



**Barcelona  
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*Centro Nacional de Supercomputación*



# Autosubmit users meeting May 2016

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May-15

## 3.0

- Workflow flexibilization (possible to remove dependencies, add new jobs...).
- **Paramiko**: New communication method based in a single SSH connection.

Nov-15

## 3.1

- Archiving of experiments.
- 3.1.9: Latest *stable* version.

Feb-16

## 3.2

- New monitoring of statistics with cpu consumption totals.
- **SAGA**: Implemented the SAGA interface to communicate with queue schedulers. *unstable !*

## 3.4

- Autosubmitlock: Prevents running 2 instances of the same experiment.
- SAGA bugfixes. *unstable !*

May-16

## 3.5

- SAGA bugfixes.
- COMPLETED and UNKNOWN bugfixes. *stable ??*

# Why not going back to 3.1.9 ?



3.1.9 is stable but:

- **NO** stats plot.
- **NO** autosubmitlock.

New interesting features introduced after 3.2:

- Filter monitor.
- R, Python.
- Synchronize jobs.
- Email notifications on completed, failed, etc.
- No-plot in setstatus.

(DEMO)

- Open GitLab issues !
- Archive finished experiments !
- SAGA troubleshooting:
  - export SAGA\_PTY\_SSH\_TIMEOUT = 90
  - autosubmit run
- Change Autosubmit version:
  - module load <autosubmit/version>
  - autosubmit create
  - autosubmit recovery
  - autosubmit run
  -

## New! references:

[1] - D. Manubens-Gil, J. Vegas-Regidor, C. Prodhomme, O. Mula-Valls and F.J. Doblas-Reyes, “Seamless Management of Ensemble Climate Prediction Experiments on HPC Platforms”, *2016 International Conference on High Performance Computing & Simulation (HPCS 2016)*, **accepted**.

[2] - D. Manubens-Gil, J. Vegas-Regidor, M.C. Acosta, C. Prodhomme, O. Mula-Valls, K. Serradell-Maronda and F.J. Doblas-Reyes, “Autosubmit: a versatile tool for managing Earth system models on HPC platforms”, *Special Issue on Workflows for Data-Driven Research - Future Generation Computer Systems*, **under review**.





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# Thank you!

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