Message

From: Bird, Patrick [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8376934BF605424D8E870C10744090EC-BIRD, PATRICK]
Sent: 11/23/2021 12:06:40 PM
To: McAlpine, Jerrold [McAlpine.Jay@epa.gov]; Howard, Chris [Howard.Chris@epa.gov]
CC: Wortman, Eric [Wortman.Eric@epa.gov]
Subject: FW: WRF Met Data for Offshore Wind

Hi Jay and Chris,

Hope you both are doing well. See the incoming message from Katherine Mears. Could we touch base on this at our check in meeting today?

(I'm seeing Chris is out till next week, but it's still worth discussing).

Thanks,

Pat

From: Katherine Mears <kmears@techenv.com>
Sent: Monday, November 22, 2021 4:05 PM
To: Bird, Patrick <Bird.Patrick@epa.gov>
Cc: Marc Wallace <MWallace@techenv.com>
Subject: RE: WRF Met Data for Offshore Wind

Hi Pat,

Following up with you after sorting through the files that were shared with us from Jerrold McAlpine on 11/12. I noticed that for the overland met data, which were extracted via MMIF using the AERMET output option, the data does not include the .SFC and .PFL files. When the prognostic overland files were provided to us for years 2013-2015 they included the .SFC and .PFL files. Is there a reason that these files are not provided for 2018-2020 overland met data?

Also, we have not received the observed met data for the Buzzards Bay buoy, the KMVY surface station and the Chatham upper air station, which we will need to perform the met data comparison study. Does EPA plan to provide the observed met data to us, or should we download and process the data in-house?

Thank you,

Katherine Mears
Atmospheric Scientist

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From: Katherine Mears
Sent: Friday, November 19, 2021 7:50 AM
To: Bird, Patrick <Bird.Patrick@epa.gov>
Subject: Re: WRF Met Data for Offshore Wind

Hi Pat,

We haven't finished processing it yet, but it all looks good so far. Thank you for checking in.

Katherine

On Nov 18, 2021, at 4:01 PM, Bird, Patrick <Bird.Patrick@epa.gov> wrote:

Hi Katherine,

Just checking in to make sure what we provided you was accessible and you have what you need to move forward.

Thanks,

Pat

From: Katherine Mears <kmears@techenv.com>
Sent: Friday, November 12, 2021 11:29 AM
To: Bird, Patrick <Bird.Patrick@epa.gov>
Cc: Biton, Leiran <biton.leiran@epa.gov>; Howard, Chris <Howard.Chris@epa.gov>; Monteith, Richard <Monteith.Richard@epa.gov>; Friedman, Adam <Friedman.Adam@epa.gov>; Marc Wallace <MWallace@techenv.com>
Subject: RE: WRF Met Data for Offshore Wind

Hi Pat,

Are you able to provide an update on the requested met data?

Thank you,

Katherine Mears
Atmospheric Scientist

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From: Bird, Patrick [mailto:Bird.Patrick@epa.gov]
Sent: Monday, October 18, 2021 7:21 AM

To: Katherine Mears <kmears@techenv.com>
Cc: Biton, Leiran <biton.leiran@epa.gov>; Howard, Chris <Howard.Chris@epa.gov>; Monteith, Richard <Monteith.Richard@epa.gov>; Friedman, Adam <Friedman.Adam@epa.gov>; Marc Wallace <MWallace@techenv.com>
Subject: RE: WRF Met Data for Offshore Wind

Hi Katherine,

We will work to provide you with the 2018-2020 WRF data for these coordinates, and I'm fairly certain we have data from the buoy and stations you referenced which we recently provided to another developer. Let me check on that, and I'll follow up.

Thanks,

Pat

From: Katherine Mears <kmears@techenv.com>
Sent: Thursday, October 14, 2021 12:47 PM
To: Bird, Patrick <Bird.Patrick@epa.gov>
Cc: Biton, Leiran <biton.leiran@epa.gov>; Howard, Chris <Howard.Chris@epa.gov>; Monteith, Richard <Monteith.Richard@epa.gov>; Friedman, Adam <Friedman.Adam@epa.gov>; Marc Wallace <MWallace@techenv.com>
Subject: RE: WRF Met Data for Offshore Wind

Hi Pat,

Thank you for the feedback. Can you please provide the 2018-2020 WRF data? The project centroid has a Lat/Lon of 41.153/-71.073. For overland data, we previously used an extraction point of 41.393/-70.615, which corresponds to the Martha's Vineyard airport.

Regarding the observed met data to be used in the evaluation, does EPA have processed data for the Buzzards Bay buoy, the KMVY surface station and the Chatham upper air station that we should use, or should we process the met data ourselves?

Thank you,

Katherine Mears
Atmospheric Scientist

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From: Bird, Patrick [mailto:Bird.Patrick@epa.gov]
Sent: Thursday, October 14, 2021 9:46 AM

To: Katherine Mears <kmears@techenv.com>
Cc: Biton, Leiran <biton.leiran@epa.gov>; Howard, Chris <Howard.Chris@epa.gov>; Monteith, Richard <Monteith.Richard@epa.gov>; Friedman, Adam <Friedman.Adam@epa.gov>
Subject: RE: WRF Met Data for Offshore Wind

Hi Katherine,

Thanks for reaching out to us with your questions regarding air dispersion modeling for the Revolution Wind project and your patience in our response.

We recommend the use of more recent WRF data (2018-20) as opposed to the older 2013-15 data which the South Fork wind project used. This will ensure the model is accounting for any variations in observations which may present themselves between the 2013-15 and 2018-20 time periods. Use of the more recent WRF data would necessitate an updated prognostic model evaluation as described Section 8.4.5.2 of 40 CFR Appendix W, The Guideline on Air Quality Models.

Don't hesitate to let us know if you have additional questions or wish to discuss this issue further.

Thanks,

Pat

Patrick Bird
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e: bird.patrick@epa.gov

From: Katherine Mears <kmears@techenv.com>
Sent: Monday, October 4, 2021 12:12 PM
To: Biton, Leiran <biton.leiran@epa.gov>
Subject: WRF Met Data for Offshore Wind

Hi Leiran,

We spoke a few weeks back about using more recent prognostic met data. I wanted to remind you of our much earlier discussions on the South Fork prognostic met data comparison study that Revolution Wind planned to use in our protocol/application. Will using the more recent met data prevent us from be able to use the South Fork study? I know you are on your detail now, so please feel free to let me know who I should reach out to about this.

Thank you,

Katherine Mears
Atmospheric Scientist

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