Technical Status "CS1"

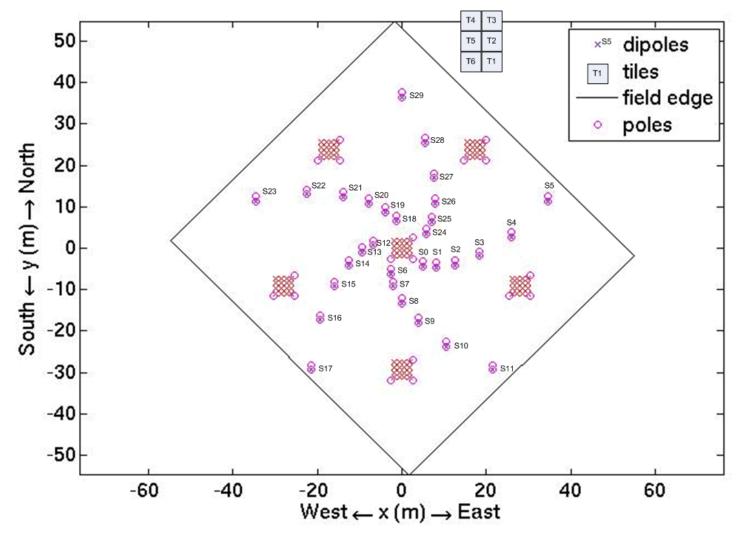


HBA status

- 24 Single dipoles are placed (S6..S29)
 6 dipoles (S0 ...S5) next week
 Frontends need to be tested and assembled (WSRT)
 Later repair of the poor single dipoles (switches)
- All 6 tiles are working
 - Only 3 modems are placed
 - Rest is waiting for some components

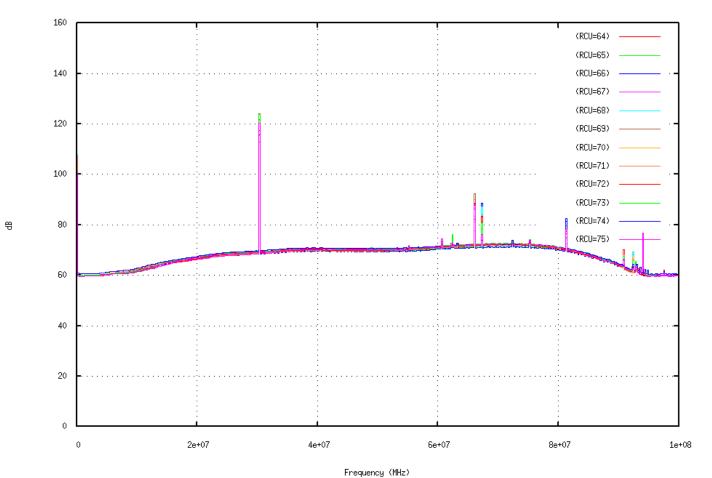


HBA status









1180594747 - Thu, 31 May 2007 06:59:07 +0000



1.55863e+07, 148.301

RSP III status

- 36 RSP III boards in assembly
 - ✤ First prototype boards are tested and ok (Gijs)
 - ⊕ Upgrade of one station (CS-001c) with 4 * RSP III
 - RSP II boards used in CS-001t (Dwingeloo testsystem)



Crosscorr dips test (75 ohm load LBL, RCUO)

Subband 288 BFgain=32000

Subband 288 BFgain=8000

CS008, RCU0 20070524₁35419_hst_n0X.dat, load at input, tracking on 5.27962,0.706858 CS008, RCU0 20070530,74257, st,0X.dat, load at input, tracking on 5.27962,0.706858 71.15 59.2 71.1 59 71.05 58.8 71 6.85 bower (dB) Power (dB) 70.95 58.4 58.2 70.9 58 70.85 57.8 70.8└─ 0 0.5 2 2.5 1 1.5 3 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Time (s) Time (s) x 10⁴

 \oplus BFgain factor 4 higher = 12 dB (20 log 4)

Dip/peaks from 1 dB to 0.2 dB

Dip/peaks are beamformer phase dependent



Antenna 8 (RCU 24,25) on CS001c

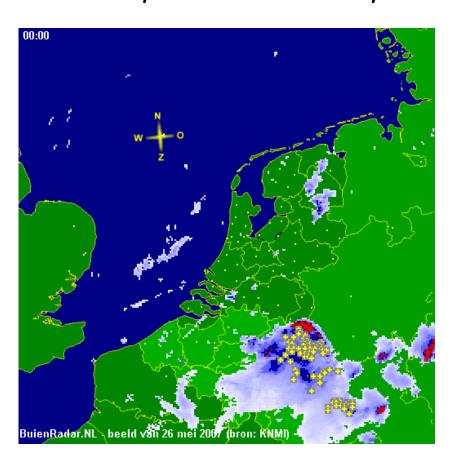
- plastic sleeves around dipole wires & tension cord [new]

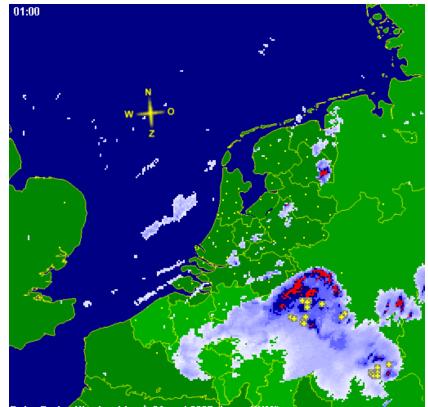




Rain results

- 26 May 2007 00:00 very light rainfall (0-10mm/hour)
- 26 May 2007 01:00 heavy rainfall (10-100mm/hour)



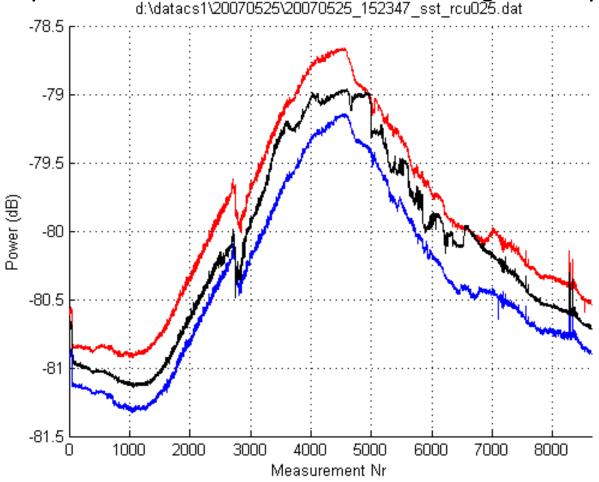


BuienRadar.NL , beeld van 26 mei 2007 (bron: KNMI)



Rain results (24 hours measurement)

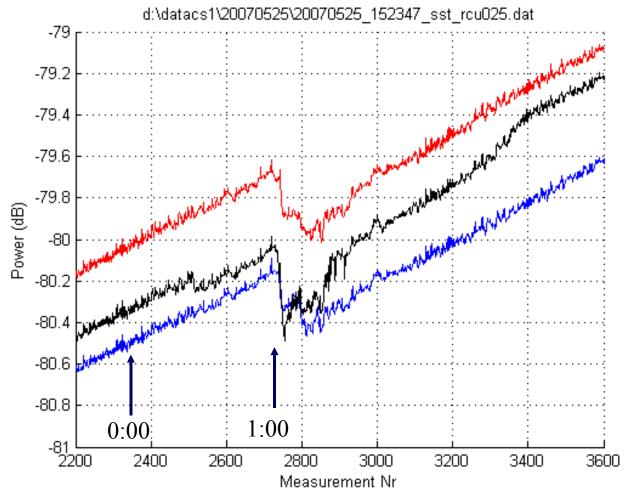
- black: original LBA
- blue: plastic sleeves around dipole wires & tension cord [new]
- red: plastic sleeves around tension cord (gain compensation) d:\datacs1\20070525\20070525_152347_sst_rcu025.dat





Rain results (24 hours measurement)

- black: original LBA
- blue: plastic sleeves around dipole wires & tension cord [new]
- red: plastic sleeves around tension cord





Rain results

- blue: plastic sleeves around dipole wires & tension cord [new]
- red: plastic sleeves around tension cord (gain compensation -0.5dB)

