



Technical Information

How do I apply the July 2015 GPS leap second?

Solution

An extra "leap second" has been applied to UTC time in 1 July 2015; how do I account for it in Bathyswath?

A leap second was added to UTC time at midnight GMT 30 June 2015. If you need to apply UTC time offsets in your Bathyswath or SWATHplus system, you will need to modify the UTC offset in the software, as shown below. Only some motion sensors and position systems need the UTC offset, and if you are using "PC time" for time-aligning data in Swath Processor, you don't need to worry about the leap second. UTC offsets are applied with the "UTC" check-box in the "Attitude Sensor Corrections" tab of the "Sensor Parameters" dialog, and in the "Position Parameters" section of the "Position Parameters" dialog. So if you have those check-boxes un-checked, then you don't need to worry about the leap-seconds offset.

To apply the leap-seconds offset:

- Close the Swath Processor,
- Go to the Windows Start menu, find Notepad, right-click on it, and select "Run as Administrator",
- Use "File > Open", and navigate to the place where the Bathyswath or SWATHplus software is installed; this will be under "C:\Program Files" or "C:\Program Files (x86)", then open "swathprocconfig.txt",
- Find the line that starts "aux GPSLeapSeconds", and change it to: `aux GPSLeapSeconds -17 // Number of leap seconds between TAI and UTC (since 30 June 2015),`
- Save and close "swathprocconfig.txt",
- Restart Swath Processor.

The next Bathyswath software release will have the new UTC offset in its swathprocconfig, of course.

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