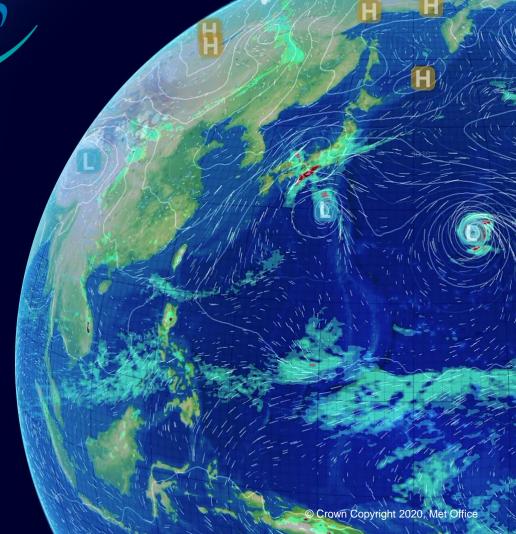




# Cylc & Rose: Latest News

IS-ENES3 1st General Assembly 25-27th March 2020

David Matthews, Met Office



## Cylc 8

Focus of almost all our development effort Major new release incorporating:

- Python 3 port
- Replacement of obsolete PyGTK based GUIs with web based GUI
- New architecture to support the Web UI
  - See https://cylc.github.io/cylc-admin/cylc-8-architecture.html
  - Using Jupterhub (well known, documented, tested) to provide access point and user authentication
- Migration of rose suite-run functionality into Cylc
  - Will provide a unified way of running Cylc workflows
- ... and several other important changes

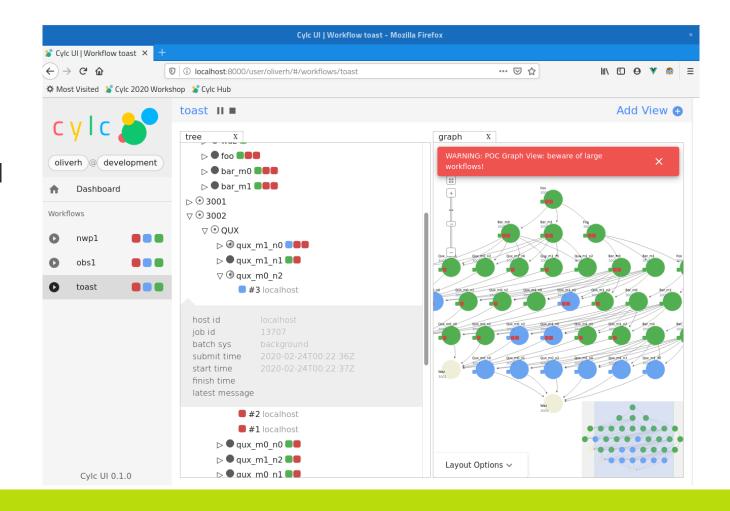


#### Cylc 8 Progress

- Python 3 port complete for Cylc and Rose (CLI only)
- New architecture to support Web UI in place
- Cylc Web UI developing rapidly
- First alpha release of Cylc 8: Sep 2019
  - Second alpha release due very soon
- Not planning to start developing replacement Rose GUIs (e.g. Rose edit) until Cylc 8 nearing completion
- Development slightly behind where we hoped to be (due to resourcing issues) but massive progress has been made
- Note: Cylc 7 workflows will run at Cylc 8 without modification (assuming they validate without any warnings) but interface for running workflows will change



A recent screenshot of the new web UI showing live workflow data:





#### **Cylc Development Workshop**

10-14 Feb 2020, NIWA, Wellington, New Zealand

- Review progress
- Plan remaining work



Report: https://cylc.github.io/cylc-admin/feb2020-workshop-report



### Cylc 8 Timescales

#### Aiming for:

- Sep 2020: Cylc 8 beta release available to start heavy user testing
- Mar 2021 (or earlier): Cylc 8 production ready
- Rose GUIs to follow later (timescale unclear at this stage)

Impact of coronavirus not accounted for yet 🙁



#### Cylc 7 in maintenance mode

Essential maintenance and bug fixes only

New maintenance releases due very soon:

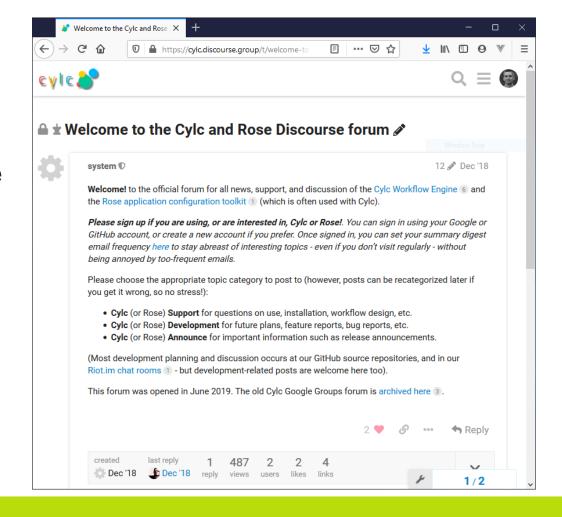
- 7.9.0 Python 2.7 only (new version of Jinja2)
- 7.8.5 Python 2.6



#### Discourse Forum

- New forum in use since June 2019
- Proving much more effective than google group used previously.

https://cylc.discourse.group/



- 11,787,785 jobs (!) were run across the 3 Met Office HPC systems during February 2020
- 99.6 % of them were submitted by Cylc

#### Observations:

- Cylc is critical to the Met Office!
- The detailed logging provided by Cylc is very useful for diagnosing system issues and makes it much easier to provide user support
- The high uptake means that the efficiencies which come through using Cylc (e.g. minimising load on the login nodes) have a big impact on our systems