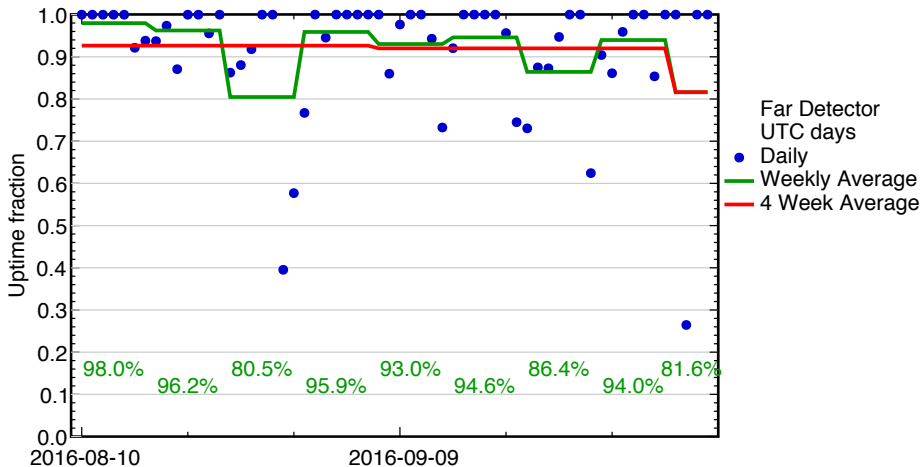


NOvA Experiment Status

Evan Niner

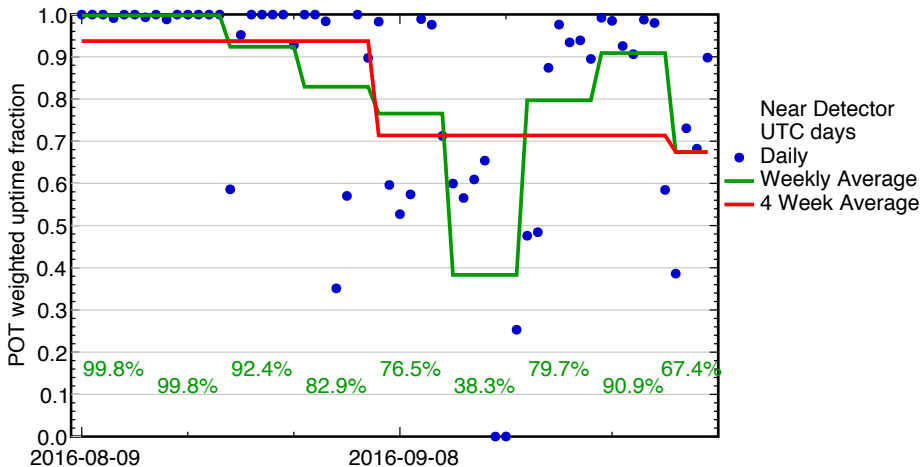
10 October 2016

Far Detector Uptime



- We are working to improve recovery time after power outages.
- Shifter can now turn on all LV and HV quickly after approval from expert, rather than only one DCM at a time.
- Pedestal scan code is being updated to streamline this part of recoveries
- Expert training sessions have focused on recovery drills so less time is spent reading documentation during actual recoveries.
- Tested longer SNEWS triggers. Worked up to 20 s (but not 30 s) without modification. By reading out slower, we have been able to extend this to longer readouts.
- Network outage last Thursday. Scheduled for daytime, inadvertently started the previous midnight.
- Ready to switch to our new DAQ release, R10, today. Still working to make all monitoring tools compatible with it, as it introduces a new data format.

Near Detector Uptime



- Scheduled underground power outage Sept 20. When the power returned a system leak and compressor failure alarm tripped off power. Neither chiller came on automatically, so there was a delay in cooling. About 3 h additional downtime.
- Have been having a crash every morning around 9am. Now understood to be linked to writing out the daily 8:30 SNEWS trigger test. This has been amplified by recently extending the readout from 8 s to 32 s, but occurs at both lengths. A fix is in the works.
- Many crashes also due to a few DCMs. Hardware swaps done to mitigate this. More may be necessary.
- Switched to DAQ R10 last Friday.
- We now monitor the KamLAND pre-supernova status ([arXiv:1506.01175](https://arxiv.org/abs/1506.01175)) as well as SNEWS. Relevant for both ND and FD.

Last Week



NOvA Computing Summary



Average Jobs Running Concurrently [🔗](#)

4178

Total Jobs Run [🔗](#)

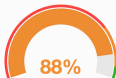
139729

Average Time Spent Waiting in Queue (Production) [🔗](#)

3.197 hour



Job Success Rate



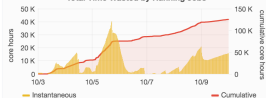
Job Success & Failures per Day



Overall CPU Efficiency [🔗](#)



Total Time Wasted by Running Jobs



New Data Cataloged [🔗](#)

2.5 TB

Total Data Cataloged [🔗](#)

7.7 PB

- Production processing spinning back up.
- Continued excellent (>5k slots) use of the OSG.
 - Some loss of efficiency due to file transfer issues with FZU – we are working on this.