

Report from LNE-SYRTE

by

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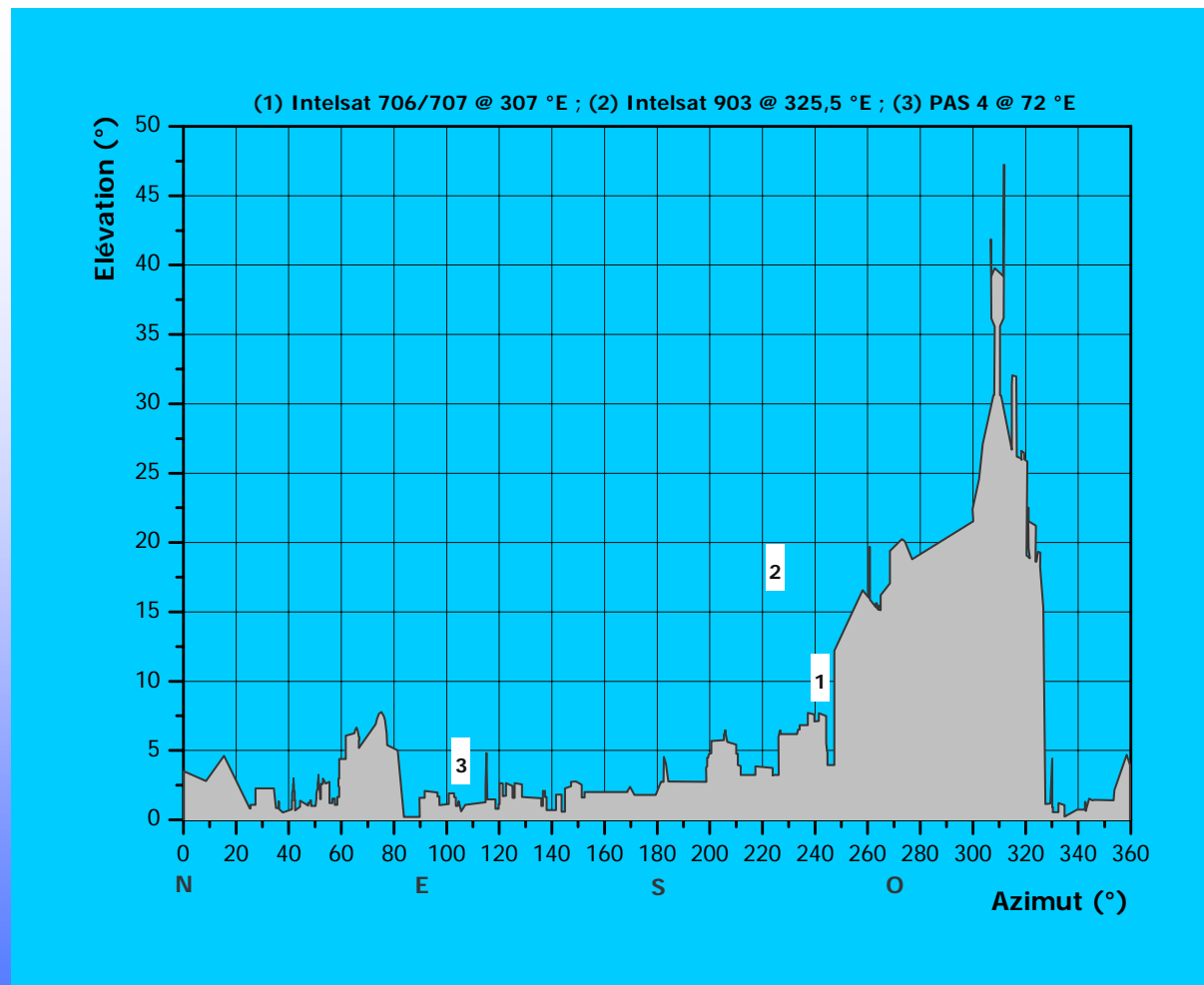
Progress work on:

- 1- the satellite simulator;
- 2- the set-up of a 2nd station for the links with Asia

Satellite simulator of LNE-SYRTE

- 1- Recent developments presented at EFTF, Genève 2007;
- 2- Purchase of a microwave vector network analyzer and associated kits;
- 3- targets 2008:
 - 3.1) additional measurement with the satellite simulator;
 - 3.2) validation of the full-technique;
 - 3.3) implementation of satsim measurements into regular two-way sessions

Clear horizon from the site of the Observatoire de Paris (top roof of building B)



Set-up of a 2nd station for the links with Asia (1)



Set-up of a 2nd station for the links with Asia (2)



Set-up of a 2nd station for the links with Asia (3)

NTSC – OP link

1st test (CC+CODEs) done on 2007-07-17 & 18 from 08:30 to 09:00 UTC

2nd test (CC+CODEs) done on 2007-07-24 from 08:30 to 09:00 UTC

Parameters recorded at OP

AZ 105,63 °, EL 4,59 °, PO 117,44 ° (*station*)

NTSC Clean Carrier dynamic range 15 dB

PAS-4 offset +5,2 kHz

Tx power -16 dBm (coupled), Rx power level -42 dBm, C/N₀ 56 dBHz
(*average*)

Set-up of a 2nd station for the links with Asia (4)

**OP ready to do experiments with
NICT, NTSC, NMIJ, TL, etc ... through PAS-4
As soon as possible**

**OP will be able to do regular sessions
by the beginning of 2008**