NOvA Experiment Report

Update on NOvA Operations

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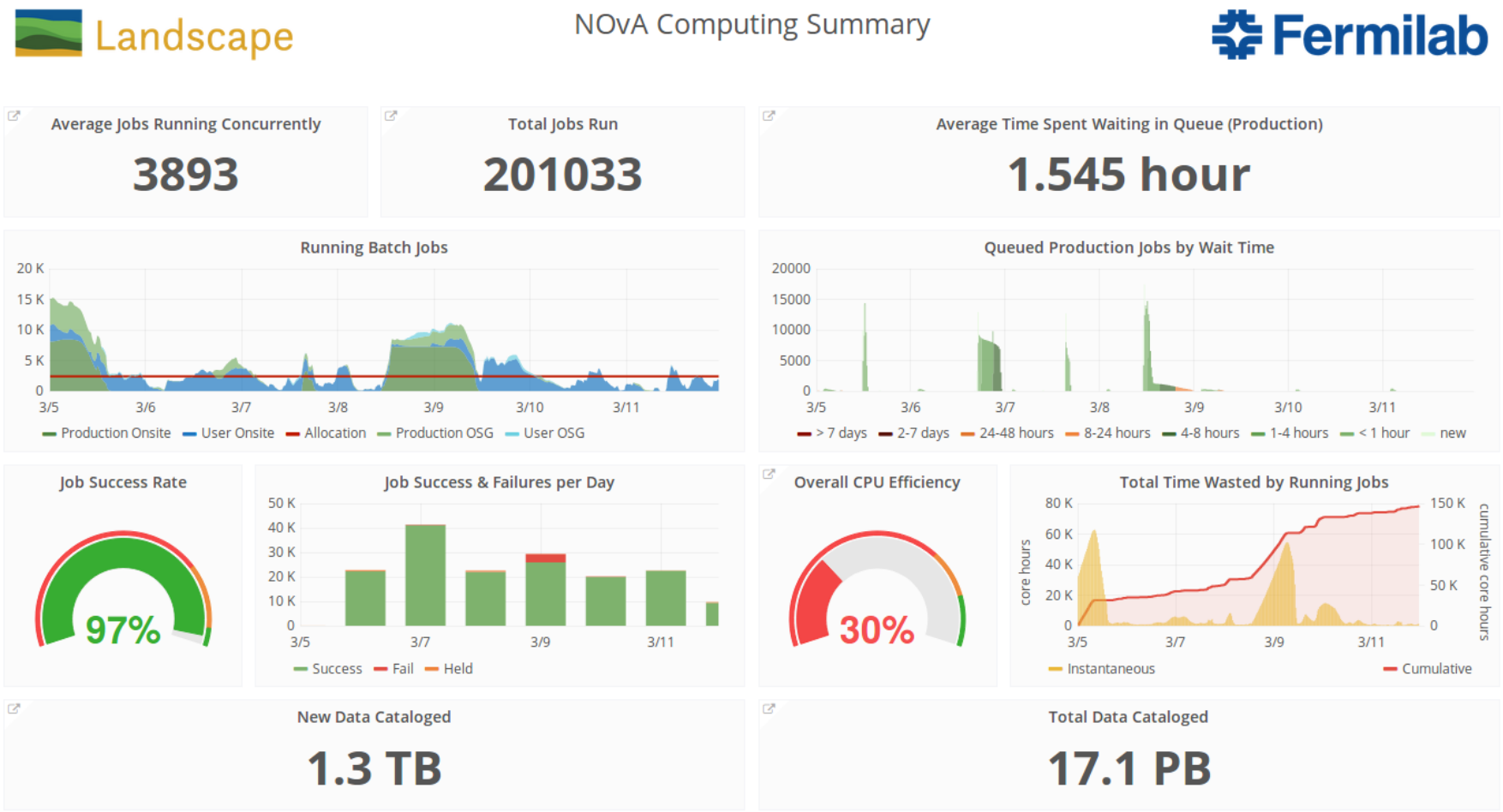
AEM Meeting

Monday, Mar. 12th 2018

Computing Summary:



- **Winter production campaign in short hiatus**
- **This week's usage dominated mostly by user jobs**
- **Low efficiency due to dCache backups in user jobs**

Downtimes this week:

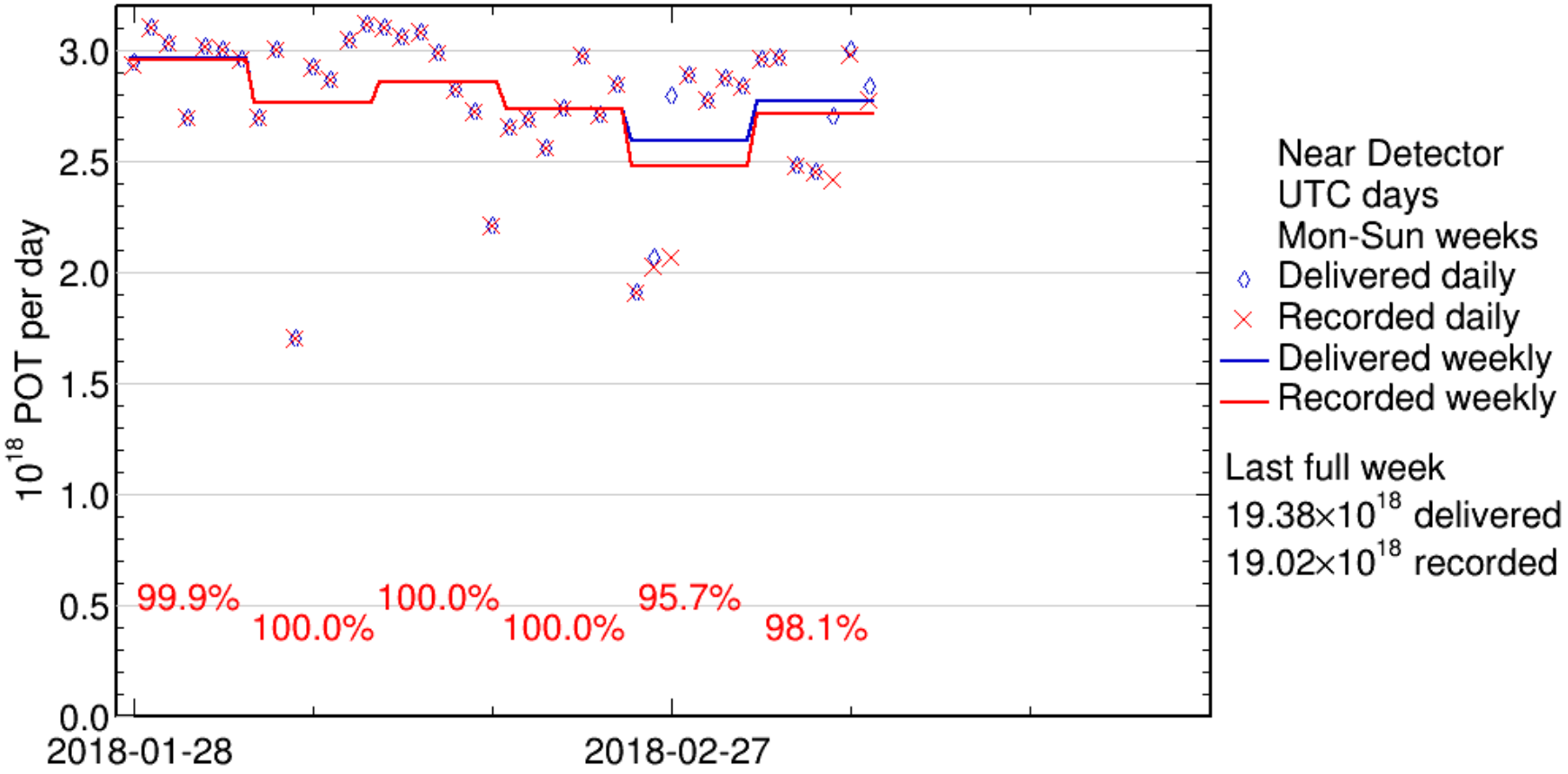
ND:

- DAQ restart on Tuesday to pick up a new trigger configuration (**during beam downtime**.)
- MINOS groundwater pumps failed on Thursday afternoon, our detector began to warm up and the run had to be stopped. FESS investigated and turned the pumps back on (**DT = 3.5 hours**.)
- ”Normal” DAQ crashes Friday/Saturday (**total DT = ~45 minutes**.)

FD:

- DAQ restart on Tuesday to pick up a new trigger configuration (**during beam downtime**.)
- DAQ stopped on Friday morning when 3 DCMs tripped. They were remotely powered back on and the run restarted without any problems (**DT = ~1hr 45min**.)
- DAQ stopped again Friday afternoon when a power supply for our dry gas system went bad. It was replaced and the run was restarted (**DT = ~1hr 10min**.)

ND Summary:

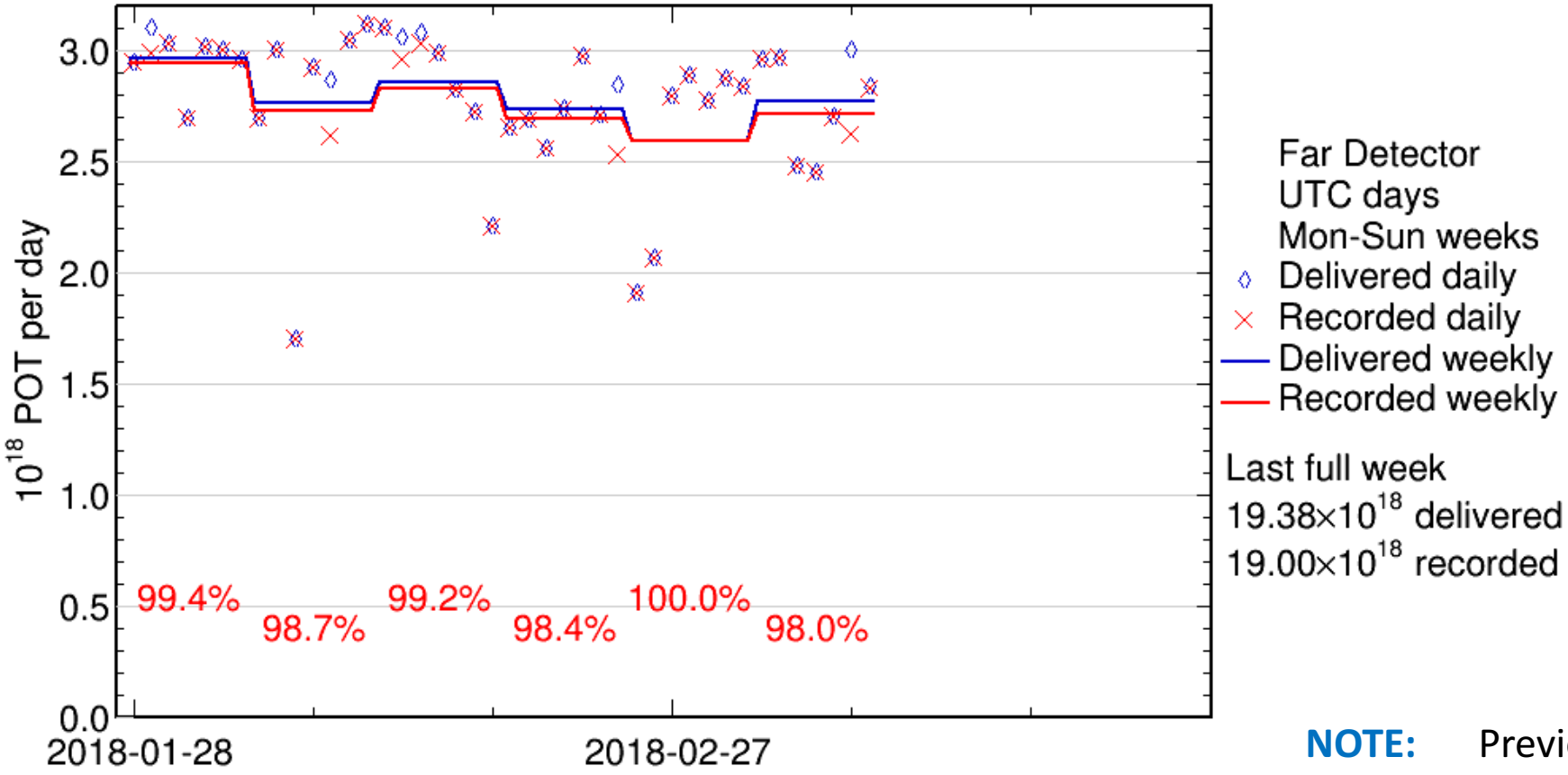


4 week ave: **98.45%**

~3.5 hour DT on Thursday

(very short) downtimes on Friday and Saturday

FD Summary:



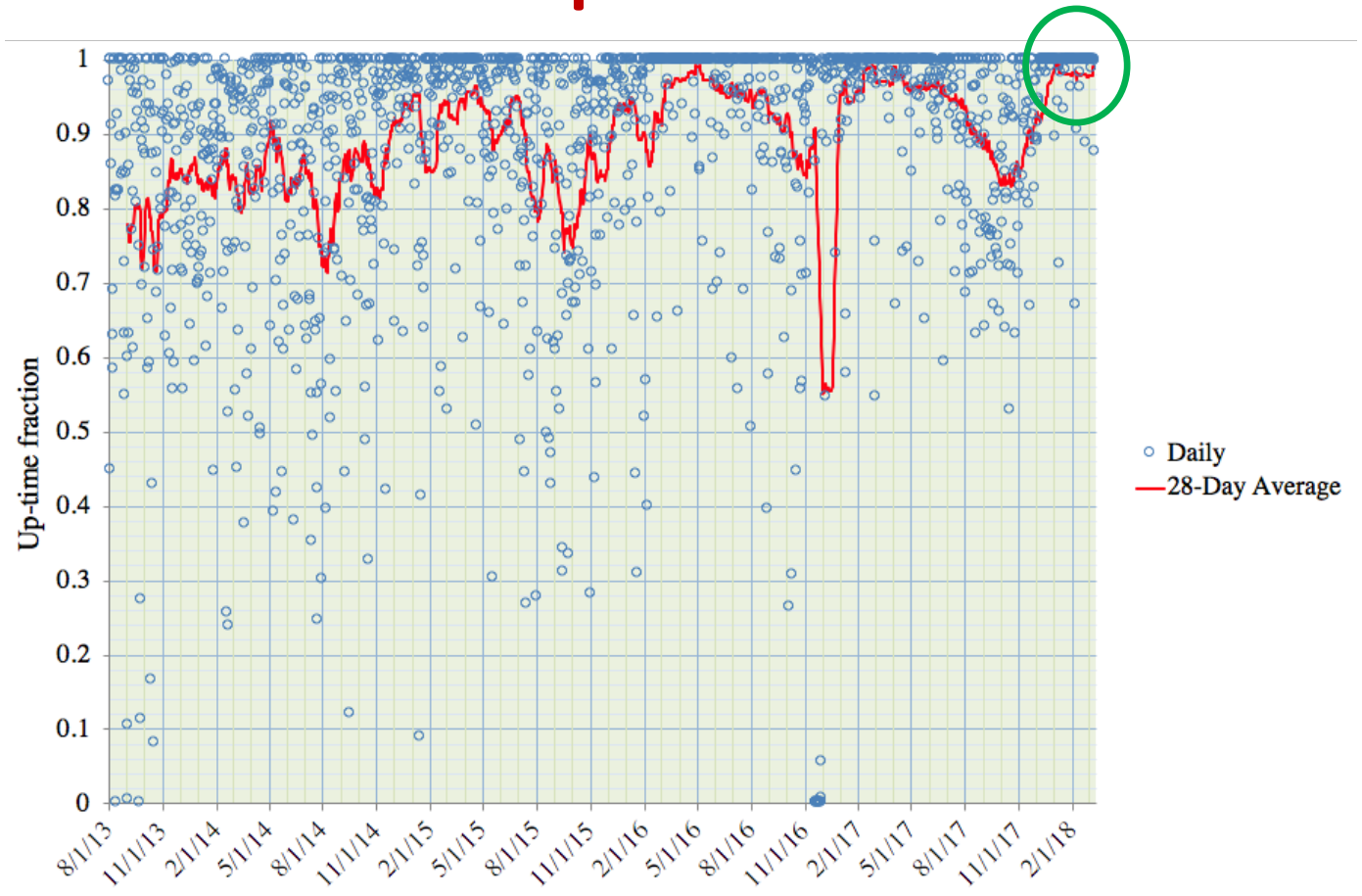
4 week ave: **98.9%**

~3 hours of DT on Friday

- FY 2018 POT: 27.0 *x* 10^{19} delivered, 26.6 *x* 10^{19} recorded
- Total nu mode POT delivered: 124.06 *x* 10^{19}
- Total anti-nu mode POT delivered: 65.7 *x* 10^{19}

NOTE: Previously we showed uptime recorded Sunday-to-Sunday, we will now be showing it Saturday-to-Saturday.

All-time FD Up-time:



Each blue dot is 1 day, red line is the average over the previous 28 days.

In the last month, we've been holding steady at 98% uptime!

There has been tremendous effort by our DAQ group, the Ash River crew, and the operations team to lead us into this tremendously successful period of running.