

Reference values for BP00 (provisional 05/03/2007): XR1+XS1 = 216.0 ns XR2+XS2 = 219.0 ns

Reference values for BP00 (provisional 29/08/2007): XR1 = 188.1 ns XR2 = 186.5 ns

Set-up at DLR February 2007

ITRF 2000 (estimated with PPP)

	X	Y	Z	Ref to 1PPS in	Meas 3.1 / ns	Meas 3.2 / ns	Ant. Cable / ns
BP00 (Pola)	4186742.400	834900.130	4723619.110	10.0 ns XP = 10.0 ns		228.1	XC = 235.7 ns; XD = 0 (short); XC = 294.4 ns, XD = 16.0 ns (zero) Short base: XC+XD = 235.7 ns Zero base: XC+XD = 310.4 ns
OBE3 (Z12)	4186741.510	834903.850	4723619.410	119.3 ns XP = 119.3 ns	17.6		XC = 294.4 ns; XD = 94.6 ns (with Sp=3.6 ns) Short base: XC+XD = 389.0 ns Zero base: XC+XD = 389.0 ns
OBET (PolaRx2)	idem			12.3 ns XP = 12.3 ns		231.9	XC = 294.4 ns; XD = 14.0 ns (with Sp=3.6 ns) Short base: XC+XD = 308.4 ns Zero base: XC+XD = 308.4 ns
UTC2 (PolaRx2)	idem			12.3 ns XP = 12.3 ns		231.3	XC = 294.4 ns; XD = 14.0 ns (with Sp=3.6 ns) Short base: XC+XD = 308.4 ns Zero base: XC+XD = 308.4 ns

Observations

Short baseline: doy 47-53 (16-22 February 2007)

Zero baseline: doy 59-62 (28 February - 3 March 2007)

Measurement results

26/02/2007 (L. Tisserand) via R2CGGTTS for short baseline

Short baseline

Delta (-XP-XO+XR1+XC+XD+XS1) (OBE3 - BP00) = 300.4 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (OBE3 - BP00) = 308.8 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (OBET - BP00) = 73.5 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (OBET - BP00) = 76.0 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (UTC2 - BP00) = 69.8 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (UTC2 - BP00) = 73.6 ns

13/08/2007 (L. Tisserand) via R2CGGTTS for zero baseline

Zero baseline

Delta (-XP-XO+XR1+XC+XD) (OBE3 - BP00) = 219.1 ns

Delta (-XP-XO+XR2+XC+XD) (OBE3 - BP00) = 227.4 ns

Delta (-XP-XO+XR1+XC+XD) (OBET - BP00) = -8.3 ns

Delta (-XP-XO+XR2+XC+XD) (OBET - BP00) = -5.7 ns

Delta (-XP-XO+XR1+XC+XD) (UTC2 - BP00) = -12.1 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (UTC2 - BP00) = -8.2 ns

Calibration results

05/03/2007 (G. Petit) (provisional values) for short baseline

Short baseline

BP00: -XP-XO+XR1+XC+XD+XS1 = 204.9 ns

BP00: -XP-XO+XR2+XC+XD+XS2 = 207.9 ns

OBE3: -XP-XO+XC+XD = 236.3 ns

Therefore

OBE3: XR1+XS1 = 269.0 ns

OBE3: XR2+XS2 = 280.4 ns

OBE3 values probably off by 50 ns

03/10/2007 (G. Petit) (provisional values) for zero baseline

Zero baseline setup2

BIPC: -XP-XO+XR1+XC+XD = 251.7 ns

BIPC: -XP-XO+XR2+XC+XD = 250.1 ns

OBE3: -XP-XO+XC+XD = 236.3 ns

Therefore

OBE3: XR1 = 234.5 ns

OBE3: XR2 = 241.2 ns

Therefore

OBE3: XS1 = 34.5 ns

OBE3: XS2 = 39.2 ns

BP00: -XP-XO+XR1+XC+XD+XS1 = 204.9 ns

BP00: -XP-XO+XR2+XC+XD+XS2 = 207.9 ns

OBE3: -XP-XO+XC+XD = 55.5 ns

Therefore

OBET: XR1+XS1 = 222.9 ns

OBET: XR2+XS2 = 228.4 ns

BIPC: -XP-XO+XR1+XC+XD = 251.7 ns

BIPC: -XP-XO+XR2+XC+XD = 250.1 ns

OBET: -XP-XO+XC+XD = 55.1 ns

Therefore

OBET: XR1 = 188.3 ns

OBET: XR2 = 189.3 ns

Therefore

OBET: XS1 = 34.6 ns

OBET: XS2 = 39.1 ns

BP00: -XP-XO+XR1+XC+XD+XS1 = 204.9 ns

BP00: -XP-XO+XR2+XC+XD+XS2 = 207.9 ns

UTC2: -XP-XO+XC+XD = 56.1 ns

Therefore

UTC2: XR1+XS1 = 218.6 ns

UTC2: XR2+XS2 = 225.4 ns

BIPC: -XP-XO+XR1+XC+XD = 251.7 ns

BIPC: -XP-XO+XR2+XC+XD = 250.1 ns

UTC2: -XP-XO+XC+XD = 56.1 ns

Therefore

UTC2: XR1 = 183.5 ns

UTC2: XR2 = 185.8 ns

Therefore

UTC2: XS1 = 35.1 ns

UTC2: XS2 = 39.6 ns