OpenIFS workshop 2017

Practical experiment

Seasonal forecast

OpenIFS – based on IFS cycle 40r1
Operational from Nov-2013 to May-2015

No ocean model (NEMO)

- Running seasonal mode with CMIP5 forcing
 - Mass conservation active

Basic experiment design

Study El Nino 2015/16

Start dates: 1/11/2015 – 15/11/2016
Each group can choose any date(s)

Model runs until end April 2016

Pre-run ensembles

- 10 member ensembles for each start dates
- Two cases:
 - "ob00" : ERA-Interim analysis of observed sea-surface & sea-ice
 - "clim" : replace SST & CI with 20yrERA-Interim climatology
- The data for these cases are provided
 - They do not need to be re-run at ECMWF.

In teams, you will...

- Design experiment(s) to alter the SST for the model.
 - e.g. remove/increase SST anomaly over the Pacific
- Modify the SST fields for model, using 'ob00'.
- Run 10-member ensemble.
- Process output to compute monthly-means.
- Transfer monthly means output to ICTP
- Plot results with prepared "Metview" scripts

Daily discussion / brainstorm

Scientific discussion with other teams

End of day highlights & brainstorms

 Each team to give a short presentation on Friday

Tutorials online

https://software.ecmwf.int/oifs/OpenIFS+user+meeting+2017

Workshop tutorials

- OpenIFS 2017: Adding new experiment for Metview
- OpenIFS 2017: Creating a new OpenIFS experiment
- OpenIFS 2017: Modifying the sea-surface temperature (SST)
- OpenIFS 2017: Setting up ectrans to ICTP