

Set-up at ORB July 2003

	ITRF 97						
	X	Y	Z	Ampli to 1PPS in	Meas 3.1 / ns	Meas 3.2 / ns	Ant. Cable / ns
BIPC	4027862.290	307028.710	4919508.330	40.0 ns XP = 40.0 ns	17.0 ns Int ref - 1PPSin (XO) = 32.8 ns		XC=237.6 ns (333.8 ns for Zero base BRUS); XD=5.1 ns Short base: XC+XD = 242.7 ns Zero base (BRUS): XC+XD = 338.9 ns Zero base (ZTBR): XC+XD = 242.7 ns
BRUS	4027896.260	307045.980	4919478.210	21.8 ns XP = 21.8 ns	8.5 ns Int ref - 1PPSin (XO) = 24.3 ns	N/A	XC = 333.8ns; Zero base: XD=0.7+5.5 ns Short baseline: XC+XD = 333.8 ns Zero baseline: XC+XD = 340.0 ns
ZTBR	4027865.570	307011.500	4919504.190	6.7 ns XP = 6.7 ns	11.3 ns Int ref - 1PPSin (XO) = 27.1 ns	N/A	XC = 232.3 ns; Zero base: XC = 237.6 ns; XD=0.7+5.5 ns Short baseline: XC+XD = 232.3 ns Zero baseline: XC+XD = 243.8 ns

Observations

Short baseline: doy 198-205 (17-24 July 2003)
Zero baseline (BRUS): doy 184-191 (3-10 July 2003)
Zero baseline (ZTBR): doy 205-212 (24-31 July 2003)

Measurement results

21/08/2003 L. Tisserand (R2CGGTTs)

Short baseline: from Doy198-205
Delta (-XP-XO+XR1+XC+XD+XS1) (BRUS - BIPC) = +115.5 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (BRUS - BIPC) = +108.7 ns

Zero baseline (BRUS): from Doy 184-191
Delta (-XP-XO+XR1+XC+XD) (BRUS - BIPC) = 18.0 ns
Delta (-XP-XO+XR2+XC+XD) (BRUS - BIPC) = 21.0 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (ZTBR - BIPC) = +19.0 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (ZTBR - BIPC) = +19.0 ns

Zero baseline (ZTBR): from Doy 205-212
Delta (-XP-XO+XR1+XC+XD) (BRUS - BIPC) = 43.4 ns
Delta (-XP-XO+XR2+XC+XD) (BRUS - BIPC) = 40.2 ns

Calibration results

Preliminary:21/08/2003 (G. Petit)

Short baseline
BIPC: -XP-XO+XR1+XC+XD+XS1 = 475.5 ns
BIPC: -XP-XO+XR2+XC+XD+XS2 = 491.8 ns
BRUS: -XP-XO+XC+XD = 287.7 ns
Therefore
BRUS: XR1+XS1 = 303.5 ns
BRUS: XR2+XS2 = 312.8 ns

Zero baseline (BRUS)
BIPC: -XP-XO+XR1+XC+XD = 547.2 ns
BIPC: -XP-XO+XR2+XC+XD = 561.5 ns
BRUS: -XP-XO+XC+XD = 293.9 ns
Therefore
BRUS: XR1 = 271.3 ns
BRUS: XR2 = 288.6 ns
Therefore
BRUS: XS1 = 32.0 ns
BRUS: XS2 = 24.2 ns

ZTBR: -XP-XO+XC+XD = 198.5 ns
Therefore
ZTBR: XR1+XS1 = 296.0 ns
ZTBR: XR2+XS2 = 312.3 ns

Zero baseline (ZTBR)
BIPC: -XP-XO+XR1+XC+XD = 451.0 ns
BIPC: -XP-XO+XR2+XC+XD = 465.3 ns
ZTBR: -XP-XO+XC+XD = 210.0 ns
Therefore
ZTBR: XR1 = 284.4 ns
ZTBR: XR2 = 295.5 ns
Therefore
ZTBR: XS1 = 11.6 ns
ZTBR: XS2 = 16.8 ns