

Submission of GEOJSON data to the DCDB

All data submitted to the DCDB need to be in .geojson (preferred) or XYZ format and contain appropriate metadata fields. These requirements are outlined in [DCDB guidance documents](#).

- For **WIBL** or **YDVR** data, you will need to upload data periodically. See the [WIBL and YDVR Data Processing](#) protocol for full details.
- For **Mussel Kit** data, OFM handles data submission on behalf of the Trusted Node, using the Trusted Node's secure token.
- OFM can also provide the raw data back to Trusted Nodes via Dropbox or AWS S3 buckets (other options are also available).

Once your WIBL or YDVR data have been validated, they can be submitted to the DCDB using the following PowerShell script:

```
#Run Windows PowerShell 7 as an administrator

#Run the following code
Set-ExecutionPolicy Unrestricted

#Close Windows PowerShell 7, then reopen (not as admin)

#Set directory to WIBL data-management scripts folder
cd .\Desktop\WIBL-main\wibl-python\scripts\data-management\

#Activate environment
conda activate wibl-python

#Submit to DCDB
.\submitDCDB.ps1 [[-inPath] <string>] [[-authFile] <string>] [[-configFile] <string>] [[-extension] *.geojson]
```

submitDCDB.ps1: -inPath is the folder where validated .geojson files are saved, -authFile is the authentication token .txt file, -configFile should be the same as used for processWibl.ps1, and -extension should be set to *.geojson.

Example: `.\submitDCDB.ps1 -inPath C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\ -authFile C:\Users\schernoch\Documents\CSB\Chance-Maritime\3-Submission\ingest-external-COMITUSF.txt -configFile C:\Users\schernoch\Documents\CSB\Chance-Maritime\0-Metadata\configure-submission-USF.json -extension *.geojson`

When a file is successfully submitted to the DCDB, you should receive the following output:

```
Submitting file C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\wibl-raw.61.geojson to DCDB...
Configured for input file C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\wibl-raw.61.geojson converting to C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\wibl-raw.61.geojson.
Source ID is: COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2; Destination object uniqueID is: COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2; Authorisation token is: wFPpm9en
ekW88ja719vNy9jokXm0sMeVqtr0Y78rB41JWmIZiyl76e_j6_tejvywjwhrKIcr8uZ2oSOvlePQA
Transmitting for source ID COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2 to https://www.ngdc.noaa.gov/ingest-external/upload/csb/geojson/ as destination ID COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2.
POST response is {'success': True, 'message': 'Submission successful.', 'submissionIds': ['fb24f96b-d43c-41b1-8bec-c588b7dc280c']}
Success: transmitted file C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\wibl-raw.61.geojson with return True.
Local notification for resource , message {"bucket": null, "filename": "C:\Users\schernoch\Documents\CSB\Chance-Maritime\2-Validated\wibl-raw.61.geojson", "size": 2679701}.
(wibl-python) PS C:\Users\schernoch\Desktop\WIBL-main\wibl-python\scripts\data-management>
```

Each time a file is submitted successfully, the program will print a submission ID. Make sure to log these submission IDs in case your files need to be tracked down by technical support staff at the DCDB for whatever reason.

If you are unable to batch-submit your processed data using the WIBL PowerShell script provided above, you can use either of the following options to manually submit your .geojson files to the DCDB

Option 1: Python script

Copy the following script into Visual Studio Code and replace `<submissionToken_path.txt>` and `<geojson_path.geojson>` with the appropriate file paths. Save the file as **submit_geojson.py** and make note of what folder you save it in.

```
import requests

token_path = r"<submissionToken_path.txt>"
geojson_path = r"<geojson_path.geojson>"
unique_id = "COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2"
url = "https://www.ngdc.noaa.gov/ingest-external/upload/csb/geojson"

with open(token_path, "r") as f:
    token = f.read().strip()

headers = {
    "x-auth-token": token
}

files = {
```

```

    "file": ("wibl-raw.61.geojson", open(geojson_path, "rb"), "application/json"),
    "metadataInput": (None, f'{{"uniqueID": "{unique_id}"}}')
}

response = requests.post(url, headers=headers, files=files)

# === OUTPUT ===
print(f"Status Code: {response.status_code}")
print(response.text)

```

Perform the following steps to submit your .geojson file to the DCDB.

```

#Launch Command Prompt

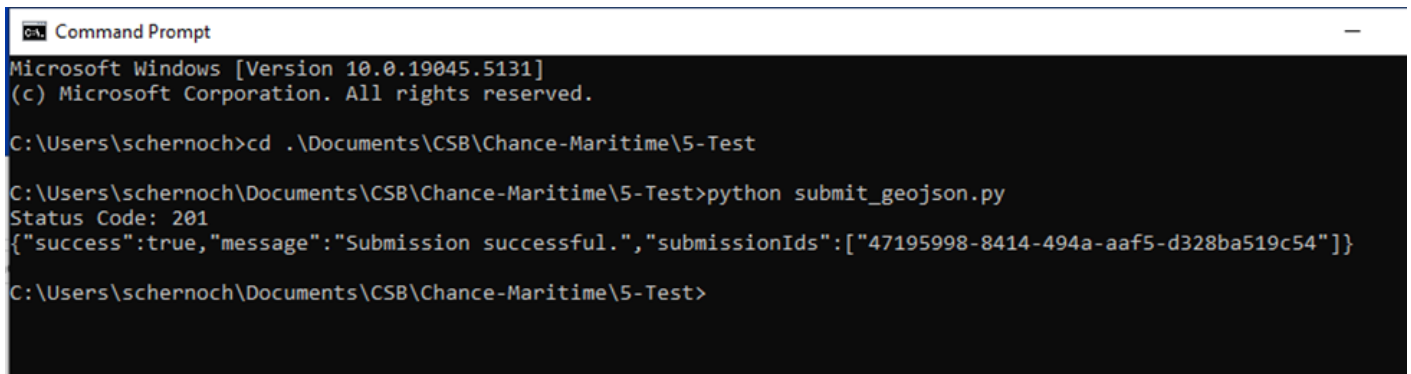
#Call directory to the folder where submit_geojson.py is saved
cd .\<folder_path>

#Run the following code
python submit_geojson.py

#Record the submissionID

```

You should receive the following output if your file was successfully submitted to the DCDB:



```

Command Prompt
Microsoft Windows [Version 10.0.19045.5131]
(c) Microsoft Corporation. All rights reserved.

C:\Users\schernoch>cd .\Documents\CSB\Chance-Maritime\5-Test

C:\Users\schernoch\Documents\CSB\Chance-Maritime\5-Test>python submit_geojson.py
Status Code: 201
{"success":true,"message":"Submission successful.,"submissionIds":["47195998-8414-494a-aaf5-d328ba519c54"]}

C:\Users\schernoch\Documents\CSB\Chance-Maritime\5-Test>

```

Each time a file is submitted successfully, the program will print a submissionID. Make sure to log these submissionIDs in case your files need to be tracked down by technical support staff at the DCDB for whatever reason.

If you have multiple .geojson files to submit, you will need to edit `<geojson_path.geojson>` within **submit_geojson.py** each time you submit a new file.

- This can be done relatively quickly if you keep **submit_geojson.py** open within Visual Studio Code, making sure to save (ctrl+S) your changes before running the code again.
- Once `<geojson_path.geojson>` has been edited to the new file path, you can click the up arrow in Command Prompt to reload the previous command and click enter to run it.

Options 2: Batch script

Perform the following steps to submit your .geojson file to the DCDB. Make sure to replace `<submissionToken_path.txt>` and `<geojson_path.geojson>` with the appropriate file paths.

```
#Copy and paste the following code (lines 3-17) into Visual Studio Code

@echo off
REM Define paths and values
set "TOKEN_FILE=<submissionToken_path.txt>"
set "GEOJSON_FILE=<geojson_path.geojson>"
set "UNIQUE_ID=COMITUSF-e512gc2r-q565-279j-548i-e5fc6389cth2"

REM Read token
set /p TOKEN=<"%TOKEN_FILE%"

REM Run curl
curl -i -X POST "https://www.ngdc.noaa.gov/ingest-external/upload/csb/geojson"^
-H "x-auth-token: %TOKEN%"^
-H "Content-Type: multipart/form-data"^
-F "file=@%GEOJSON_FILE%;type=application/json"^
-F "metadataInput={\"uniqueID\": \"%UNIQUE_ID%\"}"

#Replace <submissionToken_path.txt> and <geojson_path.geojson> with appropriate file paths

#Launch Command Prompt

#Copy and paste your edited code into Command Prompt

#Run the code

#Record the submissionID
```

You should receive the following output if your file was successfully submitted to the DCDB:

```
Command Prompt
REM Read token
set /p TOKEN=<"%TOKEN_FILE%"

REM Run curl
curl -i -X POST "https://www.ngdc.noaa.gov/ingest-external/upload/csb/test/geojson"^
More? -H "x-auth-token: %TOKEN%"^
More? -H "Content-Type: multipart/form-data"^
More? -F "file=@%GEOJSON_FILE%;type=application/json"^
More? -F "metadataInput={\"uniqueID\": \"%UNIQUE_ID%\"}"
HTTP/1.1 100 Continue

HTTP/1.1 201
date: Fri, 27 Jun 2025 16:06:22 GMT
server: Apache
strict-transport-security: max-age=31536000;
x-content-type-options: nosniff
x-xss-protection: 1; mode=block
cache-control: no-cache, no-store, max-age=0, must-revalidate
pragma: no-cache
expires: 0
strict-transport-security: max-age=31536000 ; includeSubDomains
x-frame-options: SAMEORIGIN
vary: accept-encoding
content-type: application/json
access-control-allow-origin: *
access-control-allow-headers: X-Requested-With, Content-Type
transfer-encoding: chunked
connection: close

{"success":true,"message":"Submission successful.","submissionIds":["1054ee86-8326-42ab-b934-2854a6504b8c"]}
```

If you have multiple .geojson files to submit, each time you submit a new file you will need to edit `<geojson_path.geojson>` in Visual Studio Code and then run the edited code in Command Prompt.

Recommended: Test submission

If you would like to test out running the scripts without posting data to the DCDB Data Viewer, simply add /test/ to the endpoint URL, so it instead reads: `https://www.ngdc.noaa.gov/ingest-external/upload/csb/test/geojson`

The test endpoint should always be used first for any system or script testing. Submissions sent to the DCDB production endpoint are considered final submissions and are subject to a lengthy process to remove if submitted in error.

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