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**From:** Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>  
**Sent:** Thursday, May 30, 2019 9:06 AM  
**To:** Rosalie del Rosario - NOAA Federal  
**Cc:** Barbara Byrne - NOAA Federal; Garwin Yip - NOAA Federal; Alston, Naseem; J. Stuart  
**Subject:** Re: Where and how to capture model descriptions and limitations in ROC BiOp

We have appendices with model documentation in the works. Maybe we couple that with a summary table of notable strengths and weaknesses related to our application. Then key points can also be stated when discussing model results.

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On May 30, 2019, at 9:04 AM, Rosalie del Rosario - NOAA Federal <[rosalie.delrosario@noaa.gov](mailto:rosalie.delrosario@noaa.gov)> wrote:

Hi Barb,  
Are you suggesting an Appendix (or plural) to briefly describe all models used to inform the BiOp, with their limitations and uncertainties? Seems like a good idea.  
Thanks,  
Rosalie

On Thu, May 30, 2019 at 9:00 AM Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)> wrote:

Thoughts on my suggested resolution to Maria's comment on model descriptions/limitations?

In her recent Delta Effects review, Maria made the following comment (attached to the DPM section; applies generally to modeling results): " Ideally, before reporting each model result we would both describe model, and then qualitatively express pros/cons/uncertainties in each model in a neutral way - - so that reader has some context for how precise and confident the results are. Alternatively, you could have one chart of all models used with this information. Please follow up on this during peer review period ."

My suggested resolution is: " No time to address before peer review, as acknowledged in Maria's comment. My hope/suggestion is that rather than do this throughout the effects section, we can, in the Analytical Approach section, say something like "Model descriptions, and the uncertainties and limitations of each model, are provided in Appendix X, and not necessarily reiterated when models are discussed in the effects sections".

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