

- CS-1 status
- LBA modification for rain
- Results rain, lightning, sun?

23 May 2007

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CS-1 status

- HBA antenna field site preparation (CS-10)
 - Single dipoles are placed on 5 arms
 - Today all 6 tiles will be placed (1.6° field)
- All 48 LBA dipoles checked on CS-10
 - F-connector 4N torque
- Signal pad Ant 15-x on CS-16 missing
 - Cable was damaged and replaced

HBA tile placement



Defective cable CS-16



Antenna 5 (RCU 0,1)

- plastic pipe around tension cord
- plastic pipe around EDPM spring



Antenna 6 (RCU 8,9)

- plastic pipe only around tension cord



Antenna 7 (RCU 16,17)

- plastic sleeve only around tension cord

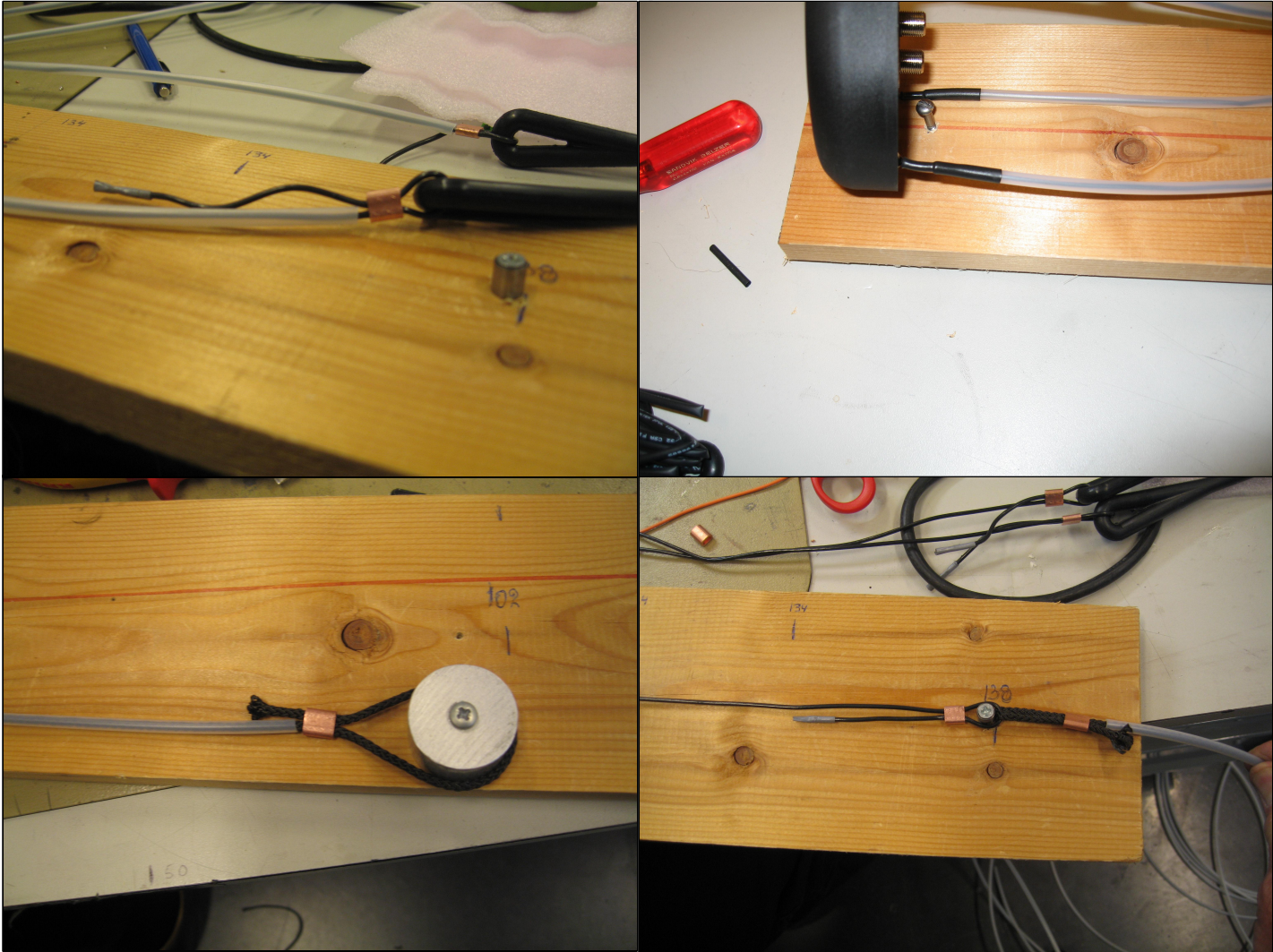


Antenna 8 (RCU 24,25)

- plastic sleeves around dipole wires



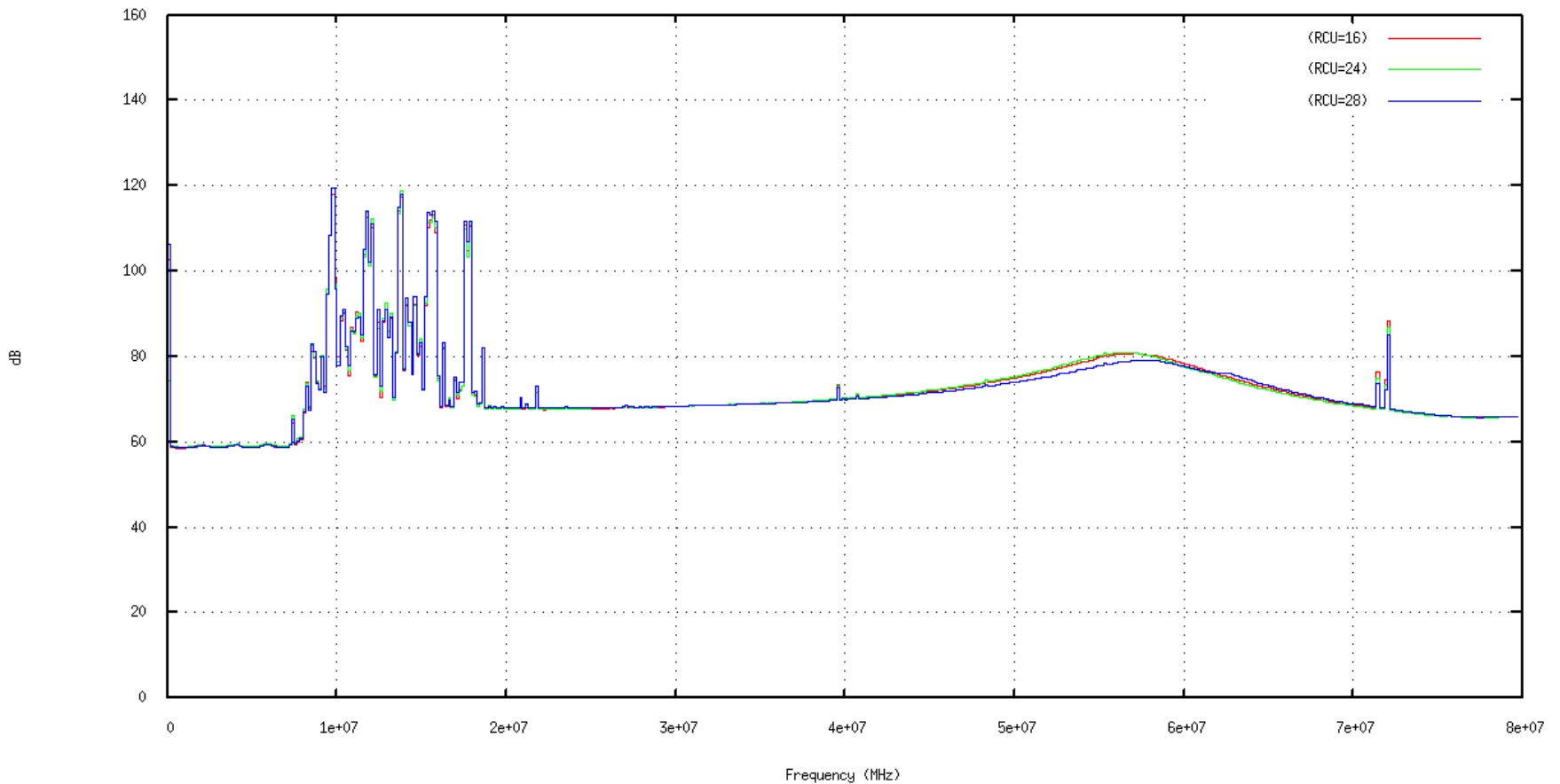
Mounting details



First results

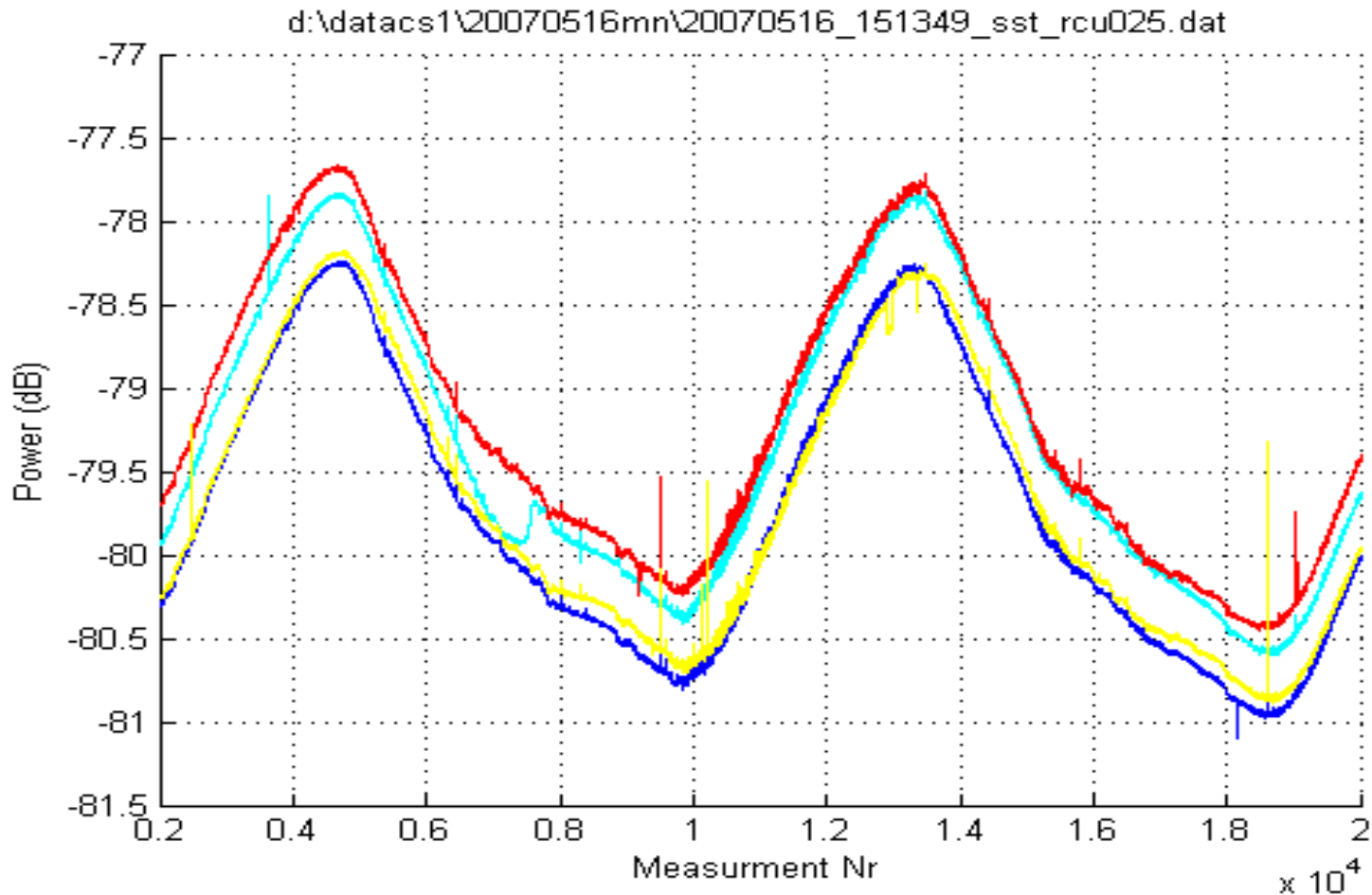
- RCU=16, Ant 7, sleeve around tension cord
- RCU=24, Ant 8, sleeve around dipole lower resonance
- RCU=28, normal antenna (lower gain and 63MHz problem)

1178872936 - Fri, 11 May 2007 08:42:16 +0000



Two dry days F=59MHz

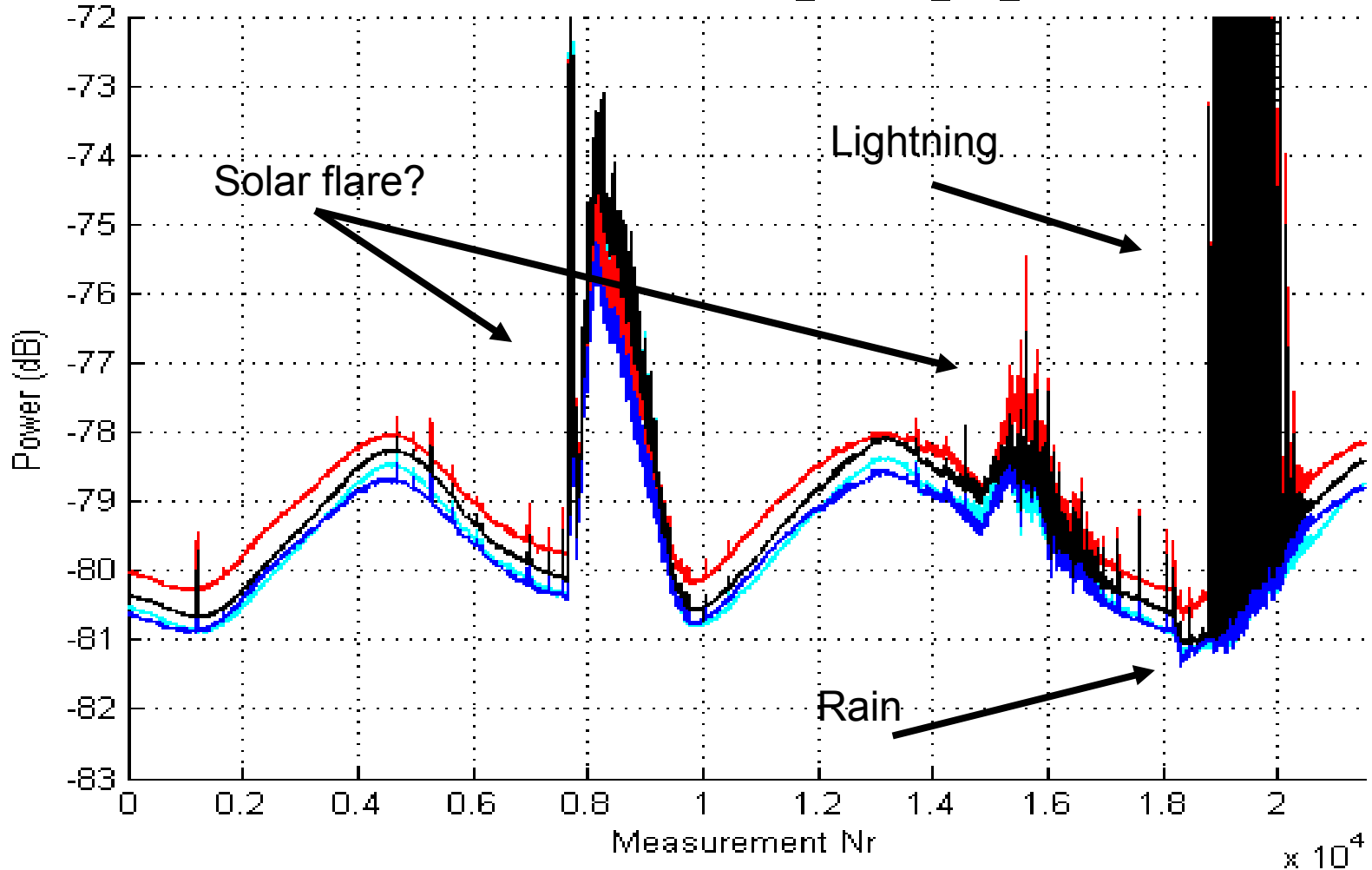
- Cyan : Ant5Y(rcu1) plastic pipe around tension cord & spring
- Blue : Ant6Y(rcu9) plastic pipe around tension cord
- Red : Ant7Y(rcu17) plastic sleeve around tension cord
- Yellow: Ant8Y(rcu25) plastic sleeve around dipole wires



CS1 measurement (59MHz, 10 sec int)

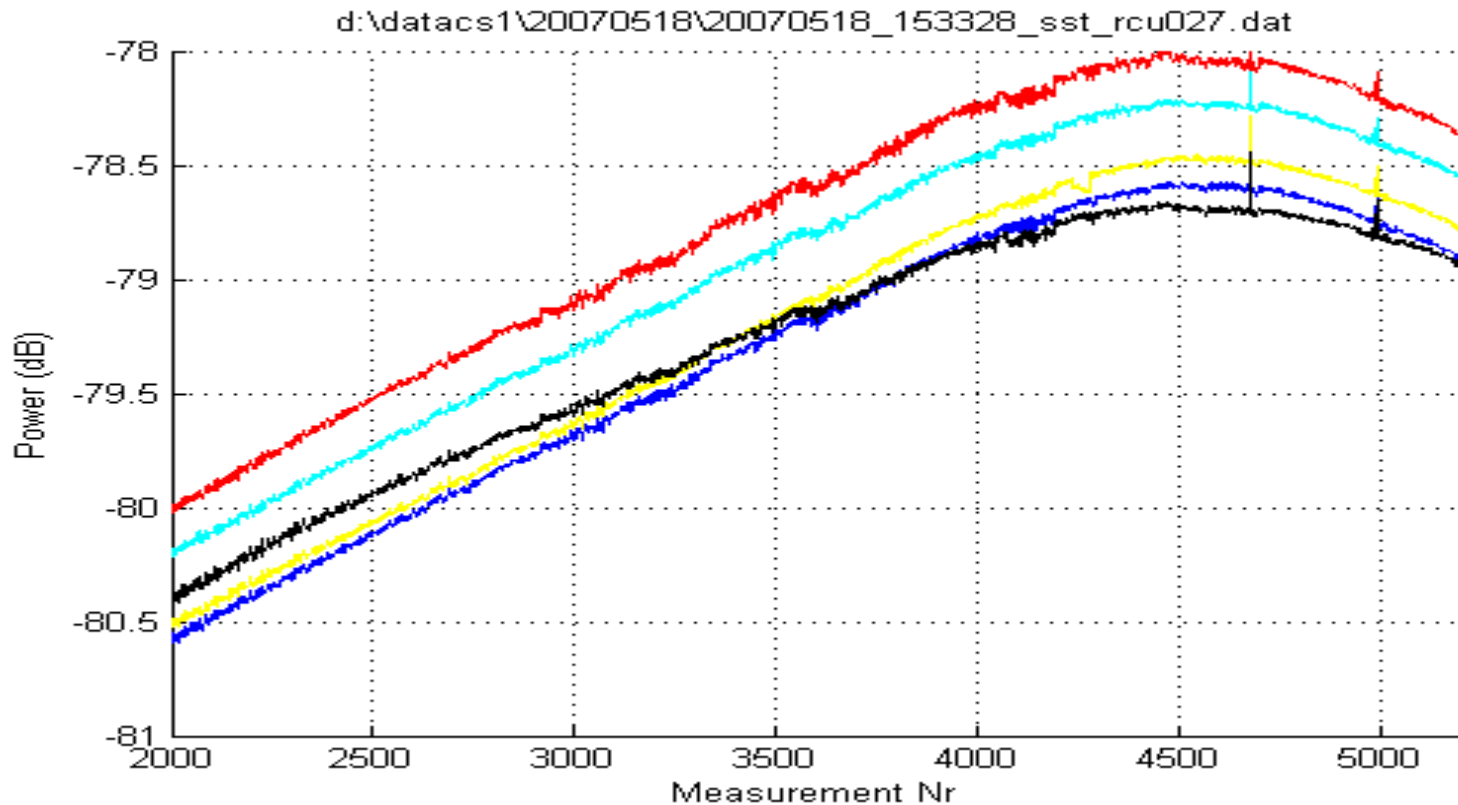
- from 18 May 15:33 UTC unit 21 may 04:33 UTC

d:\dataacs1\20070518\20070518_153328_sst_rcu031.dat

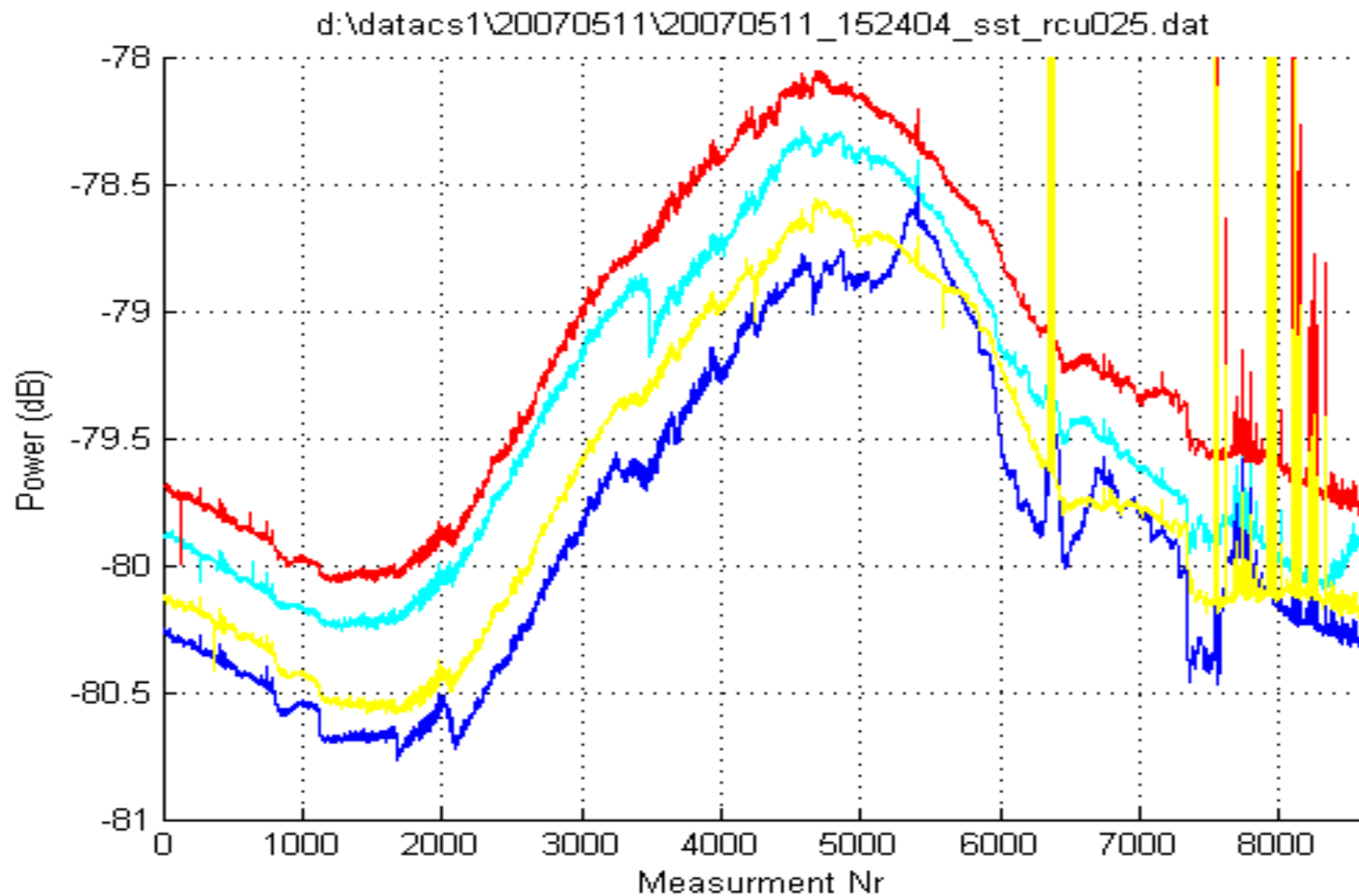


Very light rainfall between 3400 ... 4000 (F=59MHz)

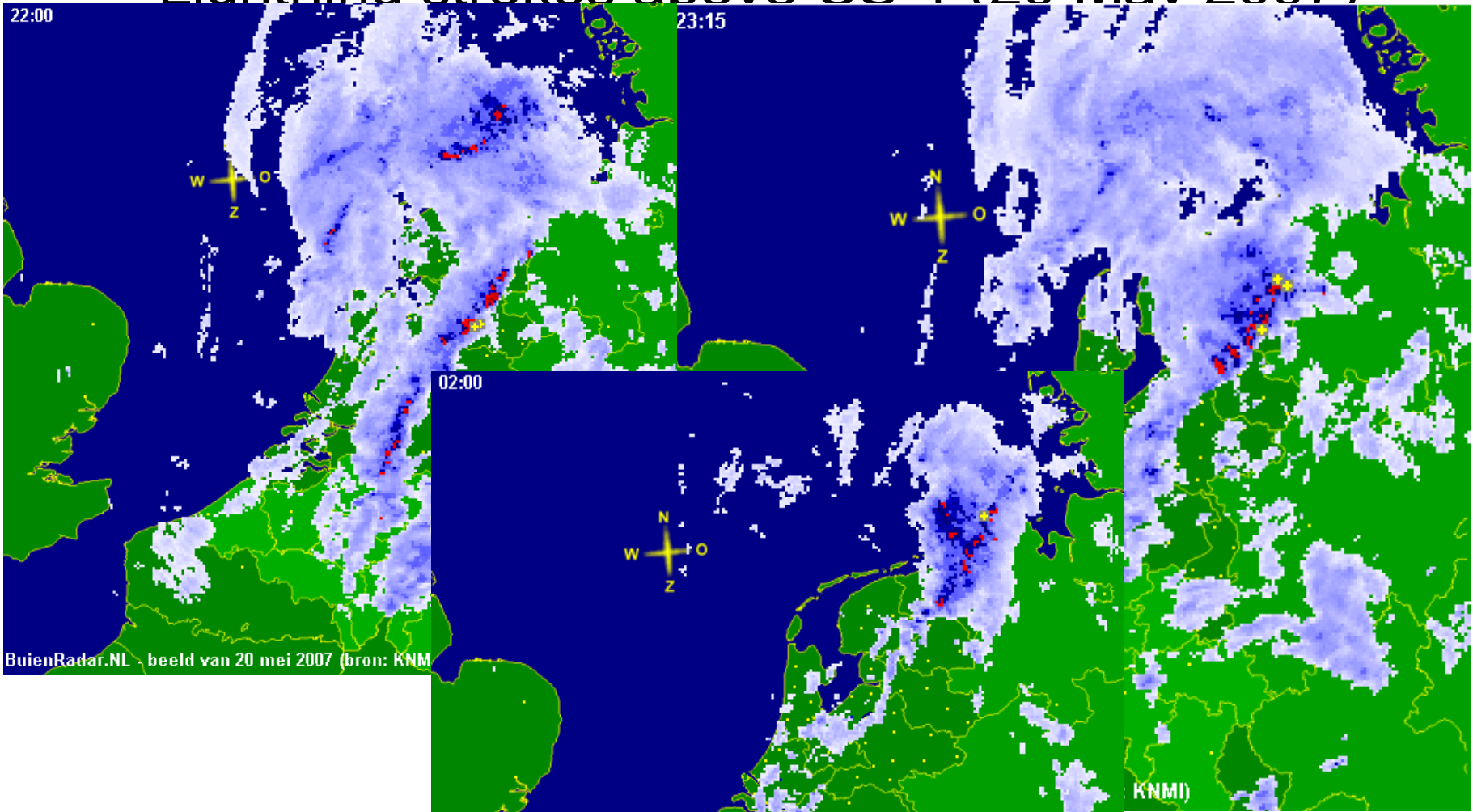
- Cyan : Ant5Y(rcu1) plastic pipe around tension cord & spring
- Blue : Ant6Y(rcu9) plastic pipe around tension cord
- Red : Ant7Y(rcu17) plastic sleeve around tension cord
- Yellow: Ant8Y(rcu25) plastic sleeve around dipole wires
- Black : Ant (rcu27) reference antenna (original)



- Cyan : Ant5Y(rcu1) plastic pipe around tension cord & spring
- Blue : Ant6Y(rcu9) plastic pipe around tension cord
- Red : Ant7Y(rcu17) plastic sleeve around tension cord
- Yellow: Ant8Y(rcu25) plastic sleeve around dipole wires



Lightning strokes above CS-1 (20 May 2007)



BuienRadar.NL - beeld van 20 mei 2007 (bron: KNMI)

BuienRadar.NL - beeld van 21 mei 2007 (bron: KNMI)

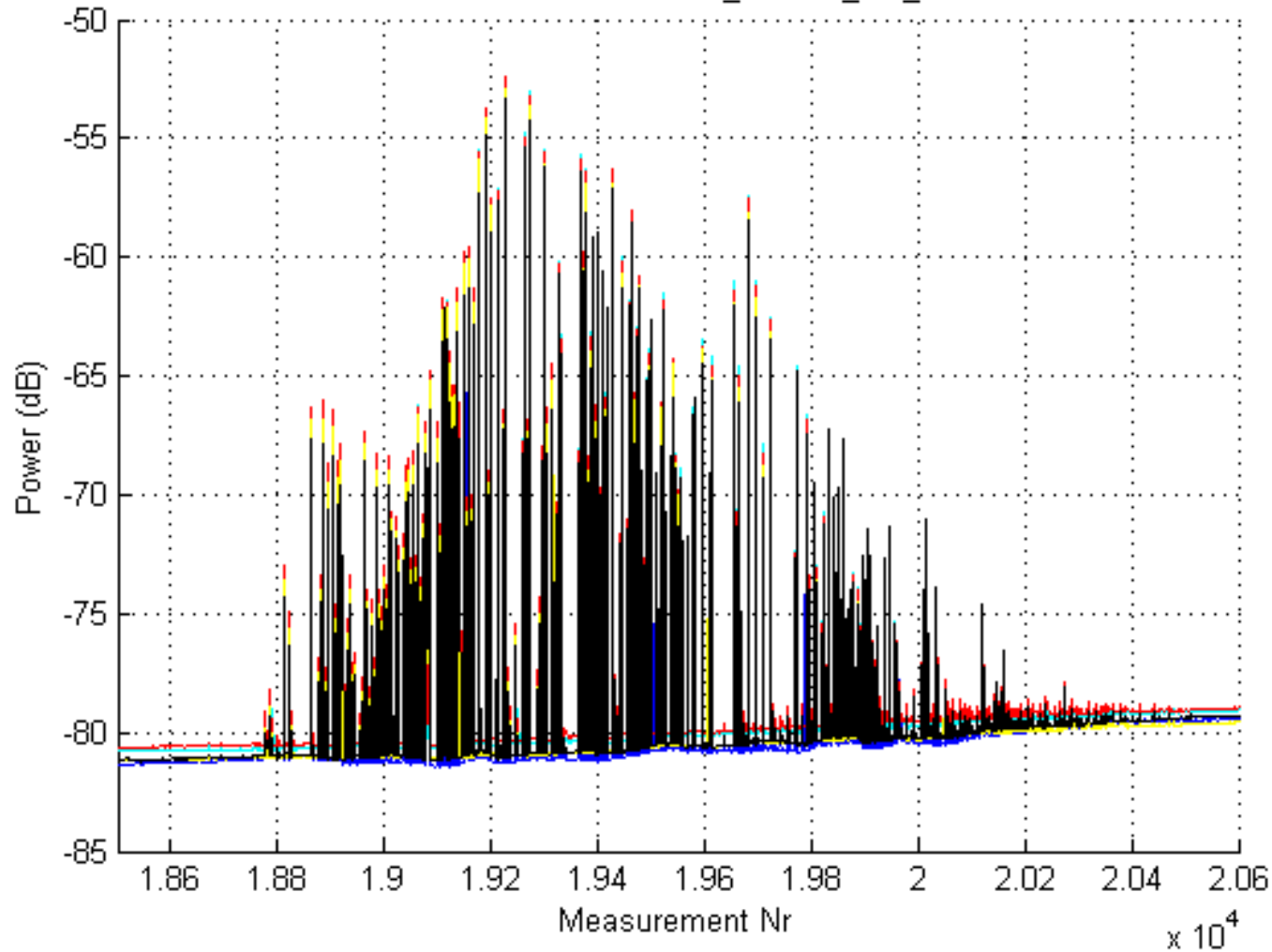
KNMI

Lightning strokes above CS-1 (59MHz)

- 18800 20 may 21:33 local time

- 20328 21 may 02:00 local time

d:\datacs1\20070518\20070518_153328_sst_rcu027.dat



Lightning strokes above CS-1 (59MHz)

- 19268..271 20 may 23:05 local time

(only 4 times 10 seconds integration time)

