Message

From: Doug Boyer [doug.boyer@tceq.texas.gov]
Sent: 7/22/2019 4:05:14 AM
To: Eyth, Alison [Eyth.Alison@epa.gov]
CC: Timin, Brian [Timin.Brian@epa.gov]
Subject: Re: List of inventory updates in regional haze 2016fg/2028fg cases

Hi Alison,

No delay noticed! We'll need to use beta for our RH inventories. We'd like to get our future year runs going within the next month to meet our internal deadlines. So 2028 is of most interest/concern.

Thanks,

Doug

From: Eyth, Alison <Eyth.Alison@epa.gov>
Sent: Sunday, July 21, 2019 2:19 PM
To: Doug Boyer <doug.boyer@tceq.texas.gov>
Cc: Timin, Brian <Timin.Brian@epa.gov>
Subject: RE: List of inventory updates in regional haze 2016fg/2028fg cases

Doug,

Sorry about the delay – I had some computer crashes and lost track of this…
Are you planning to use beta or v1 for your regional haze runs?

FYI, the inventory-level changes related to reallocation of fires and regridding of the 2016 Canada inventory are available here:

ftp://newftp.epa.gov/air/emismod/2016/beta/2016emissions/

In particular, see:
ftp://newftp.epa.gov/air/emismod/2016/beta/2016emissions/README_2016_beta_platform_package_allocation_update.txt

The other updates are not posted anywhere. What is the timing of you starting your runs?

Alison

From: Doug Boyer <doug.boyer@tceq.texas.gov>
Sent: Thursday, July 18, 2019 10:50 PM
To: Eyth, Alison <Eyth.Alison@epa.gov>
Subject: Re: List of inventory updates in regional haze 2016fg/2028fg cases

Hi Alison,

Thanks for summarizing the changes to the beta inventories. We're getting ready to conduct our regional haze runs. Do you plan to share the fg versions to the States or the Collaborative before the September release? If not, are the ff versions still available?

Thanks,

Doug

From: Eyth, Alison <Eyth.Alison@epa.gov>
Sent: Wednesday, July 17, 2019 4:04 PM
To: Vukovich, Jeffrey <Vukovich.Jeffrey@epa.gov>; Zac Adelman <adelman@ladco.org>; Julie McDill <jmcdill@marama.org>; Tom Moore <tmoore@westar.org>; hornback@metro4-sesarm.org <hornback@metro4-sesarm.org>; janssen@ladco.org <janssen@ladco.org>; Boylan, James <James.Boylan@dnr.ga.gov>; Roberts, Sarah <Roberts.Sarah@epa.gov>; Kayin, Serpil <Kayin.Serpil@epa.gov>; Farkas, Caroline <farkas.caroline@epa.gov>; Doug Boyer <doug.boyer@tceq.texas.gov>; Manning, Tammy <tammy.manning@ncdenr.gov>; Mary Uhl <maryuhl@westar.org>; mvince@censara.org <mvince@censara.org>; Snyder, Jennifer <Snyder.Jennifer@epa.gov>; Zalewsky, Eric E (DEC) <eric.zalewsky@dec.ny.gov>; dfoerter@otcair.org <dfoerter@otcair.org>; Thomas Richardson <tom.richardson@deq.ok.gov>
Cc: Susan McCusker <smccusker@marama.org>; Timin, Brian <Timin.Brian@epa.gov>; Simon, Heather <Simon.Heather@epa.gov>
Subject: List of inventory updates in regional haze 2016fg/2028fg cases

Hi everyone,

To follow up on Monday's call, I'm forwarding a list of the inventory changes made between beta (2016ff/2028ff) and the regional haze (2016fg/2028fg) cases.

The 2016ff modeling scenario used the 2016 beta inventory, as released, and is the case being reviewed by the model evaluation effort. For the regional haze modeling project (2016fg), minor emissions changes were made to the 2016ff inventory as follows:

1. Re-gridding of some Canadian primary PM emissions

a. Several categories of the Canadian emissions were received in a gridded format. Since the Canadian grids and the EPA grids did not match, a "waffle" pattern was observed in some of the EPA gridded data. EPA re-gridded the raw Canadian data to reflect the EPA 36km and 12km grids without the waffling.

2. Updated the spatial gridding of Georgia and Kansas prescribed fire emissions

b. As submitted, the Kansas (Flint Hills) and Georgia prescribed fire emissions were gridded to county centroids. These emissions were re-gridded to spread the emissions out to other parts of each county (spatial allocation based on appropriate types of land use for these fires).

3. Updated prescribed fire emissions file for the 36/12km CAMx domain in 2-way nested mode

c. The 2016fg CAMx run is being conducted with two-way nesting between the 36 and 12km grids. This resulted in additional work to create a combined gridded 36 and 12km point source prescribed fire emissions file (in a two-way nesting test run, the prescribed fire emissions were only emitted at 36km grid cell centroids). This issue only affects 2-way nested CAMx model runs.

4. Moved some sources from ptnonipm to ptegu as they were identified in recent IPM outputs (see the list later in this email). These sources were also removed from the 2028ff ptnonipm file to avoid double-counting with IPM.

5. Removed Canadian wind erosion dust from ag sources and adjusted several Canadian dust categories.

d. In the 2016ff model run there were very high modeled "soil PM" concentrations in the spring in Alberta and Saskatchewan. We contacted Environment and Climate Change Canada and found they had already adjusted some of their dust categories downward. We applied adjustments to construction dust and removed wind erosion dust (since this category is not included in the US emissions).

Note that emissions updates 1, 2, 3 are spatial allocation changes only and do not change the emissions totals, nor does item 4. Emissions update 5 lowered the dust emissions in Canada. The regridded emissions from items 1-3 were made available to the modeling workgroup in late April – see ftp://newftp.epa.gov/air/emismod/2016/beta/2016emissions/README_2016_beta_platform_package_allocation_update.txt

Note that the 2016fg and 2028fg emission will be released along with the modeling later this summer. Thus, they will become available to the public at that time.

Units moved to ptegu in 2016fg:

EIS Facility ID	EIS Unit ID	NEEDS ID	ORIS Facility Code	ORIS Boiler ID
5783911	119254913	50837_B_UNIT1	50837	UNIT1
5783911	119255013	50837_B_UNIT2	50837	UNIT2
533611	91819113	57898_B_BLR3	57898	BLR3
533611	91819213	57898_B_BLR4	57898	BLR4
533611	91819313	57898_B_BLR5	57898	BLR5
7869811	87378813	50878_B_UNIT1	50878	UNIT1
8057311	112375613	50630_B_BLR1	50630	BLR1
8057311	112375613	50630_B_BLR2	50630	BLR2
3109711	124523513	59254_G_GENS1	59254	GENS1
4837411	90282913	3456_G_5CA1	3456	5CA1
12807411	123689413	54775_B_BLR10	54775	BLR10
12807411	123689013	54775_B_BLR11	54775	BLR11
7663611	12450313	58205_B_1	B	1
6719911	12840813	56119_G_300	56119	300
5632711	69997613	56152_G_CTG1	56152	CTG1
5633011	20889913	10167_G_GEN1	10167	GEN1
6940911	14044213	55596_G_0001	55596	0001
6940911	124476513	55596_G_0002	55596	0002
6940911	124476613	55596_G_0003	55596	0003
6940911	82780713	55596_G_0004	55596	0004

Let me know if you have further questions,

Alison
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