

NTRODUCTION TO

DATA SUBMISSION

WORKSHOP



THE INTERNATIONAL SEAKEEPERS SOCIETY

ABOUT SEAKEEPERS

SeaKeepers is a global non-profit organization that advances oceanographic research, conservation, and education by engaging the yachting and boating community.

OUR MOTTO IS Research. Educate. Protect and Restore.



WHAT WE DO

SeaKeepers bridges the gap between science and the boating community to support ocean research, conservation, and education through the **DISCOVERY Program**. We collaborate with yacht owners to provide vessels for marine scientists, enabling vital research and data collection at sea.

Our efforts **eliminate vessel costs**, allowing scientists to allocate those funds to maximize research potential. Additionally, we offer **free educational programs**, inspiring future ocean stewards and fostering a deeper understanding of marine conservation.

United States | United Kingdom | South Pacific | Singapore | Bangladesh

START WITH A POLL

1.MAC OR PC?

2. HOW MUCH EXPERIENCE DO YOU HAVE CODING?

A. 0 - 1 YEAR
B. 2 - 4 YEARS
C. 5 - 8 YEARS
D. 8+ YEARS

GOALS OF THIS WORKSHOP

We are NOT becoming programmers overnight (I wish!)

Learn something we didn't know before

Be less afraid of coding!	e T e
	1
Give you the tools to know what questions to ask	0 0 0 0 T 1
	0 0 T 1
Level the playing field/lower the barrier to entry	T 6 0 6 T 1
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• Find the SeaKeeners LISB and conv the fo	Ider onto vour computer somewhere easily
This the searcepers obb and copy the re	
accessible	
 Please take USB drive home with you 	, its our gift to you!
Create your own tutorial	· · · · · · · · · · · · · · · · · · ·
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 Download a text editor like Notepad ++. Y 	Virtual Studio (VS). etc.
	· · · · · · · · · · · · · · · · · · ·
 Install some sort of shell or open one alre 	adv installed:
o Githash	
° Oltbush	
o Dowershell	
o iTerm?	

WHAT IS ON YOUR FLASHDRIVE?

Name	Date modified	Туре	Size	
Neo_Jul_2024	3/14/2025 5:50 PM	File folder		
00010001.DAT	8/25/2023 10:00 AM	DAT File	21 KB	
Workshop_Example_Metadata.json	3/13/2025 5:17 PM	JSON File	2 KB	
🚧 Neo_Jul_2024.zip	3/14/2025 5:51 PM	Compressed (zipp	81,757 KB	
Information about vessel Neo.txt	3/14/2025 6:17 PM	Text Document	1 KB	
Haley Tutorial.txt	3/23/2025 1:41 PM	Text Document	4 KB	
😥 Data Submission Workshop 1.0.pptx	3/23/2025 1:55 PM	Microsoft PowerPo	32,289 KB	

SYNTAX & CODING DICTIONARY



COMMANDS YOU MIGHT FIND USEFUL:

- Stop the code you're running:
 - Control + C (or command +C)
- To finish a line with an assumed command:
 - Press the right arrow

LINKS YOU MAY FIND USEFUL:

 WIBL/wibl-python/scripts/data-management/README.md at main · CCOMJHC/WIBL · GitHub

CREATE A VIRTUAL ENVIRONMENT

• *You'll want to be familiar with these steps as they will be required when updates are issued!

• WIBL/wibl-python at main • CCOMJHC/WIBL • GitHub

- conda env create -n wibl
- conda activate wibl
- conda install wibl-python

OPEN POWERSHELL OR GITBASH

PowerShell 7 (x64) × + ~
PowerShell 7.4.7
A new PowerShell stable release is available: v7.5.0
Upgrade now, or check out the release page at:
https://aka.ms/PowerShell-Release?tag=v7.5.0
Loading personal and system profiles took 954ms.
(base) PS C:\Users\haley>

OPEN POWERSHELL (FOR PC) & ACTIVATE A VIRTUAL ENVIRONMENT

- 1. Copy the code below to navigate to the conda virtual environment conda activate wibl-python
- 2. Copy the code below to navigate to the correct directory cd .\Desktop\WIBL\wibl-python\scripts\data-management

Note: Directories are navigated using the change directory command "cd". There must be a space after it. if you want the program to look in the folder it is already in for the next folder, use ".\FILENAME" if you want it to navigate back a folder, you can say "cd .." Therefore, when telling a script where to get a file or where to put an output, you can use the same logic. You will see this throughout.

ACTIVATE YOUR WIBL-PYTHON VIRTUAL ENVIRONMENT (VENV)



C	HA	N	GE	DI	RE	CT	0	RY	7

PowerShell 7 (x64) \times ~

PowerShell 7.4.7

A new PowerShell stable release is available: v7.5.0 Upgrade now, or check out the release page at: https://aka.ms/PowerShell-Release?tag=v7.5.0

Loading personal and system profiles took 954ms.

(base) PS C:\Users\haley> conda activate wibl-python

(wibl-python) PS C:\Users\haley> cd .\Desktop\WIBL\wibl-python\scripts\data-management

(wibl-python) PS C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management>

CREATE METADATA SHEET

1. Navigate to data-management\Data\01-Metadata

2. Open the "01-EDITME_Metadata.json" and edit

3. Add information specific to that vessel including the unique id created above to the line: "UniqueVesselID": ""

4. Save as a text file titled "VESSELNAME_Metadata.JSON"

🗄 Workshop_Example_Metadata.json 🗵	
	EXAMPLE MEIADAIA FILE
2 🕂 "trustedNode": {	
3 "providerOrganizationName": "Your Organization Here",	
4 "providerEmail": "Your name@Email.org",	
5 "uniqueVesselID": "EXAMPL-a0f64bf3-d451-11ef-ac14-e0c2643c974e",	This will be our next step, hold off on this
6 "providerLogger": "Logger Brand",	
7 "providerLoggerVersion": "Logger Model",	This is asking whether the vertical reference point is the transducer, or the
8 "verticalReferenceOfDepth": "Transducer", <	Weterline Assemble inputs are "Transducer" and "Curface"
9 "verticalPositionReferencePoint": "Integer - where depth is measured from"	waterline. Acceptable inputs are Transducer and Surface
10 - },	If the measurement is from the waterline, this is 0
11 📮 "platform": {	If the measurement is from the transducer, this is the depth of the
12 "length": length in meters, Just number, no unit	transducer itself (eg -3). It MUST be an integer or it will run an error.
13 "name": "Vessel Name", Coptional line	
14 "IDType": "MMSI or IMO or HULL ID",	Currently only the first two, maybe soon Hull ID. This is
15 "IDNumber": "Number",	optional in the newest version of the schema but is highly
16 "soundSpeedDocumented": false,	encouraged.
17 "postionOffsetsDocumented": false,	
18 "dataProcessed": false,	This section is the short company and the importations. This is all such and
19 🔤 "sensors": [🗲	I his section taiks about your sensors and their positions. This is all optional
20 🕂 {	
21 "type": "Sounder",	Depth sounder make and model
22 "make": "eg Garmin",	
23 "model": " eg GT-50",	Offsets (in meters):
24 H "position": [X (Horizontal across the boat)
	Y (Horizontal along the length of the boat)
26 0.0,	7 (Vertically along the height of the hoat)
27 0.0	
	IF ONKNOWN, DELETE THIS SECTION
	Draft of vessel (in meters)
and and an and a second	Draft uncertainty is for if a vessel has a dramatically different
	draft when fully loaded vs when it is not under load "Draft"
34 "make": eg Litton Marine Systems"	would be the average of the max and min draft, while
35 "model": "get INVA20"	uncertainty would be the +/-
36	* IF UNKNOWN, DELETE THIS SECTION
37 - 1	
38 - }	GNSS (the GPS unit) make and model
39 L,	
	-

UNIQUE ID GENERATION FOR METADATA

1. Copy the code below to generate a random unique id python -c "import uuid; print('EXAMPL-' + str(uuid.uuid1()))"

Note: The output should be something like this: EXAMPL-7fe03d8b-edf3-11ee-a897-e8cc7f858bd9

2. Store this somewhere for future reference

Note: File can be found in Dropbox under: All Files > SEAKEEPERS MAIN > Programs>02-Citizen Science > 1-Seabed2030 (do not share) > Vessel Processing Data.xlsx



LETS MAKE ONE TOGETHER FOR NEO

1.What you'll need:

- a. Information about vessel NEO
- b. Workshop_Example_Metadata.JSON

1. Copy this code to run the debugging script

.\debugWibl.ps1 -datFile .\Data\VESSEL_NAME_Test\YDVR0001\00010001.DAT metadataFile .\Data\01-Metadata\VESSELNAME_Metadata.json -wiblConfig .\configure-test.JSON

Note: The YDVR****\00*****.DAT should be filled in with whatever the actual file names are.

Note: The data needs to be sourced from an UNZIPPED pre-extracted file. This will not unzip data

(wibl-python) PS C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management> debugWibl.ps1 -da tFile .\Data\Neo_Jul_2024_3\00010001.DAT -metadataFile .\Data\01-Metadata\Neo_Metadata.json -wiblCo nfig .\configure-test.json Input DAT file to convert is: .\Data\Neo_Jul_2024_3\00010001.DAT Writing logconvert stats to file: .\Data\Neo_Jul_2024_3\00010001-stats.txt Writing logconvert wibl file to: .\Data\Neo_Jul_2024_3\00010001-edited.wibl Writing edited wibl file to: .\Data\Neo_Jul_2024_3\00010001.geojson Using metadata file: .\Data\Neo_Jul_2024_3\00010001.geojson Using WIBL config file: .\configure-test.json Using logconvert at: .\logconvert.exe Input logger file format is: YDVR Do you want to continue?: y

Note: The data needs to be sourced from an UNZIPPED pre-extracted file. This will not unzip data

Running	'logco	onvert'
Running	'wibl	editwibl'
Punning	'wibl	procwibl'

Configured for input file .\Data\Neo_Jul_2024_3\00010001-edited.wibl converting to .\Data\Neo_Jul_2 024_3\00010001.geojson.

Attempting to obtain item DataItem(source_store=None, source_key='.\\Data\\Neo_Jul_2024_3\\00010001 -edited.wibl', source_size=5751, localname='.\\Data\\Neo_Jul_2024_3\\00010001-edited.wibl', dest_st ore=None, dest_key='.\\Data\\Neo_Jul_2024_3\\00010001.geojson', dest_size=0) from S3 ...

Attempting file read/time interpolation on .\Data\Neo_Jul_2024_3\00010001-edited.wibl ...

Applying requested algorithms for phase AlgorithmPhase.ON_LOAD (if any) ...

Packet Statist	s (11 u	inique	seen):
----------------	---------	--------	--------

Sei	rialiserVersion:	1 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	0 Attrib /	0 Type / 0 Checksum			
	Metadata:	1 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	0 Attrib /	0 Type / 0 Checksum			
	Environment:	<u>17 Obs.;</u> Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	0 Attrib /	0 Type / 0 Checksum			
	Attitude:	46 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	0 Attrib /	0 Type / 0 Checksum			
Cou	urse Over Ground:	17 Obs.; Errors (0 total):	0 Parse /	0 Short /	
0 Decode /	0 A <u>ttrib /</u>	<u>0 Type /</u> 0 Checksum			
	Depth:	8 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	<u>0 Attrib /</u>	<u>0 Type /</u> 0 Checksum			
	SystemTime:	<u> 4 Obs.;</u> Errors (0 total):	0 Parse /	0 Short /	0
Decode /	0 Att <u>rib /</u>	<u>0 Type /</u> 0 Checksum			
	GNSS:	8 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	0 Attrib /	0 Type / 0 Checksum			
	Temperature:	4 Obs.; Errors (0 total):	0 Parse /	0 Short /	0
Decode /	0 Attrib /	0 Type / 0 Checksum			
	Pressure:	2 Obs.; Errors (0 total):	0 Parse /	0 Short /	Θ
Decode /	<u> 0 Attrib / </u>	<u>0 Type /</u> 0 Checksum			
	JSONMetadata:	1 Obs.; Errors (0 total):	0 Parse /	0 Short /	0
Decode /	0 Attrib /	0 Type / 0 Checksum			

Depth o	bserva	tions = 8						
Packet	Statis	tics (6 unique :	seen):					
	Seria	liserVersion:	1 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			
		Metadata:	1 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			
		Depth:	8 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			
		SystemTime:	4 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			
		GNSS:	8 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			
		JSONMetadata:	1 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode	/	0 Attrib /	0 Type /	Θ	Checksum			

Converting remaining data to GeoJSON format ... Converting GeoJSON to byte stream for transmission ... Attempting to send encoded data to S3 staging bucket ..

Running 'csbschema validate'... CSB data file '.\Data\Neo_Jul_2024_3\00010001.geojson' successfully validated against schema '3.1.0 -2023-08'.

2. Once you get the output, look for any failures. A common one is "no time source known" which tells you the vessel's time is not available to be reported to the logger. This is usually a faulty setting in the Chart plotter itself.

3. Another thing to look for is the stats.txt file in the output within the folder containing the YDVR .DATs. Look for this stats file and open it. If you scroll to the bottom section/paragraph, you can see what each "talker" is reporting to you. Example below:

Packet Counts b	y Sender	:	
Packet ID	Sender	Count	Packet Name
1ED00 [126208]	15	1	RequestGroupFunction
1ED00 [126208]	16	1	RequestGroupFunction
1F010 [126992]	13	4	SystemTime
1F011 [126993]	5	1	Unknown
1F114 [127252]	12	42	Unknown
1F119 [127257]	8	4	Attitude
1F119 [127257]	12	42	Attitude
1F11A [127258]	2	1	MagneticVariation
1F200 [127488]	9	82	EngineParamRapid
1F201 [127489]	9	8	EngineParamDynamic
1F205 [127493]	9	82	TransmissionParam
1F20D [127501]	3	21	BinaryStatus
1F211 [127505]	9	4	FluidLevel
1F503 [128259]	10	4	BoatSpeed
1F50B [128267]	9	4	WaterDepth
1F50B [128267]	10	4	WaterDepth
1F801 [129025]	13	42	PositionRapid
1F802 [129026]	9	17	COGSOGRapid
1F802 [129026]	13	42	COGSOGRapid
1F802 [129026]	17	17	COGSOGRapid
1F805 129029	13	4	GNSS
1F805 [129029]	17	4	GNSS
1F80F [129039]	17	1	AISClassBPosition
1F903 [129283]	14	4	CrossTrackError
1F904 [129284]	11	5	NavigationInfo
1F905 [129285]	14	1	WaypointList
1FA03 [129539]	13	4	GNSSDOP
1FA03 [129539]	17	4	GNSSDOP
1FA04 [129540]	13	4	<u>GNSSSatsInView</u>
1FA04 [129540]	17	4	GNSSSatsInView
1FB11 [129809]	17	1	AISClassBStaticA
1FB12 [129810]	17	1	AISClassBStaticB
1FD02 [130306]	35	9	WindSpeed
1FD06 [130310]	9	8	OutsideEnvironment
1FD06 [130310]	10	8	OutsideEnvironment
1FD07 [130311]	10	9	Environment
1FD08 [130312]	35	2	Temperature
1FD0A [130314]	35	2	Pressure
1FD0C [130316]	9	16	Temperature

DECODING A STATS.TXT FILE

* * * * * **.DAT** to .WIBL

- Rename the Vessel's .Zip File: VESSELNAME_MONTH_2024.zip
 Move the vessel's .zip file into ...data-management\Data\
- 3. Copy the code below to convert from DAT to WIBL:

.\ConvertToWibl.ps1 -Source .\Data\VESSELNAME_MONTH_2024.zip -OutputFolder .\Data\VESSELNAME_MONTH_Output -LogConvertPath .\logconvert.exe

Note: change pathways and vessel names as needed. This need to be from a ZIP file, because there is a command in the script that unzips it. The script will spit out errors if it is sourcing data from an already-extracted file.

PICTURE EXAMPLE OF THAT CODE:

(wibl-python) PS C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management> .\convertToWibl.p
s1 -Source .\Data\Neo_Jul_2024_3.zip -OutputFolder .\Data\Neo_Jul_2024_Output -LogConvertPath .\log
convert.exe

Expand-Archive [The archive file 'C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-manageme.]

*****.WIBL to GeoJSON

1. Copy the code below to convert WIBL to GeoJSON. You must have the Metadata file up to date for this to work:

.\processWIBL.ps1 -wiblPath .\Data\VESSELNAME_MONTH_ Output -metadataFile .\Data\01-Metadata\VESSELNAME_Metadata.JSON -wiblConfig .\configuresubmission-t.JSON

* * * * * .WIBL to GeoJSON

- A bunch of things are going to pop up on your screen
- Some familiar?
- Tries to bounce off S3
 - Faster with no Wifi
- Will continue to run until there is an error
- Why would there be an error?

Running 'logconvert'... Running 'wibl editwibl'... Running 'wibl procwibl'... Configured for input file .\Data\Neo_Jul_2024_3\00010001-edited.wibl converting to .\Data\Neo_Jul_2 024_3\00010001.geojson. Attempting to obtain item DataItem(source_store=None, source_key='.\\Data\\Neo_Jul_2024_3\\00010001 -edited.wibl', source_size=5751, localname='.\\Data\\Neo_Jul_2024_3\\00010001-edited.wibl', dest_st ore=None, dest_key='.\\Data\\Neo_Jul_2024_3\\00010001.geojson', dest_size=0) from S3 ... Attempting file read/time interpolation on .\Data\Neo_Jul_2024_3\00010001-edited.wibl ... Applying requested algorithms for phase AlgorithmPhase.ON_LOAD (if any) ... Packet Statistics (11 unique seen) 0 Parse / SerialiserVersion: 1 Obs.; Errors (0 total): 0 Short / Decode / 0 Attrib / 0 Type / 0 Checksum Metadata: 1 Obs.; Errors (0 total): 0 Parse / 0 Short / Decode / 0 Attrib / 0 Type / 0 Checksum 17 Obs.; Errors (0 Parse / 0 Short / Environment: 0 total): Decode / 0 Attrib / 0 Checksum 0 Type / 0 Short / Attitude: 46 Obs.; Errors (0 total): 0 Parse / Decode / 0 Attrib / 0 Type 0 Checksum

	Course	Over Ground:	17 Obs.;	Errors	(0 total):	0 Parse /	0 Short /	
Decode	/	0 Attrib /	0 Type /	e e	Checksum			
		Depth:	8 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode ,	/	0 Attrib /	0 Type /	Θ	Checksum			
		SystemTime:	4 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode ,	/	0 Attrib /	0 Type /	0	Checksum			
		GNSS:	8 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode ,	/	0 Attrib /	0 Type /	0	Checksum			
	1	Temperature:	4 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode ,	/	0 Attrib /	0 Type /	0	Checksum			
		Pressure:	2 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decode ,	/	0 Attrib /	0 Type /	0	Checksum			
	JS	SONMetadata:	1 Obs.;	Errors	<pre>(0 total):</pre>	0 Parse /	0 Short /	Θ
Decede	1	0 Attail /	A Tuna /	0	Chaolicium			



WHAT DOES HALEY DO WHEN AN ERROR IS ENCOUNTERED?

Name	Date modified	Туре	Size
VDVR0008	3/14/2025 11:02 AM	File folder	
VDVR0009	3/10/2025 9:29 AM	File folder	
zcomplete	3/14/2025 11:22 AM	File folder	

* * * * * VALIDATE GEOJSON

1. Copy the code below to Validate the GeoJSON

.\validateWibl.ps1 -inPath .\Data\VESSELNAME_MONTH_Output -extension "GeoJSON"

*Validator throws a warning if the year is in the future

* * * * * VALIDATE GEOJSON

(wibl-python) PS C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management> .\vali dateWibl.ps1 -inPath .\Data\Neo_Jul_2024_3_Output -extension "GeoJSON" Validating file C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management\Data\Neo _Jul_2024_3_Output\Neo_Jul_2024_3\zcomplete\YDVR0008\00080011-edited.geojson... CSB data file 'C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management\Data\Neo_ Jul_2024_3_Output\Neo_Jul_2024_3\zcomplete\YDVR0008\00080011-edited.geojson' successfull y validated against schema '3.1.0-2023-08'.

* * * SUBMIT TO DCDB

1. Copy the code below to send data to DCDB

./submitDCDB.ps1 -inPath .\Data\VESSELNAME_MONTH_Output -authFile .\YOURTOKEN.txt -configFile .\configure-submission-t.JSON -extension "GeoJSON"

* * * SUBMIT TO DCDB

- You will need your own token
- Wifi needs to be on

(wibl) PS C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management> ./submitDCDB.ps1 -inPath .\Data\Neo_Jul_2024_ 3_Output -authFile .\Token_3.txt -configFile .\configure-submission-t.JSON -extension "GeoJSON"

Submitting file C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management\Data\Neo_Jul_2024_3_Output\Neo_Jul_2024_ 3\zcomplete\z submitted\00080001.geojson to DCDB...

Configured for input file C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management\Data\Neo_Jul_2024_3_Output\Neo _Jul_2024_3\zcomplete\z submitted\00080001.geojson converting to C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-ma nagement\Data\Neo_Jul_2024_3_Output\Neo_Jul_2024_3\zcomplete\z submitted\00080001.geojson.

Source ID is: SEAKPR-b9341f16-fcdb-11ef-9c8c-e0c2643c974e; Destination object uniqueID is: SEAKPR-b9341f16-fcdb-11ef-9c8 c-e0c2643c974e; Authorisation token is: -Y97C9AswI8kF6amTkbgYwwgJ52EjiMxMppszjB96xKKoa4d9gUWYim0QThRg75aumptvXpT2V2FEs8l 65atcw

Transmitting for source ID SEAKPR-b9341f16-fcdb-11ef-9c8c-e0c2643c974e to https://www.ngdc.noaa.gov/ingest-external/uplo ad/csb/geojson as destination ID SEAKPR-b9341f16-fcdb-11ef-9c8c-e0c2643c974e.

POST response is {'success': True, 'message': 'Submission successful.', 'submissionIds': ['9a2a3045-b752-4bc6-880c-f84c4 @fa5c3b'l}

Success: transmitted file C:\Users\haley\Desktop\WIBL\wibl-python\scripts\data-management\Data\Neo_Jul_2024_3_Output\Neo _Jul_2024_3\zcomplete\z submitted\00080001.geojson with return True.

INSERT MAP OF NEO DATA ON GIS



INSERT MAP OF NEO ON DCDB



QUESTIONS?

Thank you for joining SeaKeepers today!



Please don't hesitate to ask questions regarding the topics covered today. Questions may also be sent to Haley@SeaKeepers.org after the workshop.



FEEDBACK?

We'd love to hear your thoughts!

Please share your feedback to help us improve future sessions by sending us a message through email or leaving a review on Google.

GET INVOLVED

Participate in the SeaKeepers mission through a myriad of ways:





THANK YOU FOR JOINING US.

Connect with us to join the SeaKeepers mission.



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THE INTERNATIONAL SEAKEEPERS SOCIETY



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VISIT OUR WEBSITE & SIGN UP TO RECEIVE QUARTERLY NEWSLETTERS, PROGRAM UPDATES, ANNOUNCEMENTS, EVENT INVITATIONS, COASTAL CLEANUP NEWSLETTERS, AND MORE.