



NOvA Operations Update

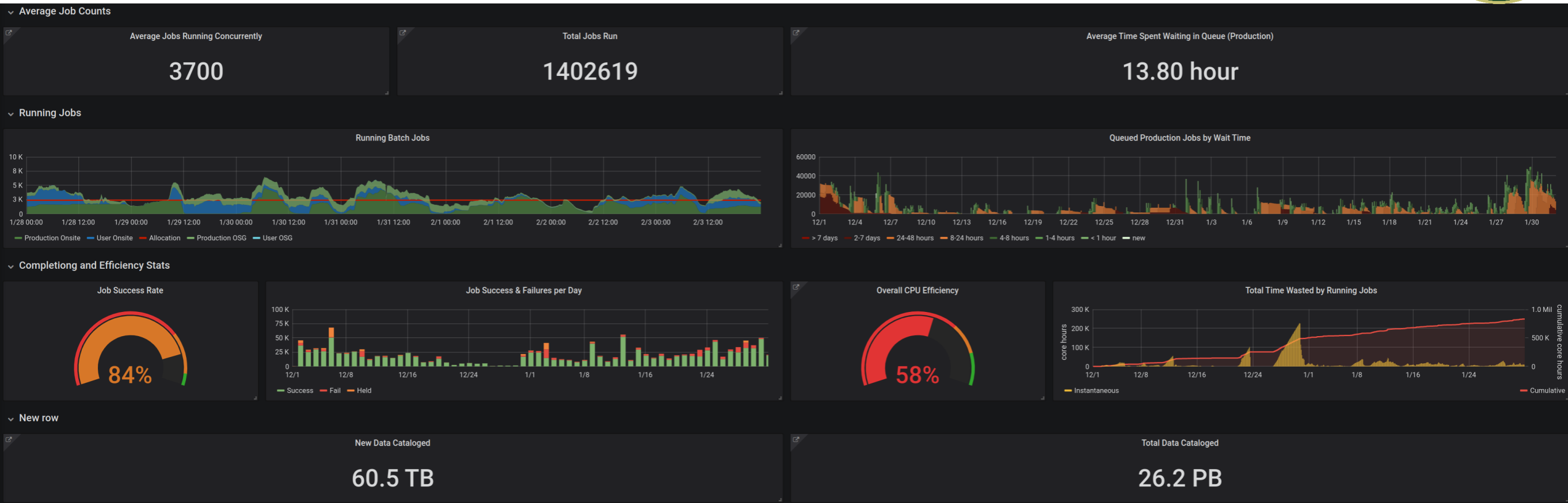
Shih-Kai Lin and Leo Aliaga

Colorado State University and Fermilab

Proton PMG Meeting
February 6, 2020



Computing Update (December - January 2019)



- **We are completing our production 5 campaign aimed to produce new results for Neutrino 2020**
- There were 1.403M jobs submitted (including 835k production jobs)
- We've had some temporary issues with SAM and some issues with OSG sites



Operations Highlights

FD Miscellaneous Maintenance

Swapping backup cables, updating iFix machines and investigating DCS alarms. A new Drier (#1) backup was checked: ready to go when it is needed.

Cosmic ray studies (Dec 18-22)

Temporary increase in the cosmic trigger rate in December for cosmic ray studies.

Some FD crashes (Dec 15, Dec 27, Jan 12 and Jan 18)

DCM errors, power bumps, buffernode crashes. DAQ experts recovered the detectors.

ND compressors have failed (Jan 15).

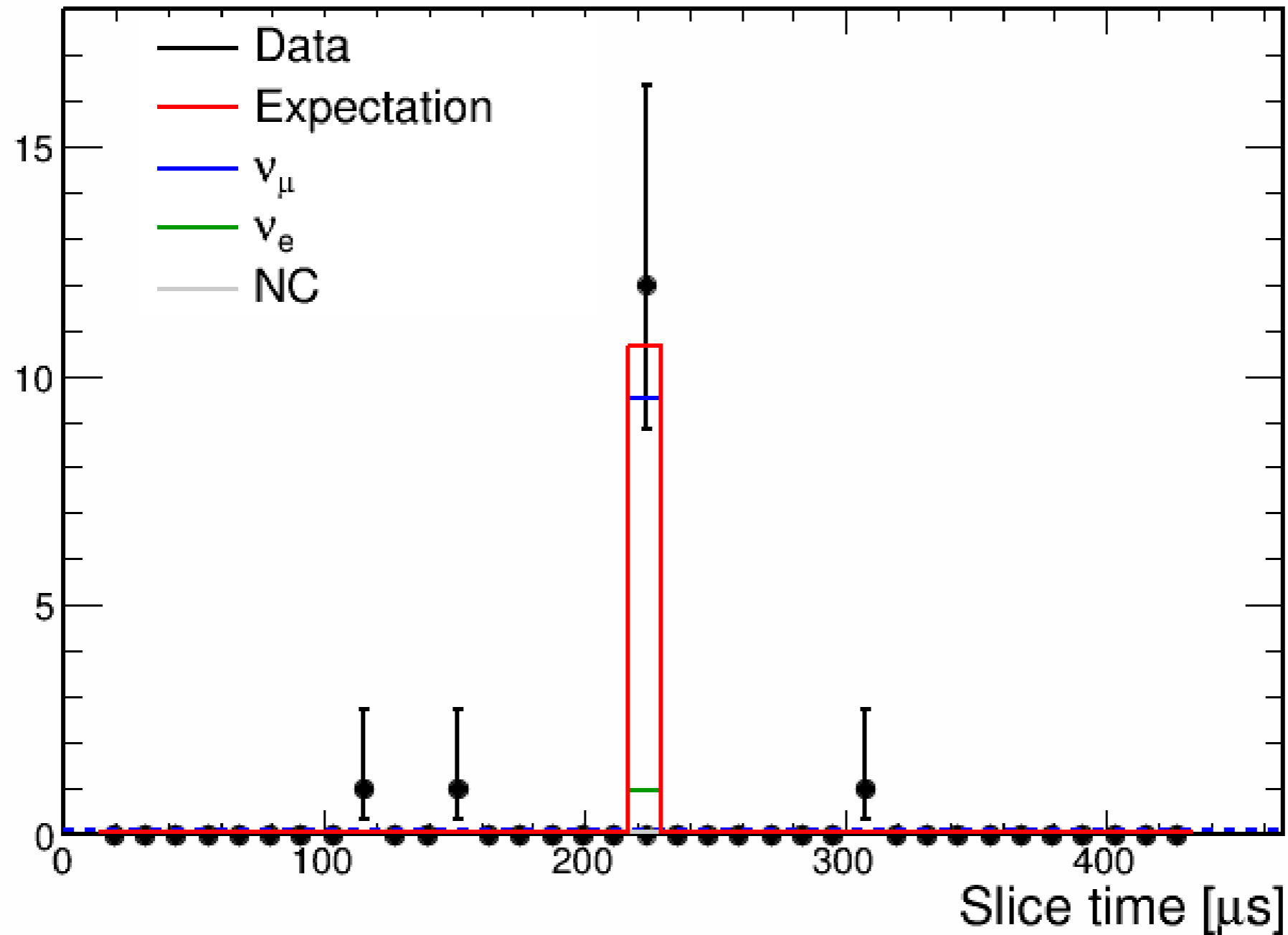
Compressor power was inadvertently cut. Resulting in using nitrogen from the backup bottles.



Timing Peak for period 10

Data up to 2020-01-11-10:05:07

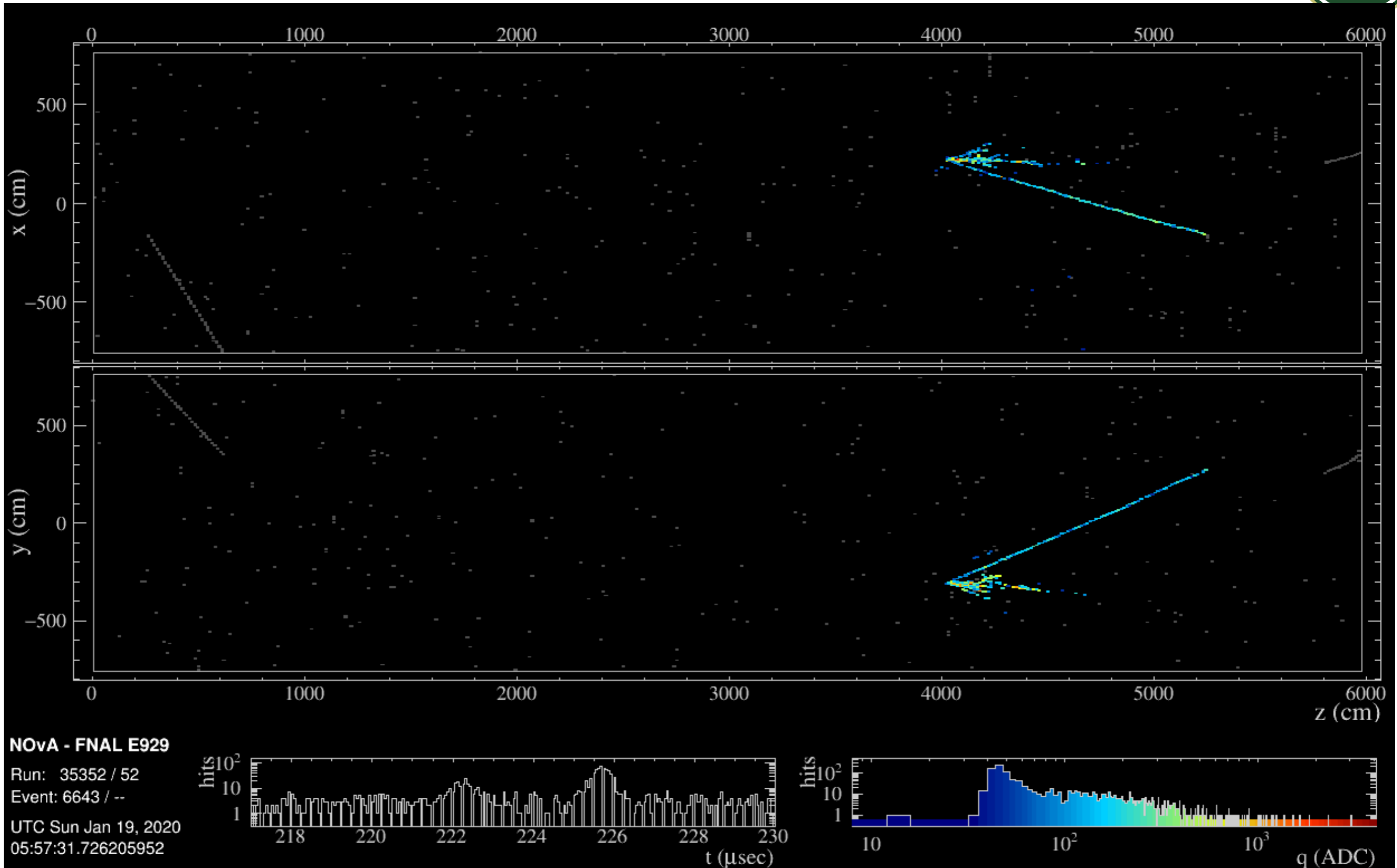
Last refreshed: 2020-01-18-10:05:07



Period 10: Started on October 29, 2019 (after the summer shutdown.)



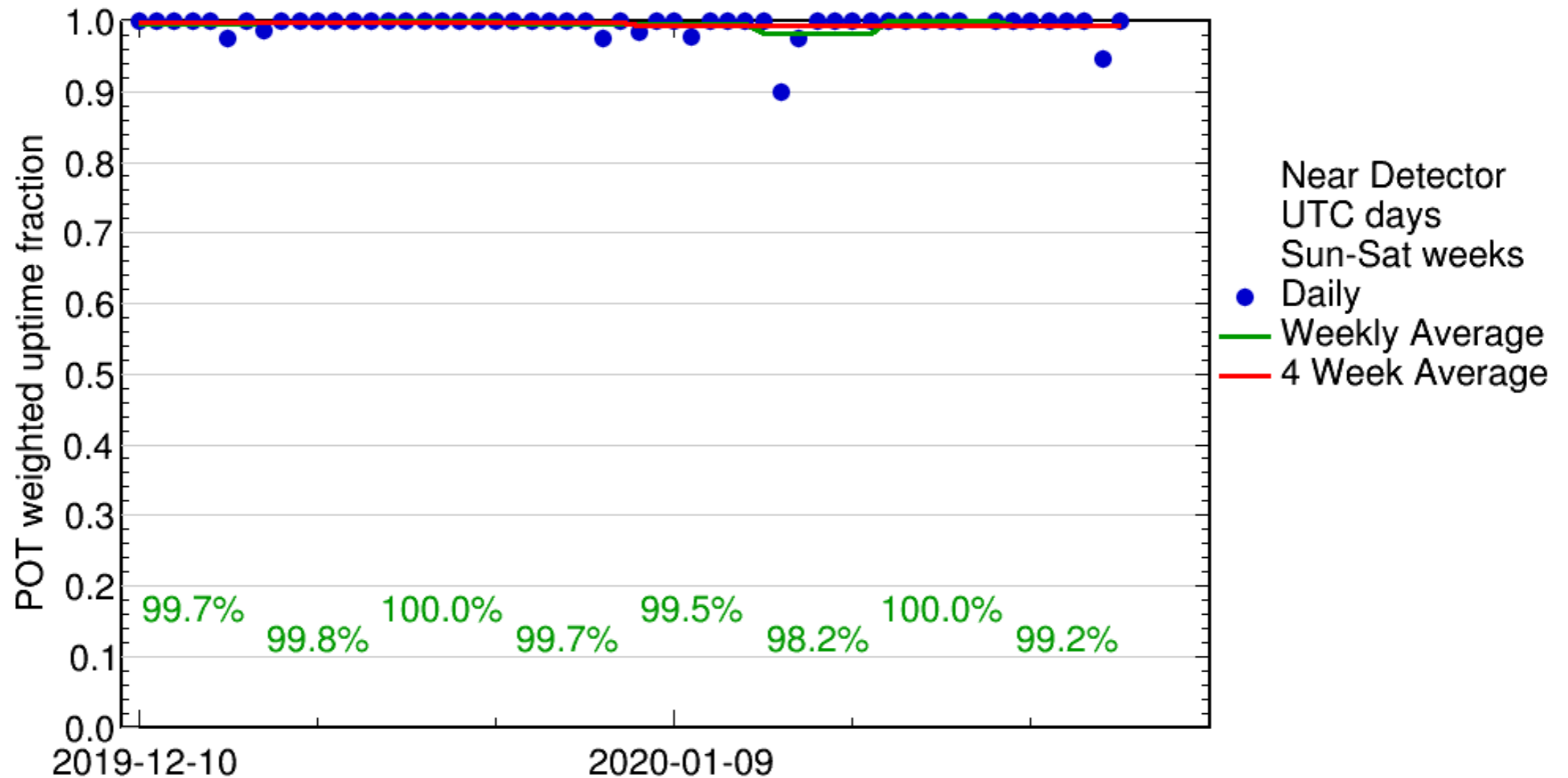
Neutrino Candidate





Near Detector Livetime (December 2019 - January 2020)

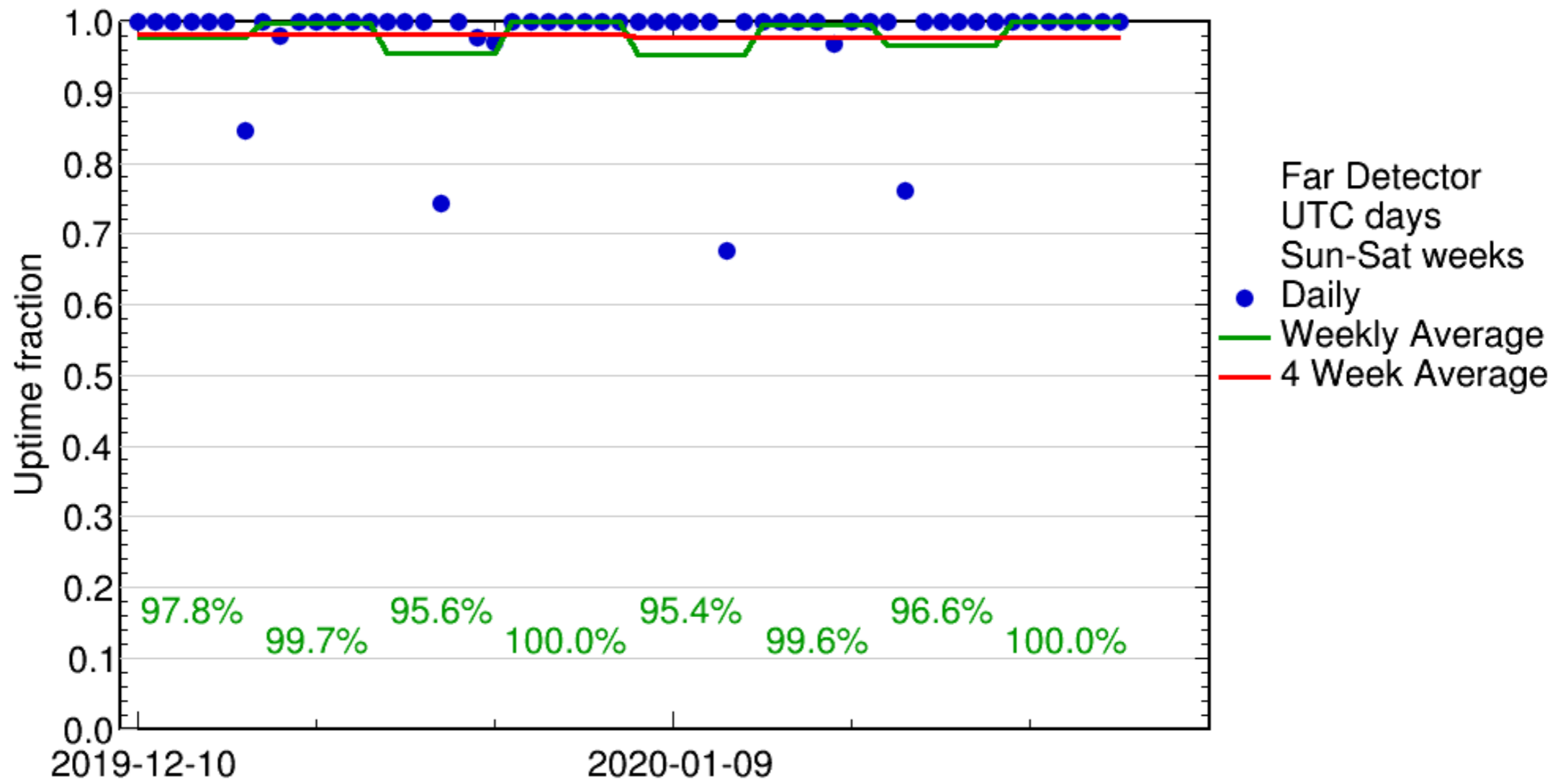
Tuesday 12/10/2019 -> Monday 2/3/2020





Far Detector Livetime (December 2019 - January 2020)

Tuesday 12/10/2019 -> Monday 2/3/2020



FY20 POT: 1.487E20 recorded, 1.495E20 delivered

Total FHC POT collected: 15.19E20 (12.53E20 14kT-equivalent)

Total RHC POT collected: 12.69E20



Test Beam

- We are taking data while trying to improve data rate.
- Beamline particle ID is working, full detector is working.
- Intensity is limited by halo shutting off detector readout. Investigations are continuing.

Selected events per day (UTC)

