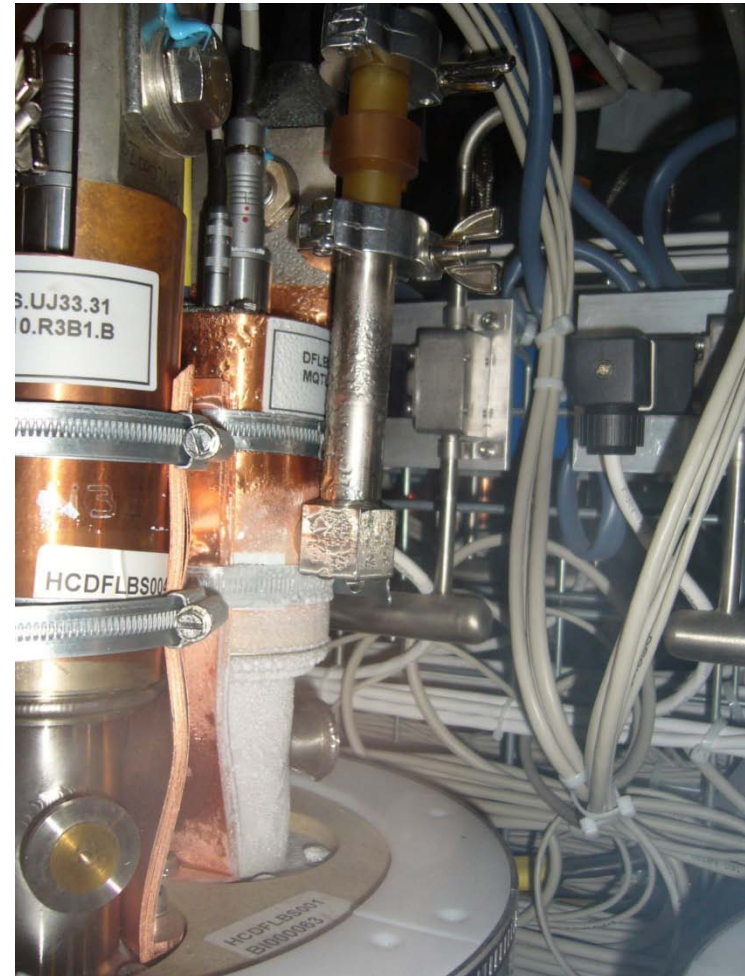- Current lead of RQTL9.R3B1 is wet and frozen due to wrong regulation of the cryo-valve. OK from A. Siemko to continue operation given the low current (<14 A @ 3.5TeV) ➔ no pre-cycle and limitation to 20 A.
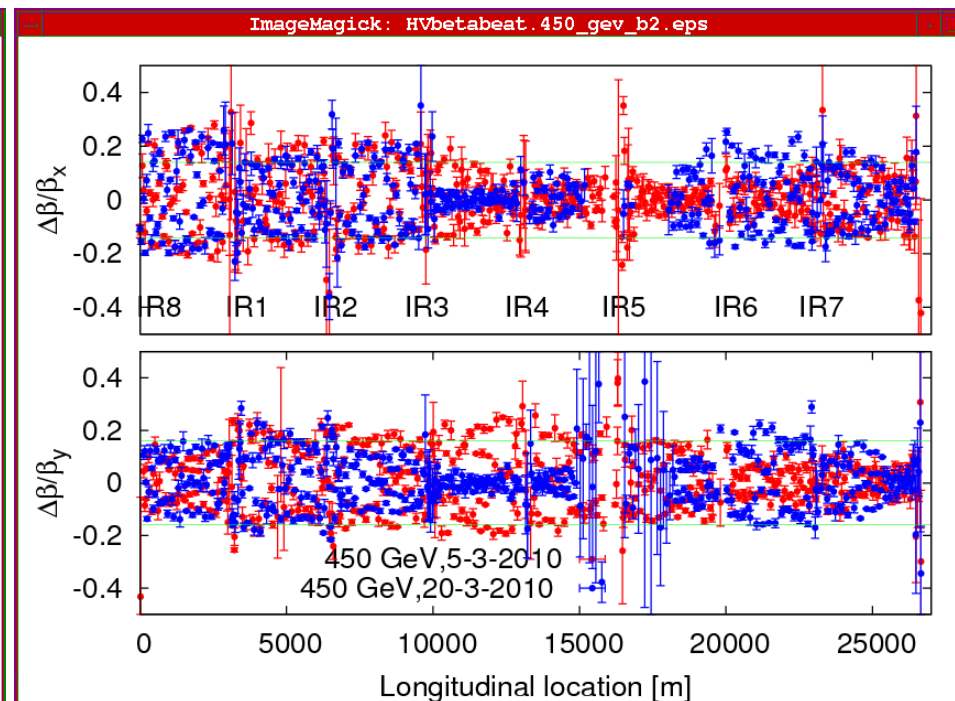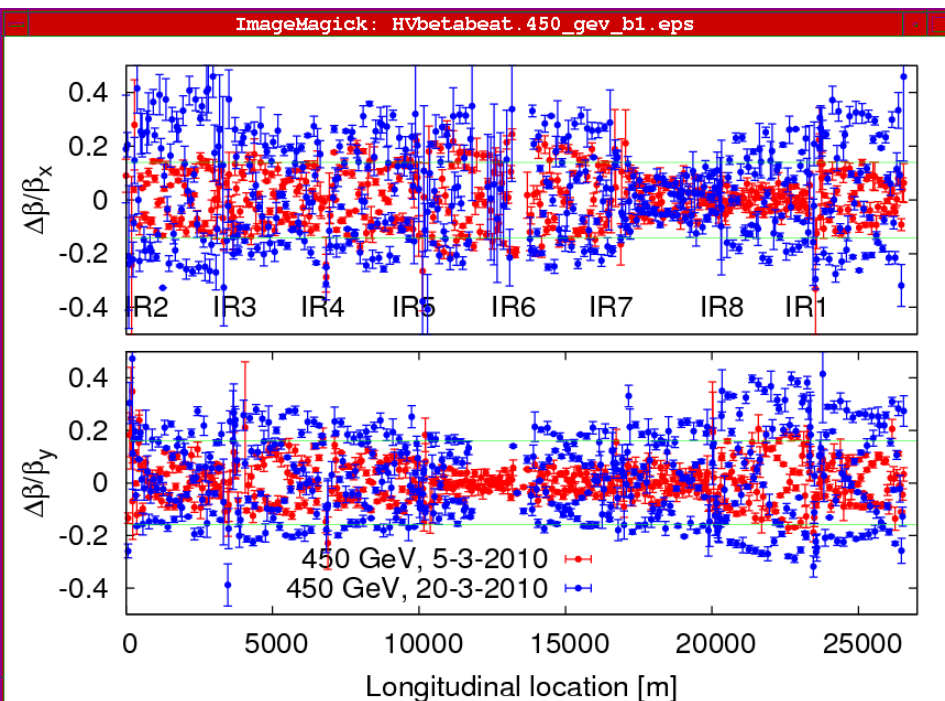
- Protection in case of dump with 14 out of 15 kickers:
  - Verification of the knob to simulate this situation is required

- Setting-up of TI2 collimators completed (TI8 was already done)

- Calibration of the LSS6 interlocked BPMs only started (to be continued)

- β-beating measurement @ 450 GeV. Change observed on beam 1 as compared to 5/3.
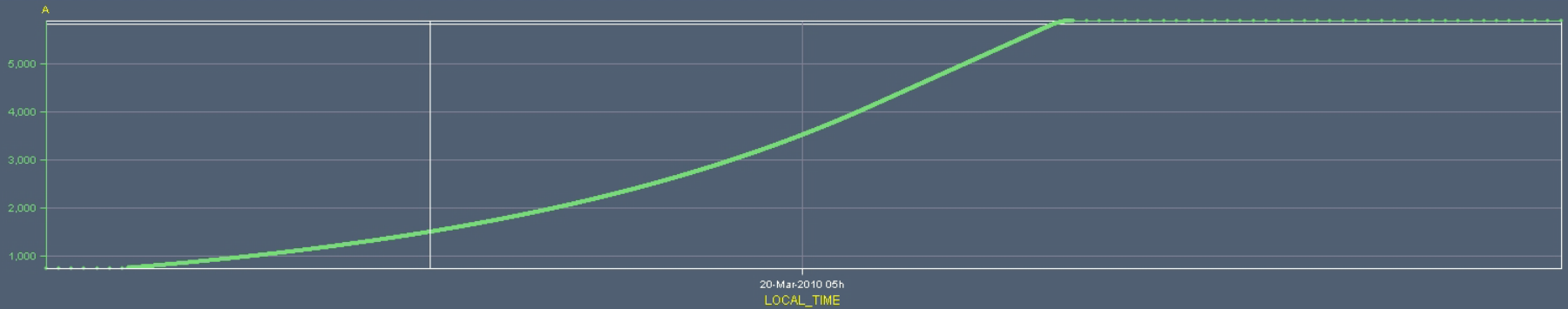
Beam 1   Beam 2

- Another ramp to 3.5 TeV but with reduced ramp time (parabolic-linear-parabolic instead of parabolic-exponential-linear-parabolic) reduction by 27 min
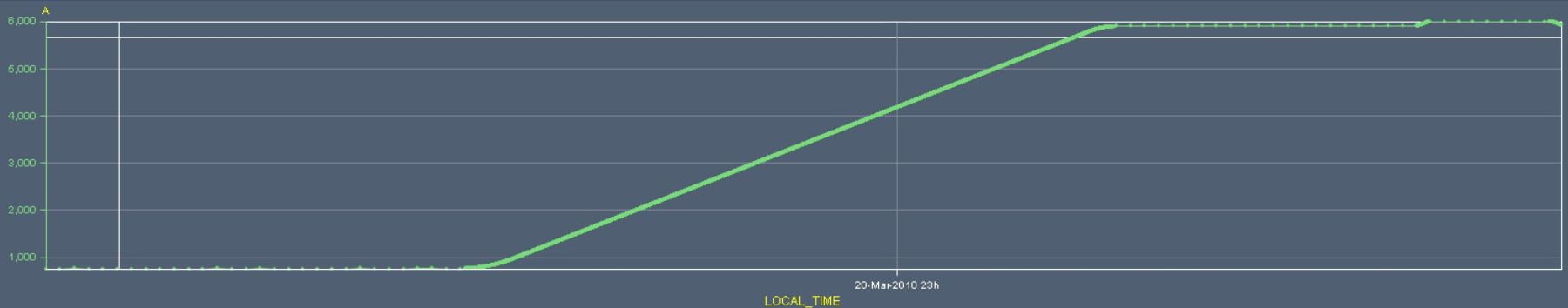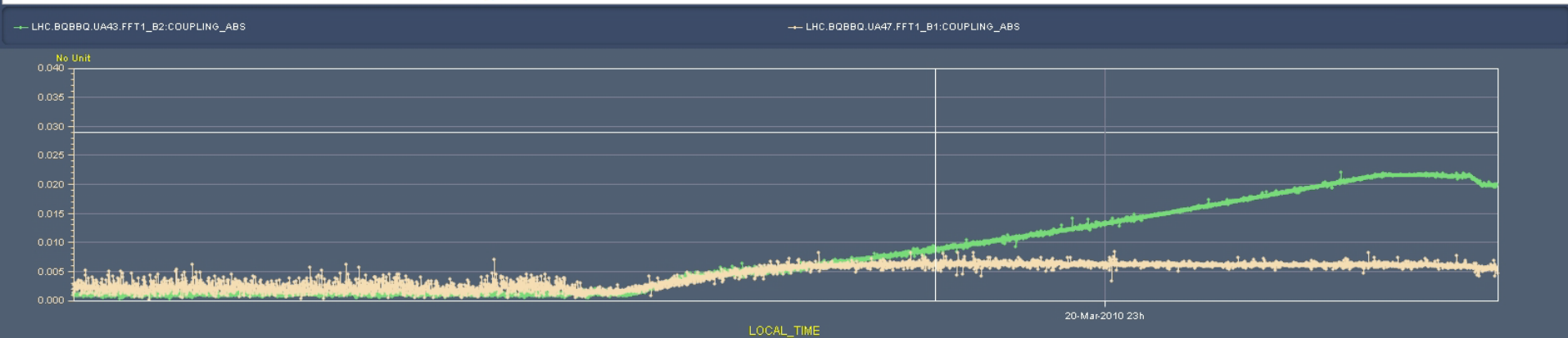
- Reduction of the coupling by a factor 2 at the end of the ramp. Not enough time to correct it. Still some work to do…

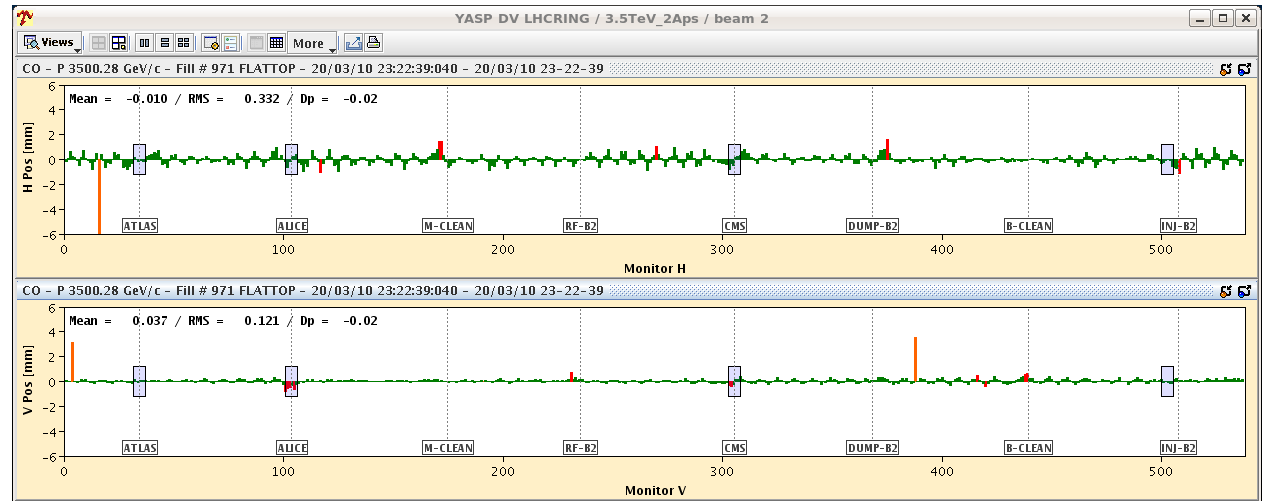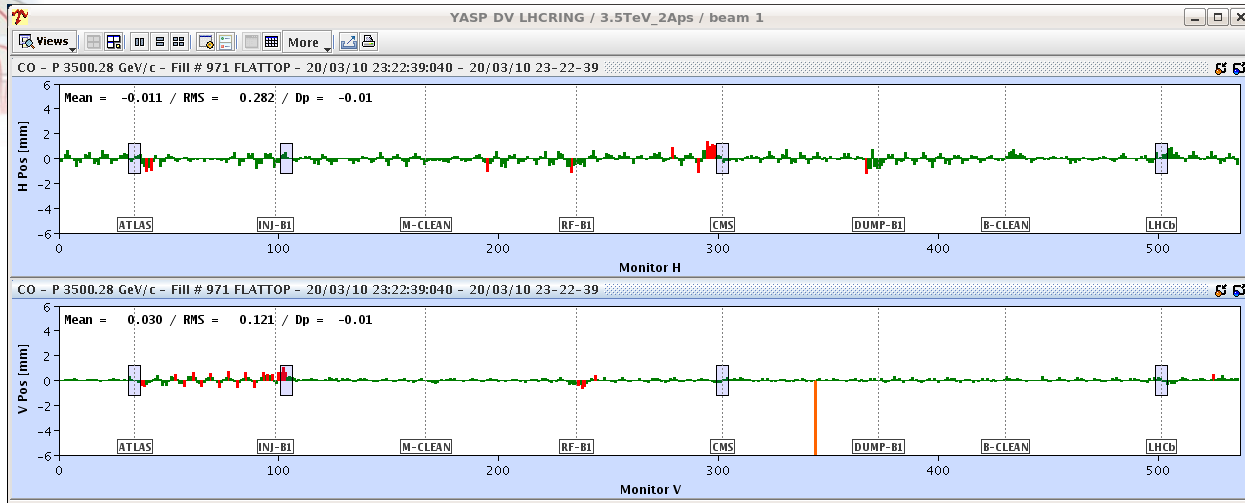Timeseries Chart between 2010-03-20 03:30:00 and 2010-03-20 05:30:00 (LOCAL_TIME)

LHC.BQBBQ.UA43.FFT1_B2:COUPLING_ABS
LHC.BQBBQ.UA47.FFT1_B1:COUPLING_ABS
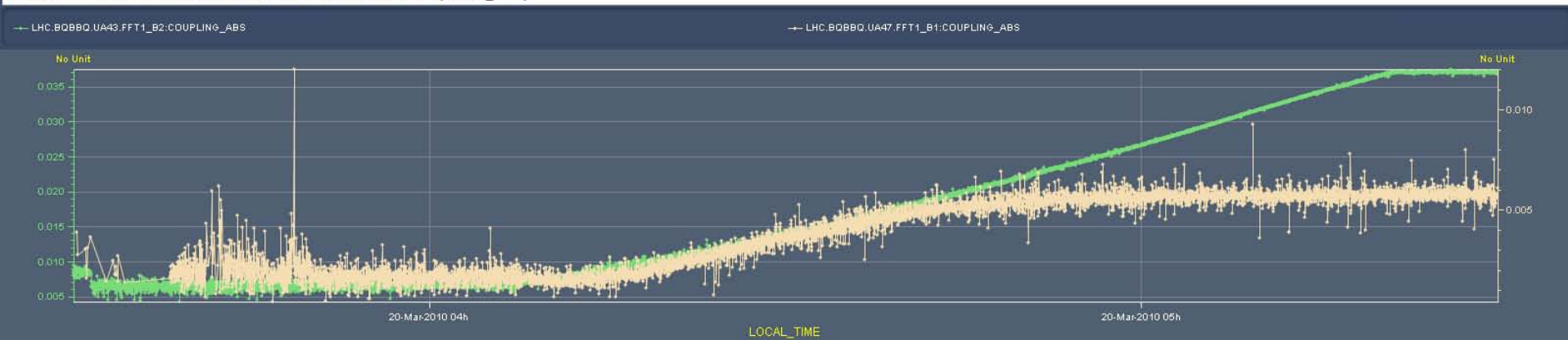
Timeseries Chart between 2010-03-20 22:00:00 and 2010-03-20 23:59:00 (LOCAL_TIME)

LHC.BQBBQ.UA43.FFT1_B2:COUPLING_ABS
LHC.BQBBQ.UA47.FFT1_B1:COUPLING_ABS

Orbit correction

Saturday 20/3/2010

- Trip of the trim quadrupoles due to a large dI/dt requested by the tune feedback ~7 mins after the end of the ramp ➔ to be followed-up. Intercepted by the PIC, first channel to trigger. No BLM above threshold.

- 03:00 – 3:40 : Another ramp at 3.5 TeV performed
  - Beam dump immediately at the end of the ramp RQTF12, RQTF23 and RQTF34 tripped

- 06:10 – 07:00 : Another ramp at 3.5 TeV
  - Tune feedback stopped on B2 at 2 TeV, left ON for B1
  - And finally stopped for B1 at 3.5 TeV
  - Performed orbit correction – first pass – rms < 0.2 mm
  - Coupling B2 reduced
  - Started to put back the tunes of B2 onto nominal

- 08:00 : Lost cryo (temperature sensor) and tripped triplet L5

- Re-establish 450 GeV
- Feed-forward tune feedback trims
- Re-establish 450 GeV beta beat corrections and level of beta beat
- Ramp to 3.5 TeV – check beam parameters and correct – including beta beat
- Protection device and collimator setting-up at 3.5 TeV

- Night shift: Damper setting up at 450 GeV