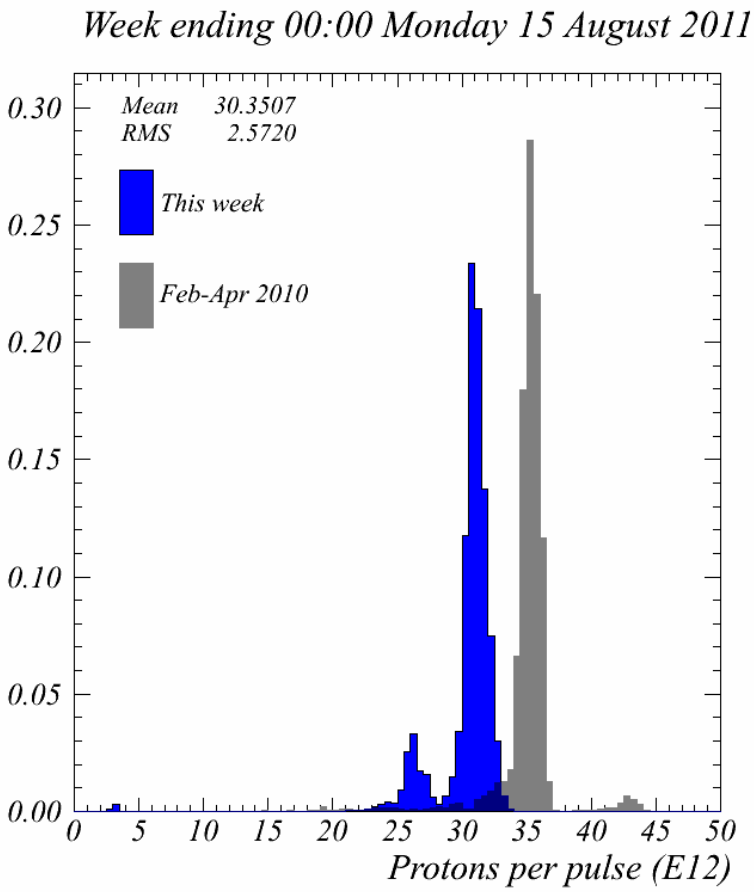
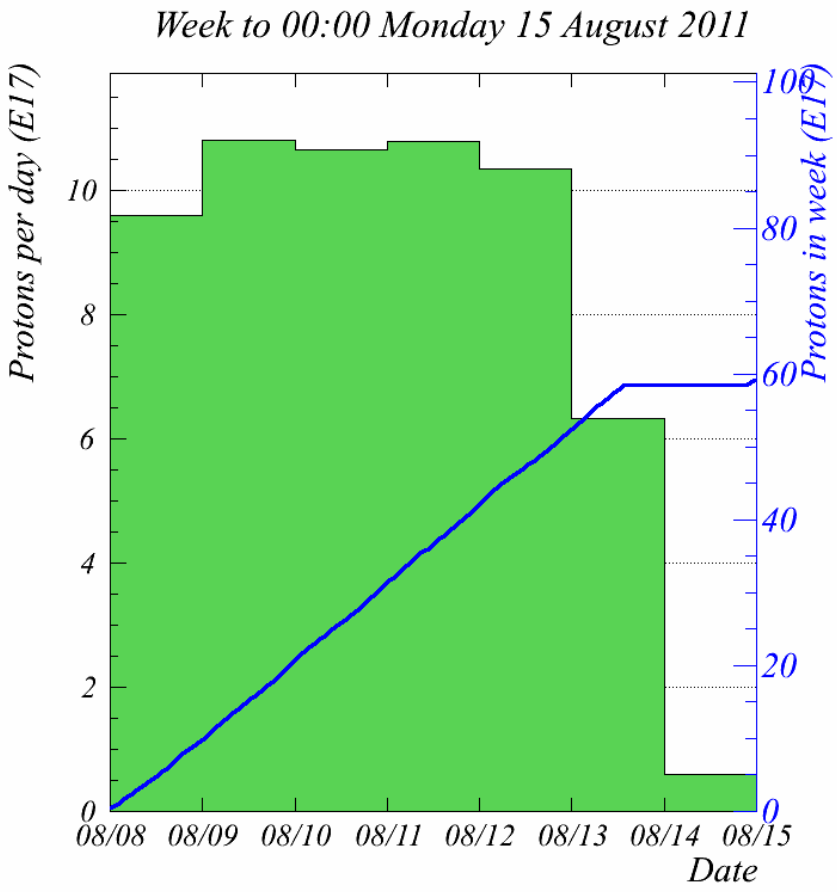
NuMI-MINOS Status Report – Benton Pahlka

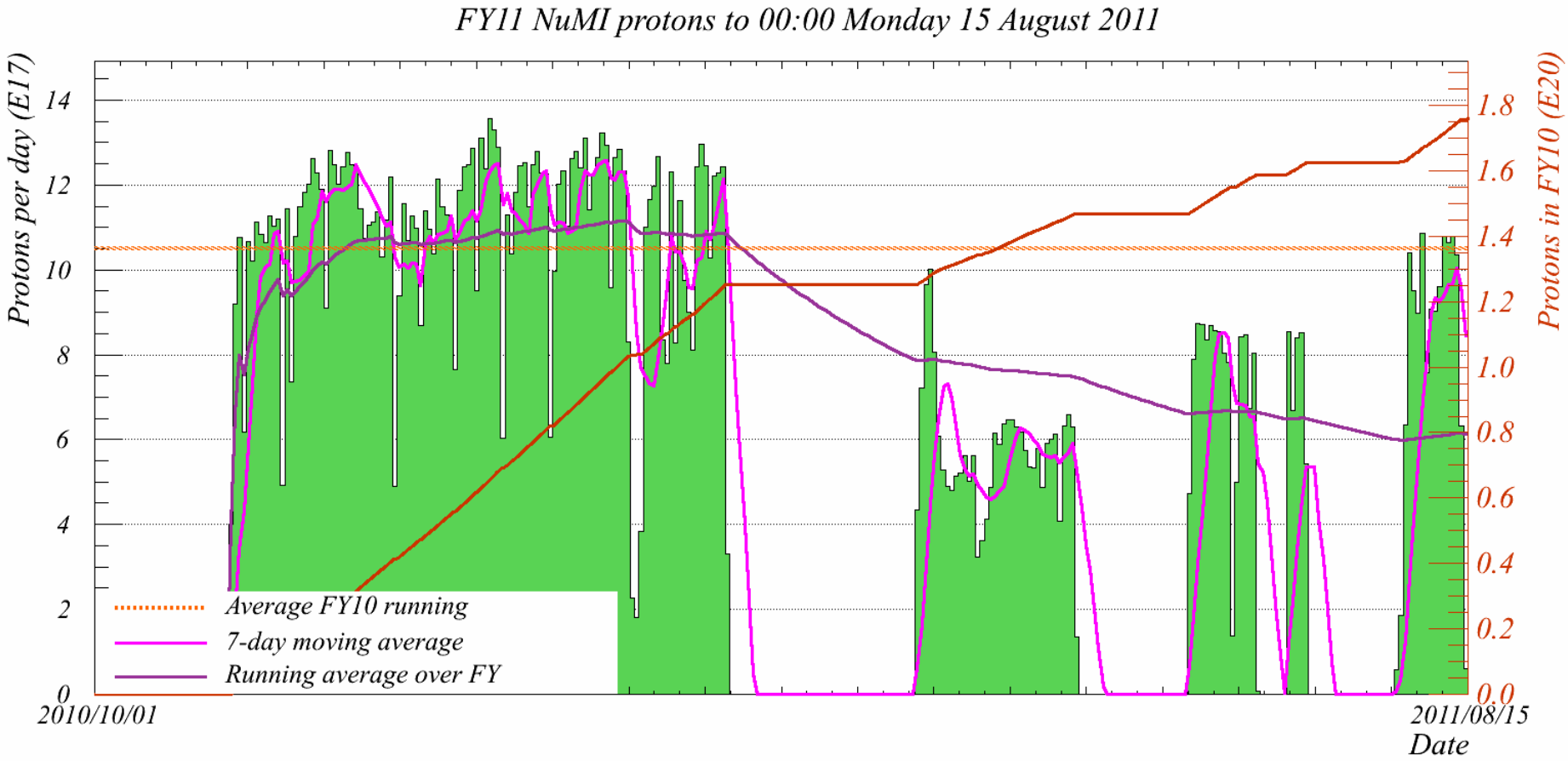
- Intensity slightly lower than normal: ~30 × 10^{12}
- 60 × 10^{17} POT taken last week in reverse horn current (anti-neutrino) mode





NuMI-MINOS Status Report

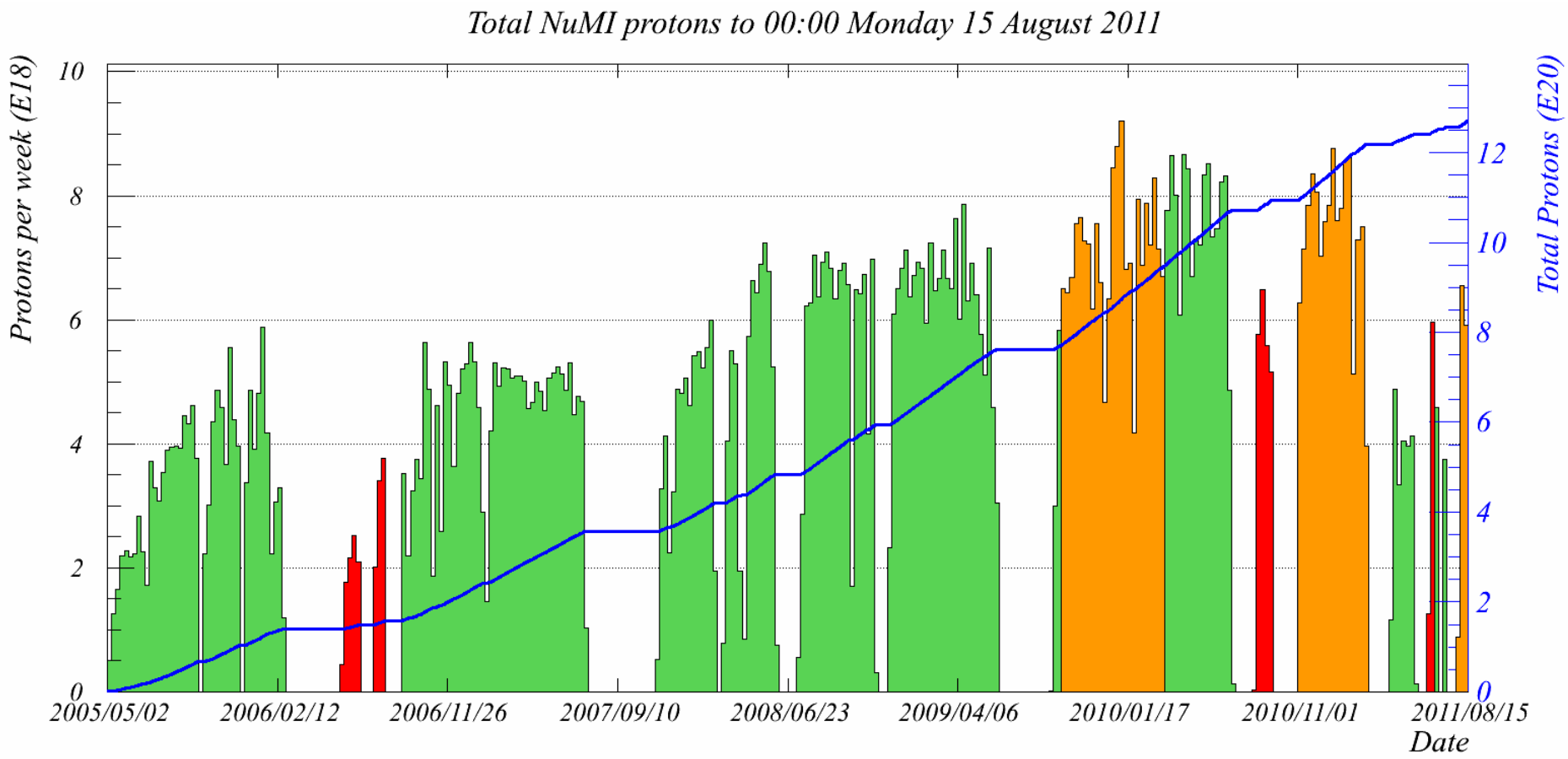
- FY11: 1.7 × 10^{20} POT



NuMI-MINOS Status Report

Protons on Target (since 2005)

- Total Protons: ~12.5 × 10^{20}



NuMI-MINOS Status Report

Live Time: 99.5% good physics data
POT Fraction: 99.4% good physics data

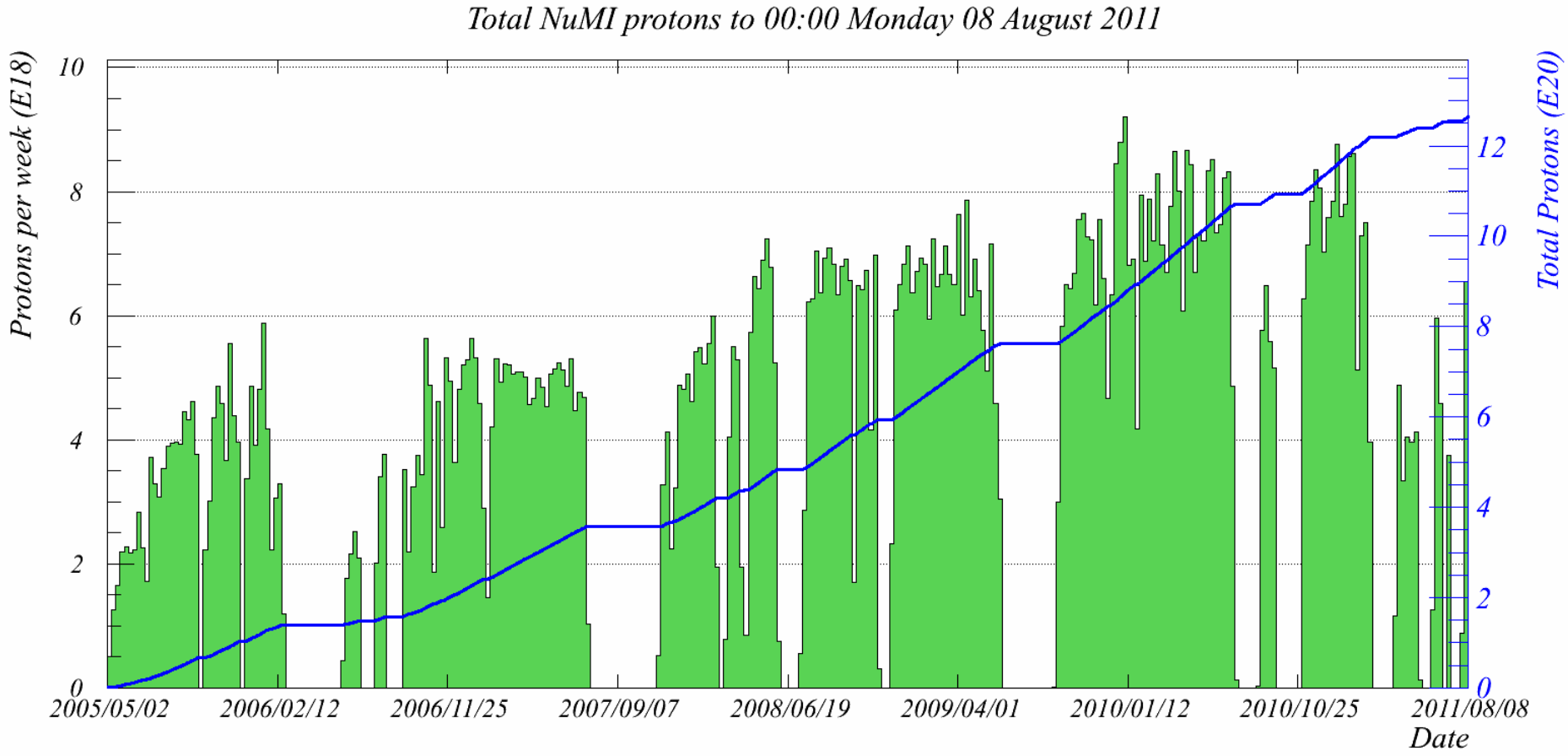
- Timing problem from last week fixed
- One minder board replaced
- Crate temperatures a bit high
- Plan to change filters this week

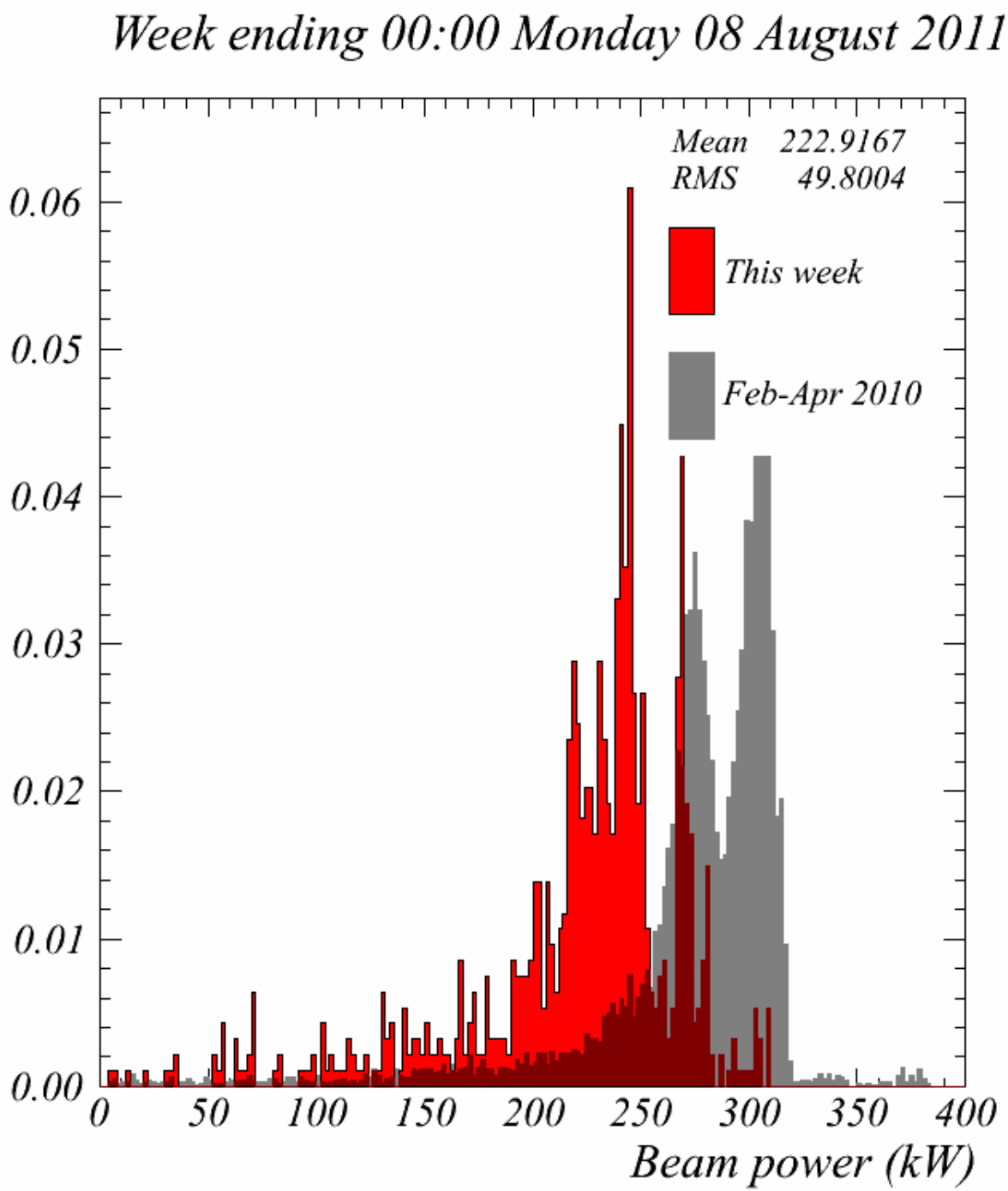
NuMI-MINOS Status Report

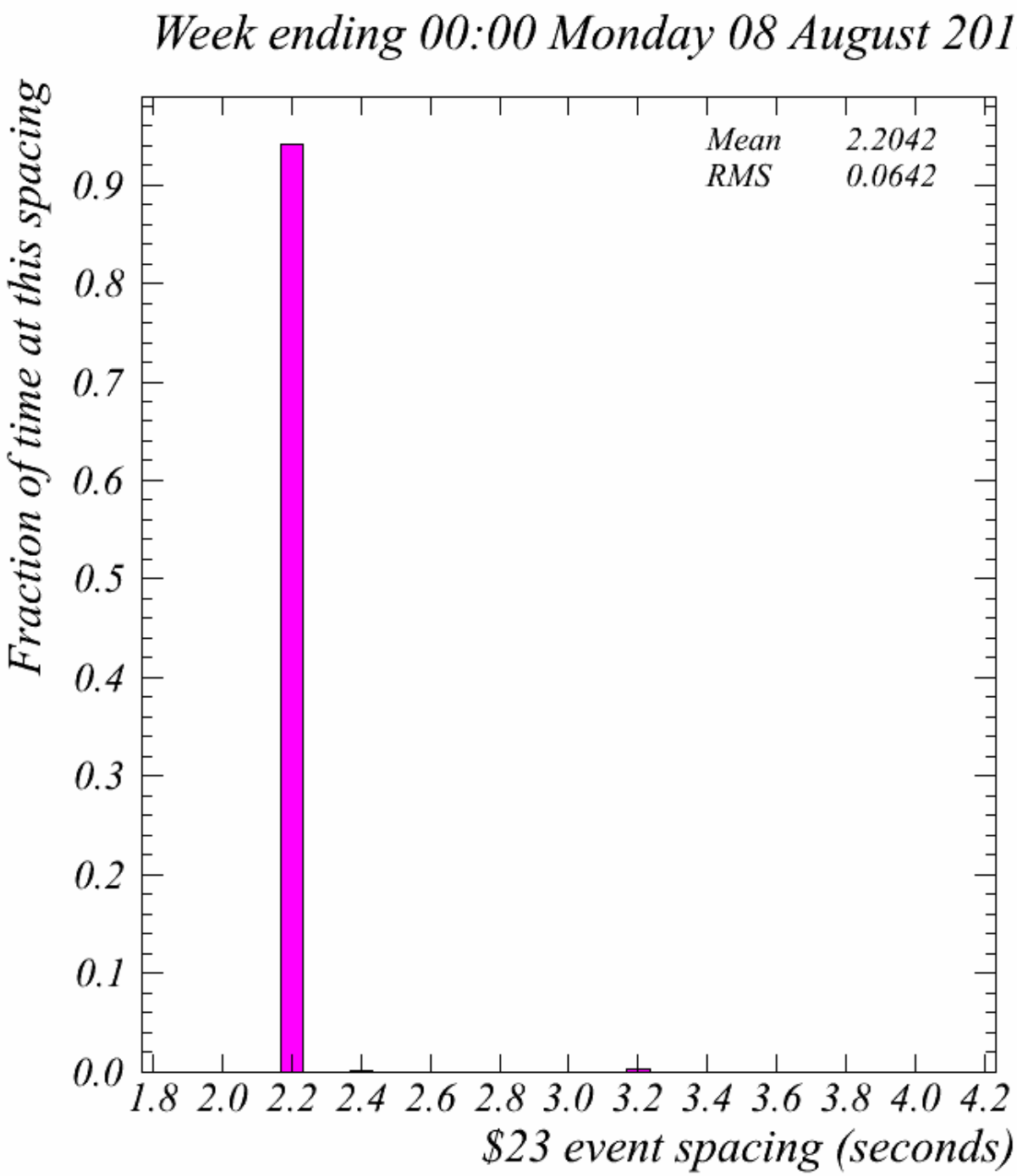
Live Time: 86.6% good physics data
POT Fraction: 91.1% good physics data

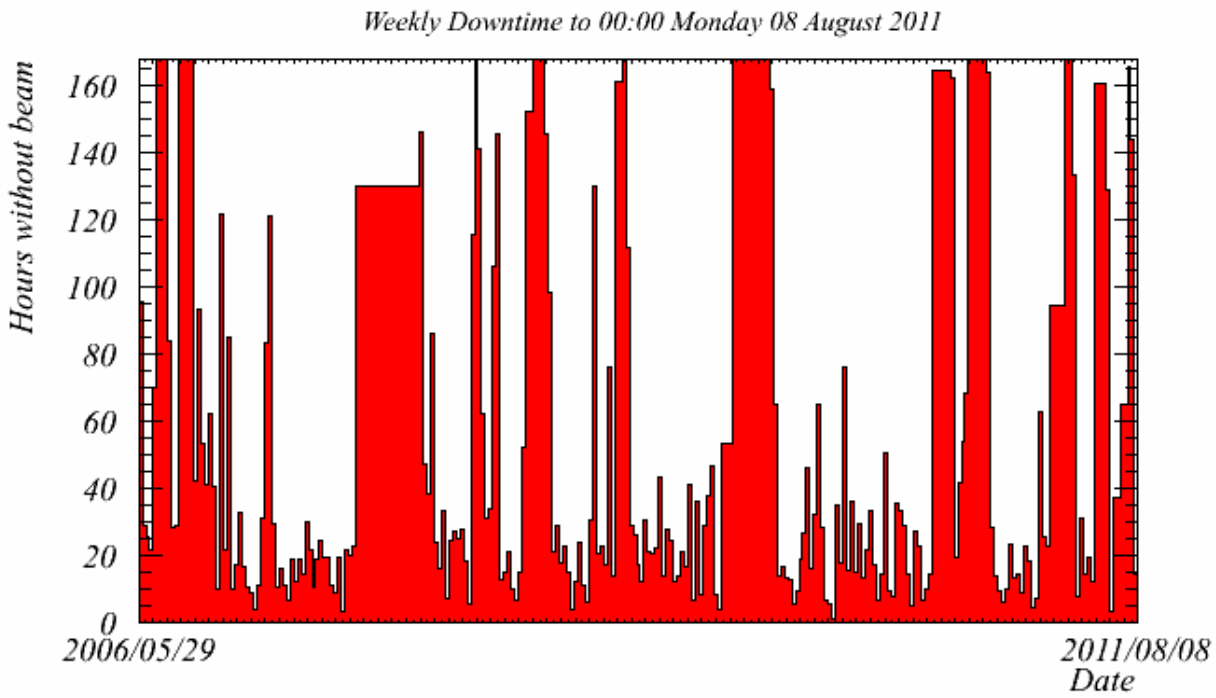
- Magnet failure on supermodule 1
- Failure during beam downtime
- Magnet now back on and operational
- Magnet problem did not affect physics data
- A few power blips induced restarts

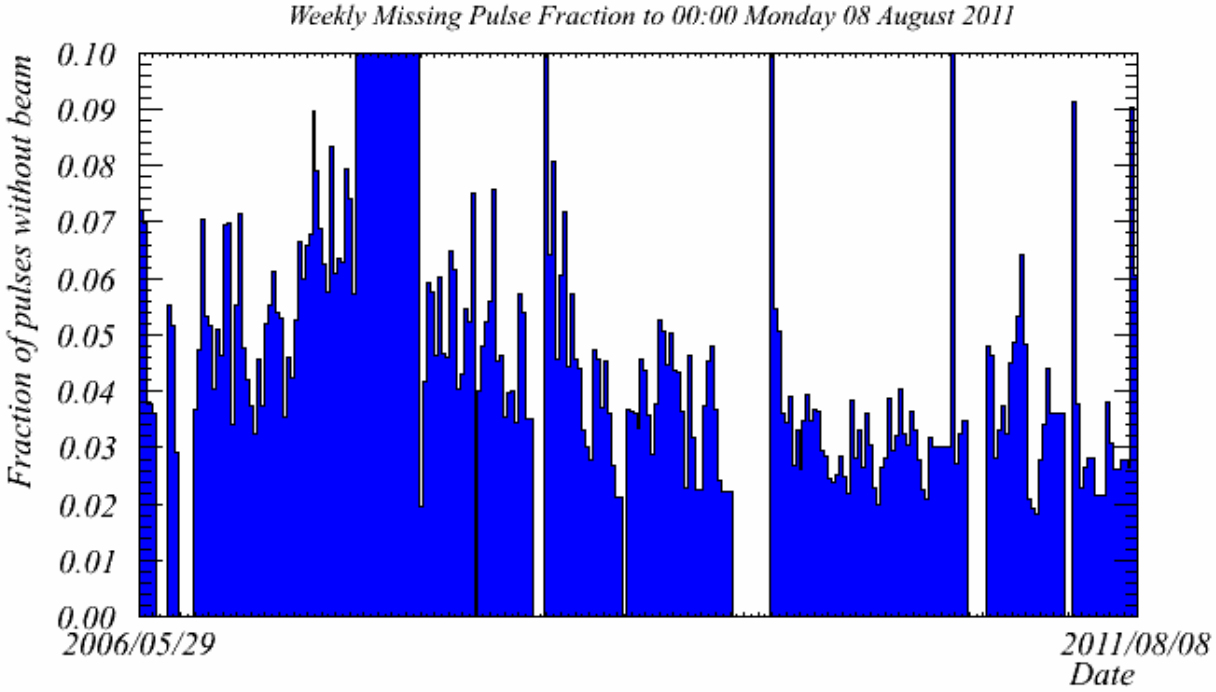
Backup


Total NuMI protons to 00:00 Monday 08 August 2011
Protons per week (E18)
Total Protons (E20)
0
2
4
6
8
10
12
2005/05/02
2006/02/12
2006/11/25
2007/09/07
2008/06/19
2009/04/01
2010/01/12
2010/10/25
2011/08/08
Date


Week ending 00:00 Monday 08 August 2011
Mean 222.9167
RMS 49.8004
This week
Feb-Apr 2010
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
50
100
150
200
250
300
350
400
Beam power (kW)


Week ending 00:00 Monday 08 August 2011
Mean 2.2042
RMS 0.0642
Fraction of time at this spacing
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2
$23 event spacing (seconds)


Weekly Downtime to 00:00 Monday 08 August 2011
Hours without beam
160
140
120
100
80
60
40
20
0
2006/05/29
2011/08/08
Date


Weekly Missing Pulse Fraction to 00:00 Monday 08 August 2011
Fraction of pulses without beam
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2006/05/29
2011/08/08
Date