

# FIRST CNES WORKSHOP ON GALILEO SIGNALS AND SIGNAL PROCESSING

12 & 13 October 2006, IAS ( Institut Aero Spatial ) Toulouse, France

## Abstracts

The aim of this workshop is to provide an overview of the GALILEO Signal definition, characteristics and performances related to any of the L-band navigation services. The use of GALILEO signals for space navigation and timing, science applications like radiooccultation for meteorology or ionospheric observations for instance, or geodesy, mass market and 3 frequencies aeronautical applications will be considered. The selected papers will mainly focus on signal processing aspects. The Workshop is free of charge.

## Topics

### *E5 ALTBOC processing*

- ALTBOC for aviation
- ALTBOC for space applications
- ALTBOC for geodesy or science
- ALTBOC generation methods
- ALTBOC for new GNSS systems
- ALTBOC filtering issues
- QPSK processing of ALTBOC
- ALTBOC ultimate performances
- ALTBOC PN codes
- E5+L5 signal processings

### *L1 BOC(1,1) and/or MBOC Processing*

- Processing of GALILEO candidate optimized L1-BOC(1,1) signal so called MBOC
- Method to process jointly the BOC(1,1) and the BOC(6,1) components of GALILEO and/or GPS III s
- Use of data wiping to process GPS III L1C and GALILEO OS signals
- MBOC Ultimate performance
- MBOC L1 + L5-E5a iono-correction performances
- GALILEO L1 OS and GPS III L1C PN codes

### *L1- BOC(15,2.5)cos and E6 BOC(10,5)cos processings*

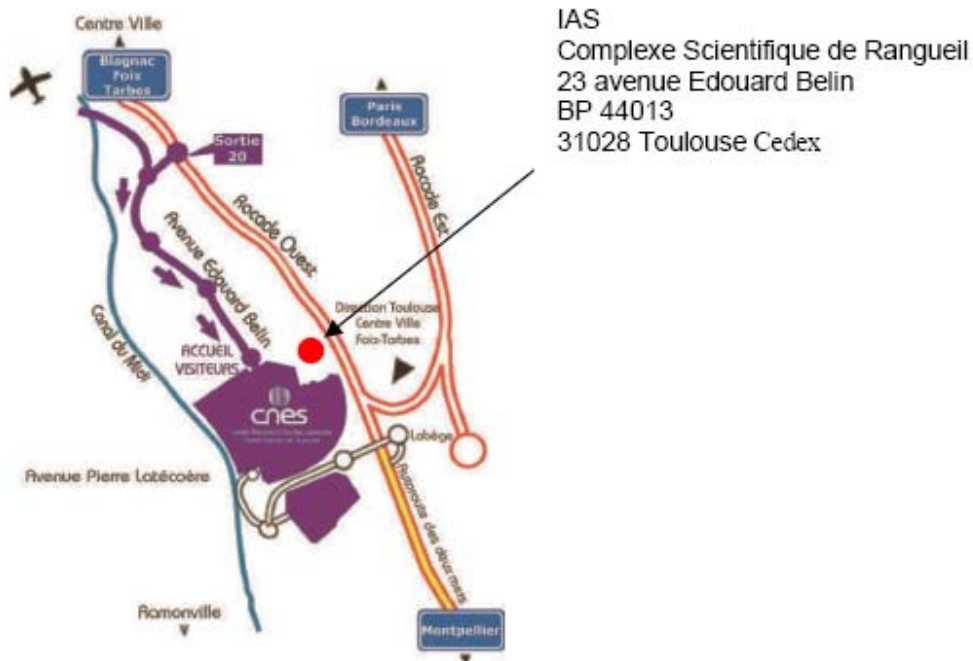
- Correlation peak ambiguity resolution
- Acquisition methods
- PRS-L1 + PRS E6 iono correction performances

### *5\*1.023 Mcps new GNSS Standards*

- Use of E6 QPSK(5) and addition to E5a, E5b and L1 for science and/or QCAR ; other uses
- Use of QPSK(5) by GALILEO, GLONASS, QZSS, COMPASS; multistandard signal processings

## Abstracts and Further dates

Abstracts for contributions should be emailed to be received **BEFORE 4 AGUST 2006** at the following addresses: [jean-luc.issler@cnes.fr](mailto:jean-luc.issler@cnes.fr); [jean-luc.gerner@esa.int](mailto:jean-luc.gerner@esa.int); [jeremie.godet@cec.eu.int](mailto:jeremie.godet@cec.eu.int); [guenter.hein@unibw.de](mailto:guenter.hein@unibw.de); AND [suzette.coustilier@cnes.fr](mailto:suzette.coustilier@cnes.fr). Abstracts should be about 1000 words, but give sufficient information to enable an objective assessment to be made by referees. As well as the title of the paper, submissions should indicate the appropriate topic, as listed above, and include the name(s) of author(s), organisation(s), email address(es), phone and fax number(s) and full postal address(es). The meeting and all papers will be in English. Notification of acceptance of paper: **24 august 2006**. Full paper up to 8 pages required for publication: **2 october 2006**. Registrations to attend the workshop have to be made on the following website before the **6 october 2006** : <http://cnes.cborg.net/cct/bipublic.html> (CNES CCT : Centre de Compétence Technique ). The best papers will be published in the Space Communications Journal (IOS Press).



<http://www.inst-aero-spatial.org/>

