

Set-up at ORB July 2004

	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	18.1 ns XP = 18.1 ns	7.5 ns Int ref - 1PPSin (XO) = 23.3 ns		XC=235.9 ns ; XD=0.0 ns Short base: XC+XD = 235.9 ns
BRUS	4027896.260	307045.980	4919478.210	21.8 ns XP = 21.8 ns	10.5 ns Int ref - 1PPSin (XO) = 26.3 ns	N/A	XC = 333.8ns; XD=0.0 ns Short baseline: XC+XD = 333.8 ns
ZTBR	4027865.570	307011.500	4919504.190	6.7 ns XP = 6.7 ns	8.5 ns Int ref - 1PPSin (XO) = 24.3 ns	N/A	XC = 214.4 ns; XD=6.3 ns (including 0.7 ns splitter) Short baseline: XC+XD = 220.7 ns
							Final: XP+XO= 48.1 ns. Assuming same set-up as in 2003 XP+XO=46.1 ns. From P3 files, XP+XO=48.6 ns Final: XP+XO=31.0 ns. Assuming same set-up as in 2003 XP+XO: XC value corrected 5 July 2006

Observations

Short baseline: doy 200-208 (18-26 July 2004)

Measurement results

25 Aug 2004 L. Tisserand (R2CGGTTTS)

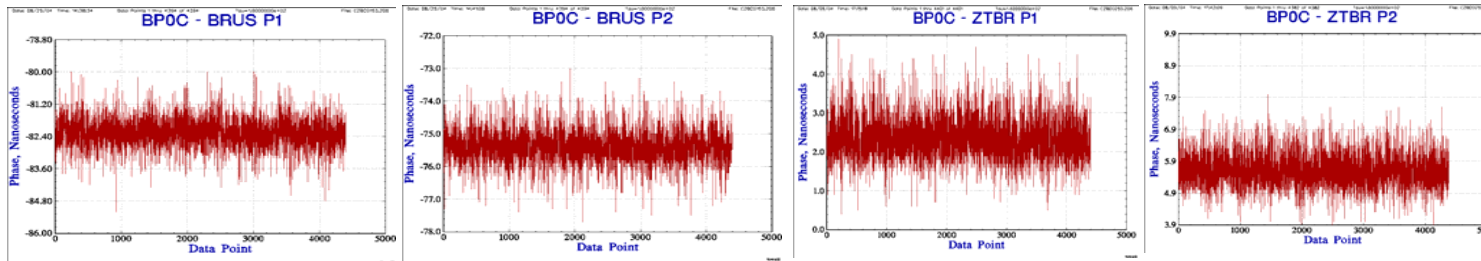
Short baseline: from Doy200-208

Delta (-XP-XO+XR1+XC+XD+XS1) (BRUS - BIPC) = +82.3 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (ZTBR - BIPC) = -2.3 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (BRUS - BIPC) = +75.4 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (ZTBR - BIPC) = -5.6 ns



Calibration results

30 Aug 2004 (G. Petit), corrected 5 July 2006 for ZTBR

Short baseline

BIPC: -XP-XO+XR1+XC+XD+XS1 = 500.1 ns

BIPC: -XP-XO+XR2+XC+XD+XS2 = 516.4 ns

BRUS: -XP-XO+XC+XD = 285.2 ns (using XP+XO from P3 files)

ZTBR: -XP-XO+XC+XD = 189.7 ns (using 2004 measured values)

Therefore

Therefore

BRUS: XR1+XS1 = 297.2 ns

ZTBR: XR1+XS1 = 308.1 ns

BRUS: XR2+XS2 = 306.6 ns

ZTBR: XR2+XS2 = 321.1 ns

Set-up 1 at ORB May 2006

	ITRF 97						
	X	Y	Z	Ampli to 1PPS in	Meas 3.1 / ns	Meas 3.2 / ns	Ant. Cable / ns
BIPC	4027865.600	307007.500	4919504.060	34.6 ns XP = 34.6 ns	15.0 ns (15.0 / 14.5) Int ref - 1PPSin (XO) = 30.8 ns		XC=235.9 ns ; XD=0.0 ns Short base: XC+XD = 235.9 ns
ZTBR (Z12)	4027865.476	307011.536	4919504.153	6.7 ns XP = 6.7 ns	10.5 ns (10.5 / 9.5) Int ref - 1PPSin (XO) = 26.3 ns	N/A	XC = 155.9 ns; XD=4.7 ns + splitter(1) Short baseline: XC+XD = 160.6 ns + Sp
BRUS (Z12)	4027896.260	307045.980	4919478.210	21.8 ns XP = 21.8 ns	12.5 ns (12.5 / 11.5) Int ref - 1PPSin (XO) = 28.3 ns	N/A	XC = 333.8ns; XD=0.0 ns Short baseline: XC+XD = 333.8 ns
PLB1 (Septe	4027865.476	307011.536	4919504.153	27.3 ns XP = 27.3 ns	229.9 Int ref - 1PPSin (XO) = 238.6 ns	N/A	XC = 155.9 ns; XD=8.0 ns + splitter(1) Short baseline: XC+XD = 163.9 ns + Sp
PLB2 (Septe	4027865.476	307011.536	4919504.153	15.3 ns XP = 15.3 ns	229.7 Int ref - 1PPSin (XO) = 238.4 ns	N/A	XC = 155.9 ns; XD=9.6 ns + splitter(1) Short baseline: XC+XD = 165.5 ns + Sp

Observations

Short baseline (1): doy 142-147 (22-27 May 2006)

Measurement results

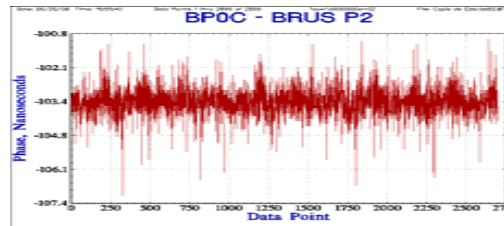
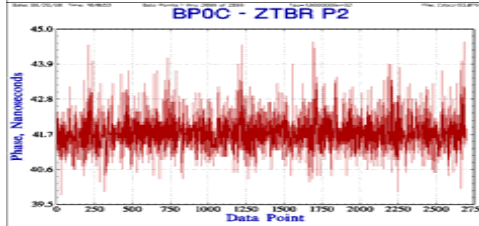
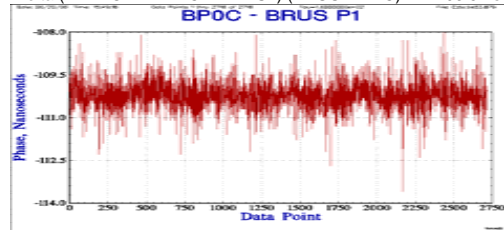
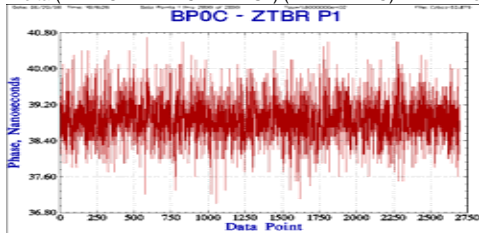
20 June 2006 L. Tisserand (R2CGGTTs)

Short baseline (1): from Doy142-147

Delta (-XP-XO+XR1+XC+XD+XS1) (ZTBR - BIPC) = -38.8 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (ZTBR - BIPC) = -41.7 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (BRUS - BIPC) = +110.2 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (BRUS - BIPC) = +103.5 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (PLB1 - BIPC) = -362.5 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (PLB1 - BIPC) = -366.1 ns
Delta (-XP-XO+XR1+XC+XD+XS1) (PLB2 - BIPC) = -306.9 ns
Delta (-XP-XO+XR2+XC+XD+XS2) (PLB2 - BIPC) = -309.5 ns



Calibration results

Preliminary: 5 September 2006 (G. Petit)

Short baseline (1)

BIPC: -XP-XO+XR1+XC+XD+XS1 = 476.1 ns

BIPC: -XP-XO+XR2+XC+XD+XS2 = 492.4 ns

ZTBR: -XP-XO+XC+XD = 127.6 + Sp ns

Therefore

ZTBR: XR1+XS1 = 309.6 - Sp ns

ZTBR: XR2+XS2 = 323.1 - Sp ns

BRUS: -XP-XO+XC+XD = 283.7 ns

Therefore

BRUS: XR1+XS1 = 302.6 ns

BRUS: XR2+XS2 = 312.2 ns

PLB1: -XP-XO+XC+XD = -102.0 + Sp ns

Therefore

PLB1: XR1+XS1 = 215.6 - Sp ns

PLB1: XR2+XS2 = 228.3 - Sp ns

PLB2: -XP-XO+XC+XD = -88.2 + Sp ns

Therefore

PLB2: XR1+XS1 = 257.4 - Sp ns

PLB2: XR2+XS2 = 271.1 - Sp ns

Set-up 2 at ORB May-June 2006

	ITRF 97						
	X	Y	Z	Ampli to 1PPS in	Meas 3.1 / ns	Meas 3.2 / ns	Ant. Cable / ns
BIPC	4027865.476	307011.536	4919504.153	34.6 ns XP = 34.6 ns	15.0 ns (15.0 / 14.5) Int ref - 1PPSin (XO) = 30.8 ns		XC = 155.9 ns; XD=4.7 ns + splitter(1) Short baseline: XC+XD = 160.6 ns + Sp
ZTBR (Z12)	4027865.600	307007.500	4919504.060	6.7 ns XP = 6.7 ns	10.5 ns (10.5 / 9.5) Int ref - 1PPSin (XO) = 26.3 ns	N/A	XC = 235.9 ns; XD=0 Short baseline: XC+XD = 235.9 ns
BRUS (Z12)	4027896.260	307045.980	4919478.210	21.8 ns XP = 21.8 ns	12.5 ns (12.5 / 11.5) Int ref - 1PPSin (XO) = 28.3 ns	N/A	XC = 333.8ns; XD=0.0 ns Short baseline: XC+XD = 333.8 ns
PLB1 (Septe	4027865.476	307011.536	4919504.153	27.3 ns XP = 27.3 ns	229.9 Int ref - 1PPSin (XO) = 238.6 ns	N/A	XC = 155.9 ns; XD=8.0 ns + splitter(1) Short baseline: XC+XD = 163.9 ns + Sp
PLB2 (Septe	4027865.476	307011.536	4919504.153	15.3 ns XP = 15.3 ns	229.7 Int ref - 1PPSin (XO) = 238.4 ns	N/A	XC = 155.9 ns; XD=9.6 ns + splitter(1) Short baseline: XC+XD = 165.5 ns + Sp

Observations

Short baseline (2): doy 149-152 (29 May- 1 June 2006)

Measurement results

20 June 2006 L. Tisserand (R2CGGTTs)

Short baseline (2): from Doy149-152

Delta (-XP-XO+XR1+XC+XD+XS1) (ZTBR - BIPC) = 106.4 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (ZTBR - BIPC) = 102.0 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (BRUS - BIPC) = +182.9 ns

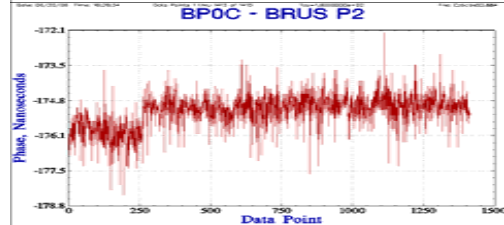
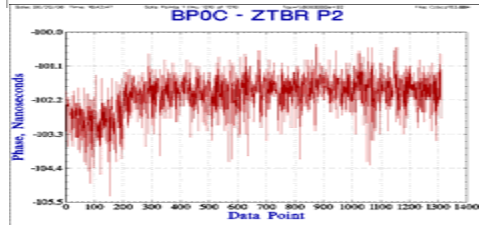
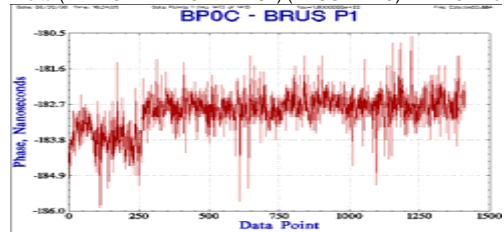
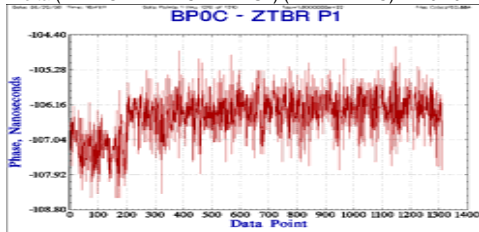
Delta (-XP-XO+XR2+XC+XD+XS2) (BRUS - BIPC) = +175.1 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (PLB1 - BIPC) = -289.8 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (PLB1 - BIPC) = -294.3 ns

Delta (-XP-XO+XR1+XC+XD+XS1) (PLB2 - BIPC) = -234.3 ns

Delta (-XP-XO+XR2+XC+XD+XS2) (PLB2 - BIPC) = -237.8 ns



Calibration results

Preliminary:5 September 2006 (G. Petit)

Short baseline (2)

BIPC: -XP-XO+XR1+XC+XD+XS1 = 400.8 + Sp ns

BIPC: -XP-XO+XR2+XC+XD+XS2 = 417.1 + Sp ns

ZTBR: -XP-XO+XC+XD = 202.9 ns

Therefore

ZTBR: XR1+XS1 = 304.3 + Sp ns

ZTBR: XR2+XS2 = 316.2 + Sp ns

BRUS: -XP-XO+XC+XD = 283.7 ns

Therefore

BRUS: XR1+XS1 = 300.0 + Sp ns

BRUS: XR2+XS2 = 308.5 + Sp ns

PLB1: -XP-XO+XC+XD = -102.0 + Sp ns

Therefore

PLB1: XR1+XS1 = 212.9 ns

PLB1: XR2+XS2 = 224.8 ns

PLB2: -XP-XO+XC+XD = -88.2 + Sp ns

Therefore

PLB2: XR1+XS1 = 254.7 - Sp ns

PLB2: XR2+XS2 = 267.5 ns