The MINERνA Operations Report
All Experimenters Meeting

Howard Budd, University of Rochester

Sep 9, 2013

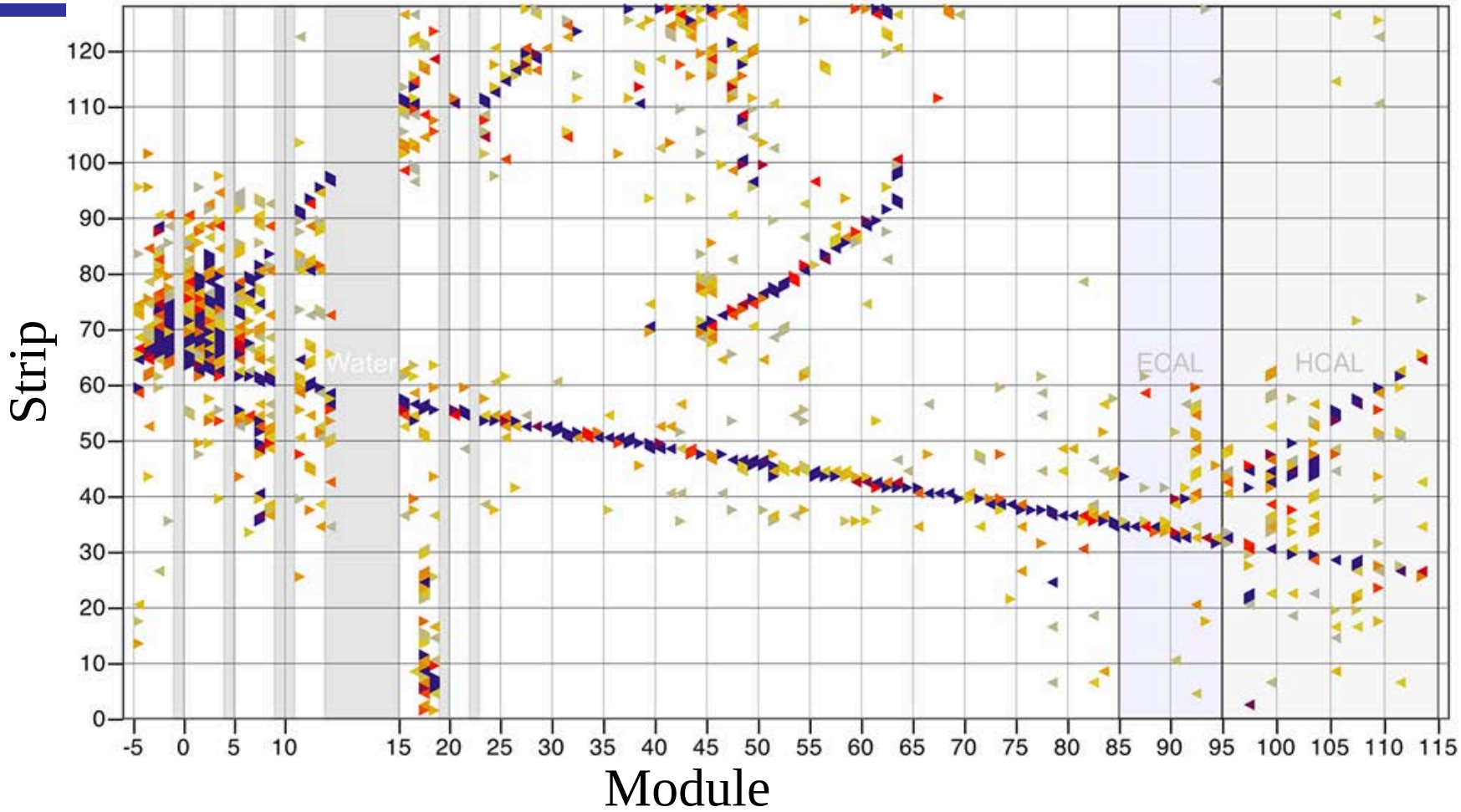
Beam Timing

- DAQ recorded beam triggers when $A9 signal established
- During target scans, saw no evidence of beam
  - Rate was low? Just got unlucky?
- Problem repeated during beam tuning. “Unlucky” no longer a candidate explanation
  - We purposely offset our timing through the whole range of hardware; still no evidence of beam
- Investigated both Master Timing Module and NuMI trigger timing; by Friday, we concluded it was timing
- Traced down to a miscommunication when updated NuMI timing was fixed for MINOS (MINERvA no longer gets timing from MINOS)
  - Thanks to Phil Adamson and Paul Rubinov!
- Since Friday 3pm, we see neutrinos; DAQ is healthy, all FEBs and PMTs operating. Now doing channel-by-channel checks

Thanks

- We would like to thank the Accelerator Division and the NuMI beam group who worked so hard in such a challenging (hot) environment to upgrade the proton source and give us neutrinos with higher energy.
- We would like to thank Boris Baldin & Cristian Gingu (PPD EED, 14th floor) for supplying the CROC-E which we need to run with the shorter cycle time
- We would like to thank Steve Chappa, Mick Cherry, Kevin Kuk, & Roberto Davila for help to preparing our detector.

Event Display



- X view, Central Detector.

MINOS Near Detector Monitoring

- MINOS is doing only the day shift
- However, since we need the MINOS detector to analyze muons, we are monitoring the Near Detector 24/7.
  - We monitor MINOS run control, slow controls, & online monitoring histograms.
  - We do the MINOS online monitoring checklist each shift to insure the MINOS near detector is operating properly.
- These are procedures we did for the LE run.