

s2dverification

Update meeting – 23/02/2015

Sprint review

s2dverification@s2dverification.ic3.cat

Outline

- Current state
- Review SCRUM document
- Review GitLab (issues & MR)
- Questions & comments
- Generalised Load: new features

Current state

- Latest release: s2dverification 2.2.0
 - Not on CRAN, 2.1.2 available on CRAN
- Towards 2.3.0:
 - Tested features
 - Generalised load
 - Will be released internally this week and will go through a 4 month testing period
 - Also on CRAN (share with other institutions)

Current state

- Towards 2.3.0:
 - Untested features
 - Prob bins, CRPS, ACC permutation, load extreme
 - Features in progress
 - Deactivate confidence intervals, speed-up score functions

Review SCRUM document

<https://docs.google.com/spreadsheets/d/16-7CvRxM>

Review GitLab

<https://gitlab.cfu.local/cfu/s2dverification>

Questions & comments

- Steps on how to develop in s2dverification on the wiki page:

<http://ic3.cat/wikicfu/index.php/Tools/s2dverification#Development>

- Remember to use the script in `/cfu/software/test-s2dverification branch_name` to make the developing process easier.
- Migration: discussion in progress.
 - Issues in BSC using public GitLAB
 - Using GitHub would be confusing
 - People outside to join ASAP

Generalised Load()

New features

- Config file: (dataset, var) → (path, grid, varname, ...)

```
#####  
!!table_of_experiments  
#####  
#exp_name,      var_name[,      exp_main_path[,      exp_file_path[,  
.*,            *,  
#special main paths and grids for some experiments  
ECMWF_S4_sea,  .*,            $ROOTE$/0001/s004/m001,      *,  
ECMWF_S4_ann,  .*,            $ROOTE$/0001/s004/m003,      *,  
#special main and file paths and grids for some experiments  
EnsEcmwfDec,  .*,            $ROOTA$/ecmwf/2005/s001/m001,      $STORE_FREQ$_mean/$VAR_NAME$/$EXP_FILE$,  
EnsCerfacsDec, .*,            $ROOTA$/cerfacs/2002/s000/m001,      ",  
EnsIfmDec,    .*,            $ROOTA$/ifm/2002/s001/m010,      ",  
EnsUkmoDec,   .*,            $ROOTA$/ukmo/2026/s001/m001,      ",  
EnsEcmwfSeas, .*,            $ROOTB$/seasonal/ecmwf,      ",  
EnsCerfacsSeas, .*,            $ROOTB$/seasonal/cerfacs,      ",  
EnsIfmSeas,   .*,            $ROOTB$/seasonal/ifm,      "
```

- NCDF4 → data selection, OPeNDAP support

Generalised Load()

New features

- Improved memory usage (SpeedUp ~ 1.7)
- Multi-core (SpeedUp at IC3 ~ 3.2)
- Supported dataset storage formats:

2d or global mean variables in **any** of the following formats:

EXPERIMENTS:

- File per ensemble (YYYY, MM and DD somewhere in the path)
- File per member (YYYY, MM, DD and MemberNumber somewhere in the path, exps with **different numbers of members supported**)

OBSERVATIONS:

- File per ensemble (YYYY and MM somewhere in the path)
- **File per member** (YYYY, MM and MemberNumber somewhere in the path, obs with different numbers of members supported)
- File per dataset (No path constraints but .nc time axes must be properly defined)