TM5 SC meeting 31/05/2022

Agenda:

1. Action points
2. New Action points
3. TM5-open IFS

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| Action # | Title | Responsible | Tracker id. |
| 8.3 | 4D-VAR frozen versions of CH4, CO, CO2 on Sourceforge (as package) | SB |  |
| 8.4 | Simplify trunk versions (rc-keys, HDF) | SB, AS, PlS | 8931 |
| 9.3 | Investigate possible failures in moving from python2python3 | PlS, SB | 20341 |
| 10.3 | Investigate possibility to develop IFS-TM5-MP coupling | WP+MK |  |
| 11.1 | Move SVNGit. TM5-MP. | PlS, ND |  |
| 11.2 | Budconc issue chemistry version | ND, SM, PlS |  |
| 11.3 | Merge versions TM5-MP-4DVAR into TM5-MP | AS, PlS |  |

8.3: Only methane is there. Ask SB status

8.4: removed .hdf AS cleaned up more in the MP version. Action closed. Stelios still uses .hdf. Easy solve: convert to .nc and go. Budget file is still issue.

9.3: Closed (still issues with var4d-zoom version). New machine requires python3 and it works.

10.3: Leave it open. Anne-Wil started running. Will see how this develops

11.1:Closed

11.2: Solved. The issue appeared when running on 1x1. Note: we can run 1x1 on one core.

11.3: Most of this has been done. There are new things to be merged. Close issue.

New action points:

12.1: Gitlab (AS, PlS). GitLab has announced limited users. We decide to move the code to GitLab TNO

(action, PlS, AS).

12.2: Redmine server at KNMI will be closed. PlS will save the information as pdf, that we will couple to GitLab repro.

12.3: Check OH field issue with Alexandra (ND).

12.4: Andrew Schuh: Mentioned an issue with convection files. Arjo will check (AS)

Discussion on Open-IFS – TM5 coupling

We aim at coupling at calculating meteo with Open-IFS and pass (in memory) to TM5. This would save the archived meteo. Check with Lars-Killaars work (Carbon cycle, with nudging).

There is the paper as a starting point.

1. Write to disk (e.g. for 4dvar)
2. In memory
3. Nudging to ERA5/Merra

EC-Earth will move the chemistry to the “C-IFS” branch (i.e. the chemistry that Vincent took from TM5). This is also one option, but not suitable for 4DVAR (mass-issue).

This discussion will be continued after the next TM5 meeting.

Next meeting: December 19-20 2022, Bremen

New Action list:

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| --- | --- | --- | --- |
| Action # | Title | Responsible | Tracker id. |
| 8.3 | 4D-VAR frozen versions of CH4, CO, CO2 on Sourceforge (as package) | SB |  |
| 10.3 | Investigate possibility to develop IFS-TM5-MP coupling | WP+MK |  |
| 12.1 | Move code to GitLab TNO | AS, PlS |  |
| 12.2 | Move issues from redmine to pdf.file and open important issues on GitLab | PlS |  |
| 12.3 | Check reported issue on 3D OH field (Spivakovsky) used in 4dvar | ND |  |
| 12.4 | Check reported issue with convection (Andres Schuh) | AS |  |