

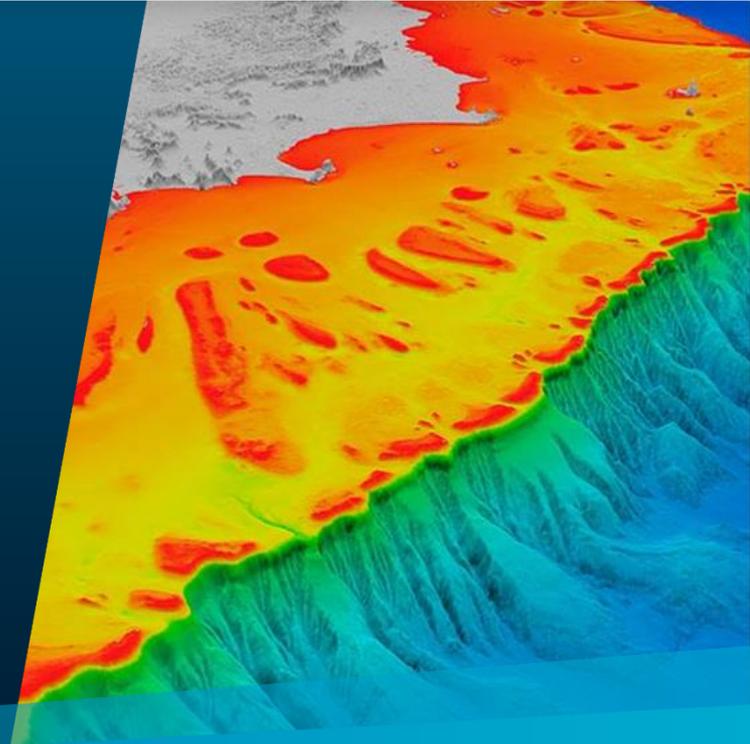


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**QAX (Quality Control and Quality Assurance)
AusSeabed Webinar Series -
Webinar #2 - 30/07/2020**





- There a large numbers of very experienced people out there in the community
- Perhaps there are ideas for checks that the community would like to see but individuals don't have the ability or the time to code them up themselves
- This open source project can help
- Send through your ideas and we can look to implement or at least identify what is required and feasibility
- A great example of where this has worked is https://github.com/hydrooffice/hyo2_soundspeed
- Soundspeed manager from hydrooffice has enabled much more robust sound velocity profile management and is a well designed and constructed environment that enables rapidly adding different reader, writer formats and the management capabilities for these non standard file types, reporting is equally improved because of its creation



KNG

- PosMV
- Seapath
- Coda Octopus F180
- etc

Check the network attitude/velocity packet in a *.all file

Raw message length varies depending on positioning system interfaced

Establish a PosMV is interfaced so check the raw positioning messages in the position packets are GGK string

That is the case so downstream processing should be relatively easy and logical....

QAX unknown

Coverage check  

Run checks

Check execution status:

Check: Mate (1/1)
Status: Complete
Progress: 100%

QAX unknown

Coverage check  

Profile Settings
Profile: AusSeabed

Check Tools:
 Mate File Finder Coverage check

Survey Products

Raw Files:
D:\ah2017_v01\swm\swm2040c\0005_20170203_224718_2bstar.a11

SVP Files:
D:\t22020_v01\8YF\1 2020-01-09 03-03-45.svp

Trueheight Files:

Data outputs (drag-and-drop the desired output folder)
Folder: C:\Users\boyl12m\AppData\Local\Microsoft\OneDrive\Office\QAX
Create project folder: File-tool sub-folders: Use default: Open folder:

Checks suite
Generate

QA JSOR:

QAX unknown

Coverage check  

Score Board

ID	Check	Input	Status	QA Pass
1 1b0c47d5-54c9-4c50-b04d-d174a892091	Backscatter Available [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
2 8c909acc-8759-4c2c-984a-f75f888a0821	Bathymetry Available [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
3 4a93371f-3a27-4402-934f-d9ed17945002	Date checked [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
4 9639ca1-d846-48fc-077a-d8ff68493088	Eisposed Height Setup [x-1]	0005_20170203_224718_Abstar.a11	completed	✗
5 7710e8b0-1380-46fa-af7a-f1f416843841	Filename checked [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
6 07626279-750c-4a9f-8263-ec336f44a471	Minimum Ping count [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
7 5421932-6a37-47d0-6783-488b6e0e4994	Ray Tracing Available [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
8 c1a85768-4c40-418c-4036-603ca96276a8	Runtime Parameters [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
9 9ef4606-47d1-4631-8d4c-dc1a68d8a6a6	Positions [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
10 e5767811-5863-4963-ba06-a73d6ca0d015	SVP File Available [x-1]	1 2020-01-09 03-03-45.svp	completed	✓

Details

Eisposed Height Setup

QX error: fail

Key: value

0005_20170203_224718_Abstar.a11
Eisposed height not being tagged change your position input to a GSK string
D:\ah2017_v01\swm\swm2040c\0005_20170203_224718_Abstar.a11

QAX unknown

Coverage check  

Score Board

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3 4a93371f-3a27-4402-934f-d9ed17945002	Date checked [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
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5 7710e8b0-1380-46fa-af7a-f1f416843841	Filename checked [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
6 07626279-750c-4a9f-8263-ec336f44a471	Minimum Ping count [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
7 5421932-6a37-47d0-6783-488b6e0e4994	Ray Tracing Available [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
8 c1a85768-4c40-418c-4036-603ca96276a8	Runtime Parameters [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
9 9ef4606-47d1-4631-8d4c-dc1a68d8a6a6	Positions [x-1]	0005_20170203_224718_Abstar.a11	completed	✓
10 e5767811-5863-4963-ba06-a73d6ca0d015	SVP File Available [x-1]	1 2020-01-09 03-03-45.svp	completed	✓

Details

Runtime Parameters

Message: 14 Runtime parameter (s) diagnostics found in file:
D:\ah2017_v01\swm\swm2040c\0005_20170203_224718_Abstar.a11

QX error: pass

Key: value

Parameter	Value
Container	35438
Depth	3500m
Depth	2995
ETA	3
Hour/Date	20170203
ScaleNumber	2000
System	CN
Time	02275.474
Altitude	0.55
Beam/Depth	High-Depth
Checksum	3213
EndOfRecordingPost	

QAX unknown

Coverage check  

Score Board

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Details

SVP File Available

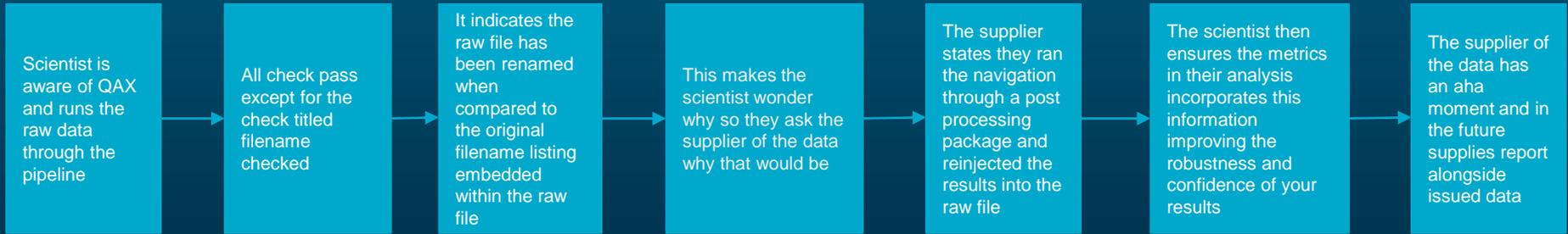
Message: 1 SVP file found in file:
D:\ah2017_v01\swm\swm2040c\0005_20170203_224718_Abstar.a11

QX error: pass

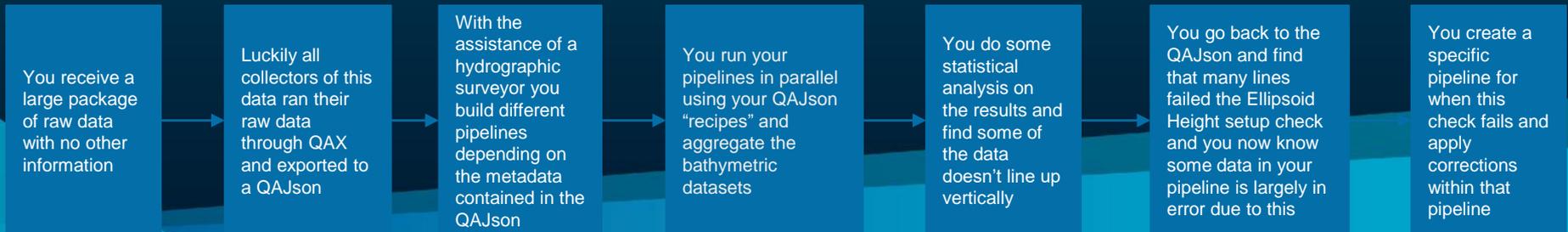
Key: value

Input File:
D:\ah2017_v01\swm\swm2040c\0005_20170203_224718_Abstar.a11

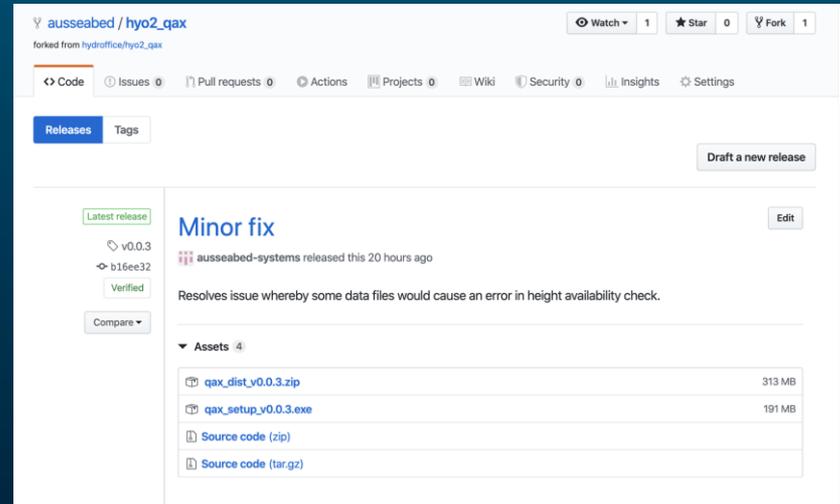
You are a scientist that has received a data package you want to do some analysis on...



You are big data pipeline developer and need to combine bathymetric datasets from different sources...



- New QAX builds available faster
- QAX installation package now built automatically for all new tags
- Automatically uploaded to GitHub releases
- As a manual process this can take several hours
- Reduces barrier to software releases
- More releases mean more testing, more user feedback
- Check out the latest release
- https://github.com/ausseabed/hyo2_qax/releases/tag/v0.1.8



The screenshot shows the GitHub release page for the repository 'ausseabed/hyo2_qax'. The release is titled 'Minor fix' and was released by 'ausseabed-systems' 20 hours ago. It resolves an issue where some data files would cause an error in height availability check. The release includes four assets: 'qax_dist_v0.0.3.zip' (313 MB), 'qax_setup_v0.0.3.exe' (191 MB), 'Source code (zip)', and 'Source code (tar.gz)'. The page also shows navigation options like 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'.

- Add in more reader formats (xtf, kmall, s7k etc.) and create checks based on their own rich metadata environment
- L3 readers and writers (bag and geotiff etc.)
- Checks to specification
- Plugins from Hydroffice (tools such as flyer finder, holiday finder, Grid QA etc.)
- With community involvement the opportunities are many!!!!

- Are there any coders out there that have libraries they think might be able to be used to the communities advantage? Get in touch....
- ausseabed@ga.gov.au

- Given there are grand plans are for this tool AusSeabed is interested in asking a question of the audience today:
- Do you think you will use this tool?
 - A. Yes, for Calibration
 - B. Yes, for underway surveying
 - C. Yes, for office data management
 - D. No