

s2dverification

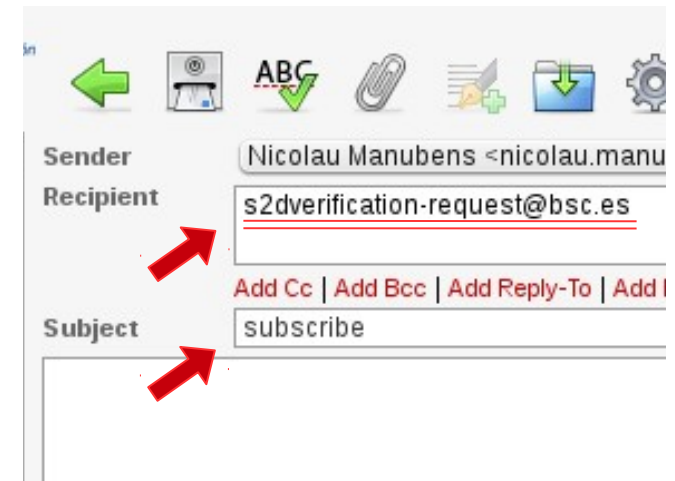
Update meeting – 28/10/2015

Sprint review

Mailing list:
s2dverification@bsc.es

Wiki:

<https://earth.bsc.es/wiki/doku.php?id=tools:s2dverification>



Outline

- Current state
- Ready to test features
- Issues and comments
- Useful links

Current state

- Latest release: s2dverification 2.4.6
 - Available internally only (2.4.0 on CRAN).
 - Updated configuration file with paths to /esnas.
 - Fixed some bugs in Load().
 - Fixed paths to some ice variables.
 - Fixed and updated plot_timeseries.R.
 - EUCLEIA observations now loadable.

Ready to test features

Branch name	Assigned testers
develop-trend	François, Chloé
develop-seaicemodesetc	Already tested. Depends on develop-trend.
develop-plotwind	Verónica, Eleftheria
develop-composite	Chloé, Verónica
develop-crpss	Omar
develop-toymodel	François, Eleftheria
develop-animVSLtime	Chloé, Eleftheria, Omar: one remains!
develop-interfacing-SpecsVerification	Verónica, Omar
develop-THREDDS-subsetting	Nico, later everyone (testing period)
develop-RMSE_boot	Chloé, Omar
develop-StatTC	François, Javier

Ready to test features

- Nicolau: we are planning to do some joint publications with some other packages. We need to merge as soon as possible most of ready branches. 'develop-THREDDS-subsetting' will go through a 2 month testing period that will start next monday. Other branches must be all tested in 1 month. Everyone must use 'develop-RMSE_boot' and 'develop-interfacing-SpecsVerification'.

Issues and comments

- Everything ready to work
 - Paths changed to /esnas.
 - Testing script available:
`/shared/earth/software/scripts/test-s2dverification` branch
- Problems with shared memory
 - When Load() crashes, shared memory in use is not released. Then R is always slow.
 - You can flush shared memory (in moore too) with:
`rm /dev/shm/*`
- Release on CRAN with Neven's functions.
 - **Virginie: That branch must be tested before December.**

Issues and comments

- Moving to 'roxygen2' and 'testthat'
 - See previous meeting summary.
 - No news so far. Postponed to January.
- New developments
 - Develop-StatTC
 - LP: Compute one of G. Villarini's statistical downscaled measure of mean Atlantic hurricane activity and its variance.

Issues and comments

- Other verification packages in SPECS

- Exploring collaborations (developments/papers) with 'SpecsVerification', 'easyVerification' and 'downscaleR'.
- Can see and comment comparative table:

<https://docs.google.com/spreadsheets/d/1uzhfnS3yMY1U3osZuUyuEjij3UNySbAYc6c0N00H2fk/>

- Nico: 'SpecsVerification' computes probabilistic scores over multi-member time series. 'easyVerification' applies these scores over arrays of any dimensions, and also provides some additional scores. 'downscaleR' is a software close to 's2dverification': can load complex climate data, perform statistics with strong emphasis on downscaling and bias correction, and plots.

Issues and comments

- News in develop-THREDDS-subsetting
 - See previous meeting summary.
 - Subsetting enabled. Saves time.
 - Avoids remapping when possible. Saves time.
 - Supports any order of dimensions in NetCDF files.
 - Removed system dependencies: 'nco', 'ls', 'rm'. Still 'cdo'.
 - Enhanced progress information and error messages.
 - Added some metadata: returns the parameters you gave to Load() and lists of found and not found files.
 - Will go through a testing period soon.
 - Can use it if you want, before the testing period, with:
[/shared/earth/software/scripts/test-s2dverification develop-THREDDS-subsetting](/shared/earth/software/scripts/test-s2dverification/develop-THREDDS-subsetting)

Issues and comments

- Other issues

- Danila: is there any news about seeing the progress in `Load()`?
- Nico: I tried to put a progress bar. But it got too complex to manage and at the end I removed it. Will try again in future.

Useful links

- How to develop in s2dverification: updated

<https://earth.bsc.es/wiki/doku.php?id=tools:s2dverification#development>

- GitLab

<https://earth.bsc.es/gitlab/s2dverification>

- SCRUM planning

<https://docs.google.com/spreadsheets/d/16-7CvRxNEcpX4k25sYjcV3G4XoqYFwwGXn1W0fv3CAQ/edit?usp=sharing>

Thanks for your attention

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