

NAVIEDIT

STEP-BY-STEP, TIDAL IMPORT

Last update: 07/04/2020
Version: 8.5

1 Step-by-step

1. Open **NaviEdit JobPlanner**
2. Go to the **Import** option from the menu bar and import the tide file as **ASCII Files...**

In the following example the tidal data set has this format:

```
27/10/2013,00:00,0.95
27/10/2013,00:10,0.97
27/10/2013,00:20,0.99
```

3. The ASCII interpreter wizard opens and consists of 5 configuration steps.
4. In step 1 you import the tidal file by clicking **Add** and browse to the file(s).

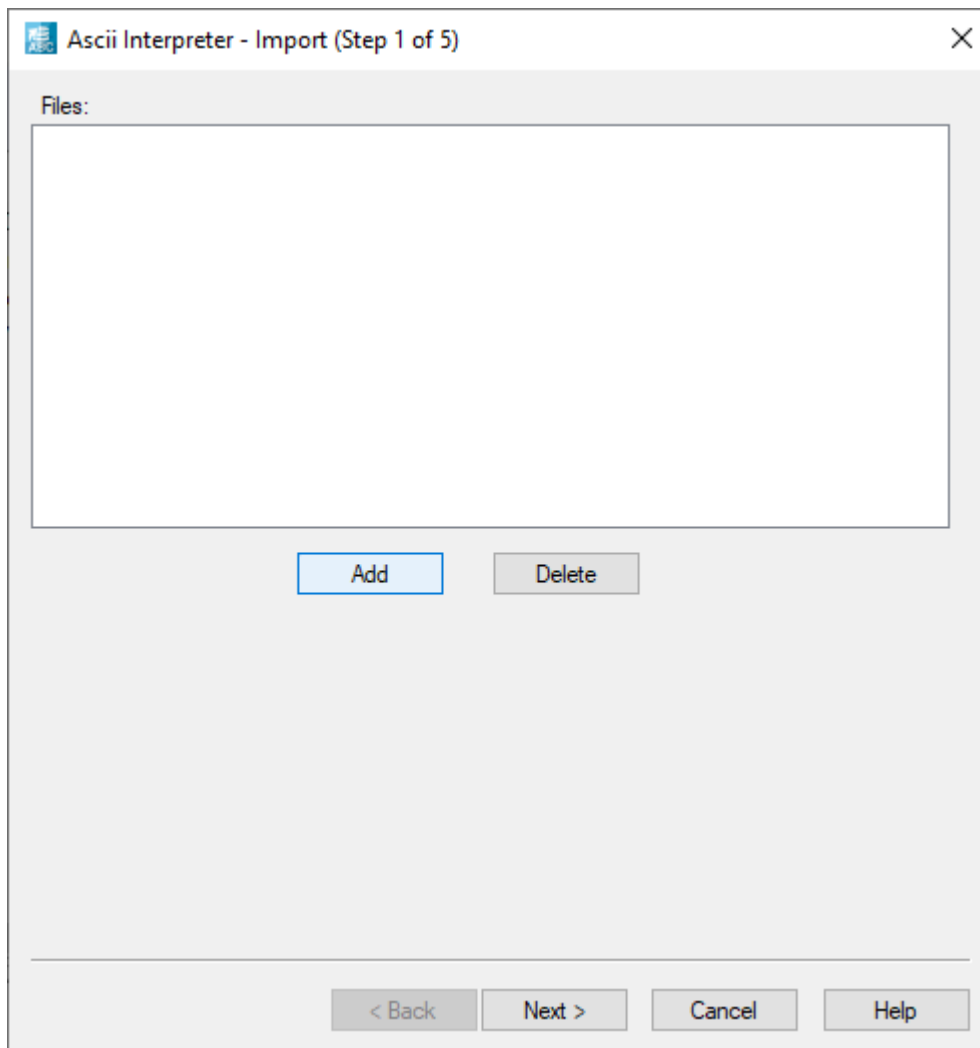


Figure 1 Ascii interpreter wizard: Select Raw File(s)

5. Browse to the file location and select the file that you want to import.

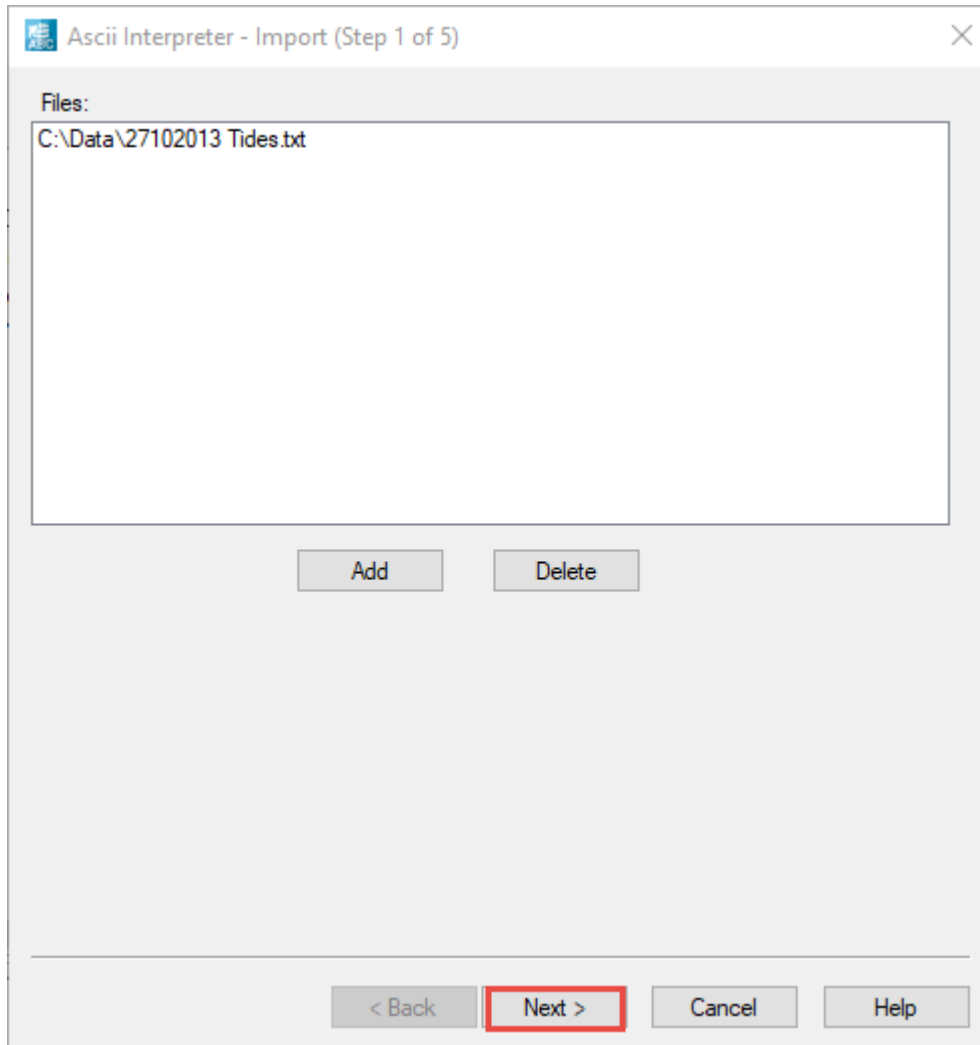


Figure 2 Ascii Interpreter configuration: Tidal file selected

6. Click **Next**.
7. In the **Data type to import** option, select **Tide** from the drop down. More options are available, SVP, Line_KP, XYZ, Pressure and CTD.
8. Choose a template that decodes the data, you can see the decoded data in the lower view.
If you do not have an acceptable template, highlight the **EIVA tide format** and click **Edit selected**.

Ascii Interpreter - Select data format (Step 2 of 5)

Data type to import:

Coordinate scheme
☒ Easting / Northing
☐ Latitude / Longitude

Template
 Baku Training
 Capital Signal format
EIVA tide format
 Finnish tide format
 NaviPac GPS Tide
 Polpred MSL
 skummelt tide format
 Tidewmonitor with header
 Training_09_Tide

Example of data after the selected template has been used:

| | |
|-------|-------|
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| 27.00 | 27.00 |
| ---- | ---- |

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Figure 3 Ascii interpreter wizard: EIVA tide format selected for editing

9. The columns dialogue opens presenting the tide data.

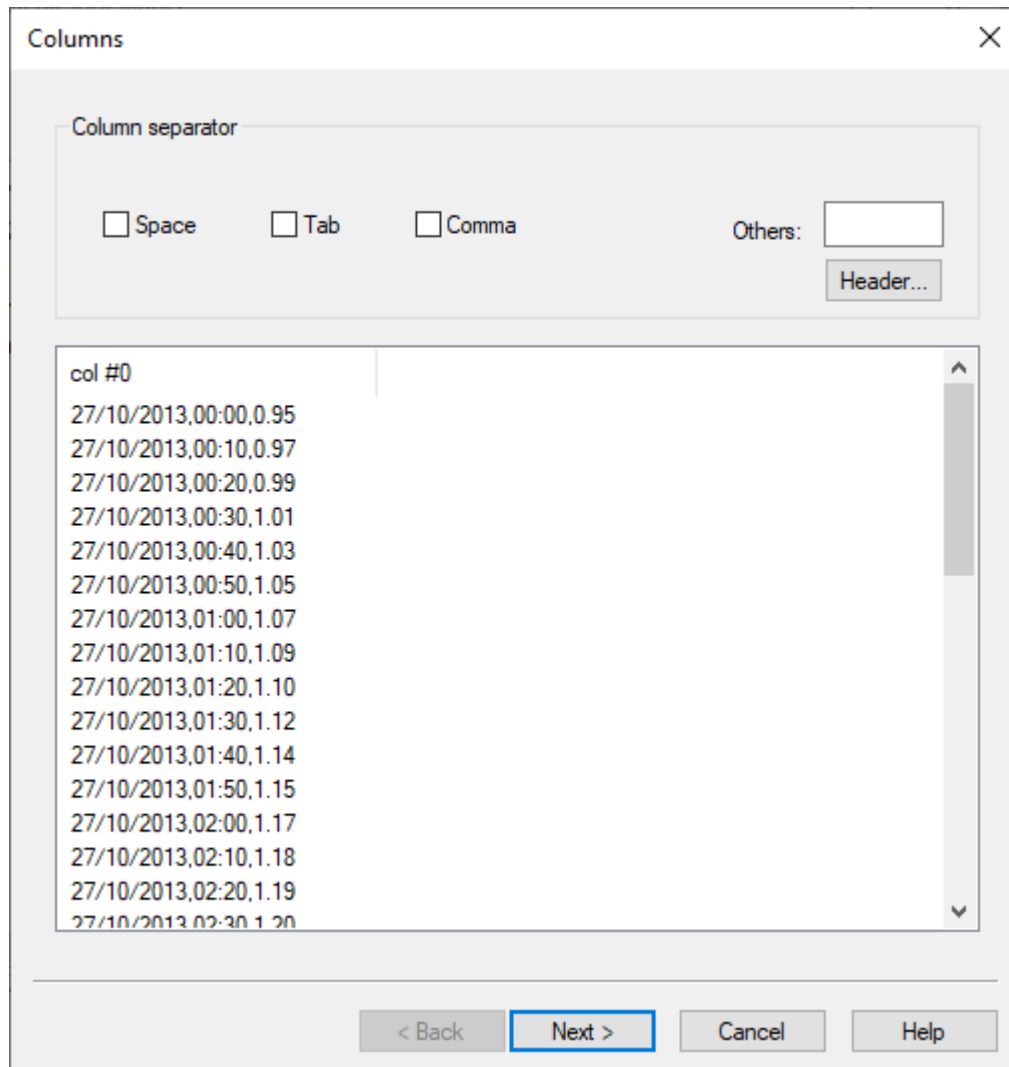


Figure 4 Ascii interpreter wizard: Separator

10. To read the tidal data properly, enter the column separators, e.g. comma, slash and colon.

Columns

Column separator

☒ Space
☐ Tab
☒ Comma
Others:
Header...

| col #0 | col #1 | col #2 | col #3 | col #4 | col #5 |
|--------|--------|--------|--------|--------|--------|
| 27 | 10 | 2013 | 00 | 00 | 0.95 |
| 27 | 10 | 2013 | 00 | 10 | 0.97 |
| 27 | 10 | 2013 | 00 | 20 | 0.99 |
| 27 | 10 | 2013 | 00 | 30 | 1.01 |
| 27 | 10 | 2013 | 00 | 40 | 1.03 |
| 27 | 10 | 2013 | 00 | 50 | 1.05 |
| 27 | 10 | 2013 | 01 | 00 | 1.07 |
| 27 | 10 | 2013 | 01 | 10 | 1.09 |
| 27 | 10 | 2013 | 01 | 20 | 1.10 |
| 27 | 10 | 2013 | 01 | 30 | 1.12 |
| 27 | 10 | 2013 | 01 | 40 | 1.14 |
| 27 | 10 | 2013 | 01 | 50 | 1.15 |
| 27 | 10 | 2013 | 02 | 00 | 1.17 |
| 27 | 10 | 2013 | 02 | 10 | 1.18 |
| 27 | 10 | 2013 | 02 | 20 | 1.19 |
| 27 | 10 | 2013 | 02 | 30 | 1.20 |

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Figure 5 Ascii interpreter wizard: Column separators applied

11. Click **Next**

12. The **Primitives** dialogue opens

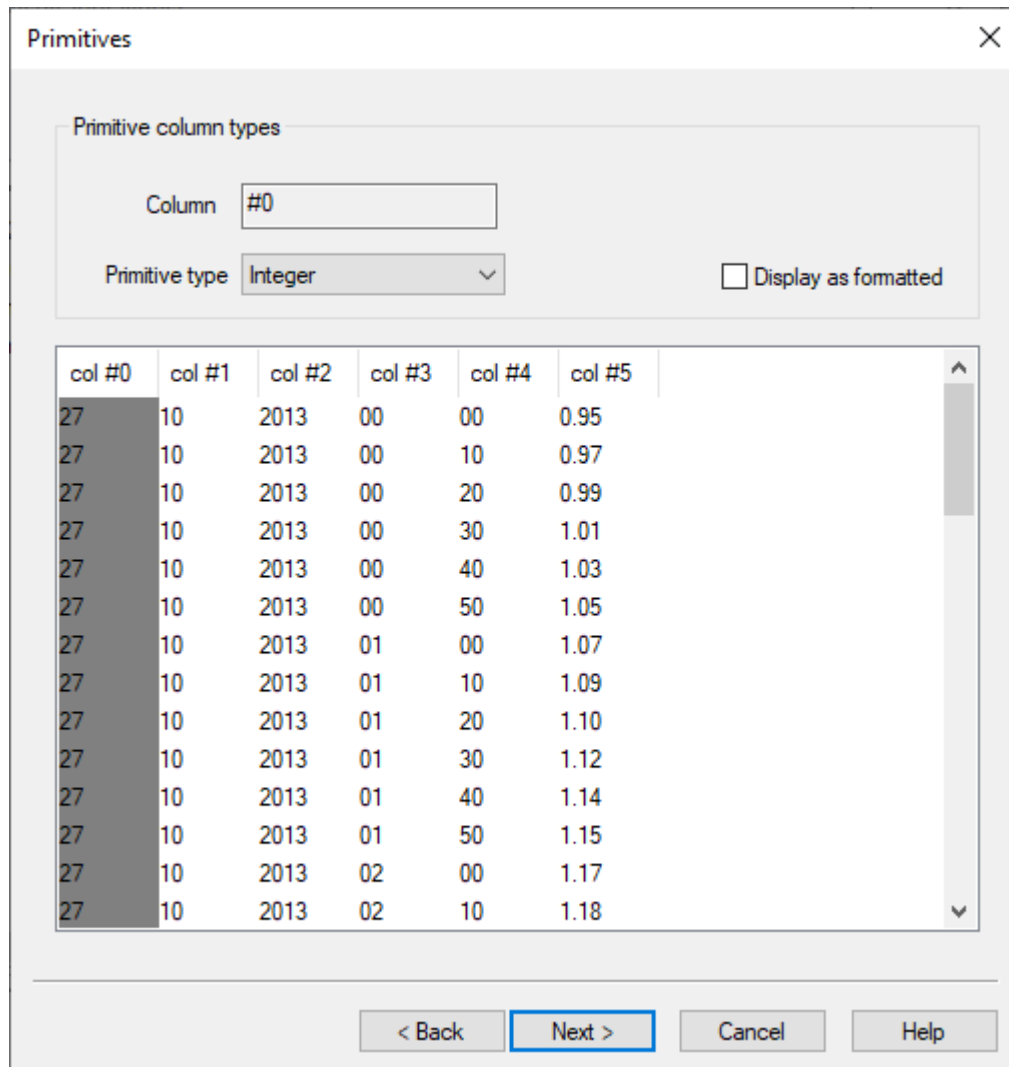


Figure 6 Ascii interpreter wizard: Primitives dialogues

13. Choose Primitive type **Integer** for all columns, exclusively column 5

14. Choose **Double** for column 5

Primitives

Primitive column types

Column

Primitive type ☐ Display as formatted

| col #0 | col #1 | col #2 | col #3 | col #4 | col #5 |
|--------|--------|--------|--------|--------|--------|
| 27 | 10 | 2013 | 00 | 00 | 0.95 |
| 27 | 10 | 2013 | 00 | 10 | 0.97 |
| 27 | 10 | 2013 | 00 | 20 | 0.99 |
| 27 | 10 | 2013 | 00 | 30 | 1.01 |
| 27 | 10 | 2013 | 00 | 40 | 1.03 |
| 27 | 10 | 2013 | 00 | 50 | 1.05 |
| 27 | 10 | 2013 | 01 | 00 | 1.07 |
| 27 | 10 | 2013 | 01 | 10 | 1.09 |
| 27 | 10 | 2013 | 01 | 20 | 1.10 |
| 27 | 10 | 2013 | 01 | 30 | 1.12 |
| 27 | 10 | 2013 | 01 | 40 | 1.14 |
| 27 | 10 | 2013 | 01 | 50 | 1.15 |
| 27 | 10 | 2013 | 02 | 00 | 1.17 |
| 27 | 10 | 2013 | 02 | 10 | 1.18 |

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Figure 7 Ascii interpreter wizard: Primitive double selected for column 5

15. Click **Next**
16. Output fields opens
17. Select Output field **TimeDate (Double)** and choose encoding and input columns

Output fields

Input

| col #0 | col #1 | col #2 | col #3 | col #4 | col #5 |
|--------|--------|--------|--------|--------|--------|
| 27 | 10 | 2013 | 00 | 00 | 0.95 |
| 27 | 10 | 2013 | 00 | 10 | 0.97 |
| 27 | 10 | 2013 | 00 | 20 | 0.99 |

Data translation

Output field (1)
TimeDate (Double) v

Encoding (2)
Double v

Input columns (3)
Data column
col #0 (Integer) v

Output

| TimeDate | Tide (m, up+) |
|-------------|---------------|
| 00:00:00 28 | 10.00 |
| 00:00:00 28 | 10.00 |
| 00:00:00 28 | 10.00 |

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Figure 8 Ascii interpreter wizard: Output fields TimeDate (Double) selected

18. Select the proper columns for year, month, etc, as shown in the screenshot below.
This is the original data format, 27/10/2013,00:00,0.95

Output fields

Input

| col #0 | col #1 | col #2 | col #3 | col #4 | col #5 | col #0 | col #1 | col #2 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 27 | 10 | 2013 | 00 | 00 | 0.95 | | | |
| 27 | 10 | 2013 | 00 | 10 | 0.97 | | | |

Data translation

Output field (1)
TimeDate (Double)

Encoding (2)
Date (y+m+d + h+m+s)

Input columns (3)

Year column
col #2 (Integer)

Month column
col #1 (Integer)

Day column
col #0 (Integer)

Hour column
col #3 (Integer)

Minute column
col #4 (Integer)

Second column
Missing data

Output

| TimeDate | Tide (m, up+) |
|---------------------|---------------|
| 00:00:00 27/10 2013 | 10.00 |
| 00:10:00 27/10 2013 | 10.00 |
| 00:20:00 27/10 2013 | 10.00 |

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Figure 9 Ascii interpreter wizard: Input columns set, e.g. column #2 is the year.

19. Choose **Next**.
20. Select Output field **Tide (m, up+) (Double)** and choose encoding and input columns.

Output fields

Input

| col #0 | col #1 | col #2 | col #3 | col #4 | col #5 | col #0 | col #1 | col #2 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 27 | 10 | 2013 | 00 | 00 | 0.95 | | | |
| 27 | 10 | 2013 | 00 | 10 | 0.97 | | | |

Data translation

Output field (1)
 Tide (m, up+) (Double) ▼

Encoding (2)
 Double ▼

Input columns (3)
 Data column
 col #5 (Double) ▼

Output

| TimeDate | Tide (m, up+) |
|---------------------|---------------|
| 00:00:00 27/10 2013 | 0.95 |
| 00:10:00 27/10 2013 | 0.97 |
| 00:20:00 27/10 2013 | 0.99 |

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Figure 10 Ascii interpreter wizard: Output field definitions

21. Press **Next**.

Output conversion

Raw output

| TimeDate | Tide (m, up+) |
|---------------------|---------------|
| 00:00:00 27/10 2013 | 27.00 |
| 00:10:00 27/10 2013 | 27.00 |
| 00:20:00 27/10 2013 | 27.00 |
| 00:30:00 27/10 2013 | 27.00 |
| 00:40:00 27/10 2013 | 27.00 |
| 00:50:00 27/10 2013 | 27.00 |

Value conversion

Output field

Tide (m, up+)

Converted = (1 * Raw) + 0

Apply

Converted output

| TimeDate | Tide (m, up+) |
|---------------------|---------------|
| 00:00:00 27/10 2013 | 27.00 |
| 00:10:00 27/10 2013 | 27.00 |
| 00:20:00 27/10 2013 | 27.00 |
| 00:30:00 27/10 2013 | 27.00 |
| 00:40:00 27/10 2013 | 27.00 |

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Finish

Cancel

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Figure 11 Output conversion dialogue

22. Check that the decoding is done properly.

23. **Finish**

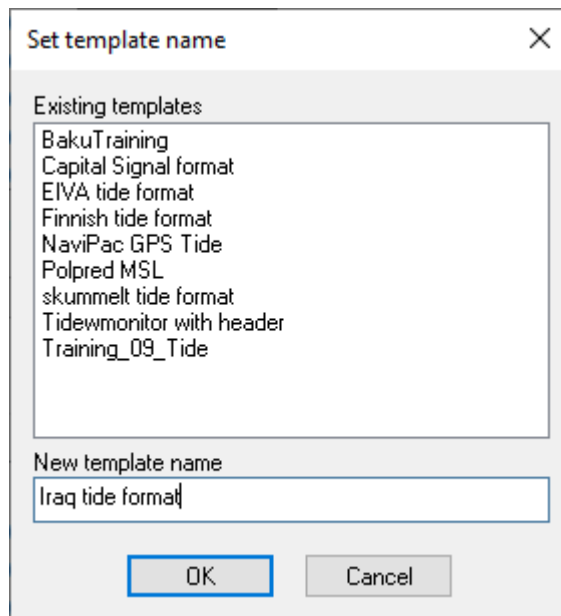


Figure 12 Set template name

24. Save new format with the name you specify, here Iraq tide format.

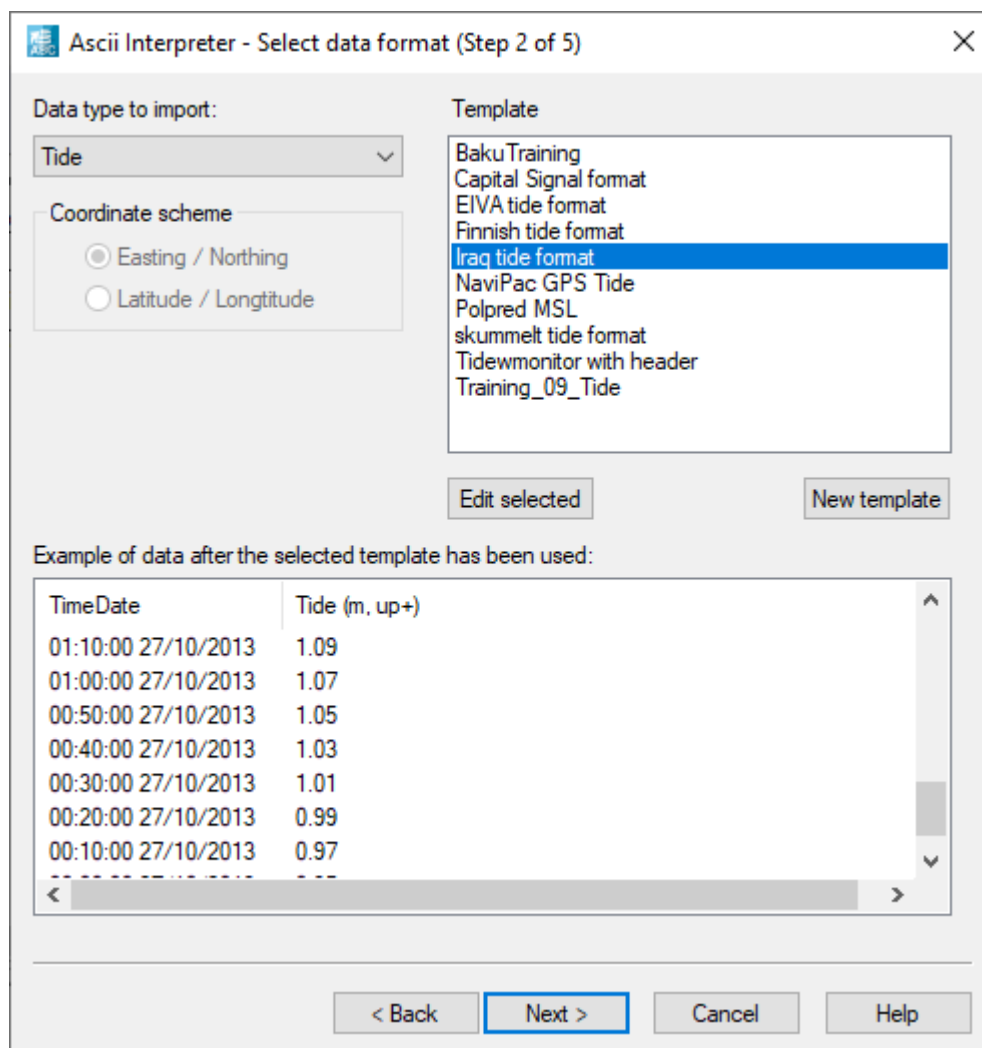
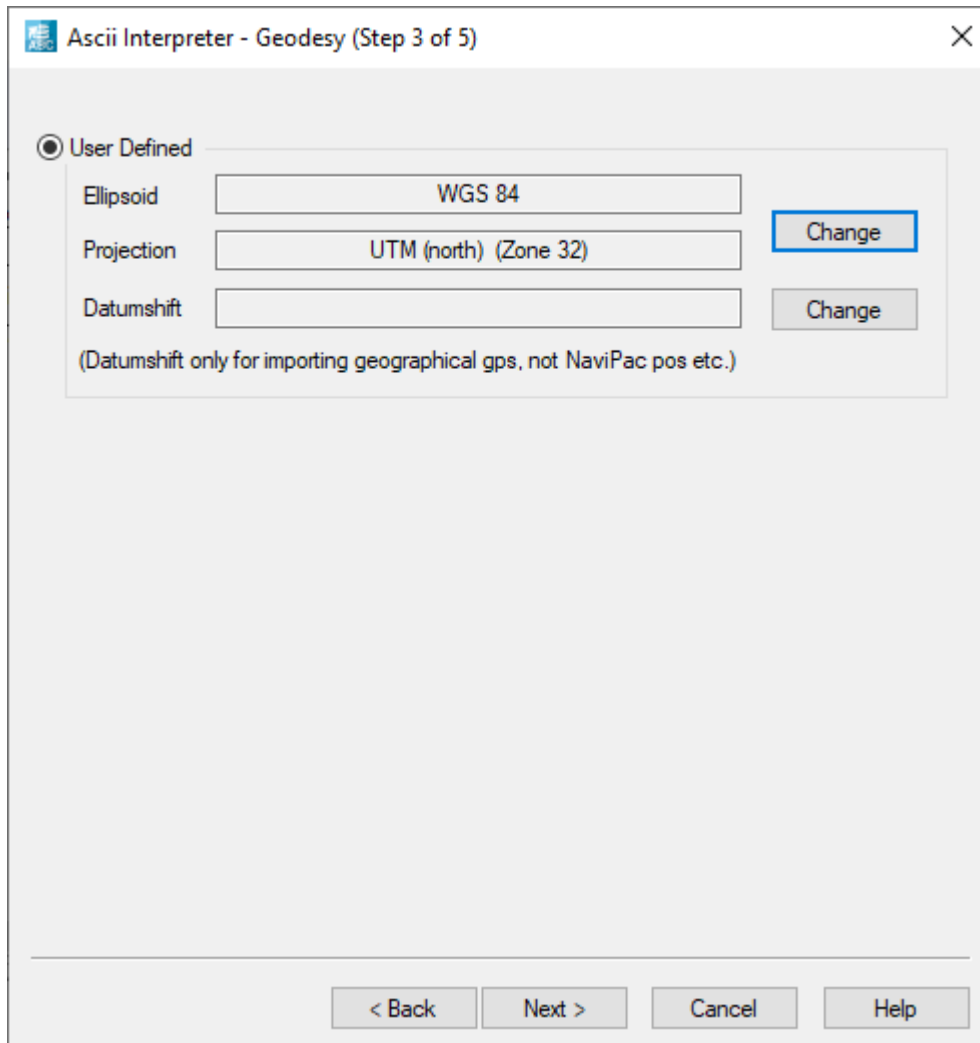


Figure 13 Ascii Interpreter wizard: New tidal import selected.

25. Choose the new template to import the tidal-file by highlighting it.
26. Click **Next**.



Ascii Interpreter - Geodesy (Step 3 of 5)

☒ User Defined

Ellipsoid: WGS 84 Change

Projection: UTM (north) (Zone 32) Change

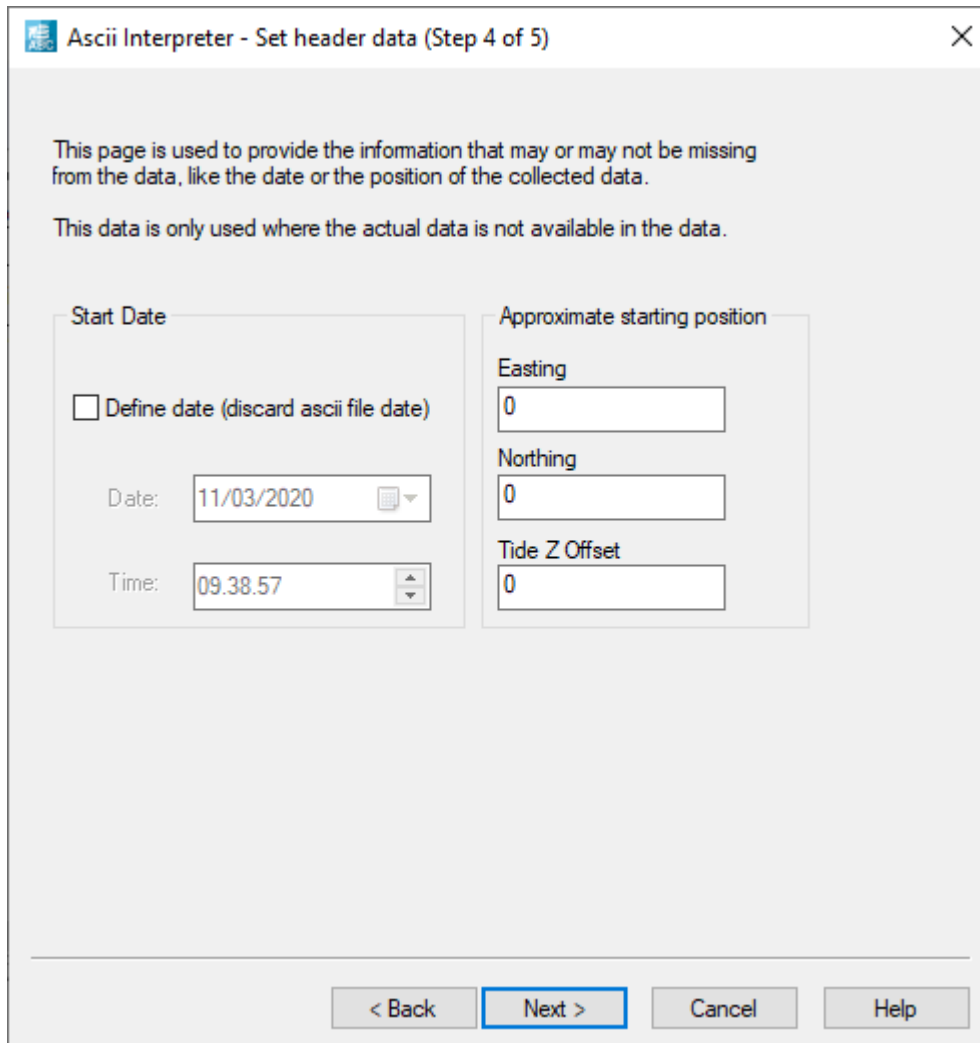
Datumshift: Change

(Datumshift only for importing geographical gps, not NaviPac pos etc.)

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Figure 14 Ascii interpreter wizard: With default settings.

27. Choose default settings.
28. Click **Next**
29. Choose default settings in step 4.



Ascii Interpreter - Set header data (Step 4 of 5)

This page is used to provide the information that may or may not be missing from the data, like the date or the position of the collected data.

This data is only used where the actual data is not available in the data.

Start Date

☐ Define date (discard ascii file date)

Date: 11/03/2020

Time: 09.38.57

Approximate starting position

Easting: 0

Northing: 0

Tide Z Offset: 0

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Figure 15 Ascii interpreter wizard: default settings

30. Click **Next**
31. In step 5 you can enter a note or disable opening the report that gets created when importing the tidal data into NaviEdit.

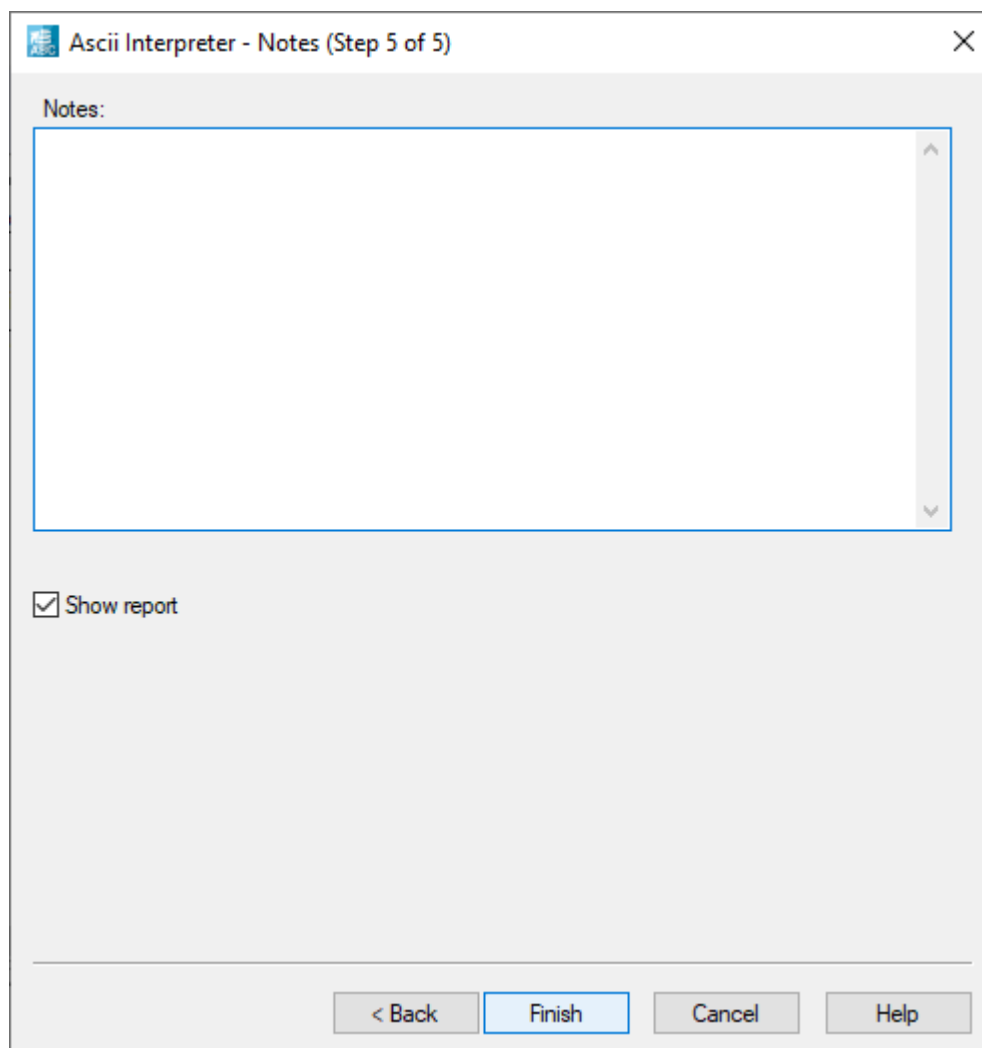


Figure 16 Ascii interpreter wizard: Enter notes option

32. Create a new folder, e.g. Tide.

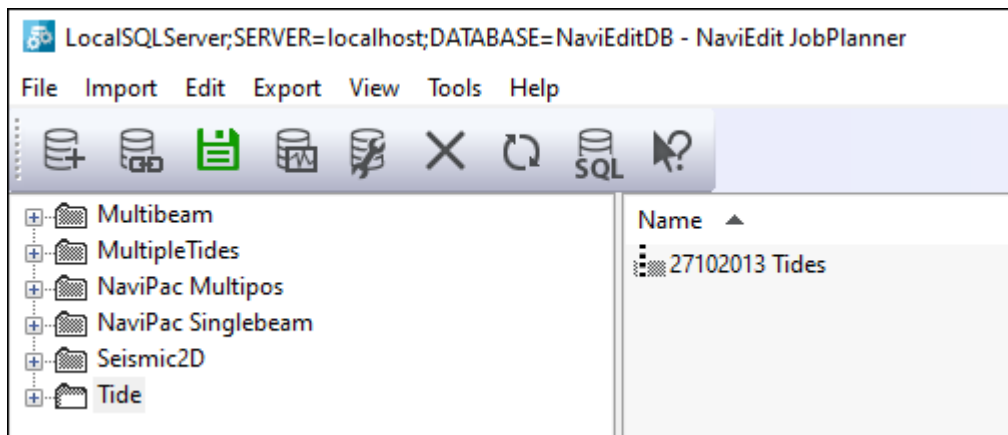


Figure 17 NaviEdit import: Select folder to place file into.

33. Report looks as shown here:

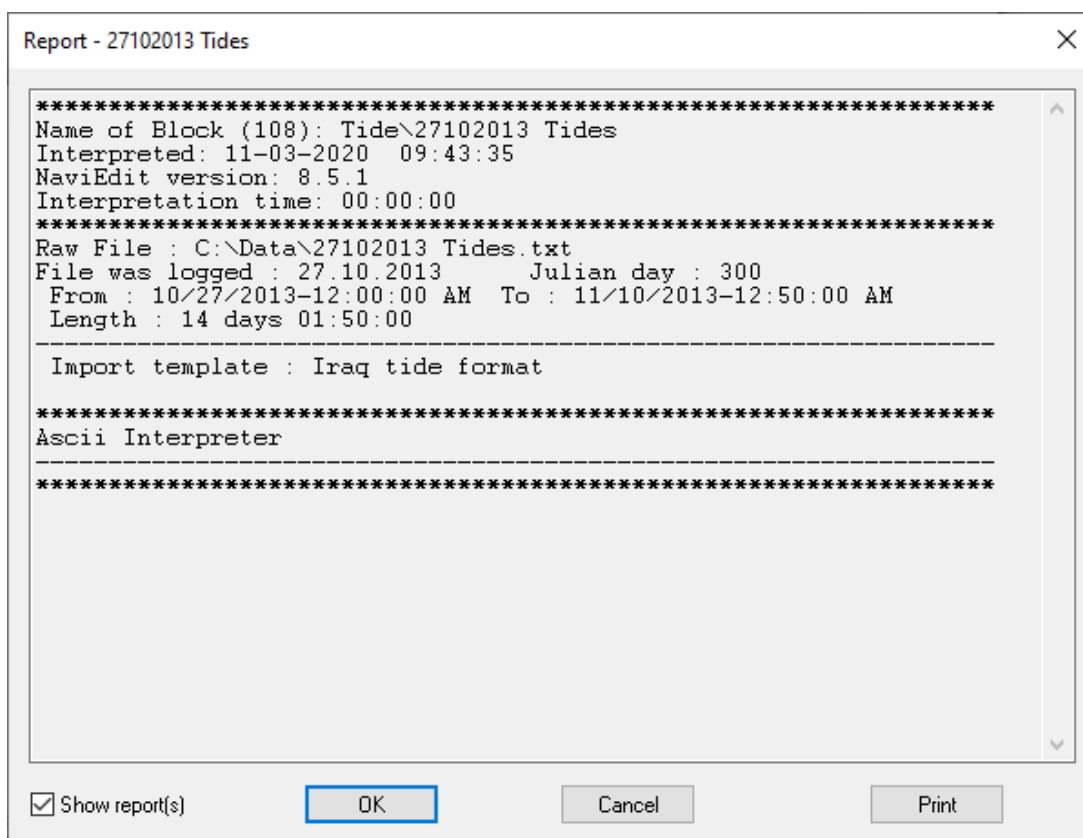


Figure 18 NaviEdit: Import report.

34. Click **OK** to finalize the wizard.
35. Open the Tide file in the data editor.

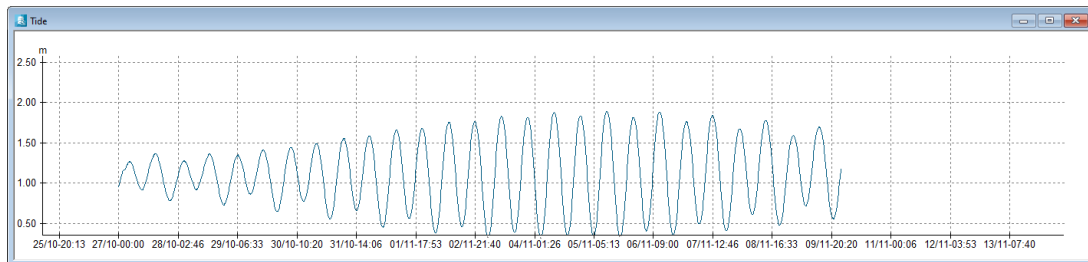
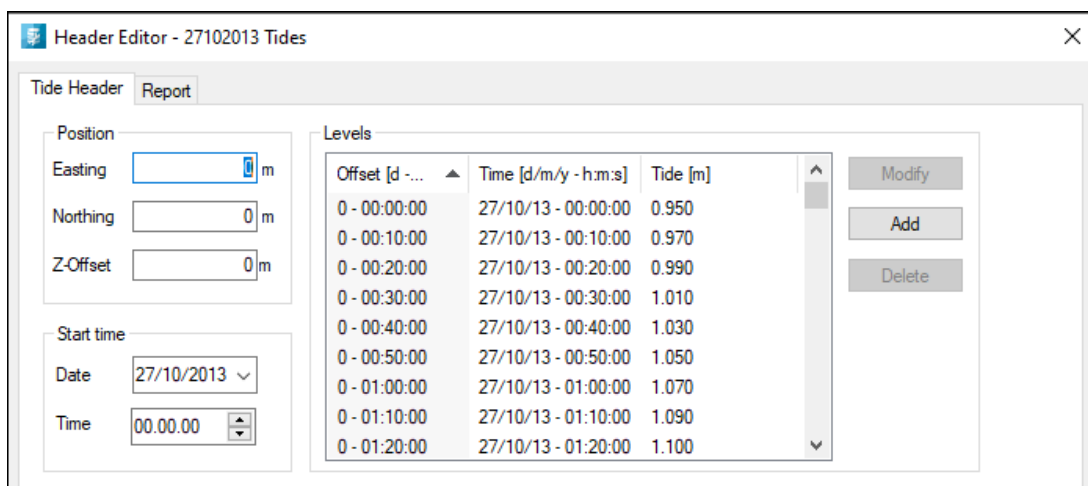


Figure 19 Data Editor: Tidal file

36. Open the file in the Header Editor



| Offset [d - ...] | Time [d/m/y - h:m:s] | Tide [m] |
|------------------|----------------------|----------|
| 0 - 00:00:00 | 27/10/13 - 00:00:00 | 0.950 |
| 0 - 00:10:00 | 27/10/13 - 00:10:00 | 0.970 |
| 0 - 00:20:00 | 27/10/13 - 00:20:00 | 0.990 |
| 0 - 00:30:00 | 27/10/13 - 00:30:00 | 1.010 |
| 0 - 00:40:00 | 27/10/13 - 00:40:00 | 1.030 |
| 0 - 00:50:00 | 27/10/13 - 00:50:00 | 1.050 |
| 0 - 01:00:00 | 27/10/13 - 01:00:00 | 1.070 |
| 0 - 01:10:00 | 27/10/13 - 01:10:00 | 1.090 |
| 0 - 01:20:00 | 27/10/13 - 01:20:00 | 1.100 |

Figure 20 Header Editor: Tidal file

2 Version descriptions

| Version | Date | Author | Description |
|---------|------------|--------|----------------------------------|
| 0.1 | 13/03/2007 | LDA | Created |
| 0.2 | 20/04/2016 | ANS | Transferred to new EIVA template |
| 0.3 | 06/04/2020 | ANS | Updated |
| | | | |