



Handling Bad RAW Files with Binary Messages from the GPS

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This is an example of bad data logged in HYPACK® SURVEY if the GPS outputs binary information:

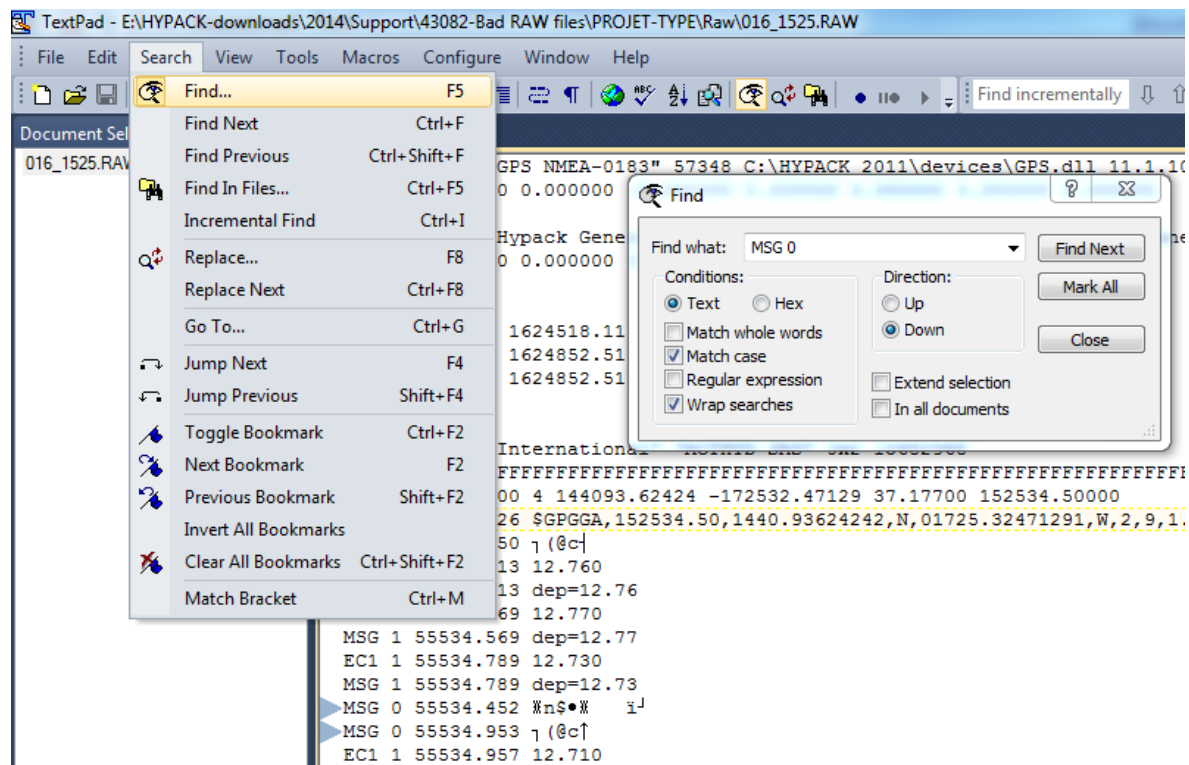
```
MSG 0 55534.450 (@c
EC1 1 55534.513 12.760
MSG 1 55534.513 dep=12.76
EC1 1 55534.569 12.770
MSG 1 55534.569 dep=12.77
EC1 1 55534.789 12.730
MSG 0 55534.452 n$ĩ
MSG 0 55534.953 (@c
```

This happens when the “Record Raw Messages” option is checked for the GPS.dll. The raw messages from the GPS driver are only used in the editors to recalculate RTK Tide corrections in post-processing. If you don’t use this process, you may deselect the Record Raw Messages option. Alternatively, just make sure your GPS is outputting only (ASCII) NMEA 0183 messages (i.e. GGA, GSV, ZDA etc).

You need to delete all such messages from the RAW file. I like using the TEXTPAD program, a free word processing program with tools that are particularly helpful for the type of editing required. The following is the procedure to quickly remove the GPS MSG strings using TEXTPAD (<http://www.textpad.com/download/index.html>):

1. **Open RAW file in TEXTPAD.** In the example above, the GPS.dll is assigned to device number 0.0 Therefore, we are looking for MSG records for device 0. (Strings that begin with “MSG 0”.)
2. **Select SEARCH – FIND.**
3. **Enter the string header (MSG 0 in this example) and click [Mark All].** The marked items should be highlighted with the blue triangles.

FIGURE 1. Removing the MSG 0 Records in TextPad



4. **Delete highlighted strings.** Select EDIT – DELETE – BOOKMARKED LINES.
5. **Save the resulting file as a *.raw file.**
Tip: Provide a different name to keep original data.
6. **Verify the RAW file is correct.** Open the new file in SBMAX (the SINGLE BEAM EDITOR) to be sure it can be correctly read.