



The JCET AC/CC Report to the ILRS ASC

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JCET Activities Since Matera Meeting



- ◆ **The orbital files (SP3c) combination process restarted**
 - We provide routinely weekly combination of the submitted SP3c files from all ACs
 - We still need to work on generating a summary file with the statistics of the combination and other figures of merit for the input series

ILRS Orbital Product Archives

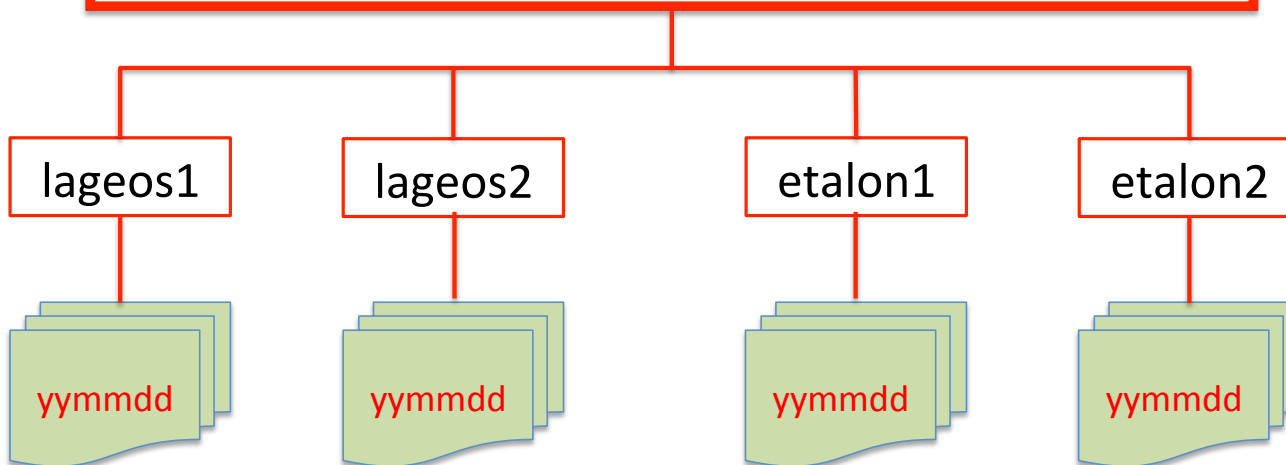
ILRS Orbital Product Archive @ CDDIS

PRESENT (TEST PHASE):

<ftp://cddis.gsfc.nasa.gov/pub/slr/products/test/4risonly>

OPERATIONAL PHASE:

<ftp://cddis.gsfc.nasa.gov/pub/slr/products/orbits>



File organization within the archive:

- At the top level:

<ftp://cddis.gsfc.nasa.gov/pub/slr/products/orbits>

– “README” files from each AC and CC, e.g.:

- README_AC.asi, README_AC.bkg, etc.
 - README_CC.ilrsa, README_CC.ilrsb
- The README_AC.xxx files should be based on the description of the analysis which each AC includes in their POS+EOP SINEX, with appropriate additions/modifications
 - The README_CC.xxx files should describe the combination process followed by the “xxx” CC.

Combined Orbit file info:

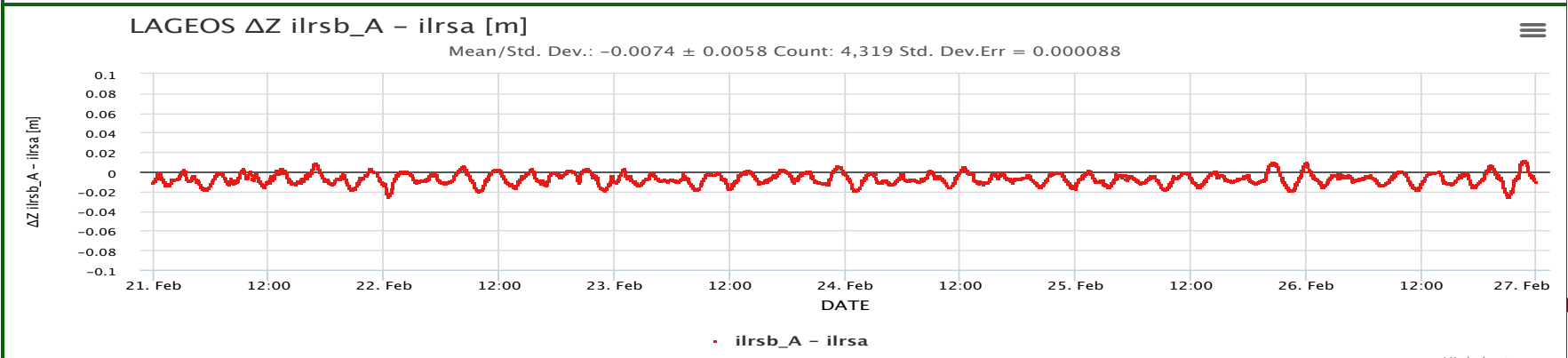
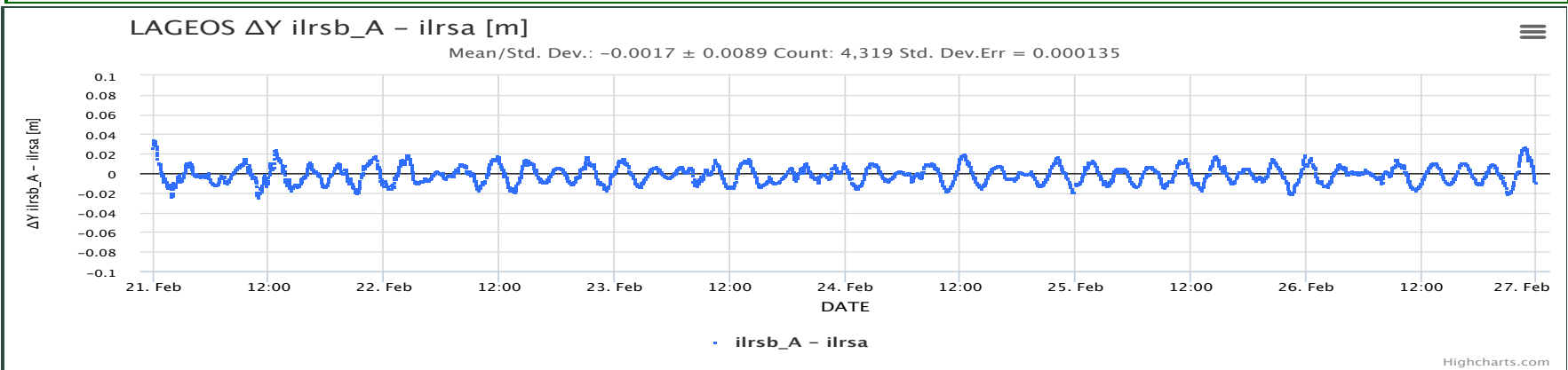
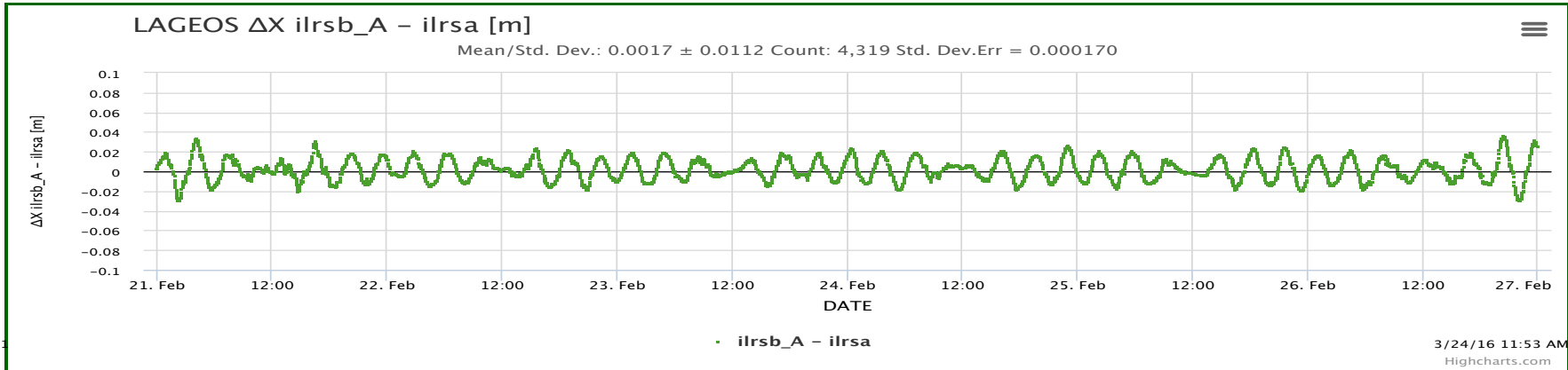
- The combined orbit SP3 files will replace the four comment records with standard content that will follow the scheme:

```
/* "ilrsa.orb.yymmdd.v#,sp3", Reference TRF: SLRF2008
/* Input orbits: ASI v#, BKG v#, .....
/*                JCET v#, NSGF v#
/* Combination details in README_CC.ilrsa
```



LAGEOS SP3c Δ POSITION: ILRS (b-a)

MONITORING SP3





ILRS (b-a) Orbit Differences over a 2-week Period



ΔX ilrsb_A - ilrsa [m] LAGEOS	ΔY ilrsb_A - ilrsa [m] LAGEOS	ΔZ ilrsb_A - ilrsa [m] LAGEOS
Mean/Std. Dev.: 0.0017 ± 0.0112 Count: 4,319 Std. Dev.Err = 0.000170	Mean/Std. Dev.: -0.0017 ± 0.0089 Count: 4,319 Std. Dev.Err = 0.000135	Mean/Std. Dev.: -0.0074 ± 0.0058 Count: 4,319 Std. Dev.Err = 0.000088
ΔVX ilrsb_A - ilrsa [mm/s] LAGEOS	ΔVY ilrsb_A - ilrsa [mm/s] LAGEOS	ΔVZ ilrsb_A - ilrsa [mm/s] LAGEOS
Mean/Std. Dev.: -0.0001 ± 0.0832 Count: 4,319 Std. Dev.Err = 0.001261	Mean/Std. Dev.: -0.0007 ± 0.0849 Count: 4,319 Std. Dev.Err = 0.001286	Mean/Std. Dev.: 0.0014 ± 0.0320 Count: 4,319 Std. Dev.Err = 0.000485