## XR: receiver internal delay; XS antenna delay

Reference values for BPOU (provisional August 2010): XR1+XS1 =-7.6 ns XR2+XS2 =-2.7 ns

## Set-up at NMIA October 2010

| $x \quad y \quad z$ | Ref-PPSin / n : | Meas 3.1 (3.3) / ns | Meas 3.2 / ns | Ant. Cable / ns |
| :---: | :---: | :---: | :---: | :---: |
| BPOU (GTR50) | 95.7 | N/A |  | XC = 182.0 ns |
|  | $\mathrm{XP}=95.7 \mathrm{~ns}$ | Int ref - 1PPSin (XO) = N/A ns |  | $\mathrm{XC}+\mathrm{XD}=182.0 \mathrm{~ns}$ |
| INT_DLY0 = -99.07 ns |  | REF DLY = 95.7 ns |  | CAB DLY $=128.5 \mathrm{~ns}$ |
| SYDN (Euro GGD S/N AGE3N | 90.1 | -7.4 / -7.3 (before/after) |  | XC = $2474.9 \mathrm{~ns} ; ~ X D=15.1 \mathrm{~ns}$ |
|  | XP $=90.1 \mathrm{~ns}$ | Int ref - 1PPSin (XO) = -7.3 ns |  | Short baseline: $\mathrm{XC}+\mathrm{XD}=2490.0 \mathrm{~ns}$ |
| NMI4 (EURO GGD S/N AGGT | 99.1 | -2.1/-2.3 (before/after) |  | XC = $2474.9 \mathrm{~ns} ; \mathrm{XD}=15.5 \mathrm{~ns}$ |
|  | XP $=99.1 \mathrm{~ns}$ | Int ref - 1 PPSin (XO) = -2.2 ns |  | Short baseline: XC+XD $=2490.4 \mathrm{~ns}$ |
| SEP1 (PolaRx2 S/N 3252) | 80.0 | 237.5 / 236.8 (before/after) |  | $\mathrm{XC}=2474.9 \mathrm{~ns} ; \mathrm{XD}=5.7 \mathrm{~ns}$ |

## Observations

Short baseline: 55476-55482, doy 280-286 (7-13 October 2010).

## Measurement results

13/10/2010 (L. Tisserand)







## Calibration results

03/03/2011 (G. Petit)

BPOU: -XP-XO + XR1 $+X C+X D+X S 1=45.9 \mathrm{~ns}$ BPOU: $-X P-X O+X R 2+X C+X D+X S 2=50.8 \mathrm{~ns}$ SYDN: -XP-XO+XC+XD = 2407.2 ns

SYDN: XR1+XS1 $=-4.0 \mathrm{~ns}$
SYDN: XR2+XS2 $=9.7 \mathrm{~ns}$

For BPOU, XC+XD-XP-XO is the difference between the actual value ( 86.3 ns ) and the value entered in the receiver ( $128.5-95.7=32.8 \mathrm{~ns}$ )

NM14: XR1+XS1 = -2.4 ns
NMI4: $\mathrm{XR2}+\mathrm{XS} 2=1.7 \mathrm{~ns}$

SEP1: XR1+XS1 = 220.9 ns SEP1: XR2 + XS2 $=222.0 \mathrm{~ns}$

