

**From:** [Porath, Mark T](#)  
**To:** [Skorupa, Joseph](#)  
**Subject:** RE: ABB working group  
**Date:** Saturday, August 14, 2021 5:03:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)

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Thanks Joe!

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**From:** Skorupa, Joseph <Joseph\_Skorupa@fws.gov>  
**Sent:** Friday, August 13, 2021 12:45 PM  
**To:** Porath, Mark T <mark\_porath@fws.gov>; Stubbs, Kevin <kevin\_stubbs@fws.gov>; Runge, Jeff <jeff\_runge@fws.gov>; Burgess, Angela <Angela\_Burgess@fws.gov>; DeBerry, Drue <drue\_deberry@fws.gov>; Powell, Tyson H <Tyson.Powell@sol.doi.gov>; Bessken, Charlene <charlene\_bessken@fws.gov>  
**Cc:** Boroja, Maria T <maria\_boroja@fws.gov>  
**Subject:** Re: ABB working group

Yes, please, send me the invite. I would like to have the option to listen-in whenever I have the time... my intellectual curiosity about the species has been whetted!

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**From:** Porath, Mark T <[mark\\_porath@fws.gov](mailto:mark_porath@fws.gov)>  
**Sent:** Friday, August 13, 2021 7:52 AM  
**To:** Stubbs, Kevin <[kevin\\_stubbs@fws.gov](mailto:kevin_stubbs@fws.gov)>; Runge, Jeff <[jeff\\_runge@fws.gov](mailto:jeff_runge@fws.gov)>; Burgess, Angela <[Angela\\_Burgess@fws.gov](mailto:Angela_Burgess@fws.gov)>; DeBerry, Drue <[drue\\_deberry@fws.gov](mailto:drue_deberry@fws.gov)>; Powell, Tyson H <[Tyson.Powell@sol.doi.gov](mailto:Tyson.Powell@sol.doi.gov)>; Bessken, Charlene <[charlene\\_bessken@fws.gov](mailto:charlene_bessken@fws.gov)>  
**Cc:** Skorupa, Joseph <[Joseph\\_Skorupa@fws.gov](mailto:Joseph_Skorupa@fws.gov)>; Boroja, Maria T <[maria\\_boroja@fws.gov](mailto:maria_boroja@fws.gov)>  
**Subject:** ABB working group

Great perspective and thanks for sharing Kevin. I think it is also relevant to our current challenge and our most recent conversations.

Joe's well thought out approach at determining ABB presence (occupancy probabilities) gives us a strong tool for predicting where we need to be concerned about soil disturbance. While we likely still need to refine our model assumptions, like a realistic/defensible detection rate, it's the basis of knowing ABB occurrence. A big step.

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Just recently NPPD announced that it has decided to go forward with seeking a permit, so that does put a little sense of urgency in working through these challenges. To help facilitate continuing discussions Jeff and I plan on meeting weekly (Wed 11:30 AM CST) to work on this and you all are

invited to attend as your schedule allows. Just let us know and we can send an updated invite.

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**From:** Stubbs, Kevin <[kevin\\_stubbs@fws.gov](mailto:kevin_stubbs@fws.gov)>

**Sent:** Thursday, August 12, 2021 8:40 PM

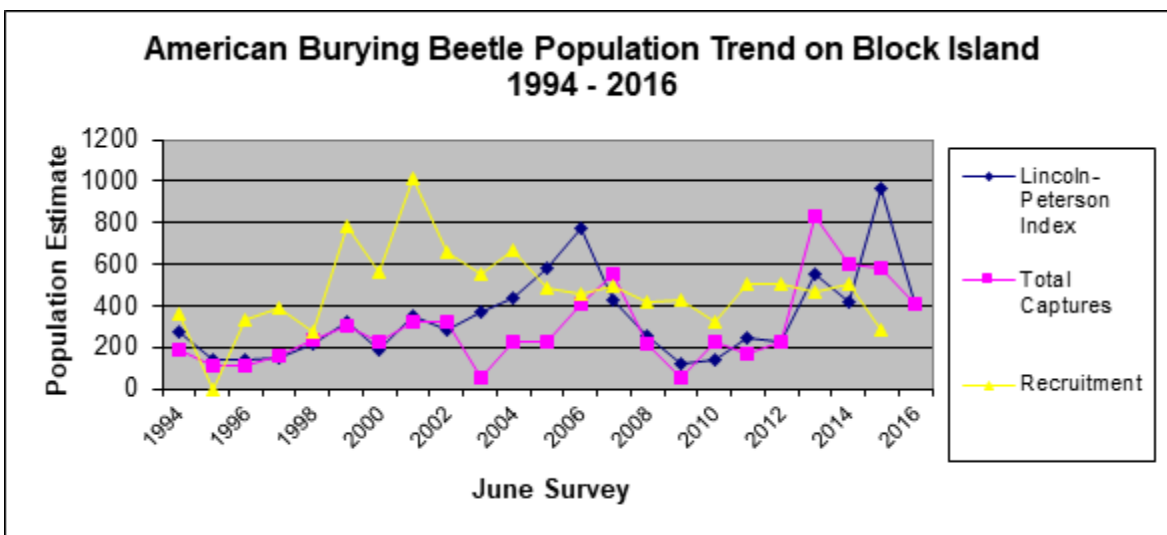
**To:** Runge, Jeff <[jeff\\_runge@fws.gov](mailto:jeff_runge@fws.gov)>; Porath, Mark T <[mark\\_porath@fws.gov](mailto:mark_porath@fws.gov)>; Burgess, Angela <[Angela\\_Burgess@fws.gov](mailto:Angela_Burgess@fws.gov)>; DeBerry, Drue <[drue\\_deberry@fws.gov](mailto:drue_deberry@fws.gov)>; Powell, Tyson H <[Tyson.Powell@sol.doi.gov](mailto:Tyson.Powell@sol.doi.gov)>; Bessken, Charlene <[charlene\\_bessken@fws.gov](mailto:charlene_bessken@fws.gov)>

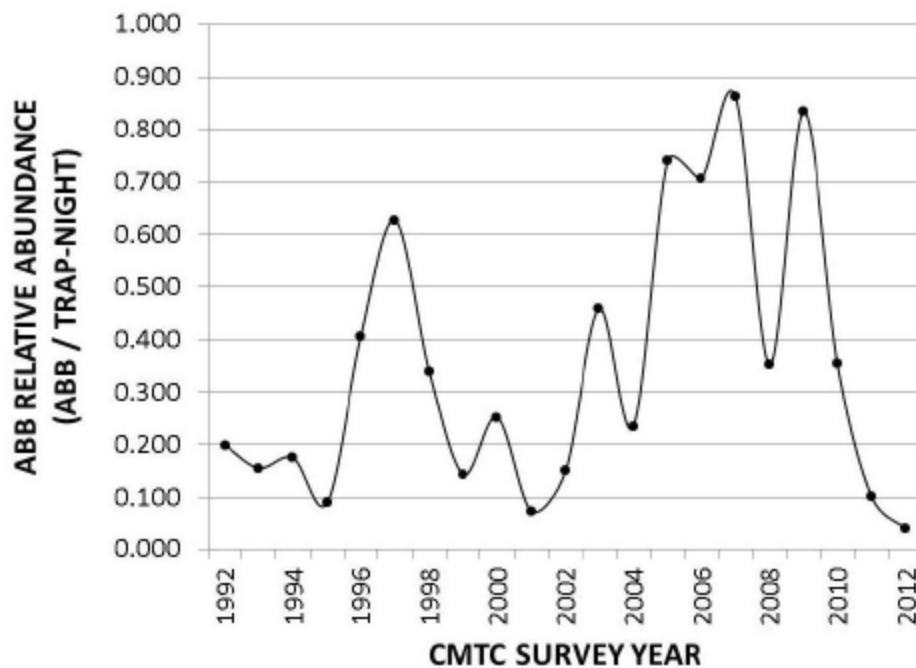
**Cc:** Skorupa, Joseph <[Joseph\\_Skorupa@fws.gov](mailto:Joseph_Skorupa@fws.gov)>; Boroja, Maria T <[maria\\_boroja@fws.gov](mailto:maria_boroja@fws.gov)>

**Subject:** Re: ABB, Soil Compaction, and Matting

info on cycles in ABB numbers or catch rates

The Block Island cycles are less relevant because weather patterns are much different there but it does represent a long term data set. The Ft Chaffee data is more relevant but droughts are probably more frequent and longer in the sandhills. Down cycles can be at least 5 yrs





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**From:** Runge, Jeff <[jeff\\_runge@fws.gov](mailto:jeff_runge@fws.gov)>

**Sent:** Wednesday, August 4, 2021 3:08 PM

**To:** Stubbs, Kevin <[kevin\\_stubbs@fws.gov](mailto:kevin_stubbs@fws.gov)>; Porath, Mark T <[mark\\_porath@fws.gov](mailto:mark_porath@fws.gov)>; Burgess, Angela <[Angela\\_Burgess@fws.gov](mailto:Angela_Burgess@fws.gov)>; DeBerry, Drue <[drue\\_deberry@fws.gov](mailto:drue_deberry@fws.gov)>; Powell, Tyson H <[Tyson.Powell@sol.doi.gov](mailto:Tyson.Powell@sol.doi.gov)>; Bessken, Charlene <[charlene\\_bessken@fws.gov](mailto:charlene_bessken@fws.gov)>

**Cc:** Skorupa, Joseph <[Joseph\\_Skorupa@fws.gov](mailto:Joseph_Skorupa@fws.gov)>; Boroja, Maria T <[maria\\_boroja@fws.gov](mailto:maria_boroja@fws.gov)>

**Subject:** Re: ABB, Soil Compaction, and Matting

Kevin,

I support your conclusions as they are in line with the current literature on compaction. I wanted to have the ABB experts respond first because experts may have a deeper understanding beyond the literature that could influence our decision making. Because of this deeper understanding, you described caveats when using matting. Mark and I will continue our work on the avoidance/minimization document with those conclusions/caveats in mind.

I am also thankful for your assistance with our office as we rebuild our ABB capacity. I have been out this week with NGPC trapping at the ABB hotspots near Chambers/Amelia. Good numbers when compared to the lows observed in the last few years. When on the trap line, I think about our discussions on habitat and species detection through trapping.

Jeff

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**From:** Stubbs, Kevin <[kevin\\_stubbs@fws.gov](mailto:kevin_stubbs@fws.gov)>

**Sent:** Monday, August 2, 2021 1:26 PM

**To:** Runge, Jeff <[jeff\\_runge@fws.gov](mailto:jeff_runge@fws.gov)>; Porath, Mark T <[mark\\_porath@fws.gov](mailto:mark_porath@fws.gov)>; Burgess, Angela <[Angela\\_Burgess@fws.gov](mailto:Angela_Burgess@fws.gov)>; DeBerry, Drue <[drue\\_deberry@fws.gov](mailto:drue_deberry@fws.gov)>; Powell, Tyson H <[Tyson.Powell@sol.doi.gov](mailto:Tyson.Powell@sol.doi.gov)>; Bessken, Charlene <[charlene\\_bessken@fws.gov](mailto:charlene_bessken@fws.gov)>

**Cc:** Skorupa, Joseph <[Joseph\\_Skorupa@fws.gov](mailto:Joseph_Skorupa@fws.gov)>; Boroja, Maria T <[maria\\_boroja@fws.gov](mailto:maria_boroja@fws.gov)>

**Subject:** Re: ABB, Soil Compaction, and Matting

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Kevin

918-695-6769

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**From:** Runge, Jeff <[jeff\\_runge@fws.gov](mailto:jeff_runge@fws.gov)>

**Sent:** Thursday, July 29, 2021 3:54 PM

**To:** Stubbs, Kevin <[kevin\\_stubbs@fws.gov](mailto:kevin_stubbs@fws.gov)>; Porath, Mark T <[mark\\_porath@fws.gov](mailto:mark_porath@fws.gov)>; Burgess, Angela <[Angela\\_Burgess@fws.gov](mailto:Angela_Burgess@fws.gov)>; DeBerry, Drue <[drue\\_deberry@fws.gov](mailto:drue_deberry@fws.gov)>; Powell, Tyson H <[Tyson.Powell@sol.doi.gov](mailto:Tyson.Powell@sol.doi.gov)>; Bessken, Charlene <[charlene\\_bessken@fws.gov](mailto:charlene_bessken@fws.gov)>

**Cc:** Skorupa, Joseph <[Joseph\\_Skorupa@fws.gov](mailto:Joseph_Skorupa@fws.gov)>; Boroja, Maria T <[maria\\_boroja@fws.gov](mailto:maria_boroja@fws.gov)>

**Subject:** ABB, Soil Compaction, and Matting

Good afternoon everyone,

Mark and I are continuing to edit the avoidance/minimization document. While we recognize the need to adjust the document's scope and flow, we find that there is broad agreement on the science referenced within this document. In consideration of this, we would like to reach a conclusion on soil compaction from vehicles, and the risk to ABB with the installation of matting.

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Our ability to answer these questions are critically important in our evaluation of the R-

Project. Not only is this decision the difference between analyzing 35 acres of soil disturbance or an expanded scope, but it also represents a difference in workload when developing our response to NPPD. Therefore, it is important to address these questions right away. Let us know if this is something we can discuss by email or if we should set up a meeting.

Jeff