



EUROPEAN COMMISSION
DIRECTORATE-GENERAL
Joint Research Centre



The HemiTap Tool

[How to look at ~~45~~ 105 Gb]

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Model Overview (1)

NR	MODEL	RESOLUTION	RESPONSIBLE
01	GEOSChem-v07	144 x 91 x 30	Rokjin Park
02	MOZARTGFDL-v2	192 x 96 x 28	Arlene Fiore
03	STOCHEM-v02	96 x 72 x 20	Kirsty Pringle, Michael Sanderson
04	CAMCHEM-3311m13	144 x 96 x 28	Peter Hess
05	INCA-vSSz	96 x 72 x 19	Michael Schulz, Sophie Szopa
06	LLNL-IMPACT-T5a	144 x 91 x 48	Cynthia Atherton, Dan Bergmann
07	MSCE-HM-v4.5 (NH)	144 x 37 x 8	Oleg Travnikov
08	MSCE-POP-v2.2 (NH)	144 x 37 x 8	Alexey Gusev
09	EMEP-rv26 (NH)	360 x 90 x 20	Jan Eiof Jonson, Peter Wind
10	OsloCTM2	128 x 64 x 40	Michael Gauss
11	FRSGCUCI-v01	128 x 64 x 37	Oliver Wild
12	UM-CAM-v01	96 x 73 x 19	Guang Zeng
13	TM5-JRC-cy2-ipcc-v1	360 x 180 x 25	Elina Marmer
14	MOZECH-v16	192 x 96 x 28	Martin Schultz, Sabine Schröder
15	GEOSChem-v45	72 x 46 x 30	Marta Garcia Vivanco

Model Overview (2)

NR	MODEL	RESOLUTION	RESPONSIBLE
16	GOCART-v4p1	144 x 91 x 30	Thomas Diehl
17	GEMAQ-v1p0	180 x 90 x 28	Alex Lupu
18	GEMAQ-EC	96 x 72 x 20	Sunling Gong
19	UFAQ-v03 (v02)	64 x 37 x 28	Veronica Montanaro
20	SPRINTARS-v356	320 x 160 x 20	Toshihiko Takemura
21	ECHAM-HAMMOZ-v21	128 x 64 x 31	Gerd Folberth
22	STOC-HadAM3-v01	72 x 36 x 19	Ian MacKenzie
23	INCA-v2MS	96 x 73 x 19	Michael Schulz
24	GISS-PUCCINI-modelE	72 x 46 x 23	Drew Shindell
25	GISS-PUCCINI-modelA	72 x 46 x 23	Drew Shindell
26	GMI-v02a	144 x 91 x 42	Huisheng Bian
27	GOCART-v4p2	144 x 91 x 30	Thomas Diehl
28	GMI-v02f	144 x 91 x 42	Bryan Duncan
29	TEST	-- x -- x --	NN

Delivery Overview (1)

NR	MODEL	EXPERIMENTS SRx (All = EU+NA+SA+EA)	a o d	a e r o	b u d g	d e p m	e m i m	m e t m	s f c	t r a c	v e r t
01	GEOSChem-v07	1,2,3All,6EA		X	X	X	X	X	X	X	
02	MOZARTGFDL-v2	1,2,3All,4All,5All,6All		X	X	X	X	X	X	X	X
03	STOCHEM-v02	1,2,3All,4All,5All,6All,TP1		X	X	X	X	X		X	
04	CAMCHEM-3311m13	1,2,3All,4All,5All,6All,TP1	X	X	X	X	X	X	X	X	X
05	INCA-vSSz	1,2,3All,4All,5All,6All (4SA?)			X	X	X	X	X	X	X
06	LLNL-IMPACT-T5a	1,2,3All,4All,5All,6All		X	X	X	X	X	X	X	
07	MSCE-HM-v4.5	1,7All,8All				X	X	X	X1	X	
08	MSCE-POP-v2.2	1,7All,8All				X	X	X		X	
09	EMEP-rv26 (NH)	1,2,3All,4All,5All,6All		X	X	X	X	X	X	X	
10	OsloCTM2	1,2,3All,4EU,5EU					X	X	X	X	
11	FRSGCUCI-v01	1,2,3All,4All,5All,6All			X	X	X	X	X	X	X
12	UM-CAM-v01	1,2,3All,4All,5All,5All,6All,TP1			X	X	X	X	X	X	
13	TM5-JRC-cy2-ipcc-v1	1,2,3All,4EU,5EU,6All,TP1		X		X	X	X	X	X	X
14	MOZECH-v16	1,2,3All,4All,5All,6All			X	X	X	X	X	X	
15	GEOSChem-v45	1,2			X			X	X	X	

Remarks/Questions (1)

- The DVS directory has been frozen in September and is called DVS_SEP2007
- All updates (> Sept) are made in the DVS directory:
 - ULAQ-v03
 - emim, TP1 results GISS-PUCCINI-ModelE
 - GMI-v02a, GMI-v02f
 - LLNL-IMPACT-T5a
 - ECHAM5-Hammoz-v21
 - GEOSChem-v07
- Hourly and Daily results are not yet in the data base. Where do we put SEP2007 and updates ?

Remarks/Questions (2)

- In the Tool choice for DVS and DVS_SEP2007
- The aod daily mean optical thickness results are not explored yet, same for Hg⁰, Hg^{II} and Hg^P results, same for HM and POPs
- Preprocessing (SFC, AOD, VertProf) can be performed by each modeller
- There is an option to visualize your own results before they are put into the data base
- Problem with 'segmentation fault' has been solved (?)
- I will try to do something on the different color tables

Remarks/Questions (3)

- Observations vertical profiles
- Is there a need to include Observational data

Your comments, remarks, suggestions for improvement are welcome

1) In my ../htap05/SAVfiles directory you will find a file 'preprocSFC.sav', this is the executable you can use for the preprocessing of the Surface (sfc) files. The procedure is as follows:

Create a directory named 'input' in your ../htapxx/HemiTap directory (Example: ../htap05/HemiTap/input). Put all the 365 (or 360 for climate mode) files of type 'MODEL_SR1_sfc_2001_nnn.nc' which you want to process into this ../input directory. Copy my 'preprocSFC.sav' file to your HemiTap directory.

Launch idl.

Execute the command: restore,'preprocSFC.sav' (including quotes).

Execute the command: preprocSFC.

Follow the instructions.

If everything works well a file of type 'MODEL_SR1_sfc_2001.nc' will be created in your ../HemiTap/output directory.

2) Same procedure for preprocAOD (aod processing)

3) Same procedure for preprocVERT (vertical profiles processing)

4) There is also the possibility to test your own (new or updated) model results. This works as follows:

The file containing the results to be tested should be named:

TEST_'Normal file name'

(Example: TEST_GEOSChem-v45_SR1_tracerm_2001.nc) and should be put into your directory ../HemiTap/test/).

Select model 'TEST' as one of the models you want to visualise through the PREFS-ModelSequence button on the top of Tool (or copy the file 'models_mod.dat' from my ../htap05/HemiTap directory to your HemiTap directory).

Run the Tool as before.

The order of the (selected) models can be changed through the button PREFS-ModelSequence-NewSequence (as before).

5) Once you are happy with your new results, I will make a few extra tests and put them into the common DVS data base as new results or updates of earlier results.

