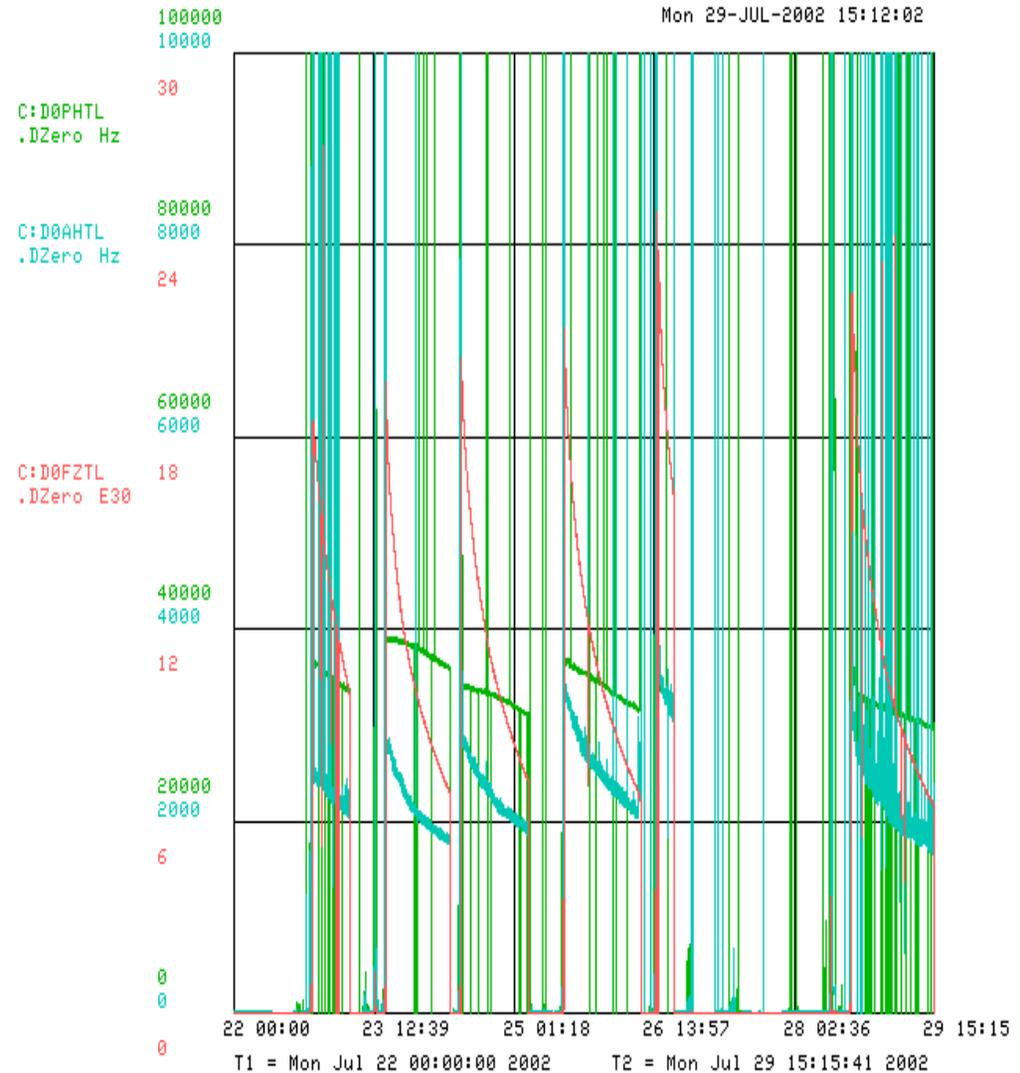
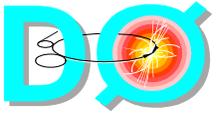


Week of July 22 to July 29 D0 Summary

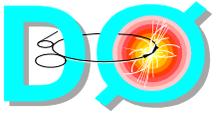
- Delivered luminosity and operating efficiency
 - ◆ Delivered: 3.1pb^{-1}
 - ◆ Live: 1.9pb^{-1} (~60%)
- Major reasons for inefficiency
 - ◆ Muon readout stability
 - ◆ CFT/SMT downloading issues
 - ◆ Implementation of new trigger list
- Halo rates are stable



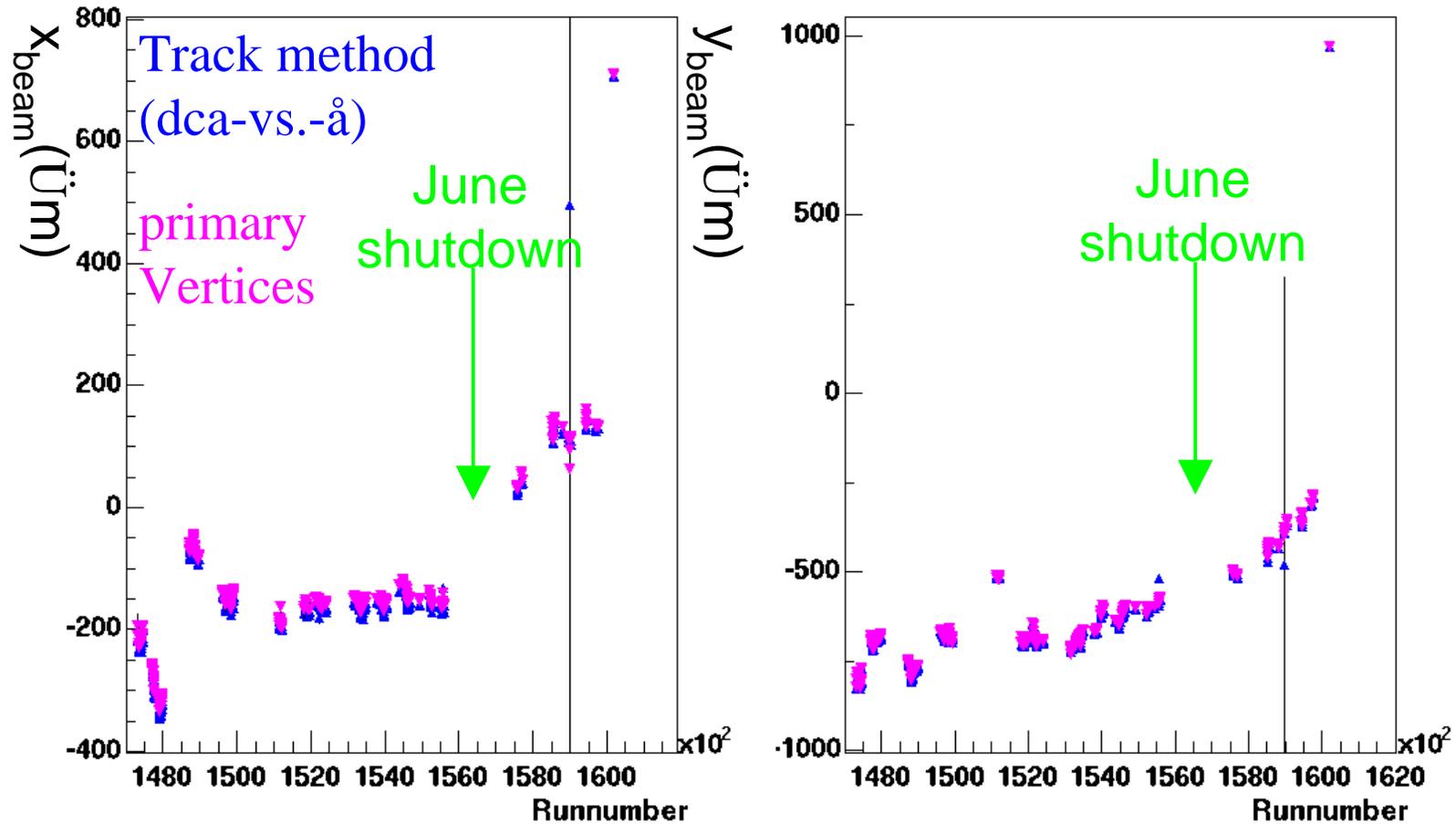


Week of July 22 to July 29

- Luminosity detector
 - ◆ Stable
- Silicon detector
 - ◆ Power supplies are running well
 - ◆ Quite time used for calibrations
 - ◆ Noises stable
- Calorimeter
 - ◆ Stable
 - ◆ Calibration of Level 1 trigger energy scale
- Muon
 - ◆ reason for synhronization errors during readout is understood
 - ▲ specs were not well understood
 - ▲ fix is already in in 1 out of 18 front-end crates - works!
 - ▲ plan to modify all cards (SRCs) during tomorrow access
- Forward proton detector
 - ◆ inserting pots during most stores
 - ◆ tunnel access is planned for tomorrow

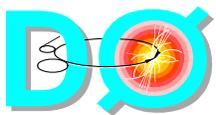


Beam spot location changed considerably on July 20
Specification is $\pm 1\text{mm}$ and spot was relatively stable
since October 2001 shutdown



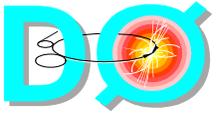
Markus Warsinsky





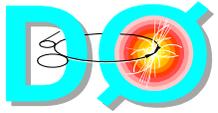
New Trigger Version

- Since Friday running new trigger version on-line
 - ◆ about 60 triggers for all physics groups as well as commissioning
 - ◆ designed for higher luminosities
 - ◆ keeping most interesting high pt physics triggers un-prescaled
 - ◆ name change
 - ▲ from cal_muon to cal_muon_tracking
 - ◆ Level 1
 - ▲ calorimeter coverage up to $\eta=2.4$
 - ◆ Level 2
 - ▲ filtering on muons, jets, em objects
 - ▲ pt cut is established for muons
 - ◆ Level 3
 - ▲ filtering on tracks - muons and electrons
- Plan to use this trigger version with minor modifications over next few months



Tomorrow Access

- Large number of jobs to be accomplished
 - ◆ Muon
 - ▲ modifications of SRCs
 - ▲ repairs to PDTs
 - ▲ installation of TLDs near VME crates power supplies
 - ◆ Calorimeter
 - ▲ power supplies ripples check
 - ▲ spare power supplies installation
 - ▲ replacement of bad cards
 - ◆ Fiber tracker
 - ▲ AFE card replacement
 - ▲ work on tracking trigger hardware/firmware
 - ◆ Operations
 - ▲ installation of He sensors
 - ▲ inspections
- Decided to use Supervised Access of a little shorter duration



Summary

- Congratulations to Beams Division with setting Tevatron luminosity record!
- No serious problems with detector, trigger, DAQ
- Planning to use tomorrow access to improve D0 trigger bandwidth
- Halo losses are stable over last week, but beam position changed considerably on July 20th
- Our major goal is to continue physics data taking with new trigger list V8.00 and continue improving operating efficiency