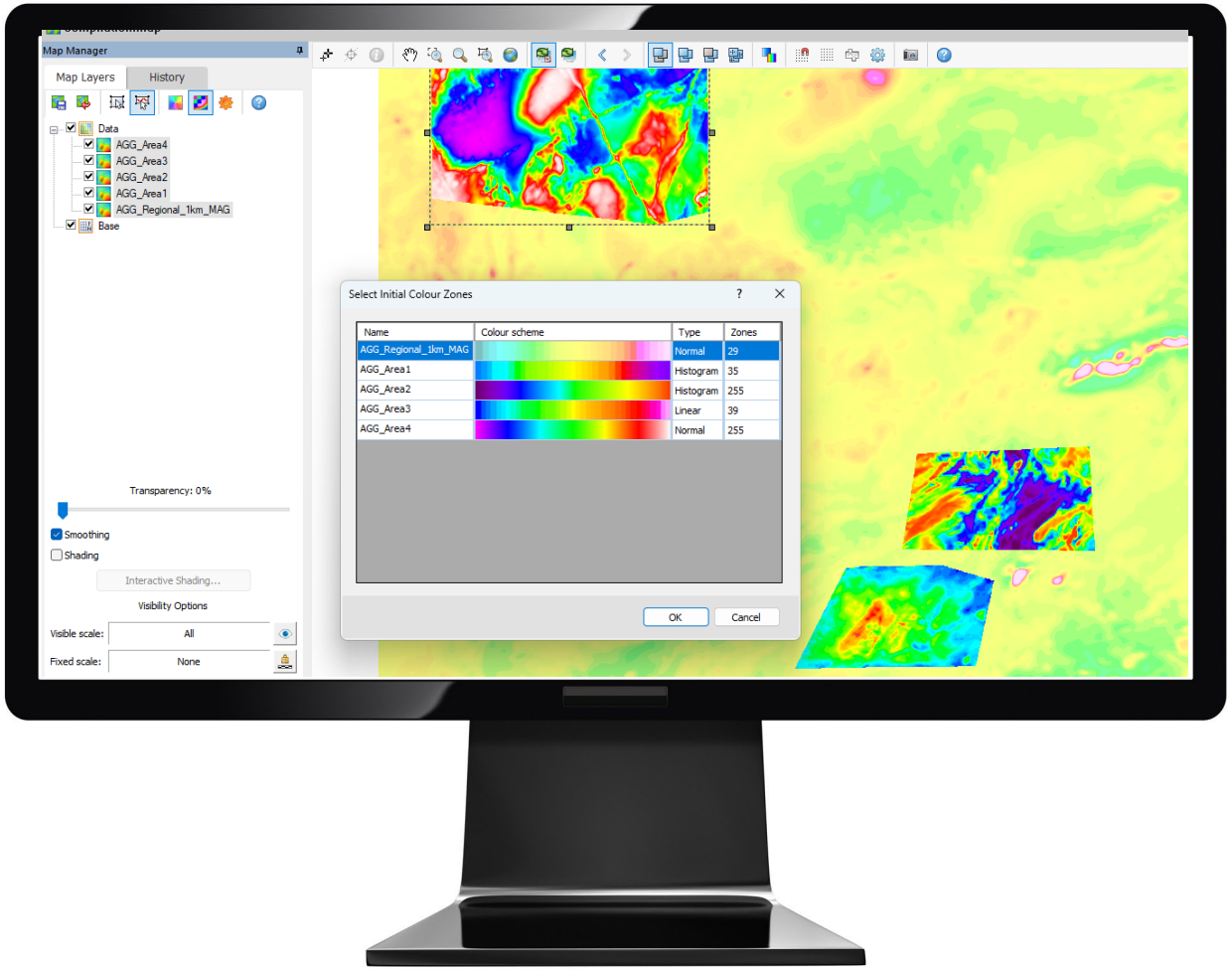
Work faster with less friction

Oasis montaj

- NEW Efficient colour management
- NEW Favourite colour schemes
- NEW Manage background jobs
- NEW Resolve broken file links in maps
- Interactive grid shading
- Accent characters in base maps

UX-Analyze

- Improved inversion algorithms
- NEW UltraTEM sensor support
- HDF v1 Format data from DAGCAP-approved sensors



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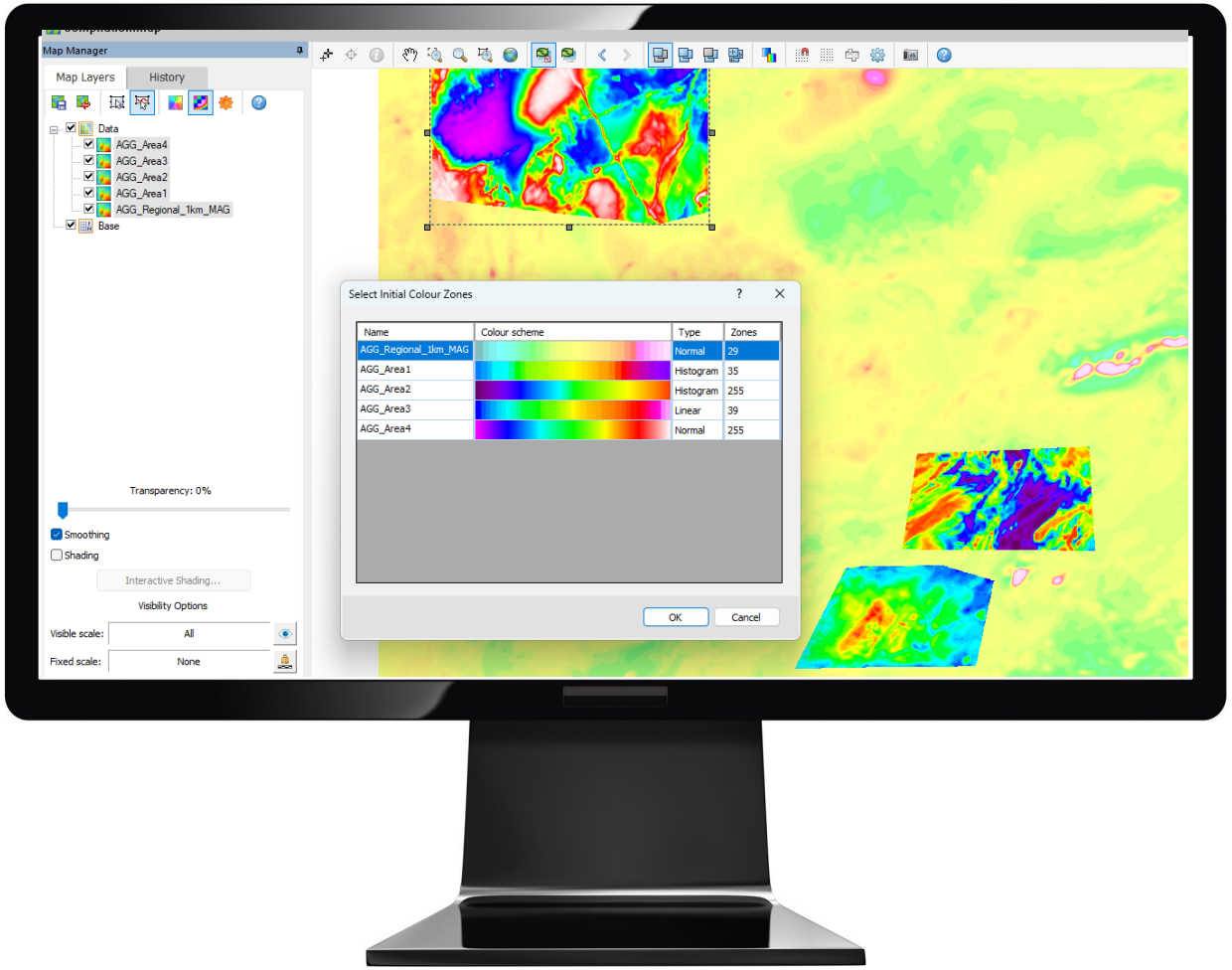
Efficient colour management

Oasis montaj 2024.1



Apply the same colour scheme to any number of grids or voxels at once.

Features: In a single step apply a colour scheme to multiple grids or voxels. Apply an existing scheme or generate a new colour scheme using the combined statistics. The Colour Tool is now intuitively accessible via the Project Explorer, Map Manager, or 3D View Manager.

Benefit: Efficiently compare datasets and generate consistent visual reports for multiple surveys or sections in maps and 3D views.

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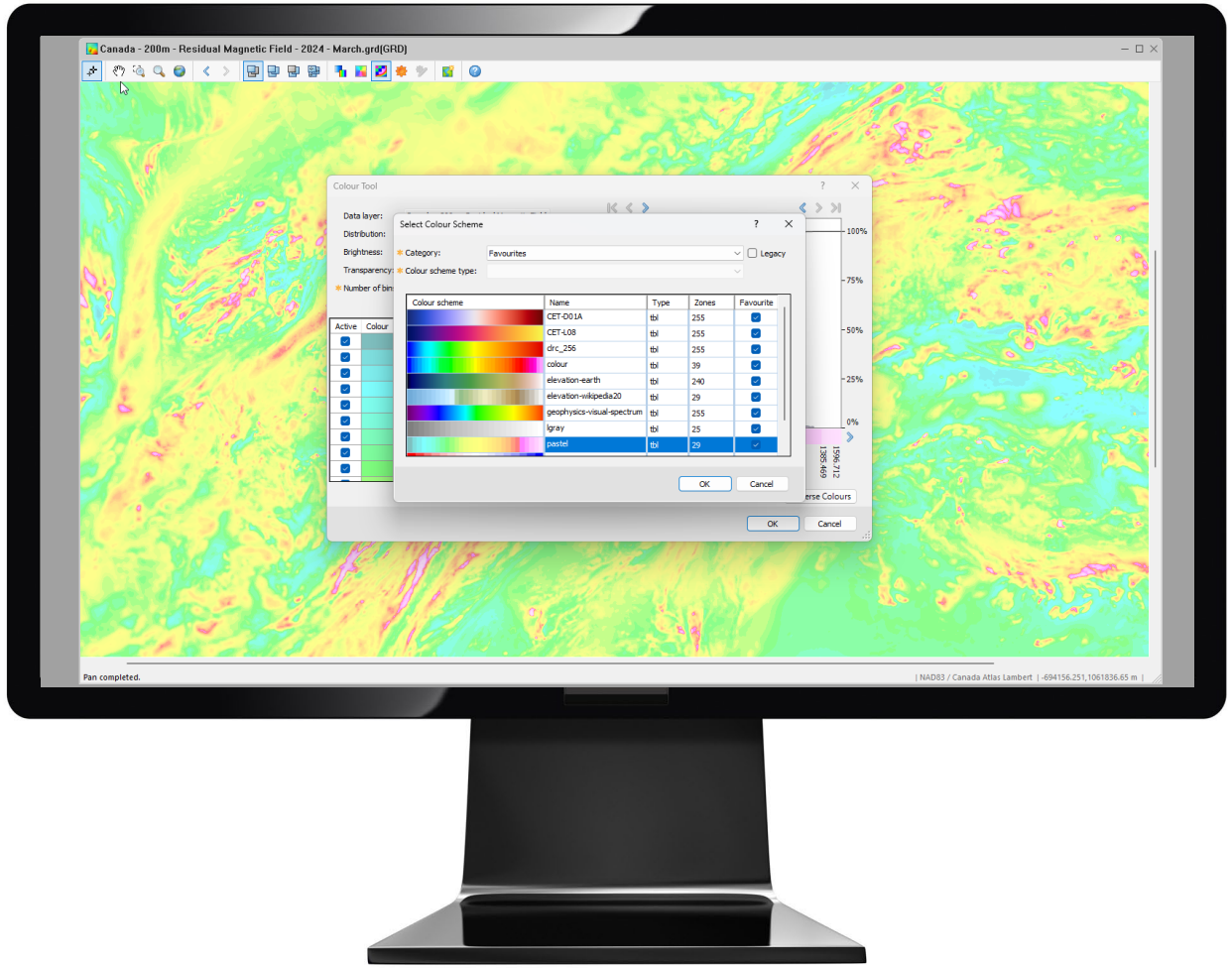
Favourite colour schemes

Oasis montaj 2024.1

Save your favourite colour schemes so that you can recall them more easily.

Feature: Mark any colour scheme as a “favourite” and access it easily from the Colour Tool.

Benefit: Simplifies choosing the colour schemes you use most frequently, reducing the number of mouse clicks required.



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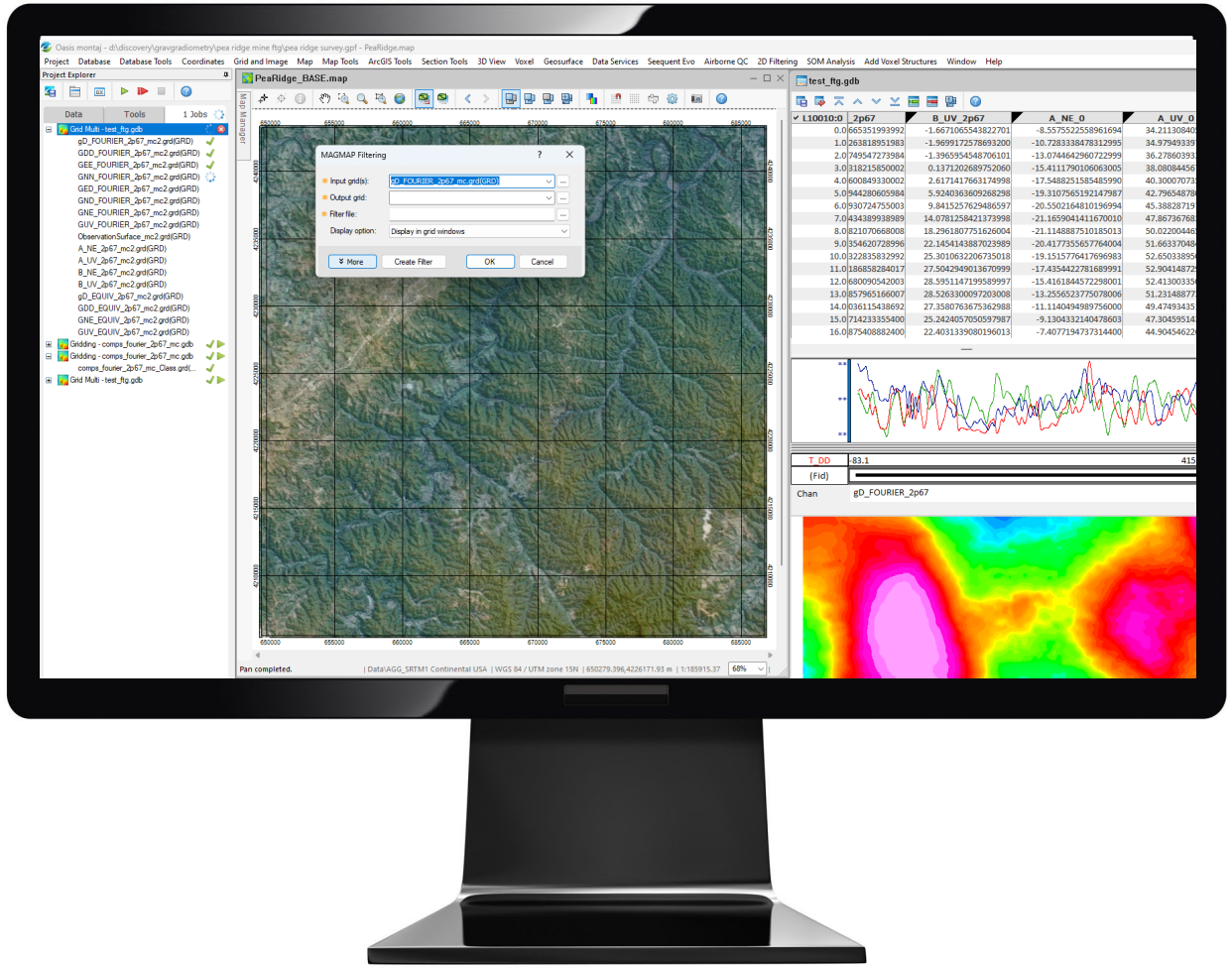
Background job management

Oasis montaj 2024.1

Monitor the progress of background jobs while you perform other tasks in Oasis montaj.

Feature: Monitor and manage gridding jobs running in the background in the Jobs Tab.

Benefit: Improves productivity by integrating foreground activities and background processing. Receive real-time status updates of background tasks without disrupting your workflow and improve multitasking. Easily re-run background processes with new or different data and parameters.



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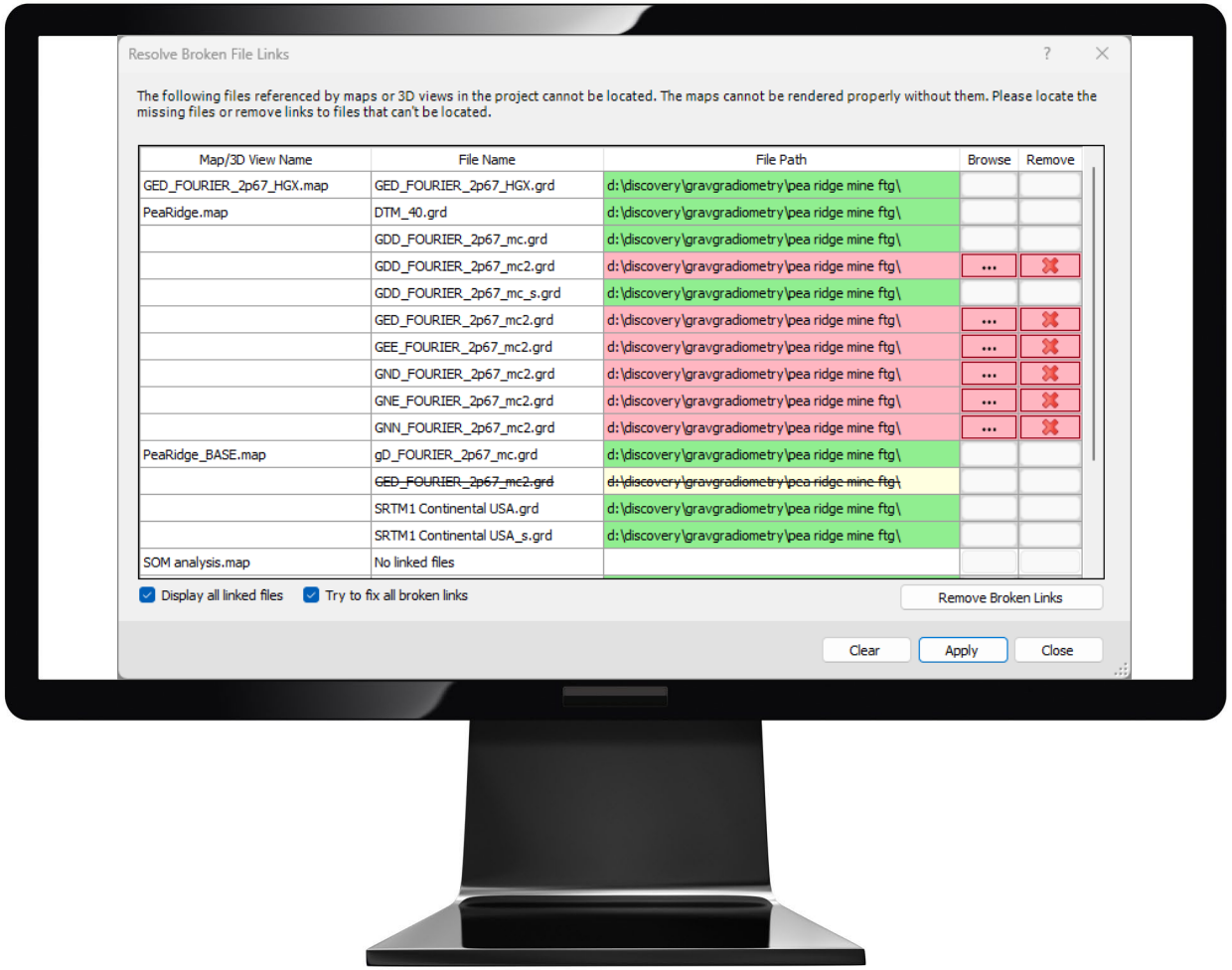
Resolve broken file links

Oasis montaj 2024.1

Move an Oasis montaj project and its data to a different location and easily remap links to files in maps and 3D views.

Feature: A user-friendly interface that simplifies remapping grids, voxels, and geosurfaces referenced in maps and 3D views and optionally searches for other files in the same directory. Links can be managed one at a time or all together.

Benefit: Efficiently remap files on network drives or file shares and avoid errors during object rendering.



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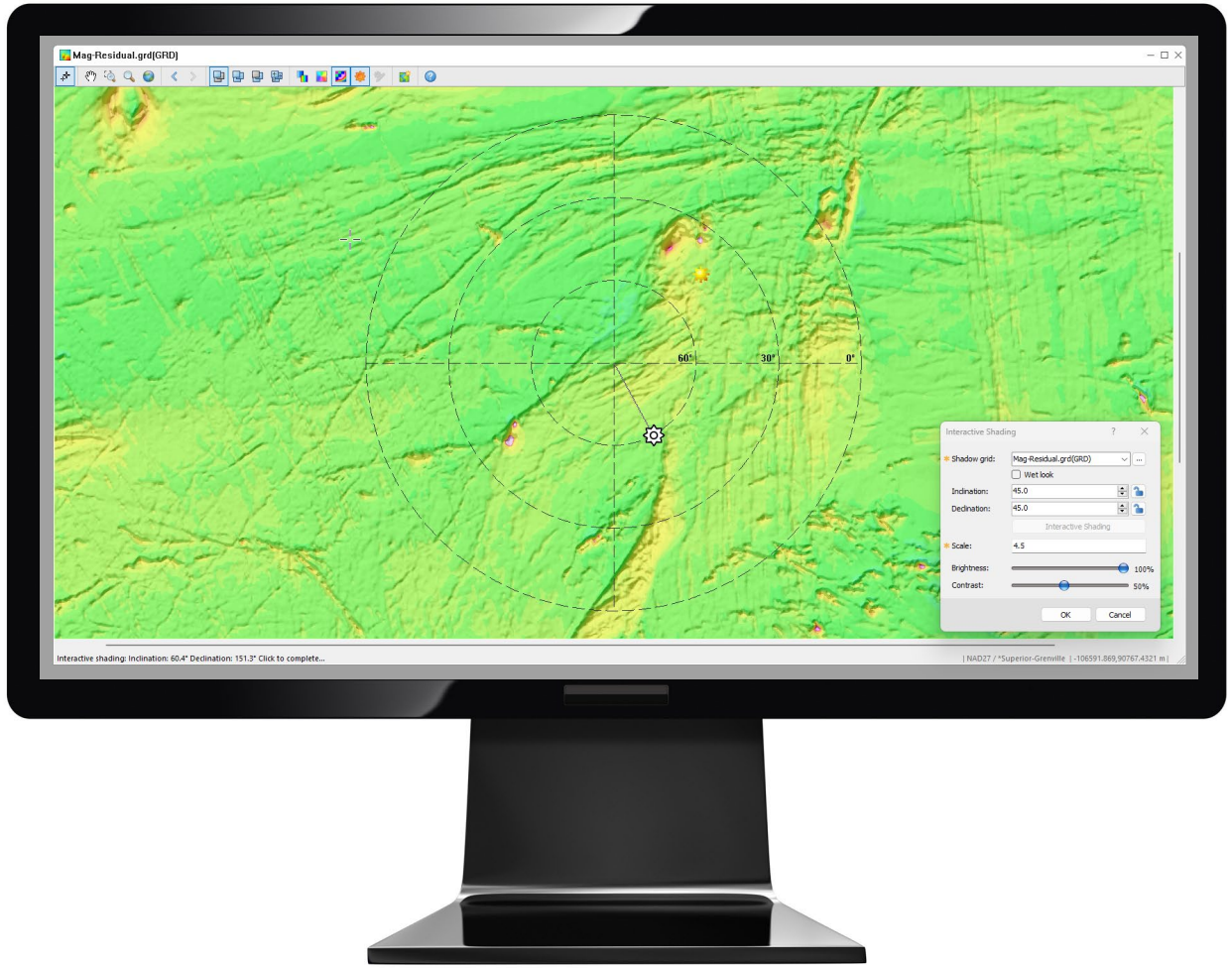
Interactive grid shading

Oasis montaj 2024.1

Interactive shading tool with adjustable sun position.

Feature: An interactive interface for shading adjustments that offers real-time feedback and a visual guide to determine the ideal shading angle.

Benefit: A more accurate representation of shading in the final renderings.



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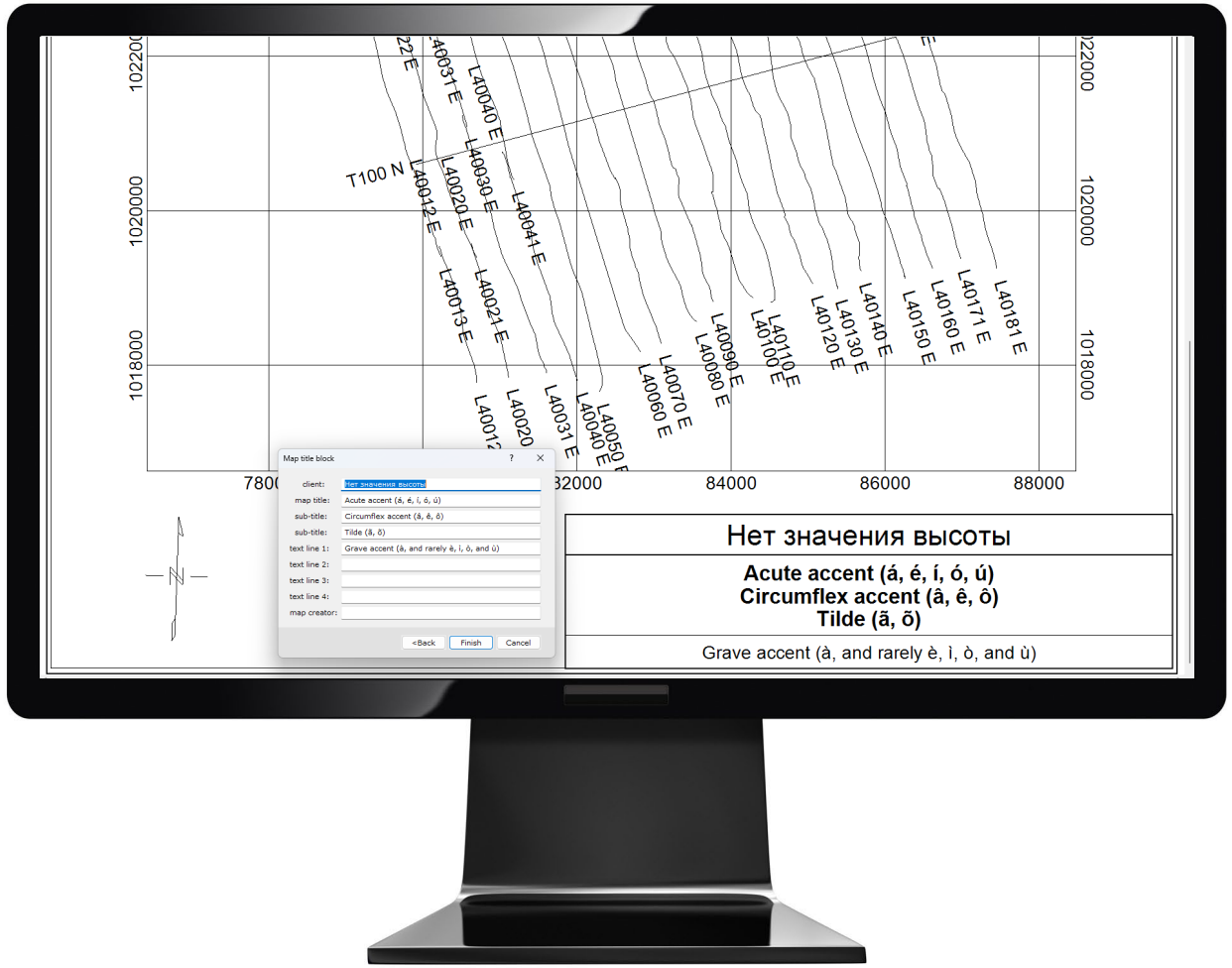
Accent characters in base maps

Oasis montaj 2024.1

Extended (accent) characters now render correctly in the base map.

Improvement: Fixed support for accent characters in base map title block.

Benefit: Improves language support, readability, and accessibility for global users.



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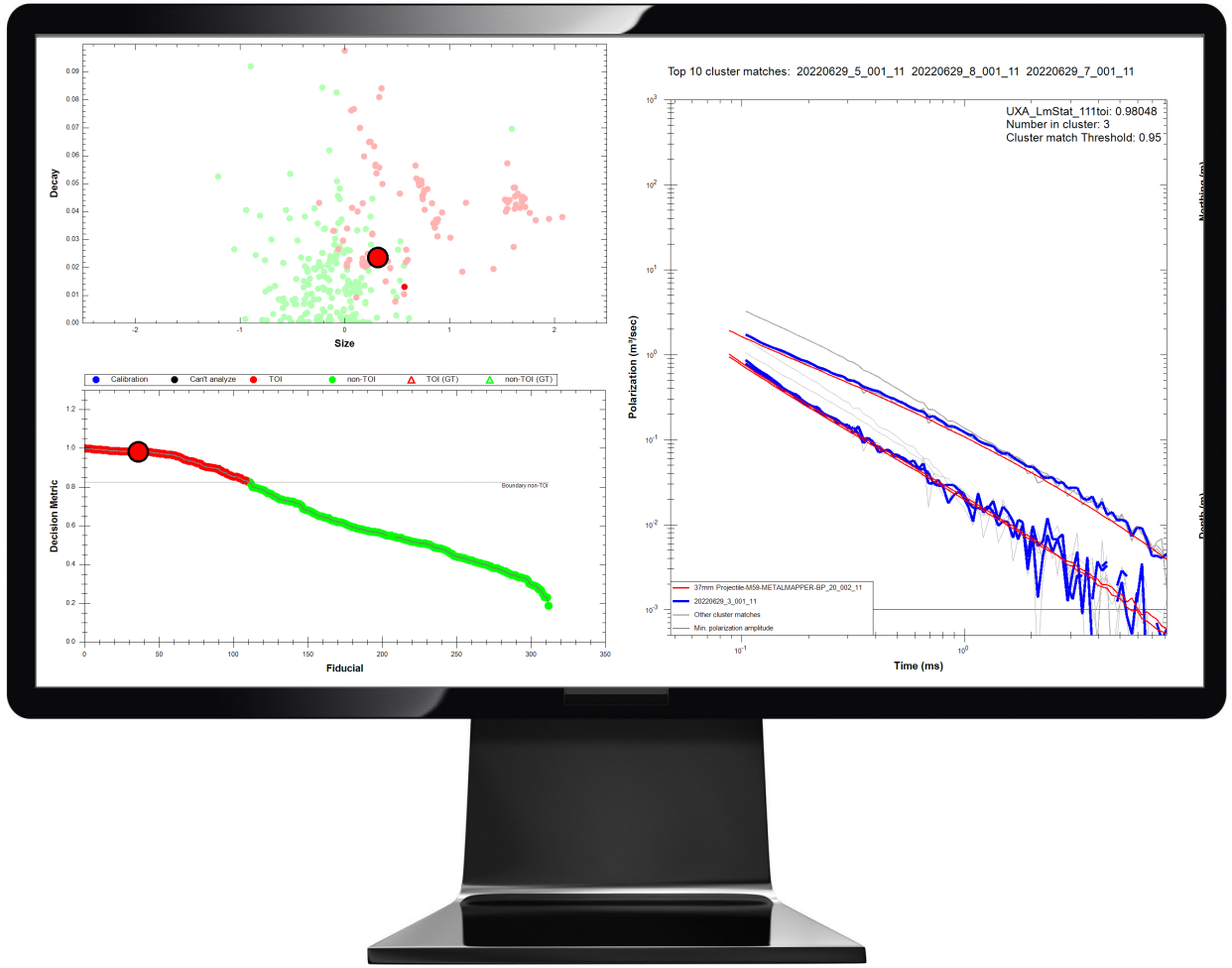
UX-Analyze Inversion

Oasis montaj 2024.1 UX-Analyze

Accelerated data processing.

Feature: A faster inversion algorithm and clear progress indicators for the Classify and Rank tools.

Benefit: Quicker inversion processing and a more intuitive and efficient workflow leads to faster results.



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UX-Analyze UltraTEM Support

Oasis montaj 2024.1 UX-Analyze

New sensor support.

Feature: HDF v1 format support for the UltraTEM Classifier sensor.

Benefit: Projects using an UltraTEM Classifier system can now directly import data in the HDF v1 format to Oasis montaj and use the dynamic workflow to process data and classify targets.

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UX-Analyze HDF version 1 support

Oasis montaj 2024.1 UX-Analyze

We now support all DAGCAP-approved sensors.

HDF v1 Format Support: Responding to the DoD's 2023 mandate, Oasis montaj and UX-Analyze can import data in HDF v1 format, sidelining the older .csv format.

Targeting Specific Needs: This enhancement caters to USA-based customers engaged in AGC projects.

Sensor	Manufacturer	CSV	HDF v0	HDF v1
Metal Mapper	Geometrics	Supported	n/a	n/a
TEM 2x2	NRL	Supported	n/a	n/a
MPV	G&G Geosciences	Supported	n/a	n/a
Metal Mapper 2x2	Geometrics	n/a	Supported	*Pending*
TEMSense	NovaTEM	n/a	n/a	Supported
MPV	AcornSI	Supported	n/a	Supported
APEX	White River Technologies	n/a	n/a	Supported
UltraTEM	Black Tusk Geophysics	n/a	n/a	**Supported**

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