From: Noble Hendrix <noblehendrix@gmail.com>
Sent: Wednesday, February 13, 2019 2:35 PM

To: Perry, Russell

Cc: Adam Pope; Vamsi Sridharan - NOAA Affiliate; Eric Danner - NOAA Federal; Doug

Jackson

Subject: Re: Update on historical run of survival estimates

Hi Russ et al.

I just wanted to reiterate that for this version as in previous versions of the WRLCM, I'm going to be using a point estimate of smolt survival. This has the potential to reduce run time, which could be a benefit. I think that we do want to incorporate uncertainty in the estimates of survival at some point; however, for the current application and its restricted time-line I am going with point estimates.

Cheers, Noble

On Wed, Feb 13, 2019 at 1:29 PM Perry, Russell rperry@usgs.gov> wrote:

Hi Everyone,

Just another quick update before the call. More good news / bad news.

Good news: Adam got the simulation code running on Yeti, and I updated the simulation code to allow "releases" into any reach. So we're ready to launch a run, and it should take no longer than overnight if the cores are available.

Bad news: Shortly after Adam finished testing on Yeti, he was contacted by our IT folks informing him that his laptop was infected with a virus. He was instructed not to connect it to the internet, so no access to Yeti. To make matters worse, our lab has been closed for the last 3 days (2 ft of snow at my house, more at the lab), so we have no way to launch the simulations.

We have a break in the weather today, so we're going to try and get a back up laptop for Adam to use so he can launch the simulations from home. We have more weather coming, so our lab be closed tomorrow too.

That's it for now.

Talk soon.

Russ

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Phone: (509) 538-2942 Email: rperry@usgs.gov Website: http://wfrc.usgs.gov On Mon, Feb 11, 2019 at 2:17 PM Perry, Russell < reperry@usgs.gov > wrote: Hi Guys,

I've got some good news and bad news:

Bad news: I wasn't able to make it up to our lab to get the finished runs because we're in the middle of a major snowstorm (see pics). We've got ~18 inches and expecting another foot!

Good news: Adam has nearly finished the code to run it on Yeti, and I've almost finished modifying the code to run survival probabilities for Delta Fry. The run we launched a week ago was just for through-Delta survival, so we still needed to work on a approach for Delta Fry.

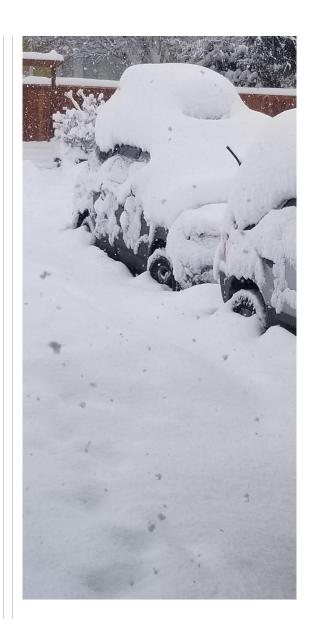
For Delta Fry, here's what were doing:

- 1) "release" N individuals in each of the 8 survival reaches on each each day of historical period for each meme iteration.
- 2) simulate their travel time and survival from the start of each reach to Chipps Island.
- 3) summarize daily then monthly survival for each reach to Chipps Island.

That will provide a set of monthly survivals from the start of each reach to Chipps Island that can then be weighted by the expected proportion of fry entering each reach and their expected survival from fry to smolt. Noble, I'm hoping you can work out how to weight the reach survivals that we provide to you. Let us know if we can assist with that.

That's where were at. I'll send some updated timelines as soon as we've some timed test runs.

Russ





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