
Contribution of the IVS to the IERS Combination Pilot Project



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Contribution of the IVS to the IERS CPP:

- SINEX files are available from 4 IVS Analysis Centers (ACs) (with 2 software packages), soon: 5 ACs (with 3 software packages)
- SINEX files contain datum free (singular) normal equation matrices (NEQ) (optimum strategy to guarantee that combination input is really datum-free)
- Parameters: Station positions, EOP and EOP rates, (nutation parameters)

- GIUB performs for IVS:
 - checks of contributed NEQs
 - transformation to common apriori values
 - transformation of EOP coefficients to common epoch
 - scaling of NEQs
 - checks of single solutions
 - combination of NEQs
 - generation of combined NEQs in SINEX format
- semi-automatic processing of data
- So far 60 - 70 accumulated sessions in IVS Data Centers (and CPP DB)
- Updated every 2 to 4 weeks
- Example shows EOP results derived from individual input files and from combined NEQ

SINEX - Combination

(Tue Oct 26 2004 - 10:05:13)

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Session: R1130

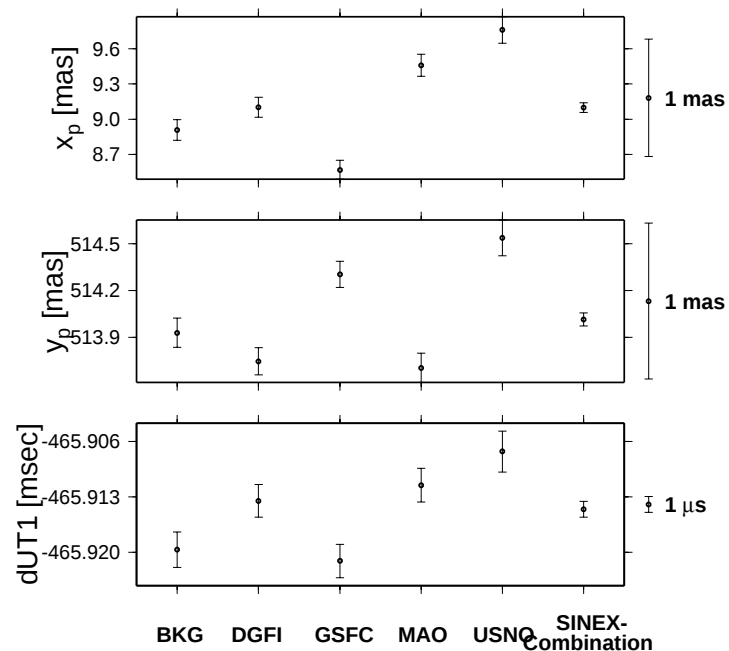
Database: 04JUL06XA

settings for aprioris:
APRIORI SINEX BKG
comment:

settings for REF_EPOCH:
MEAN

settings for datum definition:
COND FIX 'S' SIG=0.0001

AC	St.	# obs	# par.	VAR.- FAC.	weight for datum	scaling factor	weight factor	variance fac. (s0)
BKG	7	2732	396 / 29	1.000	1.000	2.320	1.000	1.018
DGFI	7	3193	29 / 29	1.000	1.000	0.710	1.000	2.451
GSFC	7	2857	753 / 29	1.000	1.000	0.702	1.000	2.343
MAO	7	2952	54 / 26	1.000	1.000	1.284	1.000	1.573
USNO	7	2817	778 / 29	1.000	1.000	1.046	1.000	2.441
COMBI					0.000			2.033



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