

From: [Stephen Torbit](#)
To: Ben.Livneh@colorado.edu; [John Guinotte](#); [Joseph Barsugli - NOAA Affiliate](#); [Andrea Ray - NOAA Federal](#)
Subject: RE: Wolverine ROMO update
Date: Monday, March 20, 2017 9:08:15 AM

Thanks Ben, too bad the monthly data didn't improve performance as we had hoped. I am good with using 2002 or 2004 for the assessment. I just want for all of us to think through how we deal with the perception that we "cherry picked" certain years. I am sure that the scientific literature on climate modeling has encountered these events before and has an established language to express these kinds of events. We will need all of your collective insights and recommendations to provide the logic in the methodology discussions.

Steve

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From: Ben Livneh [mailto:Ben.Livneh@colorado.edu]
Sent: Sunday, March 19, 2017 3:48 PM
To: Stephen Torbit; Guinotte, John; Joseph Barsugli - NOAA Affiliate; Andrea Ray - NOAA Federal
Subject: Wolverine ROMO update

Hi Steve,

Last week, we explored further precipitation adjustments for ROMO to try to improve performance in 2012 SCA prediction. However, the resulting model simulations only yielded very modest improvements.

Therefore, my recommendation is to note that 2012 was problematic in our analysis and instead to focus on 2002 and/or 2004 as drought years, since the performance was better.

This weekend Aaron put together a matrix of model performance both spatially, SCA compared with MODIS, as well as at the SNOTEL locations, for number of days exceeding 100mm of SWE. After reviewing, we found a few minor errors that he is working to fix and will plan on having a revised version by Tuesday, which should enable us to make a final parameter selection and then redo the GCM deltas. Aaron has 2 exams this week (one in Snow Hydrology very apropos!) so we set the Tuesday deadline rather than sooner.

I'll be landing in Santiago Tuesday and will likely resume internet access on Wednesday when I set up at the university there.

I hope all is well,
Ben

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