

Results of differential calibration of geodetic-type receivers at the LNE-SYRTE

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1. General description of the calibration

This report concerns the calibration of the hardware delays incurred by time signals for different geodetic-type GPS systems operated at the LNE-SYRTE in Paris.

The systems (receiver+antenna) are designated by a 4-letter acronym.

The link between acronym and actual hardware references may be found [here](#).

The results presented in Section 3 should be used for time transfer with other equipment calibrated using the same procedure. The standard uncertainty on such a link calibration is taken to be 5 ns (1 σ).

2. Calibration procedure

The calibration is a differential calibration with respect to a travelling receiver provided by the BIPM. The travelling receiver is referenced to the BIPM reference receiver, presently BP0C, an Ashtech Z12-T (see [TM116](#) for the original calibration of the reference receiver).

The calibration operational procedure is available [here](#). Note that different versions of the document were used, depending on the epoch of calibration; see the annex “Revision history” in the most recent version.

3. Calibration results

System	Period	Calib. dates	Travel	Results P1-P2/ns	Operations report
OPMT	2001/03	51983-51989	BP0C	310.5 – 322.1	Report2001_LNE-SYRTE.pdf
OPMT	2003/02	52682-52693	BP0C	311.6 – 323.2	Report2003_LNE-SYRTE.pdf
OPMT	2004/06	53164-53170	BP0C	314.4 – 326.4	Report2004_LNE-SYRTE.pdf
OPMT	2006/08	53968-53977	BP0C	312.3 – 324.5	Report2006_LNE-SYRTE.pdf
OPMT	2008/05	54612-54618	BP0C	311.4 – 322.1	Report2008_LNE-SYRTE.pdf
OPM2	2004/06	53164-53170	BP0C	308.7 – 323.3	Report2004_LNE-SYRTE.pdf
OPM2	2006/08	53968-53977	BP0C	307.5 – 322.6	Report2006_LNE-SYRTE.pdf
OPM3	2006/08	53968-53977	BP0C	351.0 – 356.4¹	Report2006_LNE-SYRTE.pdf

¹ Delay values include antenna cable.