

# CNES/CLS IGS Analysis Center: Contribution to MGEX and recent activities

S. Loyer (1), F. Perosanz (2), F. Mercier (2), H. Capdeville (1) and A. Mezerette (1)  
(contact: sloyer@cls.fr)

(1) CLS, Collecte Localisation Satellites, 8-10 rue Hermès, 31520 Ramonville Saint Agne, France  
(2) CNES Centre National d'Etudes Spatiales, 18 av Edouard Belin, 31400 Toulouse, France

## Introduction

CNES participates as Analysis Center since 2009 in the International GNSS Service (IGS). GNSS data are processed by its subsidiary CLS with the software package GINS/DYNAMO. This presentation describes the main recent evolutions of the processing strategy of the CNES/CLS IGS Analysis center (grg products). Since beginning of year 2015 our contribution to MGEX and to IGS final products is based on the same combined GPS-GLONASS-Galileo solution. This evolution implying software and network changes is described more precisely below. Some impact on our products is also discussed. Two studies initiated by the users needs are also presented: one on 5s clock multi-constellation densification and one on Wide Lane GPS satellite biases.

## Multi-GNSS products

### Multi-GNSS processing

Year 2015 corresponds to a significant evolution on our final products generation. To avoid the maintenance of two redundant & different processing chains it was decided to merge IGS final & MGEX processing together. On GPS week 1840 (12 Apr. 2015) we started a new common processing including the three GPS GLONASS & Galileo constellations (see figure 1 and Table 1). This change was also associated to a

GLONASS



Figure 2: Network and sub-networks used in our current products. The number of data used differ for each constellation.