Accessing, Filtering, and Downloading Data from the UK Repository

– User Guide –

Thales de Oliveira Souza
Huseyin Tuna Erdinc
(advisor: Felix Herrmann)

Website: https://ndr.nstauthority.co.uk/

Start by clicking on tab ***Data Discovery*** at the top of the page.

⚠ In this phase of this project, we will be focusing on Traditional North Sea areas (east of the UK), where offshore quadrants are numbered **1 to 58**.

⚠ Newer Quadrants (numbered 200 and beyond) **might** also be of interest, especially 201 to 2011, but for now we are not searching on them for consistency. By now, out of 1467 projects available in the Repository, we will investigate 1265.

A. Housekeeping

1. In the **Overview Map** section:
   - Click **Reset Zoom**.
   - Click **Fit Height**.
   - Ensure the UK Quadrants layer is toggled **on**.

2. In the **Project IDs Table**:
   - Click **Fit Height**.
   - Click **Clear Groups**.
   - Click **Clear Filters**.
   - Click **Clear Selected** (if available).

B. Selecting a Quadrant and Reviewing Available Data

1. In the **Overview Map** section:
   - Scroll to zoom into **Quadrant 49**.
     ⚠ *Avoid zooming too far—at a certain level, Quadrants are replaced by Blocks.*
   - Center the map to clearly display **Quadrant 49** and surrounding Quadrants.
   - Ensure the Offshore Fields layer is toggled **off**.
   - Click **once** inside Quadrant 49.
     ⚠ *Wait a few seconds while the system processes the selection.*
     ➤ The **Project IDs Table** should now list **1070 rows**.

2. In the **Project IDs Table**:
   - Type FINAL_POST_STACK_TIME in the **Summary Tags** column filter.
   - In the **Seismic Type** column, filter to **3D** only.
     (Scroll horizontally to find this column.)
     ➤ The **Project IDs Table** should now list **18 rows**.

3. Hover over each of the 18 remaining rows to visualize the seismic survey boundary in the **Overview Map**.

4. Click the **Company ID** column title to sort rows alphabetically.

5. Check the box in the first column of each row to select them. The button **Export CSV** will be made available, so click on it.

   ⚠ *Keep the file as **your list of projects** to be inspected for data.*

   ⚠ *Each Project ID will later be recorded in the **UK NDR Data Download Tracker** online spreadsheet and, if enough wells are found, the Project ID will also be used as the standard name for the dataset folder in Cruyff, in the format Dataset_XX__9999seis8888. Later in step **C5** more instructions will be given.*

6. Uncheck the selection box of each row, do that manually.

7. Start the inspection. Begin with the first survey:
   - Select it (**Project ID** LH__1994seis0001) by checking the selection box.
   - The **Overview Map** will now display:
     - A **blue polygon** around Quadrant 49 (indicating the active filter).
     - A **black polygon** showing the selected seismic boundary.

8. Restore the Quadrant-filtered dataset in the **Project IDs Table** by:
   - Clear the FINAL_POST_STACK_TIME filter in **Summary Tags**.
   - Clear the **3D** filter in **Seismic Type**.

   ➤ The **Overview Map** should remain unchanged, and the **Project IDs Table** should revert to **1070 rows**.

C. Identifying Wells within the Seismic Area

1. In the **Overview Map**:
   - Zoom in so that the seismic boundary fills the window.
   - Ensure the **Offshore Fields** layer is toggled **on**.
   - Black dots (wells) should now be visible.

2. Zoom in and out as needed to determine whether each well near the seismic boundary lies **inside** or **outside** the area.

3. Use the **Draw Selection Polygon** tool:
   - Activate it in the **Overview Map** and give the first click **outside** one corner of the seismic boundary polygon.
   - For the next clicks, click around the **inner corners** of the seismic boundary to draw a polygon enclosing the survey area.

     ⚠ *Avoid drawing corners outside the seismic polygon.*
   - After closing the polygon, the **Project IDs Table** will automatically update to list only projects within the defined area **(74 rows)**.

4. In the updated **Project IDs Table**:
    - Type CSHOT_FILE JWL_FILE in the **Summary Tags** column filter.
      ➤ This filters the table to wells with both check-shot and well logging files.

5. In the **filtered Project IDs Table**, review the list of wells and **count them**. Focus on the **Survey/Well ID** column.

⚠ *If a well appears with a name and a **suffix "z"** (e.g., 49/09b-4 and 49/09b-4z), count it as **one single well**, as it represents different phases of the **same** wellbore.*

✅ **If 5 or more unique wells** (based on the rule above) are listed, the selected seismic survey is **suitable for further processing**.

➤ Create a folder in your laptop named after the Project ID, like Dataset_XX__9999seis8888, to hold the files that will be later downloaded.

➤ Proceed to the **next section** of this tutorial.

❌ **If fewer than 5 unique wells** are listed (e.g., only 4), the selected seismic survey is **not suitable** due to insufficient check-shot data for reliable time-to-depth conversion.

➤ In this case, follow these steps:

- Go to the **UK NDR Data Download Tracker** online spreadsheet and record the results for this seismic project.
- Then:
    1. Repeat the **Housekeeping steps** (see **Section A**).
    2. Refer to the .csv file you downloaded earlier (from **Step B5**) and copy the **next seismic Project ID** to be tested.
    3. In the **Project IDs Table**, type this new ID into the **Project ID** column to isolate and display it.
    4. Click on the filtered row so the corresponding polygon appears in the **Overview Map**.
    5. Resume the workflow from **Section C1** of this tutorial.

D. Downloading After Identifying a Suitable Seismic Survey with Sufficient Wells

1. In the **Project IDs Table**:
    - Check the box in the **first column** of each row to select **all wells** that contain both check-shot and logging data.
      ⚠ *If a well appears with a name and a suffix **"z"**, select both for download anyway.*

2. Click the **View Files** button.

3. A new **Files Table** will appear at the **bottom of the screen**. Scroll down to access it.

4. In the **Files Table**, click **Fit Width** to properly display the table content.

5. In the **Files Table**:
    - Filter the **Classification Tags** column by typing CSHOT_FILE.
      ➤ The table should now display one check-shot file for each of the wells.
      ⚠ *If the row count is smaller than the number of wells previously selected, some mistake was made so repeat the whole process again.*
      ⚠ *It is ok that in some cases there is more than a check-shot for the same well, and all of them matter.*
    - Check the box in the **first column** of each row.
    - Filter the **Classification Tags** column again, now by typing JWL_FILE.
      ➤ The table should now display several files, all listed with the **File Format** column marked as LAS.
      ⚠ *If the row count is smaller than the number of wells previously selected, some mistake was made so repeat the whole process again.*
      ⚠ *It is ok that in some cases there is more than one logging file for the same well, and all of them matter.*
    - Check the box in the **first column** of each row.

6. Clear the filter from the **Classification Tags** column.

7. Click **Add Files to Session Basket** to finalize your selection.

8. In the **Files Table**:
    - Click **Clear ALL Files** to remove previously listed files.

9. In the **Overview Map**:
    - Click the **Draw Selection Polygon** tool again to ensure it is **deactivated**.

10. Perform **Housekeeping** steps again as in steps **A1-2**.
    ⚠ Do **not** click **Reset Settings to Defaults** or **Refresh the page**.

11. In the **Project IDs Table**:
    - Filter the **Project ID** column by typing the ID of the previously selected seismic survey.
      ➤ You can copy this ID from the previously downloaded .csv file from step **B5**.

12. Select the seismic project by checking the box in the **first column** of the row containing the seismic ID.

13. Click the **View Files** button.
    ➤ The **Files Table** will repopulate at the bottom of the screen with all files related to the selected seismic project. Scroll down to access it.

14. In the **Files Table**:
    - Filter the **Classification Tags** column by typing FINAL_POST_STACK_TIME.
      ➤ The table should now display one or more files, all listed with the **File Format** column marked as SEGY.
    - Check the box in the **first column** of each row.
    - Click **Add Files to Session Basket** to finalize the selection.

15. Still in the **Files Table**, clear the filter in **Classification Tags** column.

16. Then, in the **File Format** column, type in **PDF**.
    ➤ The table will now list all associated PDF reports for the selected seismic project.

17. Locate the **Legacy Loading Sheet**:
    - Look for a file with this name or similar, by checking columns:
      - **Classification Tags**
      - **Information Tags**
      - **Information Tag Descriptions**
      - **File Name**

    - Click the **Preview** button to review each candidate file.
      ➤ Confirm that the previewed file is a small pdf that includes:
      - A **summary sheet** with seismic metadata.
      - A **location map** of the seismic survey.

    - If confirmed, close the preview and **check the box** in the first column to select the file.

18. If the correct PDF is not immediately found, continue previewing each PDF until the correct one is located.
    - If no suitable Legacy Loading Sheet is found, select **any one PDF file** under each **Classification Tag** as a fallback.

18. Clear the PDF filter from the **File Format** column.

19. Click **Add Files to Session Basket** to finalize your selection.

E. Downloading Files from the Session Basket

1. At the **top of the page**, click the ***Session Basket*** tab.
   ➤ This opens a new page listing all the files you previously selected.

2. In the ***Session Basket***:
   - Re-select the files by checking the box in the **first column** of the table.
   - Once selected, a black status bar will display the **Selected Data Size**.
   - A green button labeled **Create Download Package from Selection** will appear.
   - Click this button to request your download.

3. A .csv file will automatically download, containing a list of the selected items. Rename the file as: *NDR_Download_Request_Summary_Dataset_XX__9999seis8888* to be uploaded into **Cruyff** folder.
   - A pop-up will appear stating:
     Information Message: Your selection has been divided into X package(s). Please check the status of your download packages on the Your Downloads page – it may take a few minutes for packages to appear.
   - Close the pop-up.

F. Retrieving the Final Packages

1. After a few minutes, click the ***Your Downloads*** tab at the top of the page.
   ➤ This opens the download status page.

2. A new pop-up may appear stating:
   Information Message: You have X download packages that are processing. Please click "Refresh List" button when enabled.
   - Close this pop-up.

3. The page will show a table listing each **Project ID** (not the individual files).
   - Initially, each entry will show the message:
     "Preparing Package for Download..."

4. Wait several minutes. Once ready, click the **Refresh List** button (green) to update the status.

5. When processing is complete:
   - The "*Preparing Package for Download...*" messages will be replaced by one or more green **Download buttons** for each project.
   - Confirm the list includes:
     - **One seismic project**, and
     - **All expected well projects** (based on your selection).

6. Download the data:
   - Click each **Download** button **one at a time**, allowing each ZIP file to download before proceeding to the next.
     ⚠ *The website may be slow — avoid clicking multiple downloads simultaneously.*

7. Once all ZIP files are downloaded, click the red **Expire Manually** button for housekeeping.
   - Those ZIP files **need to be extracted** and the selected files/folders need to be uploaded to **Cruyff** folder, following the directions described in the NOTES file already in Cruyff.
   - Go to the **UK NDR Data Download Tracker** online spreadsheet and record the results for this seismic project.

G. Cleaning Up and Preparing for a New Session

11. Go to the ***Session Basket*** tab:
    - Click Clear Session Basket.

12. Go to the ***Data Discovery*** tab:
    - Refresh the page to begin a new data selection workflow.