
From: Noble Hendrix <noblehendrix@gmail.com>
Sent: Friday, March 29, 2019 12:22 PM
To: Eric Danner - NOAA Federal
Subject: Re: RocOn WRLCM Model Runs with Newman Eqs ROC_AR_DPP

Yes, only the plots. We checked the implementation too to make sure it was correct.
Noble

desde mi celular

On Fri, Mar 29, 2019, 12:08 PM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:
Hi Noble,

Good to hear you found the issue. Just to confirm, this does not change the result of the LCM runs in any way?
Just the way the physical drivers were plotted, right?

Eric

On Fri, Mar 29, 2019 at 11:29 AM Noble Hendrix <noblehendrix@gmail.com> wrote:
Hi all,

It looks like Eva found the issue. When we used the exports data we shifted it to line up with the brood year, so that exports Jan - June 1977 are applied to brood year 1976. When we were plotting, we used the brood year to categorize the water year type, so the WYT was being applied incorrectly. When she shifted it by a year, then the box plots look the same as the ones Miles produced. We are working on getting those plotted up, and will send them out a bit later today just so that we can be sure that everything is lining up.

Thanks!
Noble

On Thu, Mar 28, 2019 at 6:03 PM Sara John - NOAA Affiliate <Sara.John@noaa.gov> wrote:
Ok, got it. My check of the exports indicates that everyone is using "South Delta Exports". This is node D409 in the CALSIM files and VarID 74 in the SQLite database. The data Miles gave me matches the data Eva gave me, so the discrepancy is occurring somewhere later in the workflow.
Sara

On Thu, Mar 28, 2019 at 5:54 PM Noble Hendrix <noblehendrix@gmail.com> wrote:
Hi all,
I think we actually settled on the Hood data as indicated in Alan's script. So I think we should be good there. The outstanding issue is the export difference I think.

Noble

desde mi celular

On Thu, Mar 28, 2019, 5:19 PM Sara John - NOAA Affiliate <Sara.John@noaa.gov> wrote:
Hi Eva,

Freeport flow is not currently in the SQLite database. However, I know which CALSIM node it is (C169), so I should be able to add it to the database without much trouble. Noble, let me know if you want that, and if so, I can make the addition tonight or tomorrow.

Sara

On Thu, Mar 28, 2019 at 5:01 PM Eva Dusek Jennings <itseva@gmail.com> wrote:

Hi Sara,

Good catch on the Freeport flow! Just in case Noble asks me to change the simulation scripts tomorrow to reflect Freeport flow, can you please tell me what the VarID is for Freeport flow, if it is in the database?

Thanks so much,

-Eva

On Thu, Mar 28, 2019 at 4:43 PM Sara John - NOAA Affiliate <Sara.John@noaa.gov> wrote:

Hi all,

I checked Exports for COS and PA and Verona Flow for COS and PA. Happy to report that the data Miles extracted from the CALSIM DSS file is the same as the data I provided via SQLite database and also the same as the data Eva provided as csv files. So if everyone is using the same data, I assume that the error was made in the creation of someone's boxplots.

Also, something I noticed when I was going through the data is that you have data labeled as log flow at Freeport. This is actually log flow at Hood, not Freeport. (See line 82 in Alan's R script which calls for node C400 (Hood)).

Please let me know if any can be of any other help.

Sara

On Thu, Mar 28, 2019 at 3:51 PM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:

Thanks Eva. I am bringing Sara into the loop.

Eric

On Thu, Mar 28, 2019 at 3:44 PM Eva Dusek Jennings <itseva@gmail.com> wrote:

Hi Eric,

That sounds good. Also, I just looked at the script which calls in the physical drivers from an sqlite DB, and it looks like the first column is not always March of BY. Here is the breakdown:

Exports, Freeport LogFlow, and Keswick Temp should all start March of BY

Wilkins Flow, Bend Bridge Flow, Yolo Ratio and Verona Flow should all start July of BY.

If this isn't seeming to line up with your data, please let me know and I'll take a more thorough look. To be honest, my SQL skills are not great yet, and the author of the script didn't always clearly label the code to indicate starting and ending month.

Cheers,

-Eva

On Thu, Mar 28, 2019 at 3:35 PM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:
Thanks Eva. Lets hold off on a phone call until we have had a chance to look at these data.

Eric

On Thu, Mar 28, 2019 at 3:28 PM Eva Dusek Jennings <itseva@gmail.com> wrote:
Hi All,

Here are the physical data for all of the drivers that we use in the model. Column 1 is March of BY. Hope this is helpful.

-Eva

On Thu, Mar 28, 2019 at 3:11 PM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:
Given that Noble is leaving this weekend and Miles and Sara have tomorrow off, can we have a call at 3:30 to get to the bottom of this?

Also, Noble if you can send the flow data you are using that will help.

Eric

On Thu, Mar 28, 2019 at 3:01 PM Miles Daniels - NOAA Affiliate <miles.daniels@noaa.gov> wrote:
Hi Noble,

I just asked Sara and she said D409 should be included.

-Miles

On Thu, Mar 28, 2019 at 2:47 PM Noble Hendrix <noblehendrix@gmail.com> wrote:
Hi Miles and Eric,

Looping Eva in on the discussion since she has been working with preparing the physical data for inclusion into the model too. So, I'm wondering if we can get Sara to confirm that we have node 409 being incorporated into the Sqlite database that we used to develop our export values?

We will check on our side to see if we are somehow transposing months or years that would make things fail to line up.

Thanks,
Noble

On Thu, Mar 28, 2019 at 2:36 PM Miles Daniels - NOAA Affiliate <miles.daniels@noaa.gov> wrote:
Data now attached.

-Miles

On Thu, Mar 28, 2019 at 2:33 PM Miles Daniels - NOAA Affiliate <miles.daniels@noaa.gov> wrote:

Hi Nobel,

I did a check with node D409 and it is the same as D419+D418.

Attached is a plot using D409 by water year type like the ones Noble shared and the data used to make plot if helpful.

I'm still not able to have our figures line up.

-Miles

On Thu, Mar 28, 2019 at 1:02 PM Miles Daniels - NOAA Affiliate <miles.daniels@noaa.gov> wrote:

Hi Noble,

Thanks for sending those data. Turns out it was an error on my part as when I merged the Calsim and HEC-5Q data I forgot to account for them having different starting dates.

Would you be able to send along the data for the other plots as well?

Thanks,
Miles

On Thu, Mar 28, 2019 at 11:13 AM Noble Hendrix <noblehendrix@gmail.com> wrote:
Hi Eric and Miles,

Data attached for temps at Keswick under each alternative along with the Water Year file. Let me know if you would like the data for the other physical data plots, and I can pull those out.

Cheers,
Noble

On Thu, Mar 28, 2019 at 9:56 AM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:

Noble - we came up with some different results in our plots for the physical drivers. Can you send Miles the CSV file you used so we can cross-check?

On Thu, Mar 28, 2019 at 9:31 AM Noble Hendrix <noblehendrix@gmail.com> wrote:

Hi Eric,

I just finished up the next round of runs with the Newman equations for the smolt survivals this morning, and they are attached. Short story is that the model reflects the additional exports under the PA relative to the COS. There is an average decrease in abundance and a

consistently lower (albeit small difference on average) in CRR. I am available this morning if we would like to discuss the outputs.

Best,
Noble

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