
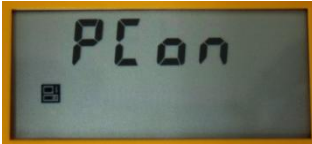


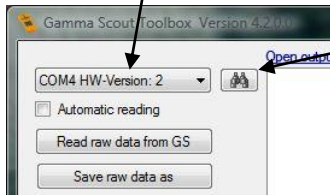
Retrieve data:

Level 0:

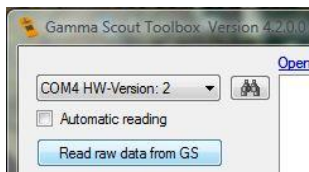
- Create a destination folder for the data named har(yymmdd)_gscoutData_level0
- Plug Gamma-Scout into computer
- Open Gamma-Scout Toolbox
- Press the **computer button**  (in the bottom left corner) on the Gamma-Scout—don't be alarmed by the beeping. “PC on” will be displayed.



- If the Gamma-Scout has not been connected before, press the binocular button, and select a comport

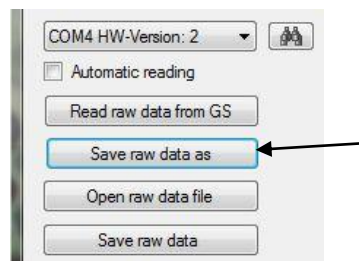


- Press “Read raw data from GS”



- Save three files (each as different types)

- ▽ Push “Save raw data as”



- ◇ Find destination folder

- ◇ In the drop down menu, select “.txt” file

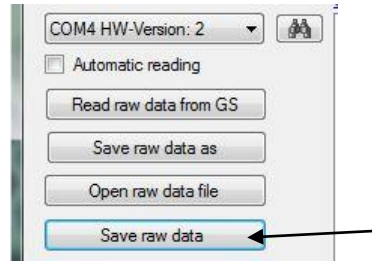
- ◇ Name as “har(yymmdd)_gscout_level0.txt”

- ▽ Push “Save raw data as”

- ◇ In the drop down menu, select “.csv” file

- ◇ Name “har(yymmdd)_gscout_level0.csv”

- ▽ Push “Save raw data”

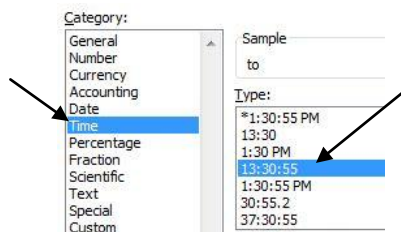


- ◇ Find destination folder
- ◇ In the drop down menu, select “.dmp”
- ◇ Name as “har(yymmdd)_gscout_level0.dmp”
- Disconnect the GammaScout by pressing the **yellow button** and then removing the cord

Process Data:

Level 1 v1:

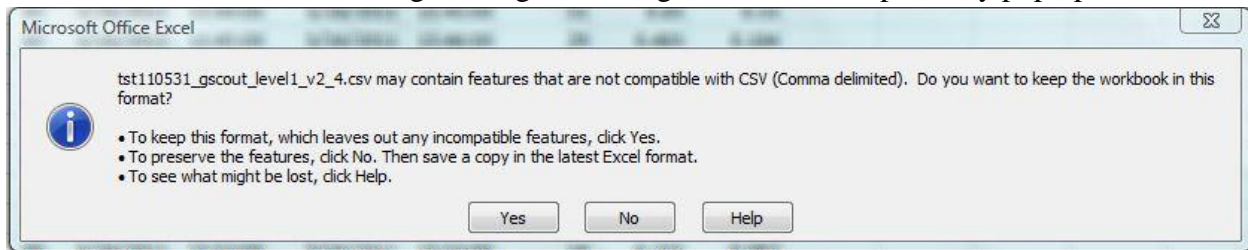
- Create a copy of the har(yymmdd)_gscout_level0.csv file
 - ▽ Rename as har(yymmdd)_gscout_level1_v1.csv
 - ▽ Open this file in notepad (by dragging file and dropping on to notepad icon)
 - ▽ Press Ctrl + H (Find and Replace)
 - ◇ Put a semi-colon (;) in the “Find What” box
 - ◇ Put a comma (,) in the “Replace With” box
 - ▽ Replace the space between the dates and times with a comma using the Ctrl + H (Find and Replace) function
 - ◇ Put the year then a space, (2011) in the “Find What” box
 - ◇ Put the year then a comma (2011,) in the “Replace With” box
 - ▽ Save the file
 - ▽ Close the file
 - ▽ Open the file in Excel
 - ▽ On columns D and F, right click
 - ◇ Select format cells
 - ◇ Select time
 - ◇ Select the fourth formatting option



- ▽ Save the file

- ◇ A warning may pop up, saying if you select yes, the file will lose the excel formatting. That is acceptable. Select yes.
- ▽ Close the file
- ▽ Open the file in Notepad (or another text editor)
- ▽ Replace the colons in the time with commas using Ctrl + H (Find and Replace)
 - ◇ Put a colon (:) in the “Find What” box
 - ◇ Put a comma (,) in the “Replace With” box
- ▽ Open file hargscout_header_2.txt in folder test txt file processing
 - ◇ Copy the contents of the header file
 - ◇ In your notepad level 1 file, replace the header (first line in file) with the contents
- ▽ Save the file.
- ▽ Close the file
- Go to the destination folder
- Create a copy of the file har(yymmdd)_gscout_level1_v1.csv
 - ▽ Rename file har(yymmdd)_gscout_level1_v2.csv
 - ▽ Open the newly named “.csv” file in excel
 - ▽ If any column shows pound signs, adjust width until the data appears
 - ▽ Press Save as, and save it as an Excel workbook, with the same name
 - ▽ Then, press Save as again, and choose “other formats”
 - ▽ Then save it as a “.csv” (comma delimited) file.

◇ A warning looking something like below will probably pop up

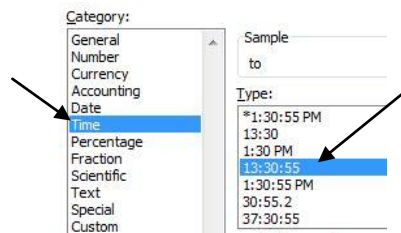


- ◇ Select yes. You have already saved in the other format.
- ◇ Close window

Level 1 v2:

- Open har(yymmdd)_gscout_level1_v2.(whatever excel extension you saved in)
- Open formulas_level2.txt
- Open formulas_level2.txt
 - ▽ Right click on Column G, and select Insert. A new column will be created.
 - ▽ Copy “Decimal T1” into cell G1
 - ▽ copy “=D2+(E2/60)+(F2/3600)” and paste it into cell G2 (Decimal T1)

- ◇ Mouse over the bottom right corner of the cell until the mouse turns into a black plus sign.
- ◇ When you have the plus sign, click, and then drag to the end of the data set.
- ▽ Right click on Column L, and select Insert. A new column will be created.
- ▽ Copy “Decimal T2” into cell L1
- ▽ copy “=I2+(J2/60)+(K2/3600)” and paste it into cell L2 (Decimal T2)
 - ◇ Mouse over the bottom right corner of the cell until the mouse turns into a black plus sign.
 - ◇ When you have the plus sign, click, and then drag to the end of the data set.
- ▽ copy and paste “Launch Time” into cell R1
- ▽ Put the Launch time in cell R2
 - ◇ Make sure the format is in 24 hour time (as done for Level 1, v1)
 - ◇ On cell R2, right click
 - ◇ Select format cells
 - ◇ Select time
 - ◇ Select the fourth formatting option



- ▽ Copy and paste “MET(h:m:s)” into S1
- ▽ Copy and paste “=TIME(I2,J2,K2)” into cell S2
 - ◇ Mouse over the bottom right corner of the cell until the mouse turns into a black plus sign.
 - ◇ When you have the plus sign, click, and then drag to the end of the data set.
- ▽ Copy and paste “MET(s)” into T1
- ▽ Copy and paste “=3600*HOUR(S2)+60*MINUTE(S2)+SECOND(S2)” into T2
 - ◇ Mouse over the bottom right corner of the cell until the mouse turns into a black plus sign.
 - ◇ When you have the plus sign, click, and then drag to the end of the data set.