



Setting up the Default TPU Parameters in MBMAX64

By Joe Burnett

Recently, a question was asked about the default settings of the TPU EDITOR in MBMAX64 (64-bit HYSWEEP® EDITOR) and whether there was any indication that identified which devices were currently selected for the TPU application.

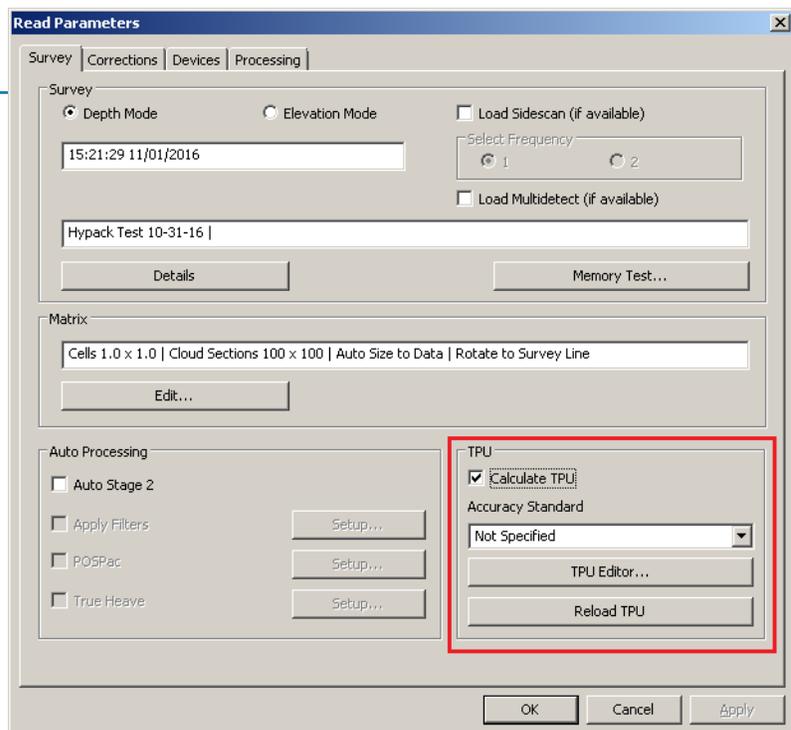
READ TPE.INI

FIGURE 1. TPU Options in the MBMAX64 Read Parameters

By default, when you enable the Calculate TPU option in the Read Parameters window of MBMAX64, it automatically reads the TPE.ini file that resides in the C:\Hypack 201X directory.

I use 201X, as it depends upon which version of HYPACK® you are currently using. (ie. 2014, 2015, ... 2018 etc.)

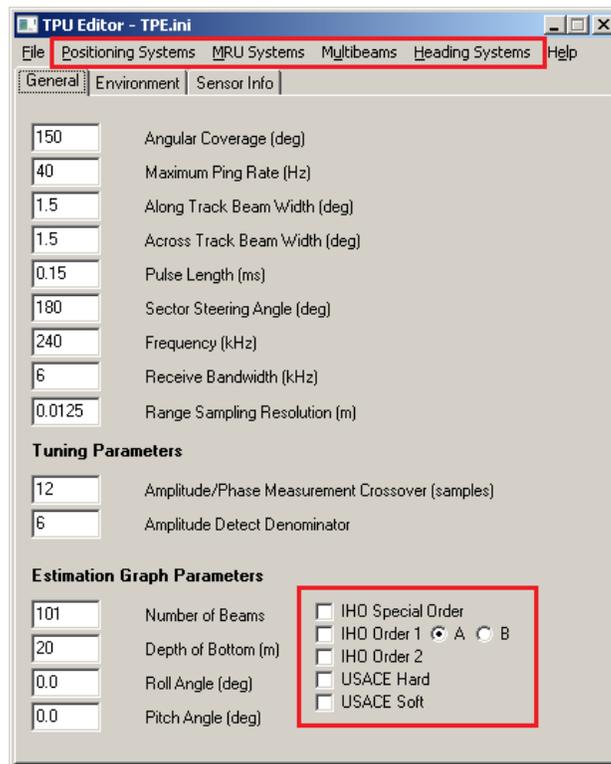
Whatever parameters were stored in the TPE.ini will be those that are used and applied to the current data loaded into MBMAX64.



NO TPE.INI FILE TO READ

If you have *never* used the TPU EDITOR or saved a TPE.ini file, MBMAX64 uses the defaults that are hard-coded into the TPU EDITOR.

FIGURE 2. TPU EDITOR



After looking at the defaulted values within the TPU EDITOR, it appears that the default parameters are those of the following devices:

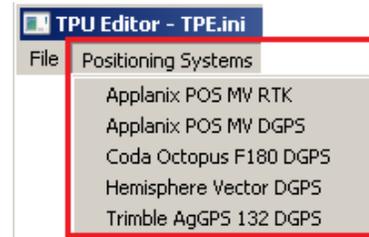
- Positioning System:** Worst-Case RTK GPS (0.07 m accuracy, instead of 0.03 m)
- MRU System:** POS M/V 320 or equivalent
- Multibeam:** RESON 8101
- Heading System:** POS M/V 320 or equivalent
- Accuracy Standard:** NONE

IMPORTANT: If the default parameters do not match those of the system data that you have currently loaded into MBMAX64, incorrect TPU parameters will be applied to your data.

SETTING UP AND STORING A TPE.INI FILE

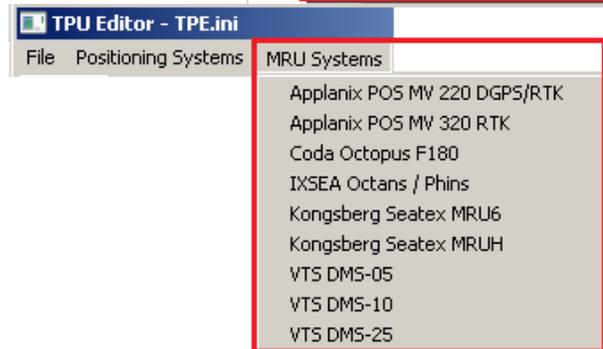
1. Start the TPU EDITOR.
2. Select Positioning Systems in the menu and select your system from the list.

If your system does not appear, enter the appropriate values for your system.



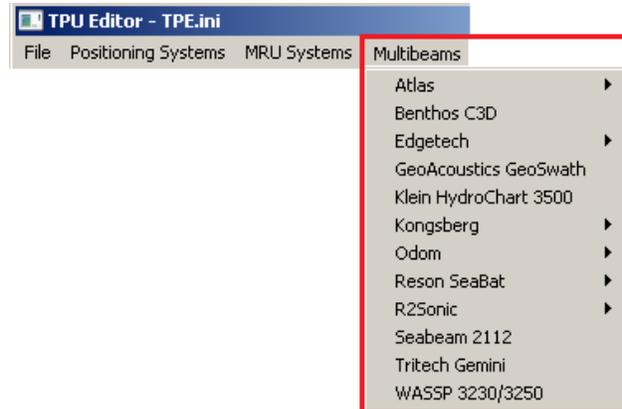
3. Select MRU Systems in the menu and select your system from the list.

If your system does not appear, Enter in the appropriate values for your system.



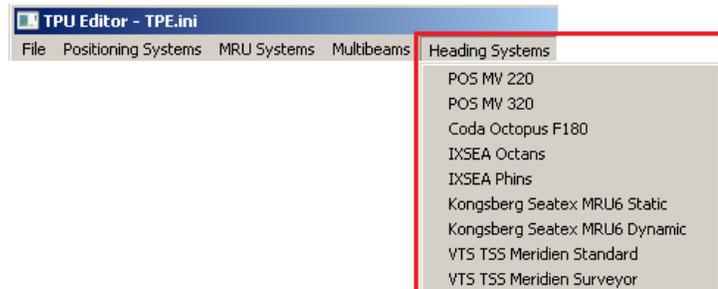
4. Select Multibeams in the menu and select your system from the list.

If your system does not appear, then Enter in the appropriate values for your system.

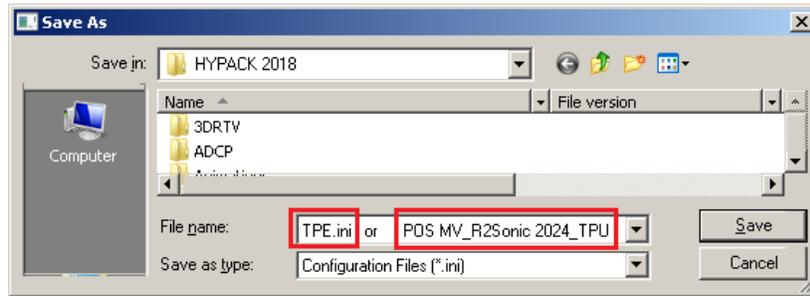


5. Click on Heading Systems from the menu and select your system from the list.

If your system does not appear, then Enter in the appropriate values for your system.



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6. **Save your configuration.** Select FILE - SAVE AS and save your configuration settings to TPE.ini or *SystemName_TPU.ini*.



NOTE: Use the TPE.ini option if you only have one possible configuration for all of your Multibeam survey work.

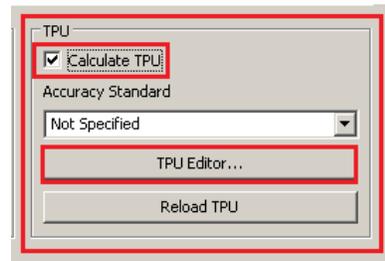
SETTING UP AND STORING MULTIPLE INITIALIZATION (*.INI) FILES

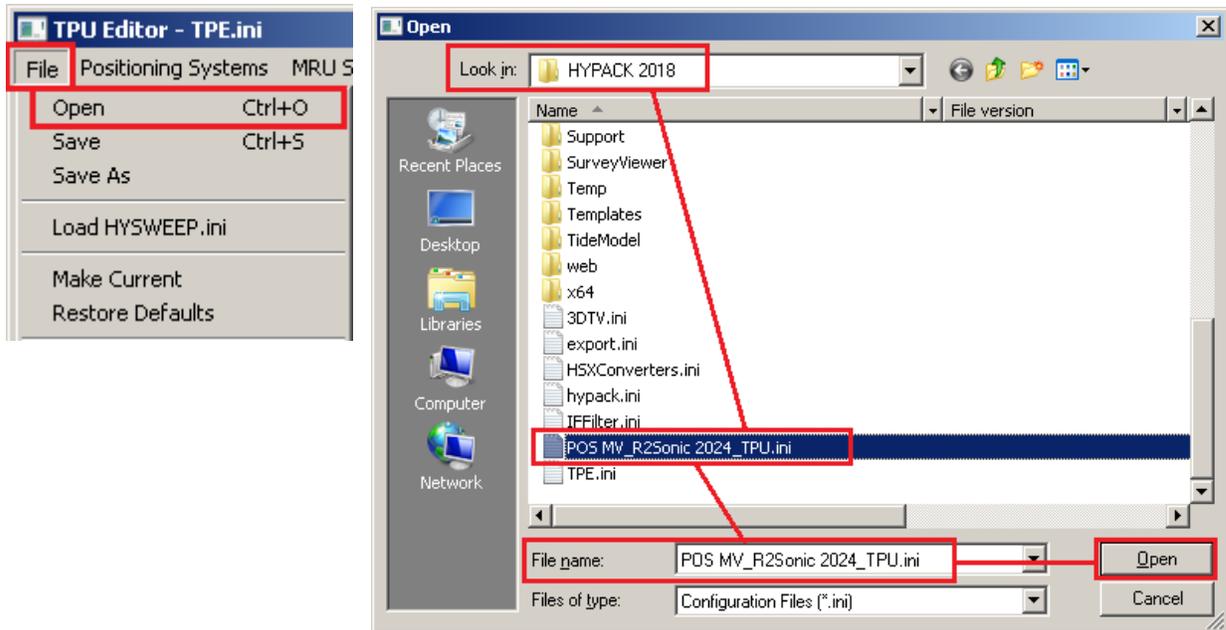
In the case that you may potentially have multiple system configurations, it would be best to create multiple initialization (*.ini) files and name them in the *SystemName_TPU.ini* format.

Examples: POS MV 320 RTK_R2Sonic 2024 700 KHz_TPU.ini
 CODA F180 DGPS_RESON T50P_TPU.ini
 SBG Ellipse2D RTK_Odom MB2_Zboat_TPU.ini

Once the initialization files are created, do the following:

1. **Start MBMAX64.**
2. **Load the HSX raw data.**
3. **Enable Calculate TPU.**
4. **Click [TPU EDITOR].**
5. **Select FILE - OPEN and select the desired *SystemName_TPU.ini* file**





6. Click the [Reload TPU]. This loads the parameters for your current systems data and apply them.
7. Save your current parameters to the TPE.ini file. Select FILE - MAKE CURRENT. Now MBMAX64 will automatically load these parameters when your next data set is loaded.

IMPORTANT: *If your hardware configuration changes, you must load updated TPU settings. If you are unsure which parameters are currently within the TPE.ini file, select FILE - OPEN and select the desired SystemName_TPU.ini file.*