D0 Status Report

Bill Lee
NIU

All Experimenters' Meeting
11 September 2006

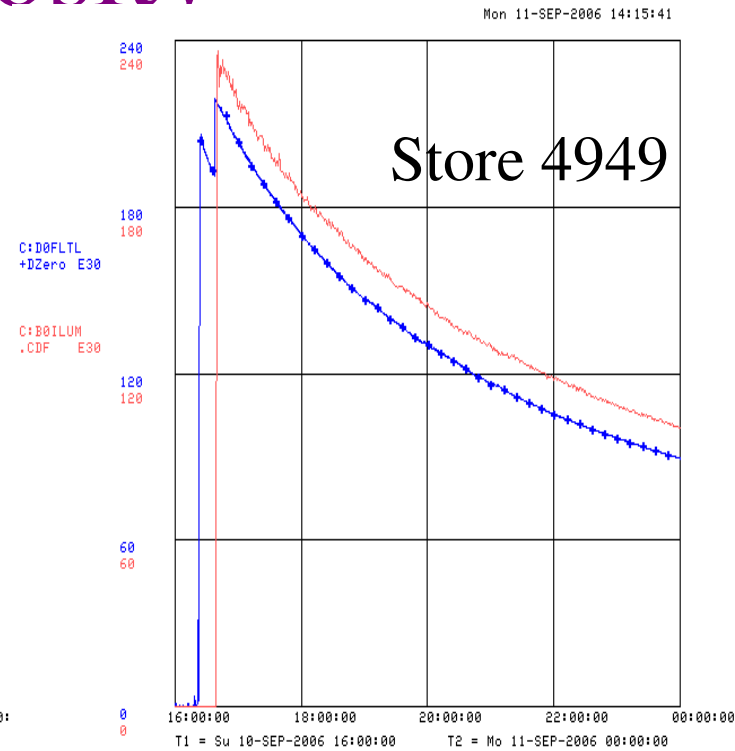
Data Taking

Day	Delivered Lum (pb^{-1})	Recorded Lum (pb^{-1})	Efficiency (%)	Comment
28 Aug	4.10	3.77	92	
29 Aug	3.87	3.18	82	High Integrated Dose Alarm. L1 Cal, muon and readout problems.
30 Aug	4.92	3.67	75	5 hours down due to trigger framework rack tripping off.
31 Aug	4.85	3.78	78	2 hour access. Trigger adjustments at beginning of record store. Readout problems continue from previous day.
1 Sep	3.51	2.94	84	2 hour access to replace SMT sequencers. Still had readout problems, Special Run
2 Sep	5.37	4.89	91	Record daily recorded Luminosity
3 Sep	4.94	4.00	81	Luminosity high voltage scans. Downtime for MUO HV trip and CAL problem.
28 Aug - 3 Sep	31.6	26.2	83	Record weekly recorded Luminosity.

Data Taking

Day	Delivered Lum (pb^{-1})	Recorded Lum (pb^{-1})	Efficiency (%)	Comment
4 Sep	4.49	3.96	88	
5 Sep	3.80	3.53	93	
6 Sep	3.60	3.21	89	
7 Sep	3.99	3.56	89	Controlled Access. Special runs. Luminosity software change
8 Sep	2.51	2.40	96	Third best daily efficiency
9 Sep	4.85	4.42	91	2nd best daily recorded luminosity
10 Sep	4.62	3.56	77	STT readout crate problems at start of store. 1 hour down for bad muon channel. Record D0 initial Luminosity, 216E30
4-10 Sep	27.9	24.6	88	2nd best weekly recorded luminosity

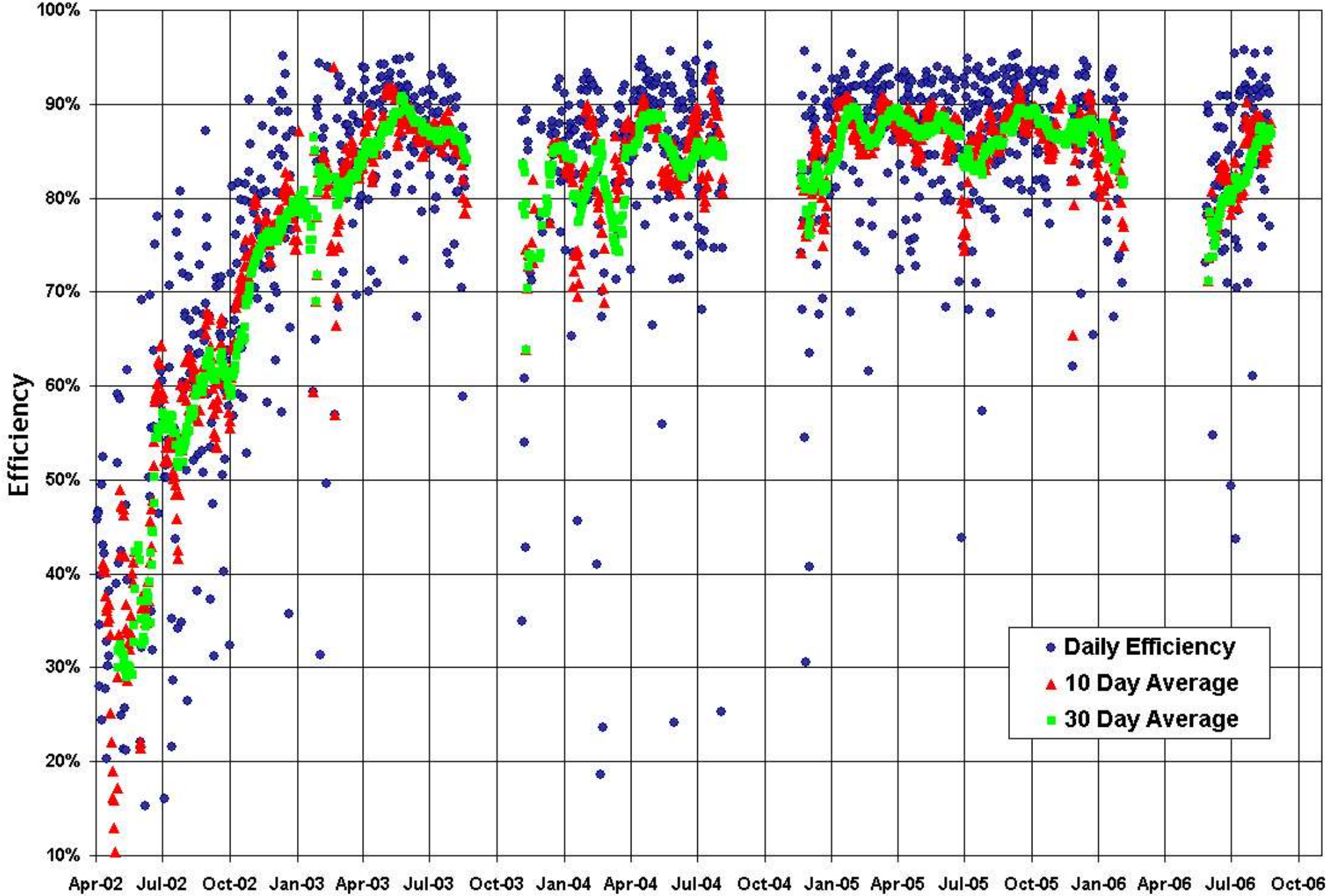
Initial Luminosity

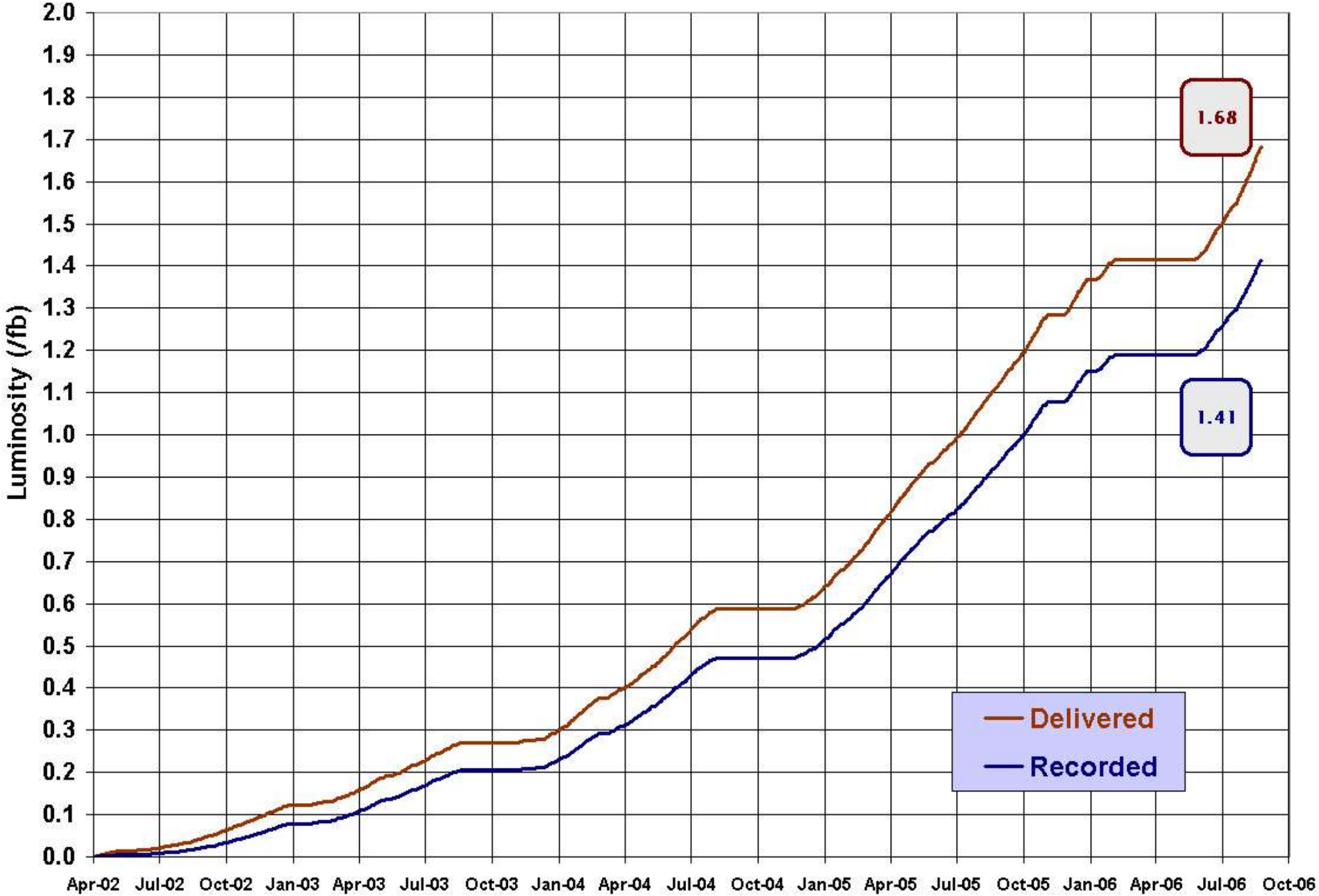


- On the 31st of August it became obvious that our luminosity system was reporting low at the highest luminosities. We implemented a firmware change to account for higher halo rates which helped, but not completely. On 7 September, we made a software change to include a background subtraction.

Daily Data Taking Efficiency

19 April 2002 - 10 September 2006



Run II Integrated Luminosity

19 April 2002 - 10 September 2006