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Gulf Model Analysis for Dec. 6 Hypoxia Task Force

Rob Magnien - NOAA Federal <rob.magnien@noaa.gov> Wed, Nov 23, 2016 at 4:07 PM
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Hi Katja and all,

Great first flush of simulations, graphics and analyses! We just met internally and wanted to give you some initial feedback so you have some time to address these issues.

1. We could not get the Quicktime (.mov) format to run on our Windows 10 platform so we can't give you any feedback on that but we certainly want to include animations in the presentation so if you can convert to other formats that will work in PowerPoint on a windows machine, as you suggested, that would be excellent. I've asked Trevor (added to the e-mail distribution) to work with you on this issue and also with the EPA contractor supporting the HTF to insure that this works in the end.

2. We anxiously await the ROMS run with the NARR wind field. The result of that will help us to figure out which model(s) to highlight for 2016 and how best to show that output. For a public audience we really can't get into a lot of "interesting to us" model comparison issues.

3. I noticed that in many of the graphics that low oxygen was blue and high oxygen was red. I thought we fixed that problem years ago. We will need that color scheme flipped, at least for the movies and maps we show at the HTF so that low oxygen is red.

4. It was nice to see the cumulative exposure map (last slide in PP). We'll see if that changes in ROMS with the new wind fields. Is there a way to convert that area to a graphic based on area? It would be interesting, for example, to compare to our normal snapshot measure from the mid-summer cruise (or rough equivalent from the model runs: a mid-summer slice in time). Maybe the snapshot area <2 mg/l vs the cumulative area that experienced <2mg/l for a day or more at some point during the summer.

5. We'll need to settle on a straightforward way to demonstrate that the model matches the available data fairly well, if we have room to include one or two slides on that issue. With the Seamap data this might be done by taking a couple snapshots in time and then overlaying the corresponding Seamap data that was collected at a similar point in time. Alternatively, Seamap data could be plotted on a 1:1 graph with model data matched for the same day/location. Glider or transect data might also be useful if available. Timeseries O2 data would be useful but I don't think there is any available for this year. We're open to suggestions on what to use and how to present given the limited amount of time ahead of the meeting but this is not worth a big effort at this time.

Alan will be looking at this some more on Fri and may have some more suggestions or questions at that time. Otherwise, look for another communication from me late on Monday.

Have a great Thanksgiving!

Rob

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