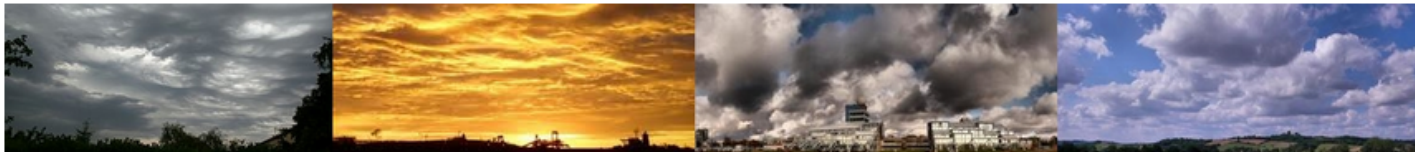# Standardization of input/output files for SCM and LES simulations.

Initially planned as a practical session of the conference :

Improvement and calibration of clouds in models

Centre International de Conférences   June 15-19, 2020
Météo-France, Toulouse, France

CIC meetings

Due to current conditions, we have decided to postpone the meeting to the 12 to 16 April 2021.

The proposed standard is an initiative of the :
- french **DEPHY** research network (**D**evelopment and **E**valuation of **Phy**sics)
- **HighTune** ANR (french research agency) project on calibration of SCM against LES

A **version #0 of Dephy-SCM standard** is already shared by IPSL and MeteoFrance will be **made available for the workshop for tests.**

Main objective : converge to a shared standard, even after the workshop.
Rm : Evolution of the standard is less an issue once you have one (automatic filter)

The e-workshop was organized by

Frédéric Hourdin (LMDZ/IPSL Team)
Catherine Rio (Dephy)
Fleur Couvreux (HighTune/MesoNH)
Romain Couvreux (Arpege-CNRM team)
Marie-Pierre Lefebvre (CNRM)
Yunyan Zhang (LLNL)

All the information *about the organization available at*
https://www.lmd.jussieu.fr/~hourdin/Workshop1Dstd.html

SCM/LES representatives were identified

MUSC (Arpege/Arome) : Romain Roehrig
LMDZ : Frédéric Hourdin
MesoNH : Fleur Couvreux
LLNL : Peter Andrew Bogenschutz
DALES : Roel Neggers
ICON : Martin Köhler
CAM : Andrew Gettelman
ECMWF IFS SCM : Richard Forbes
MetOffice : Leif Denby
GFDL : Zhihong Tan
NASA/GMAO : Andrea M. Molod
WRF (user) : Yi-Ling Hwong
CCPP : Grant Firl
Caltech/CliMA : , Ignacio Lopez-Gomez
JPL : Mikael Witte

Information on groups avaiable on a **google sheet** *: to be continued*

Monday, June 15:

A) Introduction and context (30 min)
- General introduction (Frédéric Hourdin, one more slide)
- Instructions for the smooth running of the sessions (Marie-Pierre Lefebvre)
- Motivation for multi-case SCM for climate model improvement (Catherine Rio)
- A standard for model calibration based on SCM/LES comparisons (Fleur Couvreux)

B) Presentation of the dephy-scm standard format (**20 min,** Romain Roehrig)

C) Round table (1h30) discussion about the experience of the other SCM groups

D) Discussion

    Active chat *(BlueJean)* ***:*** *with a moderator, where everyone can express himself.*

Between June 15 and 19 and after :

- Try to implement the proposed format in your SCM starting with the simple ARM cumulus case or a few others already available.
- Try to provide new cases at the standard format.
- Try to produce standardize outputs and apply shared post processing

    Slack: *to exchange technical, practical and general ideas about the standard*

    Git: *to report bugs and technical issues with the files and software*

    e-mails to organizers *:through representatives only to organize the next session*

Friday, June 19 :

- Round table feedback from the various groups (~ 10min/group).
- Discussion on the definition of a standard suitable for everyone
- Discussion on how to continue this action. **Should succeed !!!**

Using the slack to organize our collaborative work

General discussion on the standardization

"+" : to create your own channel to exchange inside a team Like LMDZ here

Technical discussion on the format, help for implementation

Dephy-SCM ✎
● frederic.hourdin

◎ **Threads**
@ Mentions & reactions
🗐 People
⠿ Apps
❀ Files
↑ Show less

▾ Channels
➕
aléatoire
dephy-scm
général
lmdz
notforget
technical

▾ Direct mess...
➕

#**notforget** ☆
👤 34 | Add a topic

ⓘ

#notforget

You created this channel today. This is the very beginning of the # notforget channel. Description: Items that were identified during the discussion and should be considered in the definition of the next version of the standard format. (edit)

⚡ Add an app   👤 Add people

Today ⌄

Frédéric Hourdin 12:36 AM
z0 : Consider having different values for at least momentum and scalars and considering z0 as time varyin. (edited)

🙌 1   😊⁺

Message #notforget

⚡ | B I S <> 🔗 ≣ ⋮≣

Details ✕

👤⁺ Add   ≣Q Find   📞 Call   ⋯ More

34 members registered
Friday, 14:00 UTC

Members   34 ›

Shortcuts   0 ›

Pinned   0 ›

Item created from a contribution by Jan Chylik on the "technical" channel. Thanks !

"notforget" : to synthesize issues to be addressed for the future version