

**Subject:** [SUG] New version of RSS 2.9.59 and recovering SPT files.

**From:** "Jim Sky" <radiosky@radiosky.com>

**Date:** 11/17/21 02:06

**To:** sug@sug.groups.io

I discovered another problem with file saving. When saving large files, RSS would run out of memory. This is something I had not seen before, and maybe it has to do with an update to Win10. Anyway, I now have the program saving in smaller chunks and the problem is solved.

[http://radiosky.com/spec/Spectrograph\\_2\\_9\\_59.exe](http://radiosky.com/spec/Spectrograph_2_9_59.exe)

Anyone with missing sps files, I suggest you go to your top data directory and do a search for all \*.spt files. That is a quick way to see if they exist. Your next step would be just to check to see if the corresponding SPS file was ever created for each one. If no SPS file exists load the SPT as below.

If your data appears to be missing for any day, change your (File / Load File) load option to \*.spt files and see if there is an SPT file to load. When you load the SPT file it will look for an accompanying SPH (header) file and try to combine them. It may still be missing an important piece of information, the time that the data collection ended. When you load the SPT file, RSS will inform you that the file needs more info. There are two ways to rectify the missing end time. If you know when the file ended (it was on a schedule), then you can just type in the end date and time. You can estimate the end time to the minute by using the timestamp of the SPT file from File Explorer . You may also deduce the end time if you know the precise collection rate from previous collections. Place the rate in the Rate box and press enter. A end time will be calculated.

Lastly, you may press the Template button in the Edit Header panel to extract metadata from an existing SPS file. This will copy any missing fields except for dates. It will copy a sample rate if one does not already appear in your Rate box. From that it will extrapolate an end time.

**Edit Spectrograph File Header**

	Year	Mo	Day	Hour	Minute	Second
Start	2021	11	15	00	01	00
Finish						

Version: 0000209059 High Freq: 24.004  
Author: Joseph Low Freq: 15.996  
Observatory: NewObs Channels: 411 **Single**  
Latitude: 35 Number of Sweeps: 823303  
Longitude: -87 Duration  
Location: Kentucky Rate: sweeps/sec  
Receiver: SDRPlay

Antenna Description: unspecified  
Beam Azimuth: 0 Beam Elevation: 0  
Polarization 1: unspecified  
Polarization 2: unspecified

**No End** ↑  
**No Rate** ↑  
**OR Select sps file source.**

Notes:  
If you know either the end time or the sample rate, entering it will fix your file.

Banner Top  
Banner Bottom  
211115000100-NewObs.spt

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