

s2dverification

Update meeting – 30/11/2015

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
- Using Load() + subsetting
- Useful links

Current state

- Latest release: s2dverification 2.4.10
 - Available internally only (2.4.0 on CRAN).
 - Bugs in 2.4.7, 2.4.8 and 2.4.9 now corrected.
 - News in Load() since 2.4.6:
 - Efficient manipulation of subsets (faster).
 - Avoids remapping when possible (faster).
 - Now possible to work without a configuration file.
 - Simplified configuration files, can upgrade with [/shared/earth/software/scripts/convertConfig.R](#)
 - Provides plenty of metadata.
 - Improved progress information.
 - ... (see changelog on wiki).

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 (should we discard? We need to ask to Verónica).
develop-toymodel	François, Eleftheria
develop-animVSLtime	Chloé, Eleftheria, Omar: one remains!
develop-interfacing-SpecsVerification	Verónica, Omar
develop-StatTC	François, Javier
develop-RMSE_boot	Chloé, Omar (Omar: not ready to be tested)

Virginie: we should start setting deadlines for each feature.

■ To be used and tested by everyone.

Issues and comments

- Bugs in 2.4.7, 2.4.8 and 2.4.9:
 - Issues when loading data across Greenwich.
 - Data shift or shear in some cases when loading multiple datasets.
 - To restore the latest version if you are using 'use-s2dverification':
</shared/earth/software/scripts/use-s2dverification> default
 - See 'Current state' for enhancements since 2.4.6.

Issues and comments

- Towards s2dverification 3.0.0
 - Compatibility break must happen anytime soon.
 - It will affect you in the following aspects:
 - Some function names will change.
 - E.g.: `Consist_Trend()` → `ConsistTrend()`
 - E.g.: `Filter()` → `Foo()` (the name is not chosen yet)
 - Some data structures will change.
 - E.g.: `var <- Load(...)`
`var$mod` → `var$Data$exp`
 - Some functions will disappear.
 - E.g.: `CRPS()`
 - When should it happen? In one month's time, in a year's time, ...? **All: It can happen any time as long as we can go back to an old version.**

Issues and comments

- Remember to share your configuration files
 - Clone the Git repository.
 - Create a branch.
 - Create a merge request.
 - See steps on wiki in 'Development'.
- Ongoing developments
 - Nicola's developments to compute scores over a network of stations.
 - Any other ongoing developments?

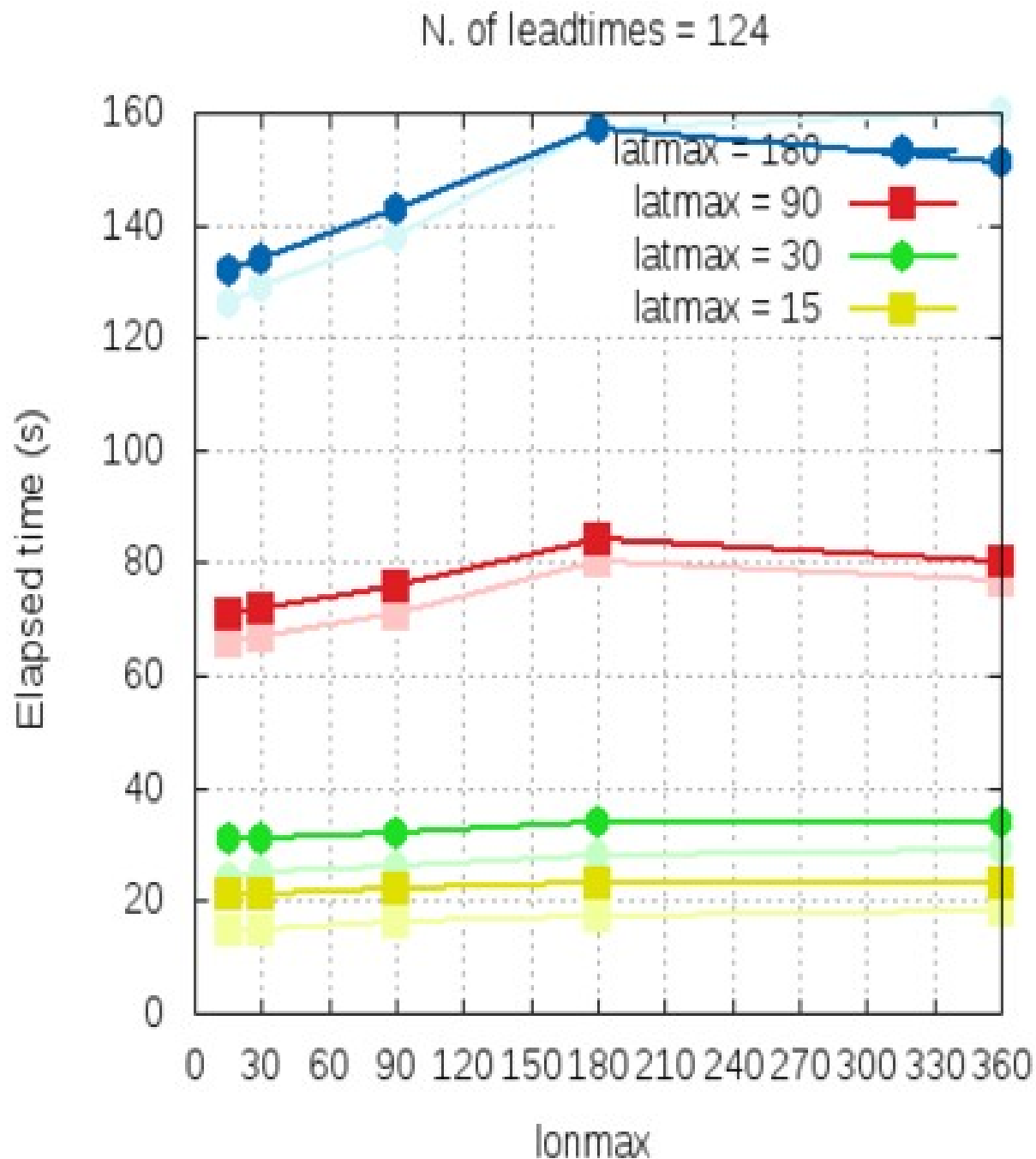
Issues and comments

- Other issues or comments?
 - Martin: Load() can't handle data on irregular grids, even if you are asking for an area average.
 - Eleftheria: CDO could calculate global means of data on irregular grids, Load() could use it.
 - François: We should investigate how remapping into a common grid can affect the scores.

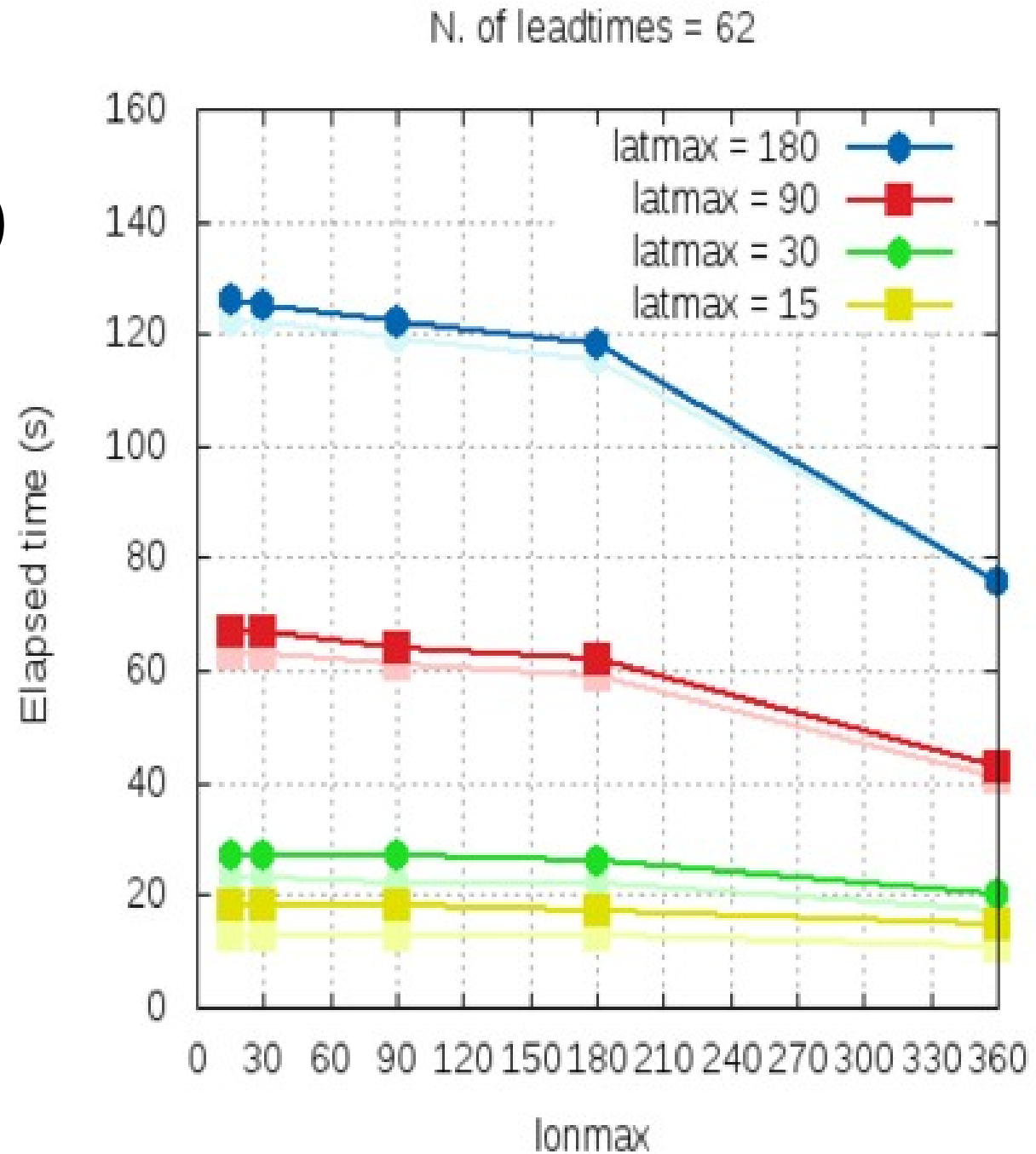
Using Load() + subsetting

Bold lines show tests performed against file server.

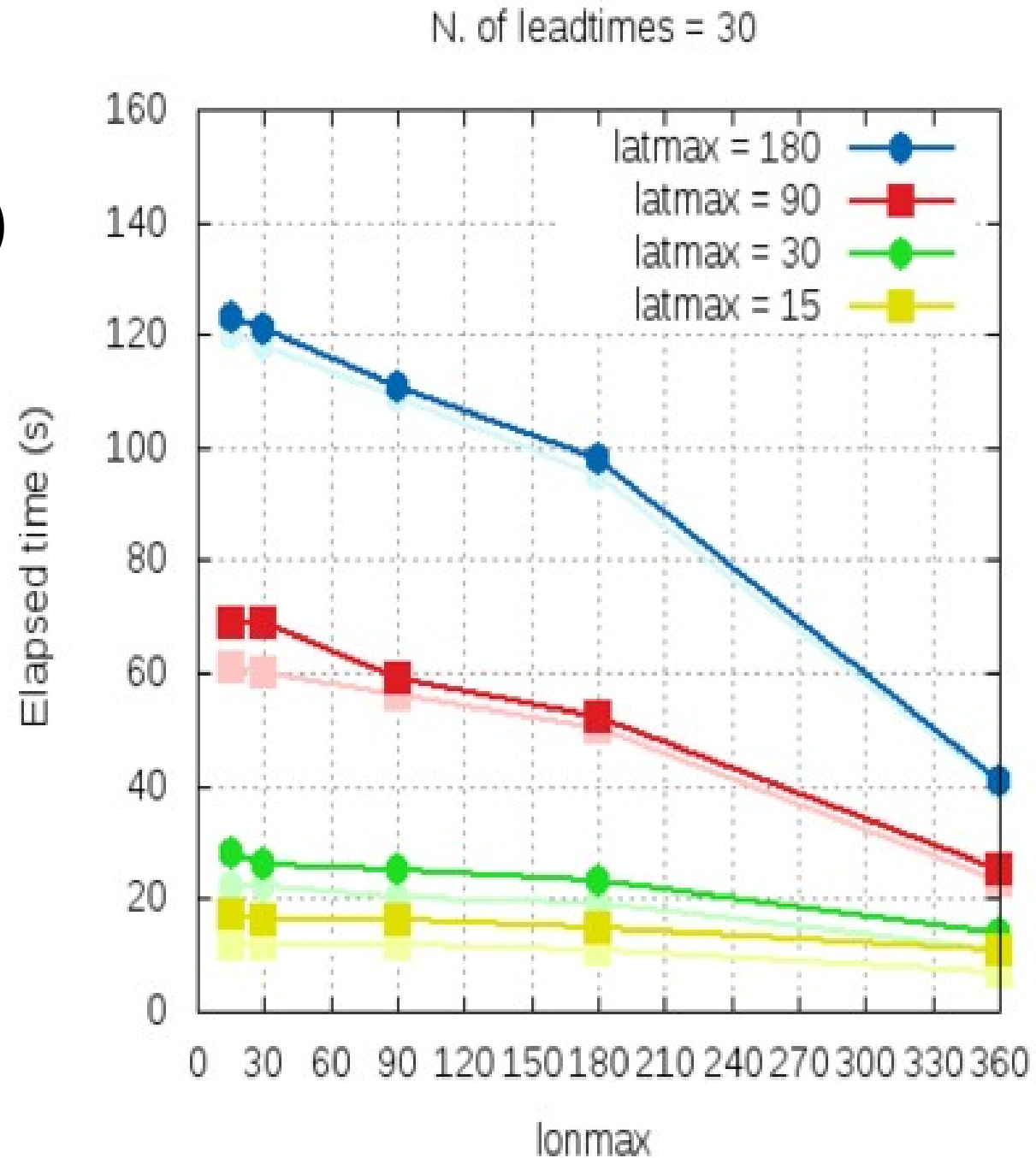
Light lines show tests performed against a THREDDS server.



Using Load()
+ subsetting



Using Load()
+ subsetting



Useful links

- How to develop in s2dverification

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

- GitLab

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

- Script to test or try features

</shared/earth/software/scripts/test-s2dverification> feature

- Script to switch default s2dverification version

</shared/earth/software/scripts/use-s2dverification> version

- Script to upgrade configuration files (v2.4.6 → ≥ v2.4.7)

</shared/earth/software/scripts/convertConfig.R> file.conf

Thanks for your attention

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