## **Technology Committee Report** National Association of Ordnance Contractors

## Monthly Update December 20<sup>th</sup>, 2023





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# **NAOC Annual Meeting**

- □ December 11 Board Meeting and RMM Training
- December 12 Updates from DoD Leadership and NAOC Awards
- December 13 MR-QAPP Toolkit Module 2 Training
- Jeffrey Leberfinger stepped down as Technology committee chair (congratulations for earning multiple awards)
- Craig Murray was nominated as the new chair and elected by NAOC board of directors
- □ Jeffrey will continue to work with the committee
- □ Harry Wagner volunteered to continue as deputy chair
- Members are all welcome to continue participating



# **USACE - NAOC M2G2 Call**

## 2024 M2G2 Calls (2:00 PM Eastern)

- ✤ February 14
- ✤ May 8
- August 14
- November 13
- Primary Topics/Discussion:
  - Synthetic Seeding
  - CSM Updates and "Inaccessibility"
- Topic Suggestions
  - Send to Craig M., Harry W. or Jeffrey L.
- M2S2 No 2024 calls planned

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# **SERDP/ESTCP Program**

- New MR SERDP funding will stop in 2025. SERDP will continue to fund ongoing and recently selected projects for 2024 and earlier
- MR focus shifting to ESTCP and live site demonstration and validation at selected controlled sites and to transition to live sites selected by services
- □ SERDP/ESTCP Symposium occurred 11/28 12/1





- Abstracts open
- □ Due December 22<sup>nd</sup>, 2023
- □ The **abstract submission site** is open
- Planning for SAGEEP 2025 / 3<sup>rd</sup> Munitions
   Response Meeting in Denver underway. Hope to have the dates and venue selected by early 2024



# **Oasis Montaj / UX-Analyze**

- The latest version of Oasis Montaj was released on Monday, 2023.2
- Darren Mortimer will provide details about this latest version



# **Miscellaneous Topics 1**

□ Draft QSR Appendix B and C

- GCOs send comments directly to John Jackson using the form he provided
- Non-GCOs send comments to Craig Murray or Jeffrey Leberfinger
- Virtual UXO/Demining Geophysics Summit Being planned for April 30 – May 2 2024 (SEG, EEGS, NAOC)
- □ MR-QAPP Training in CA in January
  - February 1-2, Sacramento, CA (Full)
  - January 30-31, Cypress, CA (4 slots available)

https://www.trainex.org/classdetails.cfm?courseid=2011&classid=9489 [trainex.org]



# **Miscellaneous Topics 2**

- EM 200-1-15 No expected date. 2024 PWSs expected to include attachment with MQO table from EM 200-1-15
- Steep Slopes requirements EM CX is looking into it with overall USACE safety in mind
- MR-QAPP Toolkit Module 2 has been available for >6 months. EDQW will be looking for feedback and suggestions for improvement from NAOC
  - Harry W. volunteered to coordinate NAOC feedback Harry.Wagner@WestonSolutions.com
- Huntsville is hoping to host a MR stand down in December 2024; NAOC annual meeting coordinated. More details may become available before February committee call
- Next Technology Committee Call January 17, 2023

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# **Technology Committee Contact**

## **QUESTIONS?**

Craig Murray, PGp

Harry Wagner

Chair

Phone: 720-219-3749 Craig.Murray@Parsons.com Deputy Chair Phone: 775-225-1424 Harry.Wagner@Weston.com







## Oasis montaj 2023.2

Update for NAOC Technical Committee 20 December 2023

**Darren Mortimer** 

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### Oasis montaj 2023.2

Available as of Dec 18, 2023

- Oasis montaj
- UX-Analyze Extension
  - DAGCAP Validation
- Geosoft Plugins
- Seequent Connector

Download from: <u>https://my.seequent.com/products/oasis-montaj/latest</u>

### Run Grid Data and Multi-channel Gridding "in the background"

#### **Customer Problems:**

- 1. I can't use Oasis montaj when I'm gridding;
- 2. I must wait a long time for large grids, or multi-channel gridding

#### Solution:

- A new checkbox allows you to "Run in background"
- Once the gridding is launched, you may continue to use OM
- A new Manage Background Task dialog
  - Shows an ordered list of the jobs you've launched
  - Shows the status of the job and the output file(s)
  - Allows you to load the grid into the workspace when complete.

Grid Data	? ×								
* Data to orid: GDD EOUIV 2p67 Grid Multiple Channels ? X	0								
Manage Background Tasks									
* Output grid: BDD_EQUIV_2p67.grd(GR]	ے پ								
Gridding method: Minimum curvature . Select the "Project-> Manage Background Tasks" menu item to									
C:\Program Files\Geosoft\Des ×									
Manage Background Tasks ?	×								
Initialing Grid 100% complet									
	Load								
Coarseness pre-fitting 8 > I Minimum curvature gD_EQUIV_2 05/Dec/2023 07:50:28 Success 11088_2_AGGFin_v2_gD_EQUIV Created	Load								
Coarseness pre-fitting 8 > I Grid Multiple Channels Minimum curvature 05/Dec/2023 07:52:57 Success gD_EQUIV_2p67.grd Created	Load								
Refining Grid 100% completed Coarseness fitting 4 > Itera	Load								
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Coarseness pre-fitting 1 > Iteration 1 100% completed									
Computing Blanking Distance 30% completed									

### **Coordinate Systems & Projections**

#### EPSG

• Updated to the most recent EPSG codes

#### New projection methods

- Mollweide equal area
- Mollweide pseudo-cylindrical

#### UTM Zone – New Tool

 Determine the UTM zone(s), based on Geographic Coordinates

🖻 🖷 🧮	^ Y X 🖬 🖩				
/ L1:0	Longitude 🗴	Latitude y	mag	UTM_Zone	
0.0	-19.15.24.4864	-31.21.35.9711	820.02		
1.0	-19.15.25.6665	-31.21.35.9504	620.82		
2.0	-19.15.26.8466	-31.21.35.9296	478.56		
3.0	-19.15.28.0266	-31.21.35.9088	392.28		
4.0	-19.15.29.2067	-31.21.35.8881	285.95		
5.0	-19.15.30.3868	-31.21.35.8673	115.24		
6.0	-19.15.31.5669	-31.21.35.8465	11.59		
7.0	-19.15.32.7470	-31.21.35.8257	-5.57		
8.0	-19.15.33.9271	-31.21.35.8049	53.38		
9.0	-19.15.35.1071	-31.21.35.7841	211.34		
10.0	-19.15.36.2872	-31.21.35.7633	486.98		
11.0	-19.15.37.4673	-31.21.35.7425	821.20		
12.0	-19.15.38.6474	-31.21.35.7217	1121.14		
13.0	-19.15.39.8275	-31.21.35.7009	1167.68		
14.0	-19.15.41.0075	-31.21.35.6801	808.28		
15.0	-19.15.42.1876	-31.21.35.6593	257.65	275	
16.0	-19.15.43.3677	-31.21.35.6385	-46.14		
17.0	-19.15.44.5478	-31.21.35.6177	-166.66		
18.0	-19.15.45.7279	-31.21.35.5968	-218.25		
19.0	-19.15.46.9079	-31.21.35.5760	-238.95		
20.0	-19.15.48.0880	-31.21.35.5552	-242.47	27S	
_					

## **IGRF Update**

#### **IGRF** Channel

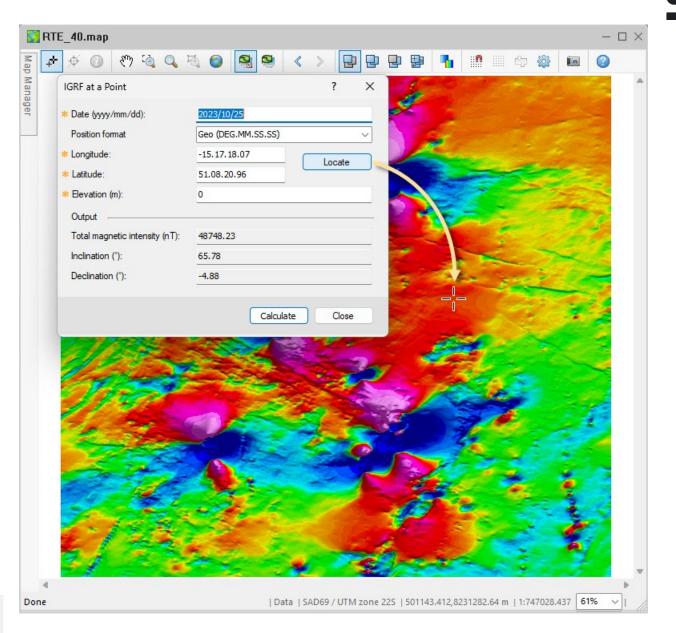
- New interface, parameters reordered in order of contribution
- Automatically sets the secular coefficients to use
- Calculator alignment

#### **IGRF** at a point

- New interface
- Point selected on a grid | map

#### **Historical data**

• Both non-definitive and definitive constituent models can be still used.



### **UX-Analyze – Improved Sensor Support**

#### **Customer Problems:**

 Need to support HDF v1 for all DAGCAP approved sensors

#### Solution

- Support APEX
- Support MPV (AcornSI) data in HDF v1



## **UX-Analyze – Improved Inversion Algorithm**

#### **Customer Problems:**

- Need to support HDF v1 read all parameters from the data
- Not all sensor have monostatic coil combinations

#### Solution

- Updated inversion code
- Selection of coils for signal amplitude

<ul> <li>* Database prefix:</li> <li>* Source group:</li> <li>* Target database group:</li> <li>* Id channel:</li> </ul>	v11Survey1_DAM ~ Target Targets UXA_TARGET_ID	** Data chip cross-line dimensi ** Data chip along-line dimensi Number of dipoles: O Invert identified anoma
Mask channel: Sensor channel suffix - leveled: Gates: Time of gate (ms):	UXA_MASK NORM_LEV ~ Low: High: 5 ~ 18 ~ 0.134 2.428	<ul> <li>Invert identified anoma</li> <li>Reposition data chip to</li> <li>* Amplitude:</li> <li>* Threshold:</li> </ul>
* Pitch channel: * Roll channel: * Heading channel: Signal amplitude:	UXA_PITCH_FILT UXA_ROLL_FILT UXA_YAW_True_FILT Monostatic Z Coaxial Z	<ul> <li>Model coherence:</li> <li>Threshold:</li> </ul>

### **UX-Analyze – Improved Inversion Algorithm**

#### Other changes:

New example libraries ٠

2.0100-lb GP Bomb-AN-M30A1-M1.19Bomb100-lb GP BomAN-M30A1Unfired/PristiHP1205,970TrueFalse100-lb BombAFalse46207-10173.020-lb Fragmentation Bomb-AN0.60Bomb20-lb Fragmer/AN-M42WeatheredHP1190,500TrueFalse20-lb BombAFalse46207-02574.020-lb Fragmentation Bomb-AN0.68Bomb20-lb Fragmer/AN-M42WeatheredVU90,500TrueFalse20-lb BombAFalse46207-02575.020-lb Fragmentation Bomb-AN0.72Bomb20-lb Fragmer/AN-M42WeatheredVU90,500TrueFalse20-lb BombAFalse46207-02576.0250-lb GP Bomb-AN-M57-Meta1.03Bomb250-lb GP Bom AN-M57WeatheredVNU270,1170TrueFalse250-lb BombAFalseBoneyard7.0250-lb GP Bomb-AN-M57-Meta1.06Bomb250-lb GP Bom Mk81WeatheredVNU270,1170TrueFalse250-lb BombAFalse80evgrd8.00250-lb GP Bomb-Mk81-Metalm0.77Bomb250-lb GP Bom Mk81WeatheredHP11251110FalseFalse250-lb BombAFalse62640-06579.00250-lb GP Bomb-Mk81-Metalm1.39Bomb250-lb GP Bom Mk81WeatheredHP11251110FalseFalse250-lb BombAFalse62640-06579.00250-lb GP Bomb-Mk81-Metalm0		UXA_Library_Id	JXA_Fit_BCz_UXA_Class	CommonN XA	_MarkMo XA_C	Conditio	TEMORIENT/	A_Dimensio	UXA_Fins	UXA_Fuse	UXA_Name	QualifierPed	A_RotatingBa	_SerialNum	_SpottingC
3.0       20-lb Fragmentation Bomb-AN       0.60       Bomb       20-lb Fragmer AN-M42       Weathered       HP11       90,500       True       False       20-lb Bomb       A       False       46207-0257         4.0       20-lb Fragmentation Bomb-AN       0.68       Bomb       20-lb Fragmer AN-M42       Weathered       VU       90,500       True       False       20-lb Bomb       A       False       46207-0257         5.0       20-lb Fragmentation Bomb-AN       0.72       Bomb       20-lb Fragmer AN-M42       Weathered       VU       90,500       True       False       20-lb Bomb       A       False       46207-0257         6.0       250-lb GP Bomb-AN-MS7-Meta       1.03       Bomb       250-lb GP Bom AN-M57       Weathered       VNU       270,1170       True       False       250-lb Bomb       A       False       Boneyard         7.0       250-lb GP Bomb-AN-MS7-Meta       1.06       Bomb       250-lb GP Bom AN-M57       Weathered       VNU       270,1170       True       False       250-lb Bomb       A       False       Boneyard         8.0       250-lb GP Bomb-Mk81-Metalm       0.77       Bomb       250-lb GP Bom Mk81       Weathered       VU       225,1110       False       51-lb Bomb       <	1.0	100-lb GP Bomb-AN-M30A1-Me	1.00 Bomb	100-lb GP Bon AN	-M30A1 Unfire	ed/Pristi	VU	205,970	True	False	100-lb Bomb	A	False	46207-101767	False
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#### **Known Issue**

- Performance is slower than previous versions ٠
  - Running from a script using OMS (Command Line) is better than from the GUI ٠

### **UX-Analyze – Improved Classification Workflow**

#### **Customer Problems:**

- Problem with updates, many copy of scripts and expressions
- Files are everywhere
- "Optional parameters" are hard to use

#### Solution

- Refactor removing scripts and several expressions
- Improve UI
  - Easy to use settings for all optional parameters
  - Ranking options, use 'mask' channels instead of 'comment codes'

Note: No changes to the "logic"

t Classification Thresholds and Priorit	ize	6		?
Source Database		63	Classification Thresholds	
* Name:	v11Survey1_SA	M_Source.gdb v	* Minimum signal amplitude (mV):	2
Group:	Targets		* Maximum signal amplitude (mV):	20
ID channel:	UXA_TARGET_I	D ~	* Minimum fit coherence:	0.8
Mask channel:	UXA_MASK	~	* Maximum inverted depth BGS (m):	2
		High: Decay:	* Maximum distance - array position & inverted location (m):	
Gates:		98 V 71 V		0.4
Time of gates (ms):		.116 2.034	* Maximum distance - array position & flag location (m):	0.75
			$\ast$ Maximum distance - flag location & inverted location (m):	0.6
Library Database			Desicion Statistics	
* Name:	SiteLib 8ms 99ga	ate.gdb v …	* Dig - no Dig threshold:	0.825
Group - TOI:	TOI	~	$\ast$ High confidence match to known non TOI threshold:	0.925
Group - non TOI (Clutter):		~	* Minimum source distance for multiple TOI at a flag (m):	0.2
Group - non TOI (Clutter):		~	* Minimum source distance for multiple TOI at a flag (m):	
		~	* Minimum source distance for multiple TOI at a flag (m): Ranking options	
♠ Less	bilities as Cannot Analy			
* Less Classification options			Ranking options	
Less Classification options Classify sources with noisy polariza	noise threshold:	rze (Cat 0)	Ranking options          Rank using manual TOI selection         * TOI selection mask channel:	
Less Classification options Classify sources with noisy polariza     * Maximum primary polarizability n	noise threshold: oise threshold:	rze (Cat 0) 3	Ranking options	
Less Classification options Classify sources with noisy polarizatility m     * Maximum primary polarizability m     * Minimum primary polarizability m	noise threshold: oise threshold: / noise threshold:	rze (Cat 0) 3 1 10	Ranking options          Ranking options         Rank using manual TOI selection         * TOI selection mask channel:         Rank training data at the top of the list	
Less Classification options Classify sources with noisy polarizab     * Maximum primary polarizability m     * Minimum primary polarizability m     * Maximum combined polarizability	noise threshold: oise threshold: noise threshold: nary polarizability match	rze (Cat 0) 3 1 10	Ranking options          Ranking options         Rank using manual TOI selection         * TOI selection mask channel:         Rank training data at the top of the list	
Less Classification options Classify sources with noisy polarizab     * Maximum primary polarizability m     * Minimum primary polarizability     * Maximum combined polarizability     Classify sources using only the prime	noise threshold: oise threshold: y noise threshold: nary polarizability match shold:	rze (Cat 0) 3 1 10	Ranking options          Ranking options         Rank using manual TOI selection         * TOI selection mask channel:         Rank training data at the top of the list	
Less Classification options Classify sources with noisy polariza     * Maximum primary polarizability r     * Minimum primary polarizability r     * Maximum combined polarizability     Classify sources using only the prim     * Library match (100) metric three	noise threshold: oise threshold: y noise threshold: nary polarizability match shold:	rze (Cat 0) 3 1 10	Ranking options          Ranking options         Rank using manual TOI selection         * TOI selection mask channel:         Rank training data at the top of the list	

### **UX-Analyze – Improved Sensor Support**

Supported sensors for v2023.2 (Dec. 2023)

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	TEMSense	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	Coming for 2024

## **DAGCAP** Validation

- Latest Version
  - v 2022.1
- Pending
  - v 2022.2
  - v 2023.1
  - v 2023.2

For up-to-date information see:

https://www.seequent.com/help-support/standards-certifications/validated-ux-analyze-versions/

## **Geosoft Plugins retirement**

Oasis montaj 2023.2

2023.1 was the last release these plugins were available in the Geosoft installer

- Target for ArcMap plugin
- Plugin for ArcGIS
- Plugin for MapInfo

Past releases: https://my.seequent.com/products/oasis-montaj

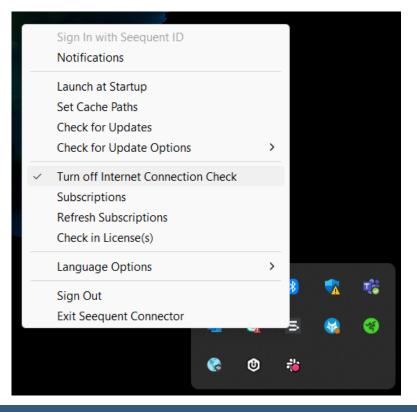
GEOSOFT Targ	et for ArcMa	p
(Under Retireme 2022.2 Released on December 1 View drillhole data as r within Esri ArcMap.	CEOSO	
<u>Release Details</u> <u>Past Releases</u>	Geosoft Pluç Released on Decen Plug-in to view an layers in ArcMap. <u>Release Details</u> <u>Past Releases</u>	Correct Correc
		Download

## **Seequent Connector Update**

Oasis montaj 2023.2

Improved Offline Capabilities

- Extended Offline Usage: Operate entirely offline for up to 90 days without interruption.
- Consistent Offline Mode: Optionally disable the automatic license check-in. Once set to offline mode, the SQ Connector avoids license checks, even if an internet connection is detected.



When upgrading to the latest Oasis montaj version, 2023.2, please note that the Seequent Connector will automatically update for offline mode functionality. For Leapfrog users, it's essential to run one of these versions: 2021.1.5, 2021.2.7, 2022.1.2, 2023.1.2, or 2023.2.1. If you're not on these versions, an upgrade is required to ensure Leapfrog continues working seamlessly.

### **Questions?**

Contacts us for any questions.

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