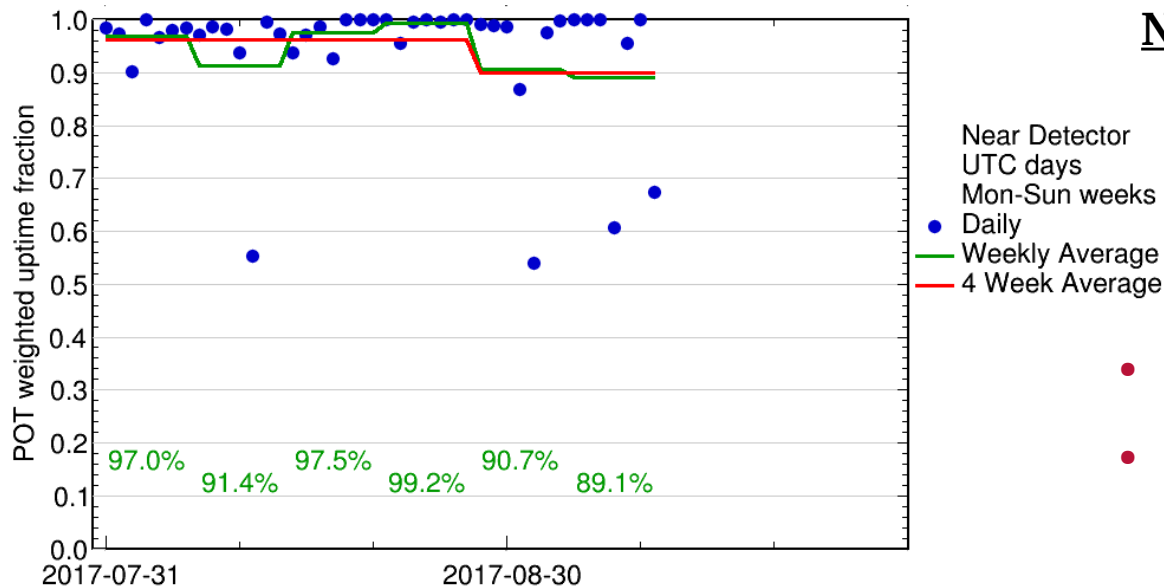# NOvA experiment report
## Update on NOvA operations, August 2017
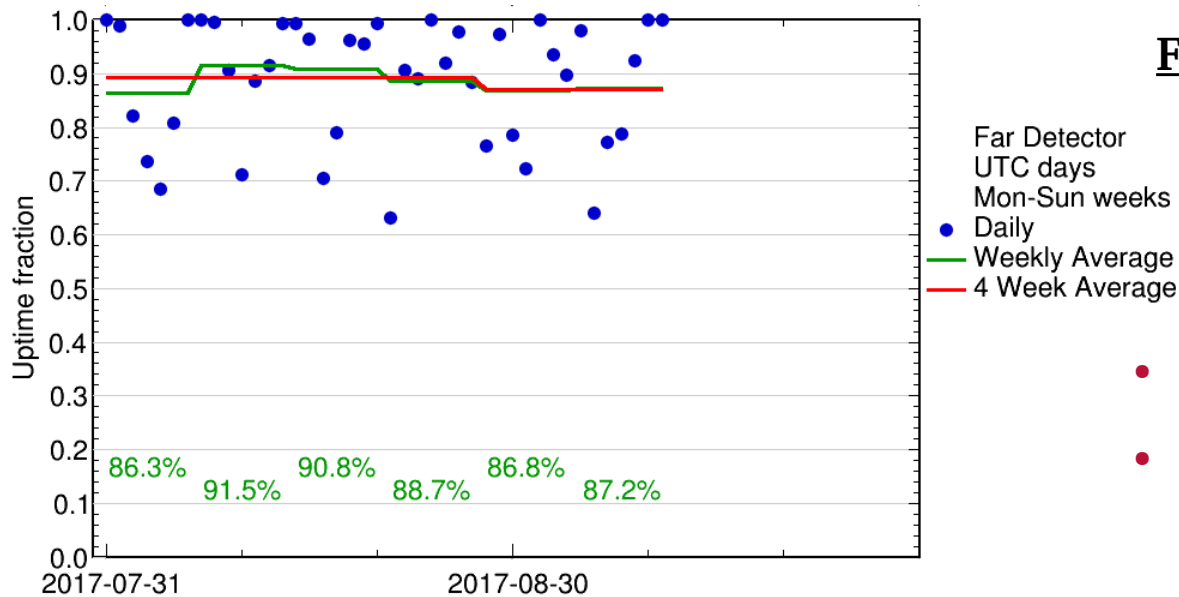
**Erica Smith**

Indiana University

11 September 2017

# Uptime



**Near detector**

- Average 5-week uptime: **93.5%**

- Average 5-week uptime (excluding planned downtime): **97.7%**

**Far detector**

- Average 5-week uptime: **89.0%**

- Average 5-week uptime (excluding planned downtime): **96.1%**

# Summary of shutdown activities



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# Summary of shutdown activities

- Testing the stability of new DAQ software release

- Deployed and tested new monitoring dashboard that consolidates error and warning messages into a more user-friendly interface

- Testing new triggers for the DAQ release: supernova, Michel electron and fast monopole

- Continued testing loadshed software:

  – Automatic shut-off of buffer nodes in the event of increased temperature

- One week of intense training for new and current DAQ "on-call" experts

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# Computing status



NOvA Computing Summary
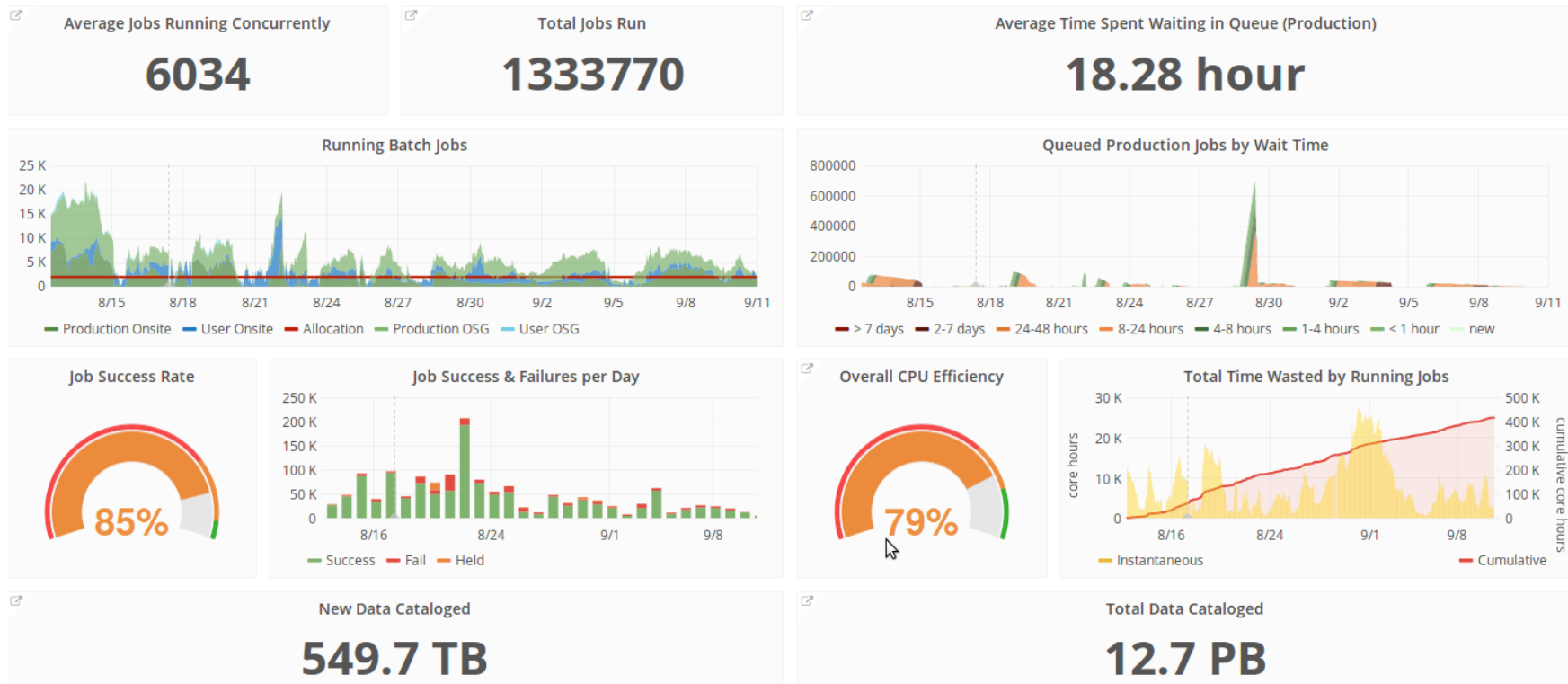
- Significant effort to finish special sample processing for flagship fall 2017 analyses.  Mostly smooth, but:
  - Several large efforts to restage files from tape around end of August were not well coordinated and fought with each other for special staging pool space allocated for NOvA by Storage
    - Users submitted jobs requesting files believed to be cached but which were pushed off by other staging requests →spike in inefficiency ~ 9/1
  - Large number of failed jobs around 8/20 due to segfault occuring in ~1% of events (hard to catch interactively but appearing routinely at scale), patched and fixed afterwards
- Heavy processing of reconstruction for other analyses
  - Required significant staging from tape.  Mostly smooth except at end of Aug. (per above)

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