

Pole coordinates DGFI

SLR weekly	<p>Range bias reduced (RBIAS), STAY 14001S007 eliminated XPO, YPO, UT at 20080823 and at 20080901 eliminated due to instability.</p> <p>Continuity constraints on Pole coordinates</p> <p>Corrections: $\sigma=2\text{cm}$</p> <p>UT & Stations held fixed to their apriori</p> <p>WRMS XPO = 15 uas</p> <p>WRMS YPO = 4 uas</p>
VLBI daily	<p>Continuity constraints on Pole coordinates</p> <p>Corrections: $\sigma=2\text{cm}$</p> <p>UT & Stations held fixed to their apriori</p> <p>WRMS XPO = 82 uas</p> <p>WRMS YPO = 107 uas</p>

COL WG Munich 9-10 Dec 2010

3

Pole coordinates ESOC

DORIS + SLR weekly	<p>Tropospheric parameters reduced:</p> <p>BIAS XPO : 1.5 mas</p> <p>BIAS YPO : -0.75 mas</p> <p>Continuity constraints on Pole coordinates corrections $\sigma=2\text{cm}$</p> <p>WRMS XPO = 158 uas</p> <p>WRMS YPO = 88 uas</p>
GNSS + SLR weekly	<p>Continuity constraints on Pole coordinates corrections $\sigma=2\text{cm}$</p> <p>WRMS XPO = 43 uas</p> <p>WRMS YPO = 37 uas</p> <p>Pole coordinates apriori ESOC $\neq C04$</p>
SLR weekly	<p>Continuity constraints on Pole coordinates corrections $\sigma=2\text{cm}$</p> <p>WRMS XPO = 179 uas</p> <p>WRMS YPO = 205 uas</p>

COL WG Munich 9-10 Dec 2010

4

Pole coordinates GFZ

	GNSS+SLR daily
XPO, YPO, UT-UTC 2pt/d at 00h and 24h STAX, STAY, STAZ 1pt/d at 12h	<p>EOP & Station coordinates estimated simultaneously, Continuity constraints on Pole coordinates corrections $\sigma=2\text{cm}$ Station Stabilization = 50cm</p> <p>WRMS XPO = 15.6 Mas WRMS YPO = 13.3 Mas</p>

COL WG Munich 9-10 Dec 2010

5

<ftp://hpiers.obspm.fr/iers/eop/grgs/GRGS/solutions/>

Pole AIUB solutions with DYNAMO

2373 nov 30 15:03 Pole.SLR.AIUB.54688_54709.2.dat
 1596 nov 30 15:05 Pole.SLR.AIUB.54688_54709.2.readme

2486 nov 30 12:18 Pole.GNSS.AIUB.55688_55709.1.dat
 1875 nov 30 14:25 Pole.GNSS.AIUB.55688_55709.1.readme

Pole DGFI solutions with DYNAMO

1695 nov 24 11:32 Pole.VLBI.DGFI.54690_54707.1.dat
 2232 nov 30 15:19 Pole.VLBI.DGFI.54690_54707.1.readme

2373 nov 23 18:17 Pole.SLR.DGFI.54688_54709.1.dat
 1876 nov 30 15:22 Pole.SLR.DGFI.54688_54709.1.readme

Pole ESOC solutions with DYNAMO

2373 nov 22 15:49 Pole.DORIS_SLR.ESOC.54688_54708.1.dat
 1774 nov 22 15:56 Pole.DORIS_SLR.ESOC.54688_54708.1.readme

2373 nov 22 11:00 Pole.SLR.ESOC.54688_54708.1.dat
 1703 nov 22 11:31 Pole.SLR.ESOC.54688_54708.1.readme

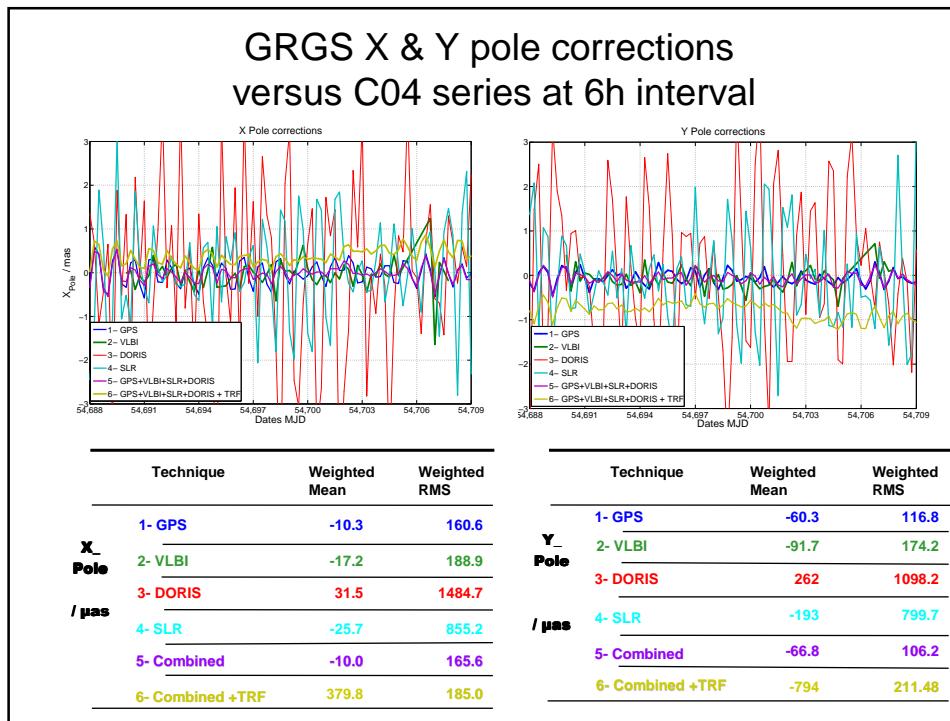
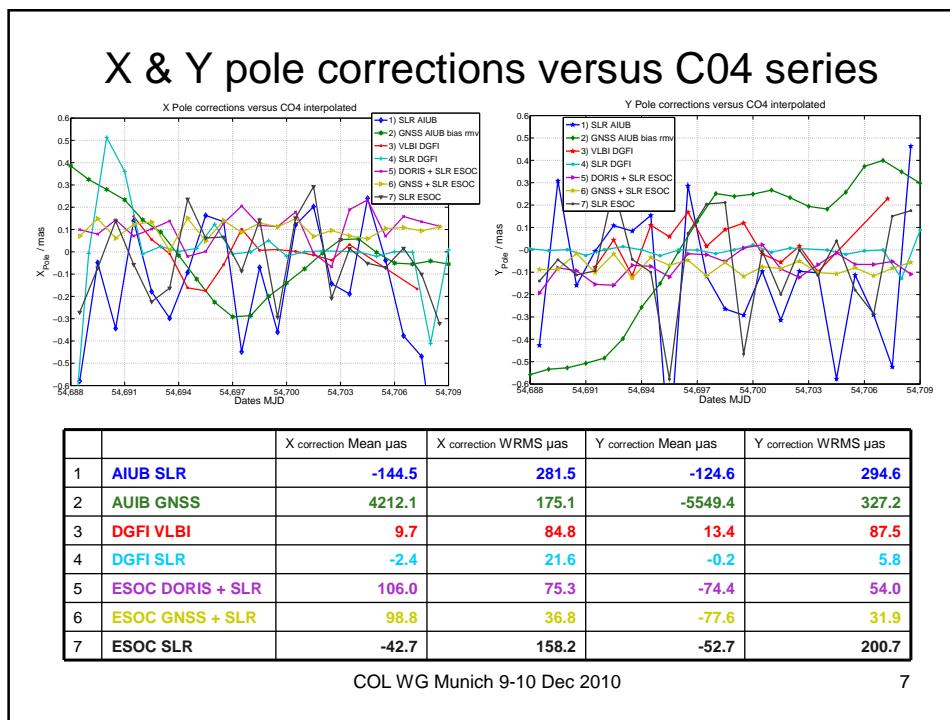
2373 déc 1 14:33 Pole.GNSS_SLR.ESOC.54688_54708.1.dat
 1892 déc 1 14:38 Pole.GNSS_SLR.ESOC.54688_54708.1.readme

Pole GFZ solutions with DYNAMO

3616 déc 4 21:42 Pole.GNSS_SLR.GFZ.54679_54710.1.dat
 1778 déc 6 15:35 Pole.GNSS_SLR.GFZ.54679_54710.1.readme

COL WG Munich 9-10 Dec 2010

6



statistics results with combination

	DGFI GPS + VLBI	ESOC GNSS+SLR + DORIS+SLR	GRGS GPS + VLBI + DORIS + SLR
X-Pole mean	169 as	100.0 uas	428 uas
X-Pole WRMS	920 mas	99.9 uas	428 uas
Y-Pole mean	61 as	61.0 uas	817 uas
Y-Pole WRMS	1679 mas	61.2 uas	817 uas

COL WG Munich 9-10 Dec 2010

9

MAO & GRGS X & Y pole corrections comparison

versus C04 series at 1d interval over 2008

From Lytvyn Mykhailo -MAO- & C. Bizouard -GRGS

