
From: Eric Danner - NOAA Federal <eric.danner@noaa.gov>
Sent: Monday, April 1, 2019 8:36 AM
To: Ann Marie Osterback - NOAA Affiliate
Subject: Fwd: RocOn WRLCM Model Runs with Newman Eqs ROC_AR_DPP

Ann-Marie,

Here are the latest LCM result. I will follow-up with the associated data.

Eric

----- Forwarded message -----

From: **Noble Hendrix** <noblehendrix@gmail.com>
Date: Sun, Mar 31, 2019 at 6:32 PM
Subject: Re: RocOn WRLCM Model Runs with Newman Eqs ROC_AR_DPP
To: Eric Danner - NOAA Federal <eric.danner@noaa.gov>

Hi Eric,

Powerpoint attached, and each slide has a short narrative describing the figure in the slide.

The CRR and abundance metrics were using all years of data, which was affecting to some small degree the differences in productivity among water year types. The first 4 years are initialization years, so all metrics were updated to start with model year 5 (1926). Likewise we use model output to year 79 (2000) as this is the last year where we can calculate the full age class of returns. Ultimately, the patterns in the productivity by water year type remained, suggesting that those categories are generally not very useful for describing good versus bad productivity years for winter-run.

When we use the model years 5 to 79 (1926 to 2000), then we obtain the results presented in the slides. Namely, there is a lower abundance in the PA relative to the COS of about 3% (95% intervals supplied as well) and this happens in almost all iterations. This result was basically the same as the one that I showed you and Steve (which used years 2 to 79). But, when I recalculate the CRR under the PA relative to the NAA when using the model years 5 to 79 the results changed. Basically there is negligible difference between PA and COS in CRR. This is due to the first few years, particularly the 4th having a moderate negative CRR under PA relative to COS during this initiation phase and that year influencing the previous results that included all years.

I have not included the plots of the physical data, since you and Miles were preparing plots that may provide a bit better insight into the dynamics there.

I have worked up the data for each of the figures, and I will package that up and send in a separate email.

Cheers,
Noble

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