From: Hwang, Nancy
To: Baker, Kirk; Reynolds, Lara
Cc: Allen, Christine (she/her/hers)
Subject: O117.0 task 5 CMAQv54
Date: Wednesday, January 24, 2024 10:44:43 AM

Kirk,

For O117.0 Task 5
We will run CMAQv5.40 for **2016gh**, **2055gh_ref**, and **2026gf** (according to email 1/22/2024)
CMAQv5.40 12US1 model for 2016gh_16j is running now .

Set up below:
ICBC: based on GEOS-CHEM. We used 36US3 **2016fh_GEOS_Chem** model output data to create 12US1 ICBC.

EMIS: based on /work/ROMO/otaq_fy23/smoke_out/**2016gh_16j**/12US1/cmaq_cb6ae7 (it has 10 sectors)

But, for **ptfire-rx**, **ptfire-wild**, and **ptfire_othna**, come from below.

/work/MOD3EVAL/callen05/WR614/smoke_out/WR614_EQUATES_2016/12US1/cmaq_cb6/ptfire-rx_w_CO2/
/work/MOD3EVAL/callen05/WR614/smoke_out/WR614_EQUATES_2016/12US1/cmaq_cb6/ptfire-wild_w_CO2/
/work/ROMO/2016platform/smoke_out/2016fj_16j/36US3/cmaq_cb6ae7/ptfire_othna_w_CO2/

MODEL EXE: /work/ROMO/users/kpc/cmaq/CMAQ54/CCTM/scripts/BLD_CCTM_v54_intel21.4_STAGE

These namelist files used:

setenv gc_matrix_nml /work/ROMO/lrt/cmaq/36US3/nml/GC_cb6r5_ae7_aq.nml
setenv ae_matrix_nml /work/ROMO/lrt/cmaq/36US3/nml/AE_cb6r5_ae7_aq.nml
setenv nr_matrix_nml /work/ROMO/lrt/cmaq/36US3/nml/NR_cb6r5_ae7_aq.nml
setenv tr_matrix_nml /work/ROMO/lrt/cmaq/36US3/nml /Species_Table_TR_0.nml
setenv STAGECTRL_NML /work/ROMO/lrt/cmaq/36US3/nml/CMAQ_Control_STAGE.nml
setenv DESID_CTRL_NML /work/ROMO/lrt/cmaq/36US3/nml /CMAQ_Control_DESID.nml
setenv DESID_CHEM_CTRL_NML /work/ROMO/lrt/cmaq/36US3/nml/CMAQ_Control_DESID_cb6r5_ae7_aq_NVPOA.nml
setenv MISC_CTRL_NML /work/ROMO/lrt/cmaq/12US1/nml/CMAQ_Control_Misc.nml

Model input option:

1. Calculate in-line biogenic emission with BEIS4
2. No windblown Dust, No lightning, No BIDI, No ammonia bi-directional flux.

Model output species and layer :

1.**CONC_SPCS** "ALL", only layer one
2.**AVG_CONC_SPCS** "ALL", only layer one

MET data: /asm/ROMO/met/MCIP/WRFv3.8_12US1_2016_35aL/v4.3

OCEAN file: OCEAN_${MM}_L3m_MC_CHL_chlor_a_12US1.nc

Please view it and let me know if you have any question.

Thanks
Nancy