NOvA Operations (Month Nov 2022)

Proton PMG / All Experimenters' Meeting

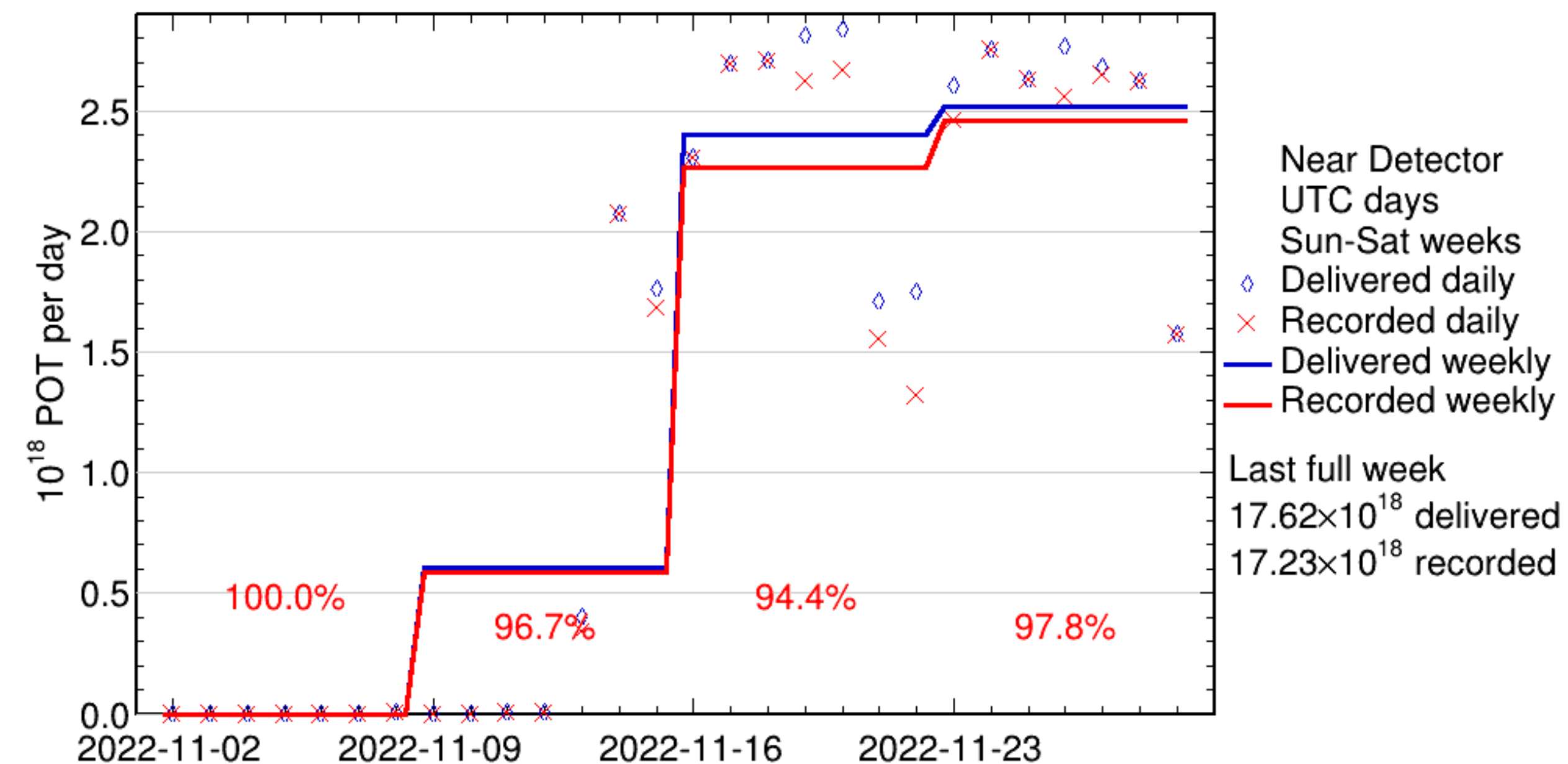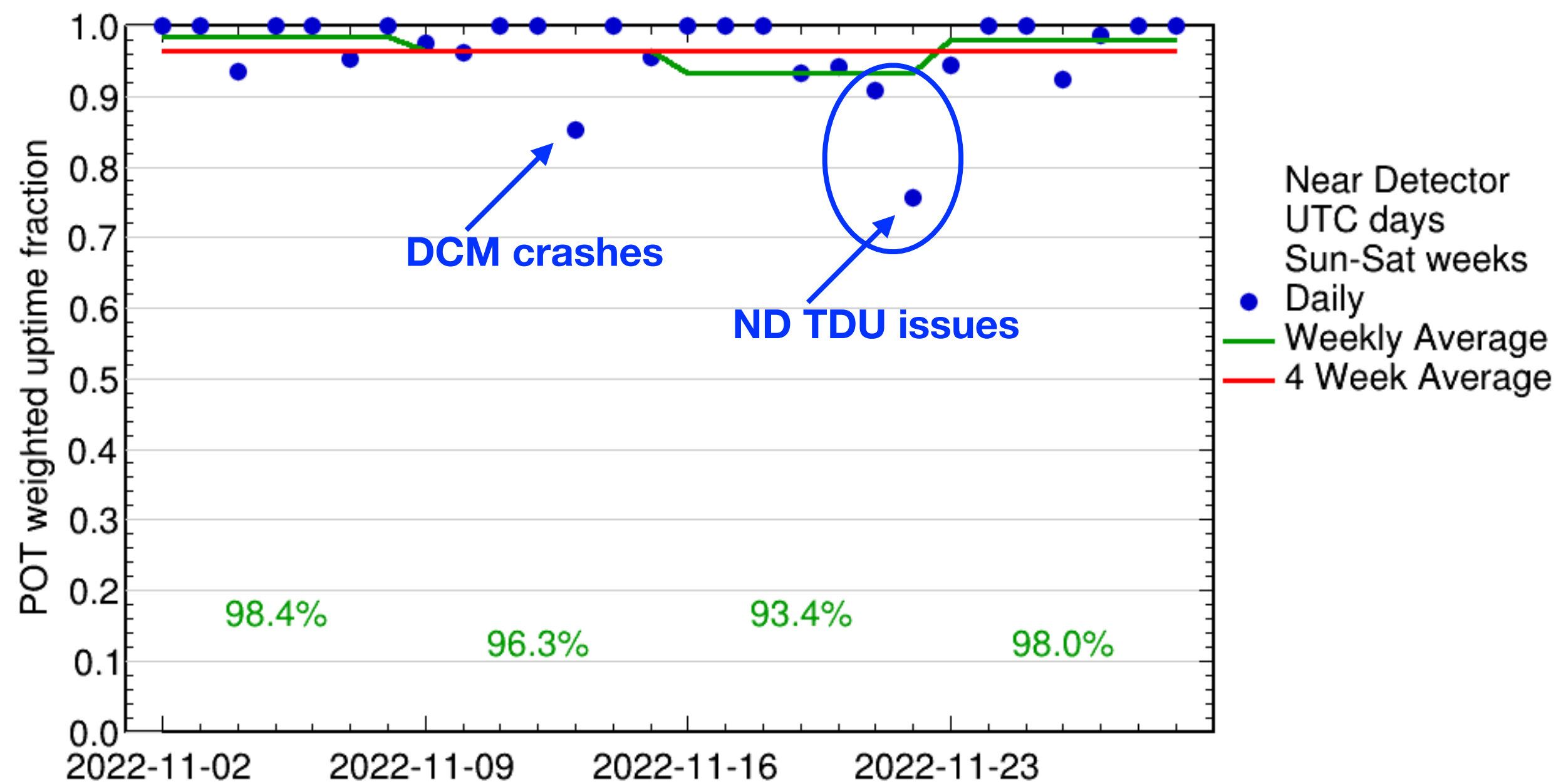**Prabhjot Singh, Andrew Sutton, 1 Dec 2022**

Operations Highlights

- **Thanks to all shifters and experts for keeping detectors running**

- NuMI beam returned on 13th Nov 2022 at 11 AM. Have seen beam power going up to 780 kW

- Target and beam scan studies were performed which led to new autotune parameters. We have updated beam data quality cuts accordingly

- NOvA continues to take checklist shifts and we encourage collaborators to take shifts from ROC-W or their university ROCs

- ROC-Cincinnati passed their second access test and will perform final official validation soon by taking 24 hours shadow shifts

- The ND TDU-2 lost connection to the satellite and had to be replaced by a spare one

- Free trial of Telzio will be available soon to test as an alternative to google voice

  - we are working with the lab's Computer Security board, g-2, and ICARUS on this

  - we have preliminary approval from the CS Board

  - the paperwork with procurement is in the works

Queen Mary University of London

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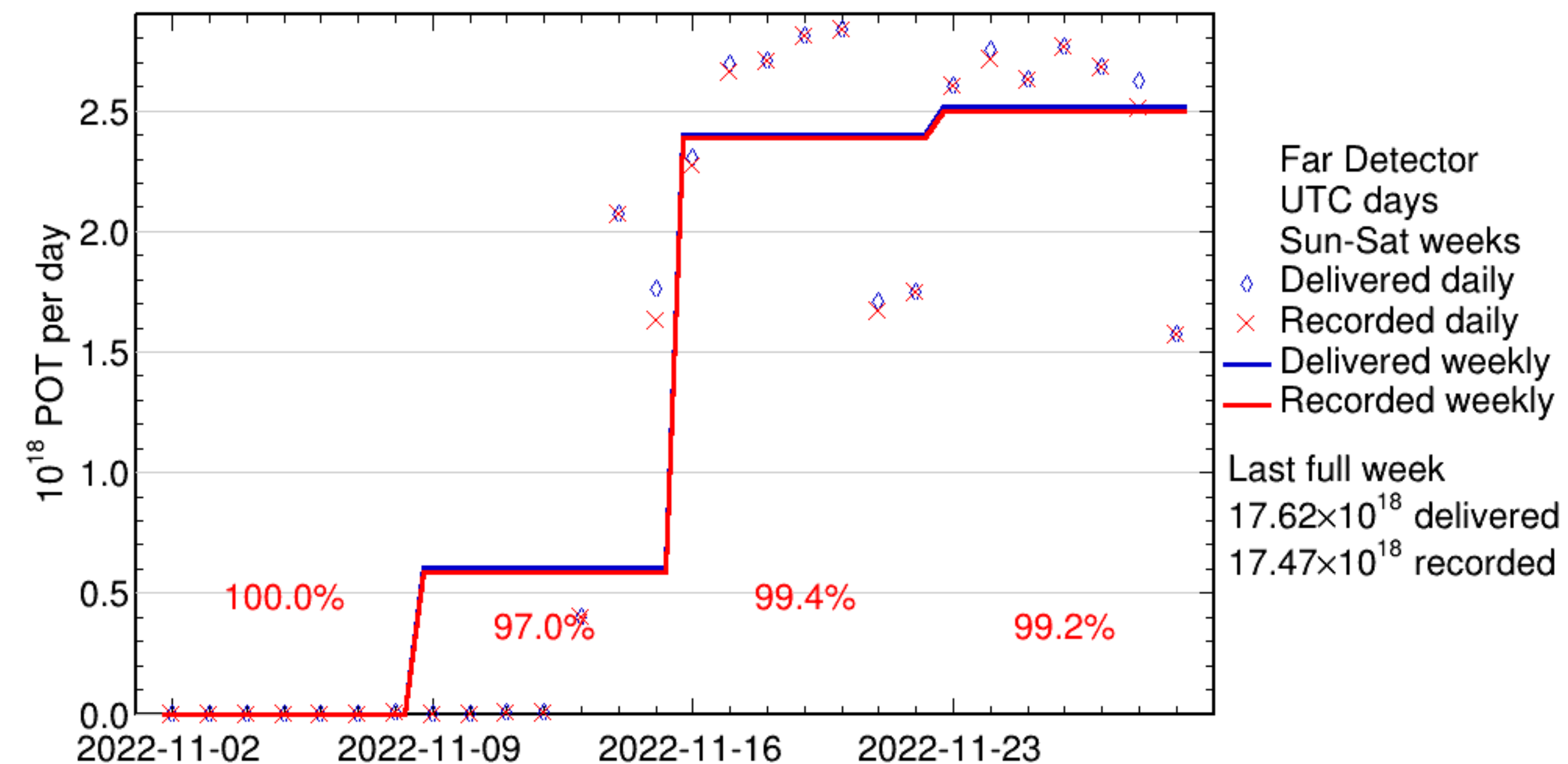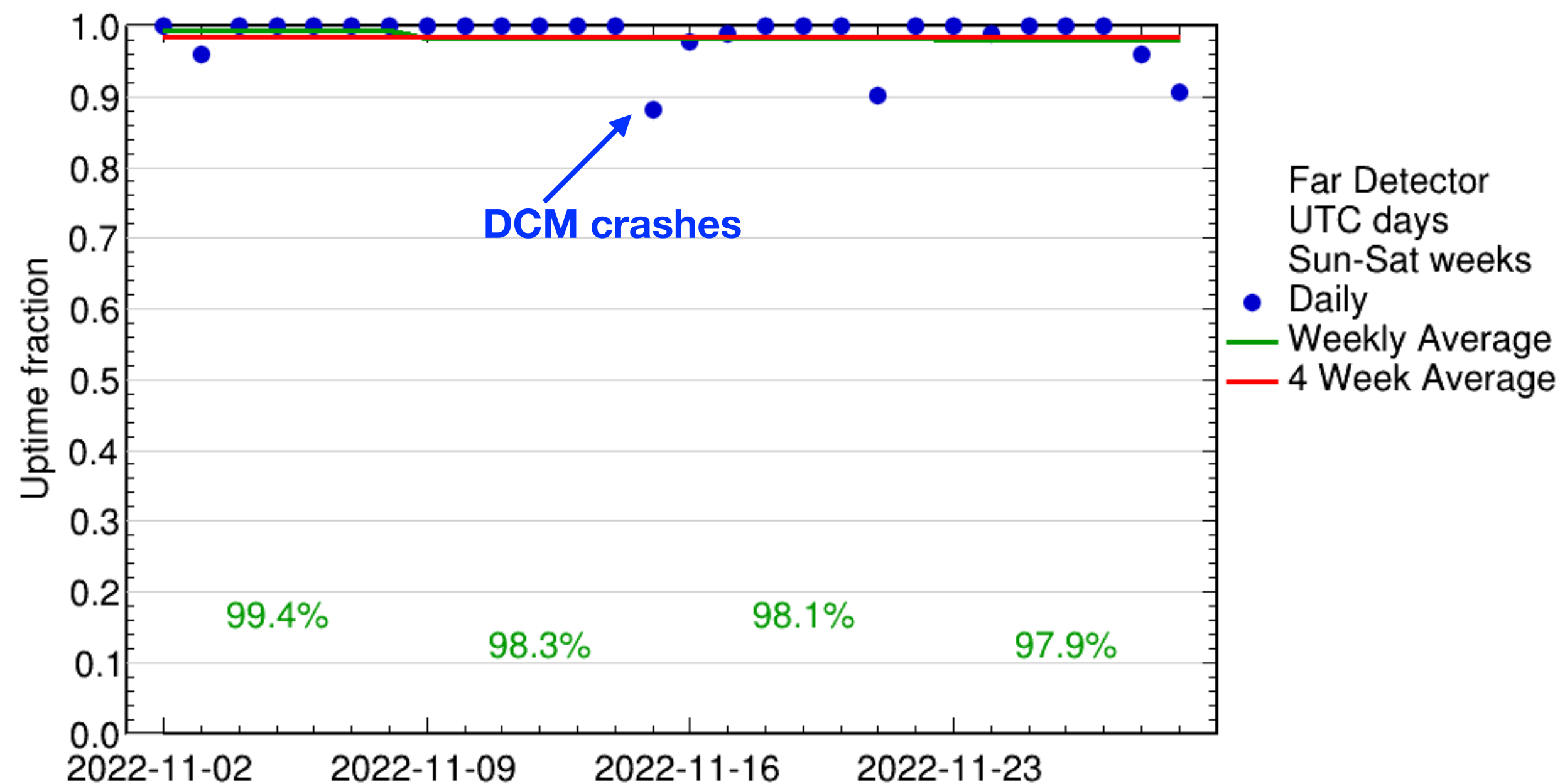
1 Dec 2022

Near Detector Summary

- 11/13: run crashed due to DCM-1-01-03 and DCM-1-02-02

- 11/20-22: ND TDU-2 disconnected

- Other minor crashes addressed promptly by experts

- Total POT recorded

  - Total: 36.57E20

  - FHC: 23.81E20, RHC: 12.76E20

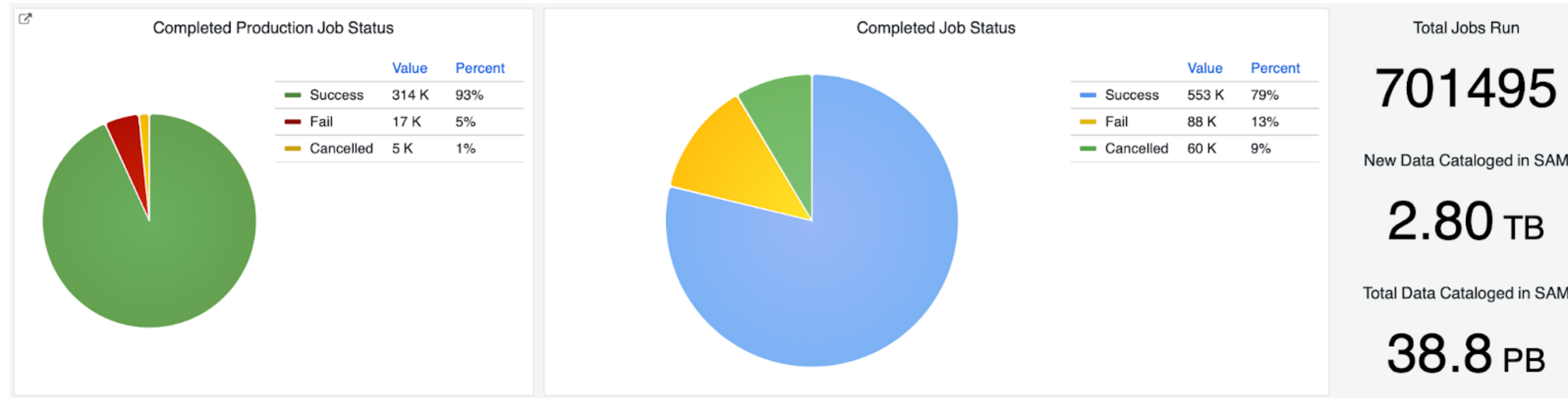- FY23 POT: 0.34E20 recorded, 0.36E20 delivered

Far Detector Summary

- 11/15: run crashed, dcm-2-13-5 disconnected (~2.5hrs)

- Other minor crashes addressed promptly by experts

- Total POT recorded

  - Total: 39.04E20 (36.16E20 14kT Equivalent)

  - FHC: 26.35E20 (23.56E20 14kT Equivalent)

  - RHC: 12.69E20

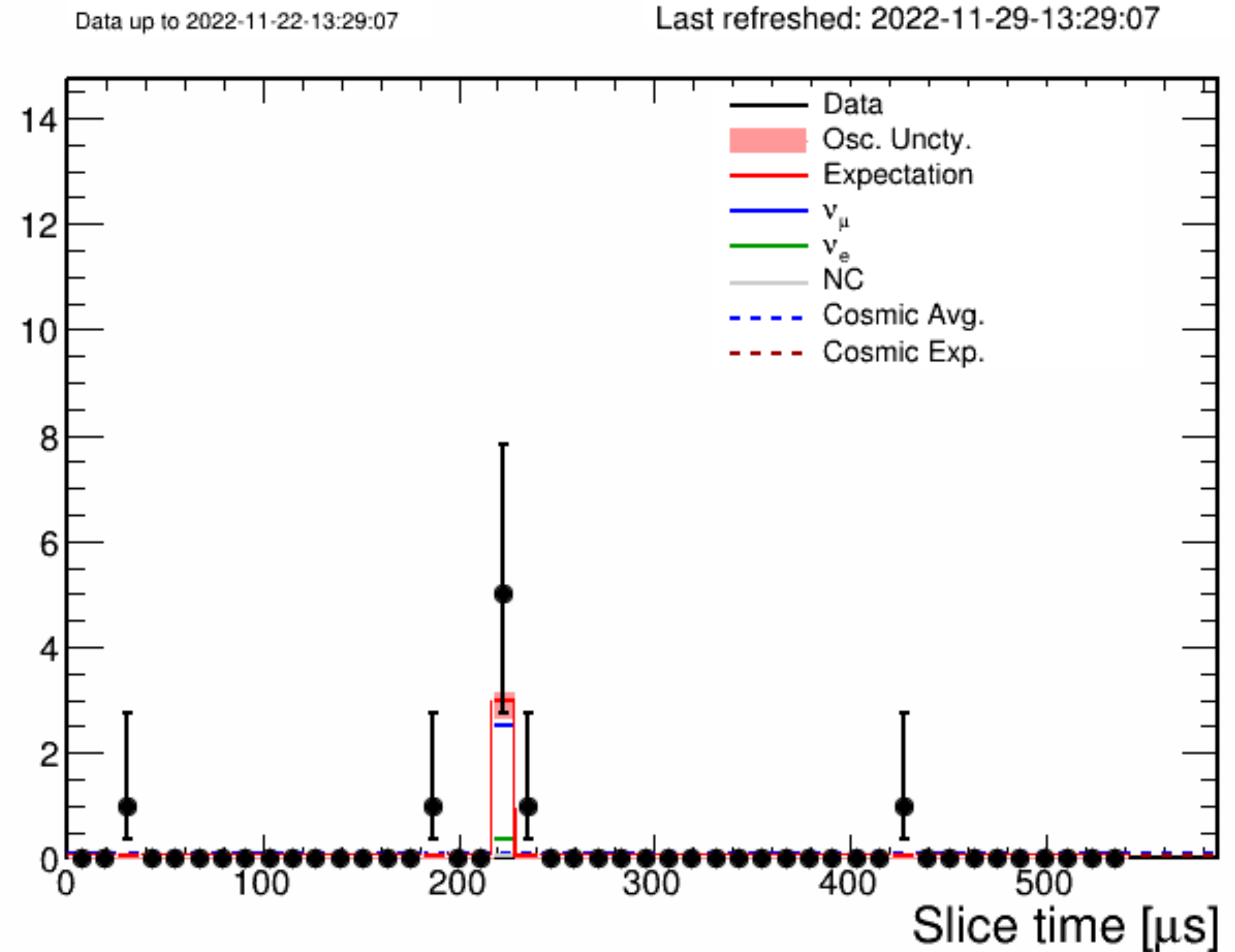- FY23 POT: 0.34E20 recorded, 0.34E20 delivered
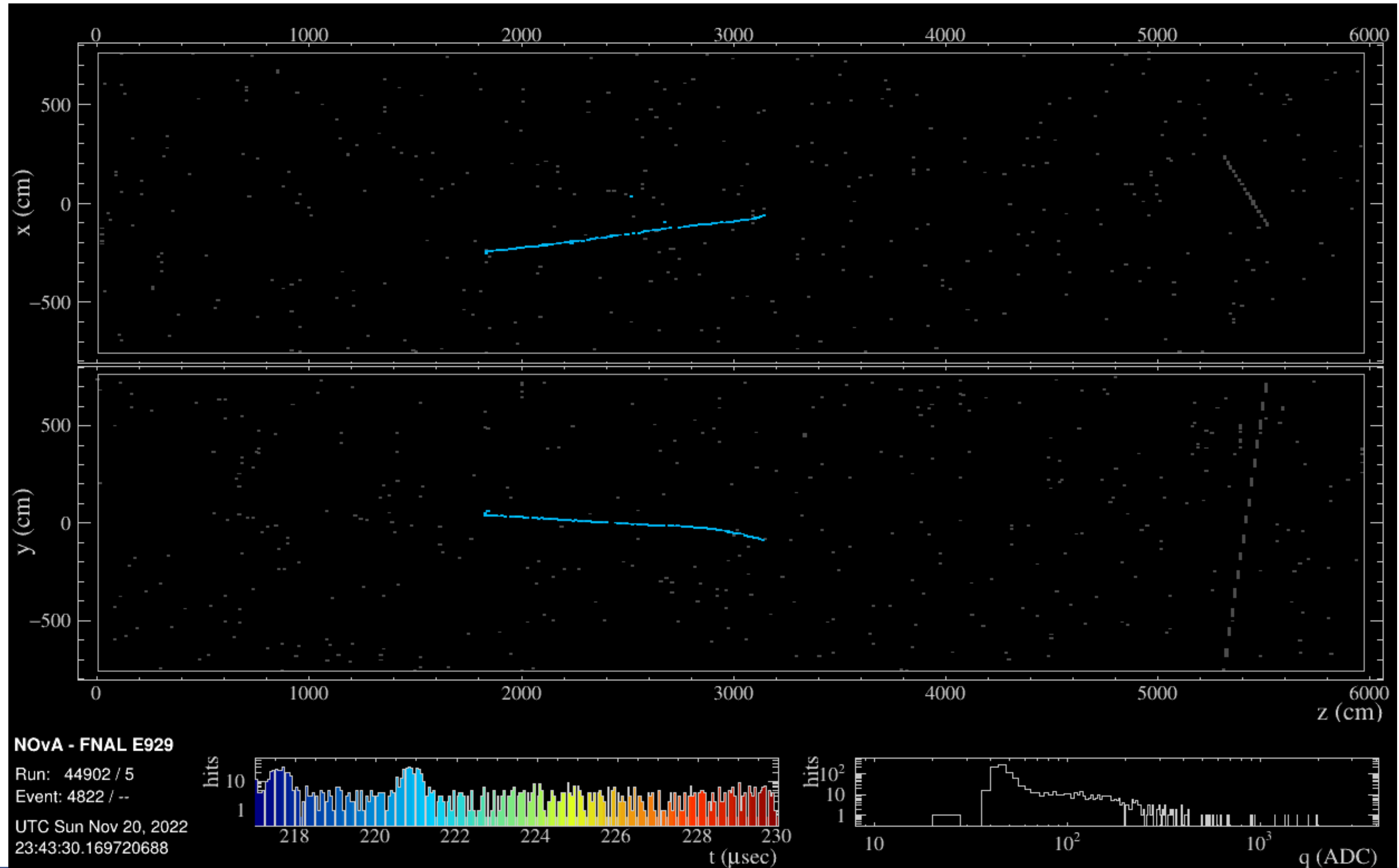
NOvA Production

- Since the last PMG meeting, NOvA ran a total of 701k jobs, of which 336k were from production

- This month mainly focussed on samples for the test beam group

  - pclist and pcliststop files for calibration

  - data CAFs for their analyses

- Prestaged several samples for the purpose of using them as inputs for sample requests coming down the pipe including a respin of the Prod5.1 FD light level systematic samples

- Freight train running smoothly but we continue to have problems with throughput at ALCF. As a result, we are still pinning files to persistent that we prestage then manually manage the transfer of files to ALCF

Prabhjot Singh

1 Dec 2022

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Timing Peak

- 5 in time candidate neutrinos

Latest Neutrino Candidate

Backup