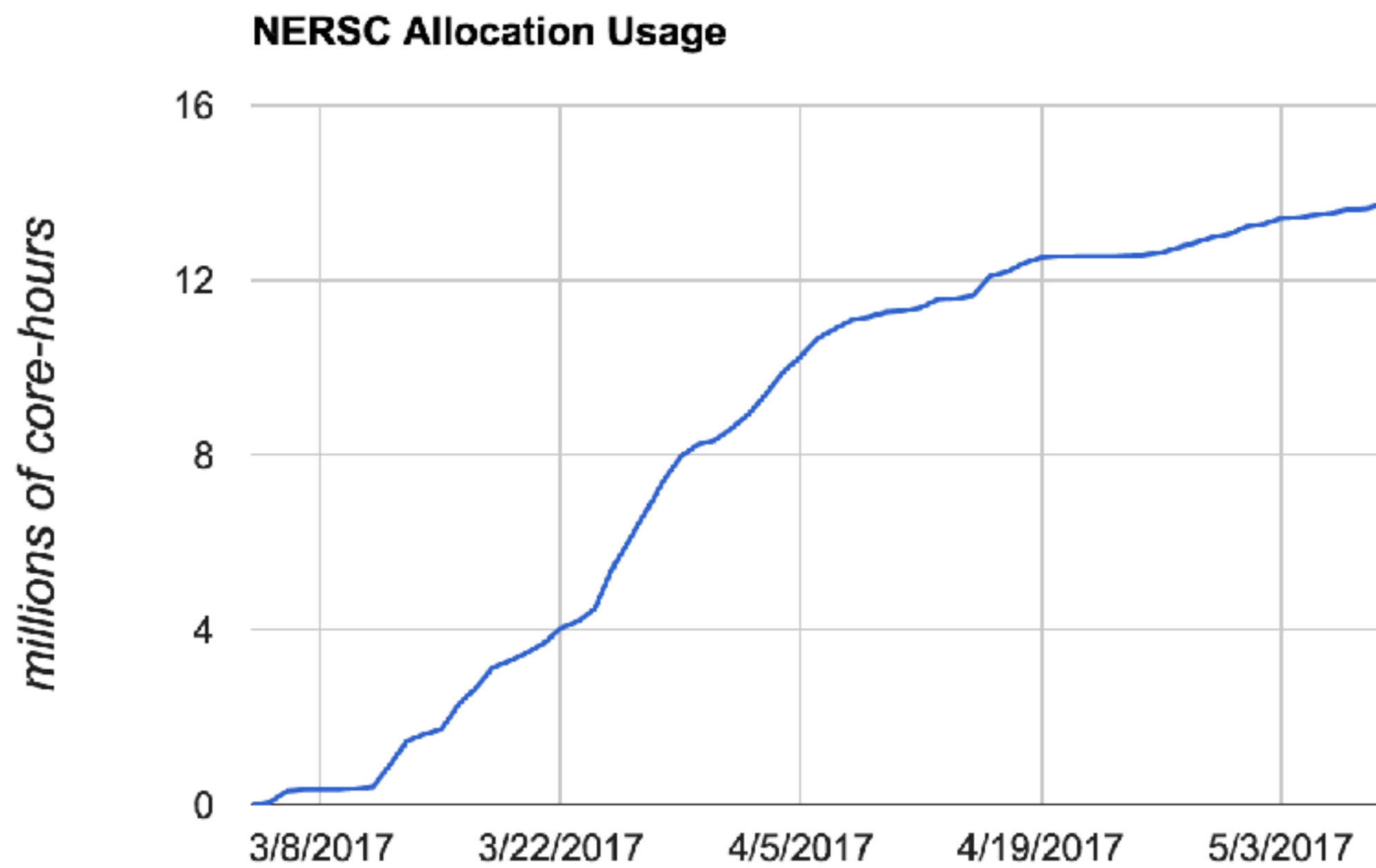
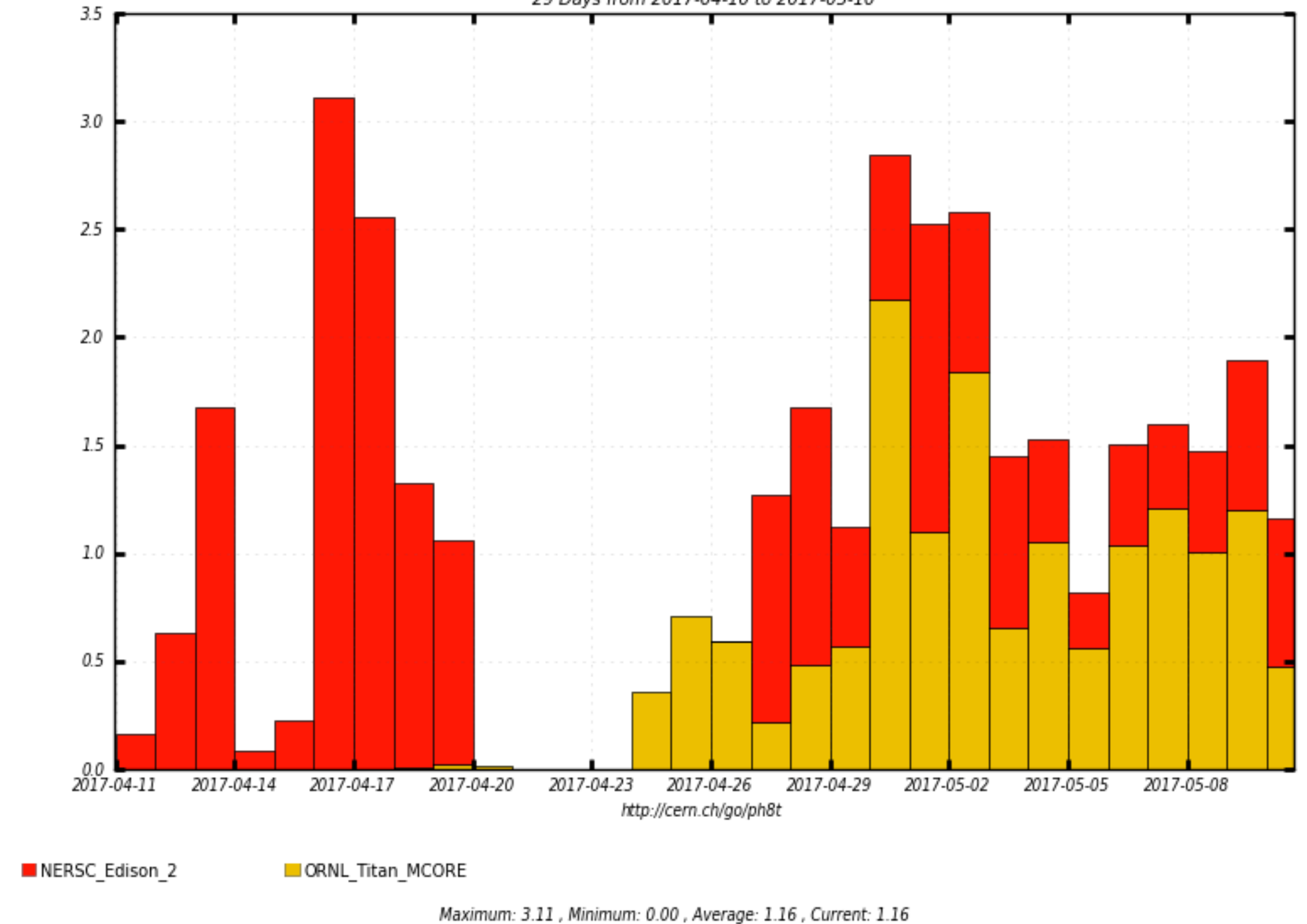


# NERSC Running Summary

- ▶ Running regular pilots
- ▶ Queues at NERSC have been slow in the past two weeks so throughput/usage is down from before.



NEvents Processed in MEvents (Million Events)  
29 Days from 2017-04-10 to 2017-05-10



# Cori Phase-2: KNL Validation

- ▶ LDAP issues fixed at NERSC
- ▶ pilot jobs can now run.
- ▶ Waiting for Validation jobs to be assigned to NERSC\_Cori\_2 so that validation of KNL can be done
- ▶ Then production jobs can commence.



Cori Phase-2 is the new Intel Xeon Phi (KNL) machine. Currently, free to use. #5 on Top500



# Theta Integration with Harvester

- ▶ Theta is the Argonne test system for Aurora (due in late 2018). It is KNL like Cori Phase 2.
- ▶ Doug is deploying Harvester on Theta without Event Service (without Yoda)
  - This means running a minimal pilot that starts up with job definition passed via command line (so no panda communication needed)
  - The panda job runs on 1 node of Theta, Doug runs many side by side in one batch job to fill more nodes
  - Can now run jobs using Harvester, but AthenaMP is slow to pass events to workers.
  - Debugging...
- ▶ Taylor is refactoring Yoda (the MPI application that runs AthenaMP on each node) to interface with Harvester.
  - Droid component is done and unit tested
  - Yoda component next to be done.
  - Then tests with Harvester on ALCF & Titan
- ▶ Using MWT2 for 'local' storage for the moment, Globus is the long-term solution.



# Weekly US HPC Facilities Meeting

- ▶ We had a preliminary meeting last Friday of people involved with the US HPC Facilities
  - <https://indico.cern.ch/event/637437/>
- ▶ We reviewed how each site is running production jobs currently
- ▶ We discuss how to unify the software deployment across sites
  - Will use Asoka's ATLASLocalRootBase with relocatable CVMFS, which also installs support software such as Rucio, EMI, XROOTD, etc., and creates a standard ATLAS environment
  - Need a sustainable way to deploy ayum releases
  - Stratum-R discussed as possible solution, will test at ALCF
- ▶ Discuss Harvester integration
  
- ▶ Titan currently using all custom install (custom pilots, pilot factory, installs) to run production.
  - Will move to ATLASLocalRootBase installs as they move to Harvester
  
- ▶ We are doodling to setup a weekly meeting for these discussions until all sites have reached production with Harvester

