Subject: Re: RSS 2.8.1 bug reports
From: Jim Sky <radiosky@radiosky.com>
Date: 02/22/2016 05:54
To: Dave Typinski <davetyp@typnet.net>

hi dave,

try http://radiosky.com/spec/Spectrograph_Update_2_8_3.exe

right clicki on a banner. You will get a widow where you can maintain a list of banners, apply them as defaults, Lock the Banners so the won't change until unlocked.   Ask if you aren't clear on what it is doing or you wanted it to do something different.

I haven't given this to anyone else yet.

Aloha,
Jim

On 2/21/2016 1:09 PM, Dave Typinski wrote:

> Hi Jim,
>
> The good news: it seems that the correction arrays are WORKING!
>
> Ran some tests with Wes, all seems to be in order. No firm results yet, but all indications are that it will work fine. Just have to actually make the correction array with the right values. Wes is getting a new averages file tonight and we'll go from there. A test made with the correction offsets sloped linearly and oppositely for each polarization worked perfectly, just as advertised. So, I think the RSS functionality works as advertised.
>
> This is going to save a lot of time and allow everyone to use correction arrays.
>
> Now for the bugs (noted so far).
>
> 1) In review mode, the waterfalls are 296 pixels high when displaying 300 channels of data. 4 channels are invisible. I think this is the same as before (I don't remember if it was 3 or 4 channels missing before). I still don't think this is a big issue, Jim.
>
> 2) Much more serious is that THE BANNERS DISAPPEAR in review mode EVERY TIME the spectrogram image is re-scaled (new time limits are entered).
>
> This makes 2.8.1 quite undesirable for displaying data to save images for observing reports. I think I'd rather endure the slow mathematica correction array process than have to manually enter those banners repeatedly every time I write an observing report.
>
> This problem, as you and I discussed before, is due primarily to viewing OLD data NOT taken with 2.8.1 -- but that's not the only reason. What if the user does post-processing and needs to modify the banner text? Should they have to modify the banner every time the image is rescaled? As it stands now, they do.

When reviewing data, I tend to stick a lot of extra metadata in the banner -- antenna configuration, multicoupler gain, color offset, RCP or LCP, processing method (poln vs poln differences) etc.

This banner data simply should not disappear every time the image is rescaled. To have to enter it all again every time is just... well, not good.

SUGGESTION:

a) Give the use a switch:
   1 - Use Metatdata in SPS file for Banner
   2 - Override file matadata for banner, use Registry key values instead

Here's the issue, Jim:

Even if I take data with the nice, new v2.8.1, with the banner data saved in the SPS notes so it subsequently gets displayed in the banners in review mode, what happens after post-processing? Then we're back to the same problem.

Say I do my polarization differences processing (or some other, yet-to-be-invented processing) whereupon I must add a note to that effect in the banners. I'd have to add it to the banner MANUALLY -- and do that EVERY TIME I rescale the spectrogram? That's just not a good way to do it.

So, I must ask: how hard would it be to dig up the old source code for 2.2.25 and just make that version's banner display subroutine an option, Jim?

The corrections array functionality now built in to RSS will absolutely save me a metric assload of time -- BUT, having to re-enter both banners every time the spectrogram is re-scaled would probably cause my head to explode if I tried living with that.

Again, as always, this is not a complaint, Jim. I'm just trying to make clear the reasons why I'm being so stubborn about this. You've done super-great with the correction array stuff, but you took away some really good banner functionality.

PLEASE PLEASE PLEASE put in an option to use the registry keys for the banner displays, like you had with 2.2.25.

Thank you, Jim!
--
Dave