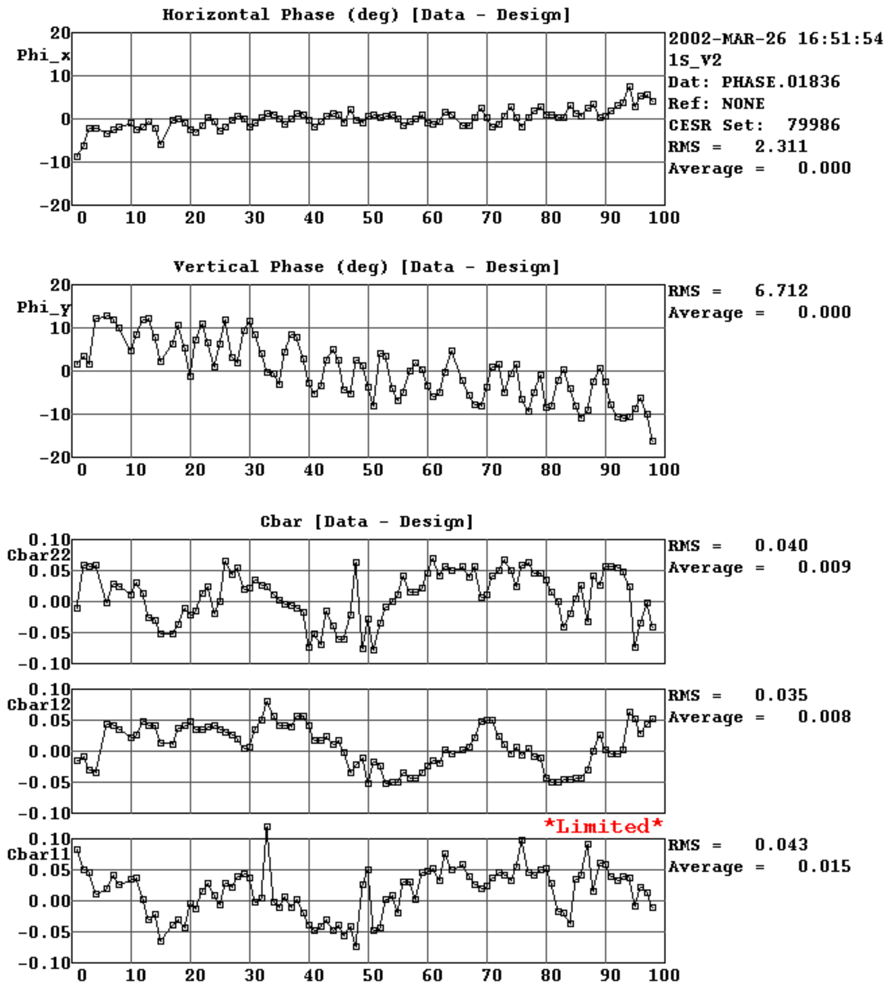
— SCMATING Knobs 1, 2, and 3 —
Phase and Coupling Measurements

HEP conditions on 1s with single bunch e^+ of 6 mA

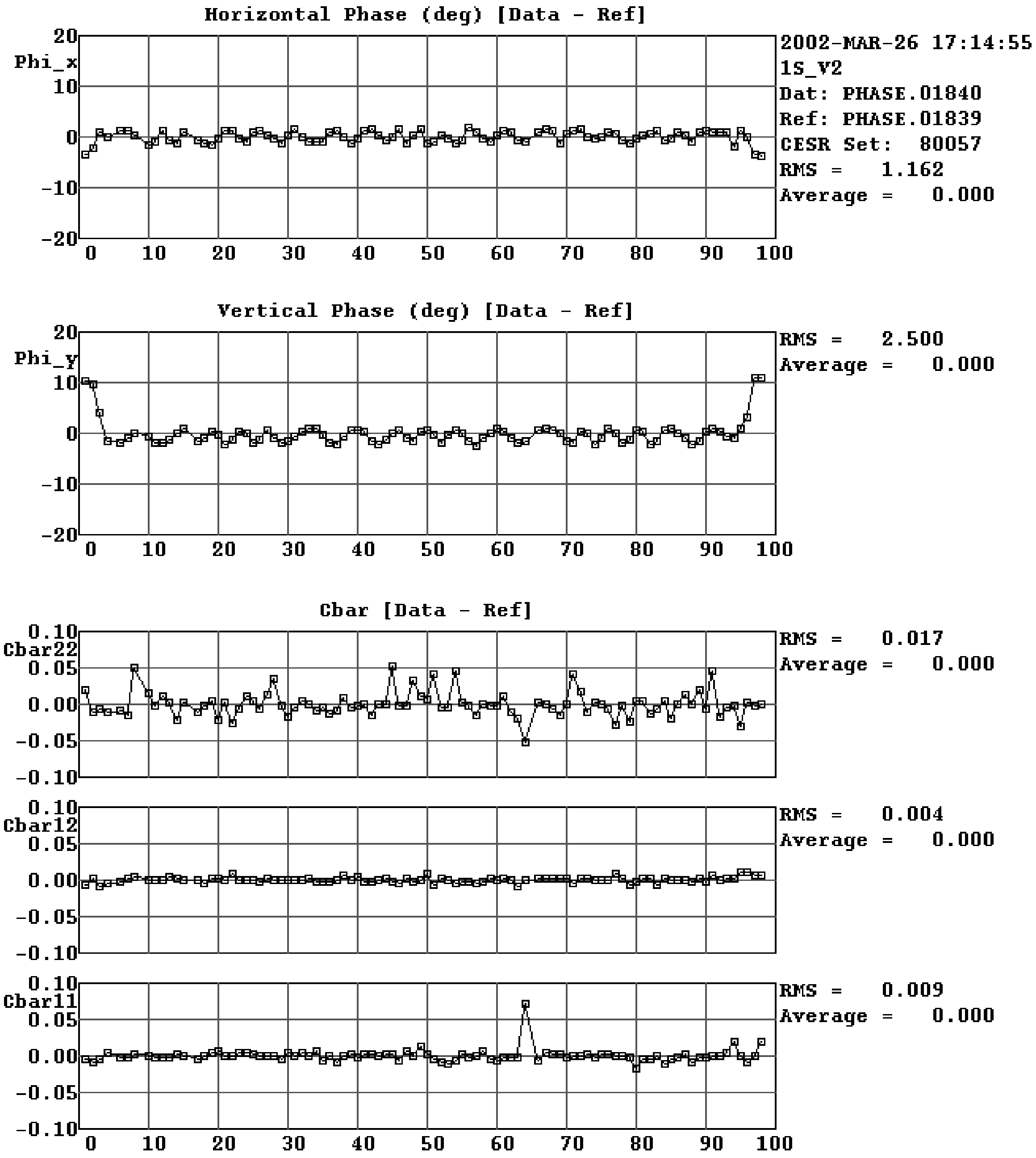
```
**************************************************
 Lattice = 1S_V2     type = STANDARD
 energy = 1S_ON    sen1 = 1795.29    sen2 = 4946.70    dipole status = 1
 Set     BIGGRP  POSCSR  ELCSR   ELTOLUM POSTOP  COLLIDE SCIR    HEP     CESR_RF
 Num      79929   79912   79957   78551   78294   79977   79954   79986   79673
 Orb          0       0       0       0       0       0       0       0       0
**************************************************
 POSLIN    POSSYN     ELLIN    ELSYN
  80051     80052     79944    79945
```

Data: hep phase after orbit correction



SCMATING 1: $-250 \Rightarrow +250$ cu

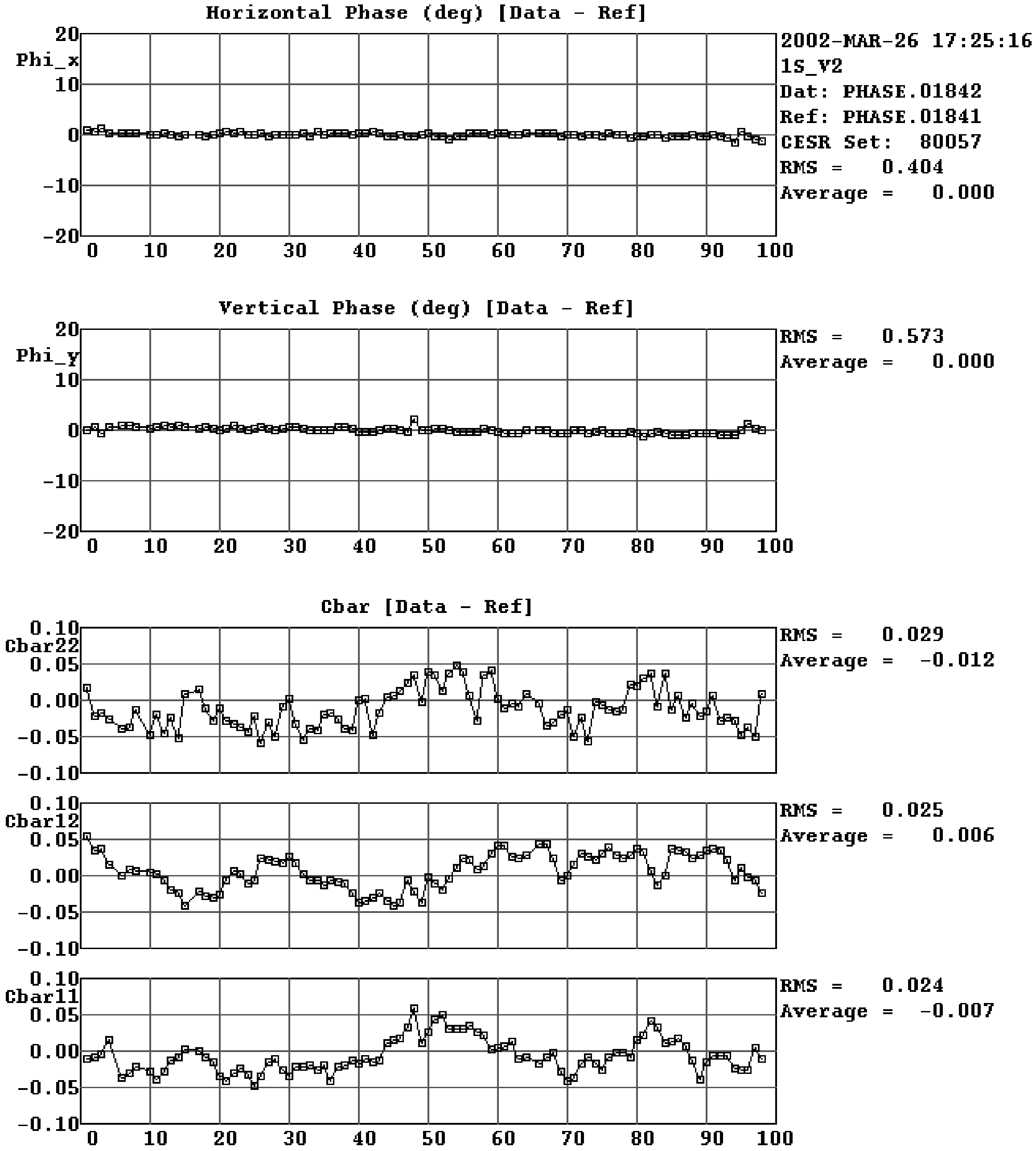
```
Data: phase after scmating 1 raised from -2j50 to 250
Ref:  hep after second correction
```



SCMATING 1 works (as seen also on March 12 by DLR)

SCMATING 2: 1000 ⇒ 500 cu

Data: scmating 2 1000-->500
Ref: return to original scmating 1 (-250)

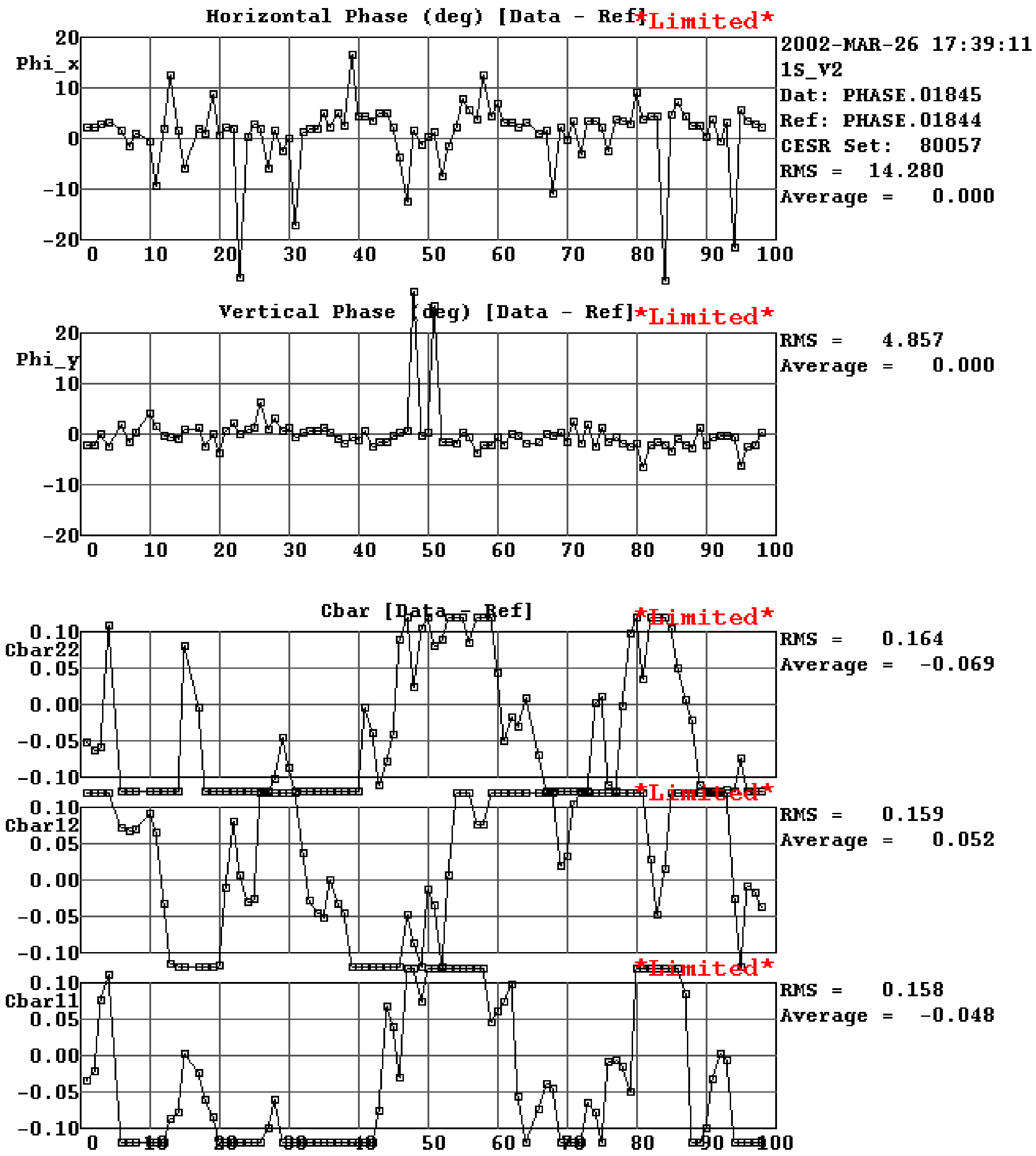


Small effect on coupling

SCMATING 3: 1000 ⇒ 500 cu

Vertical tune moves $\simeq$ 3 kHz during adjustment

Data: scmating 3 1000-->500
Ref: check phase after console crash



Some action in north IP