

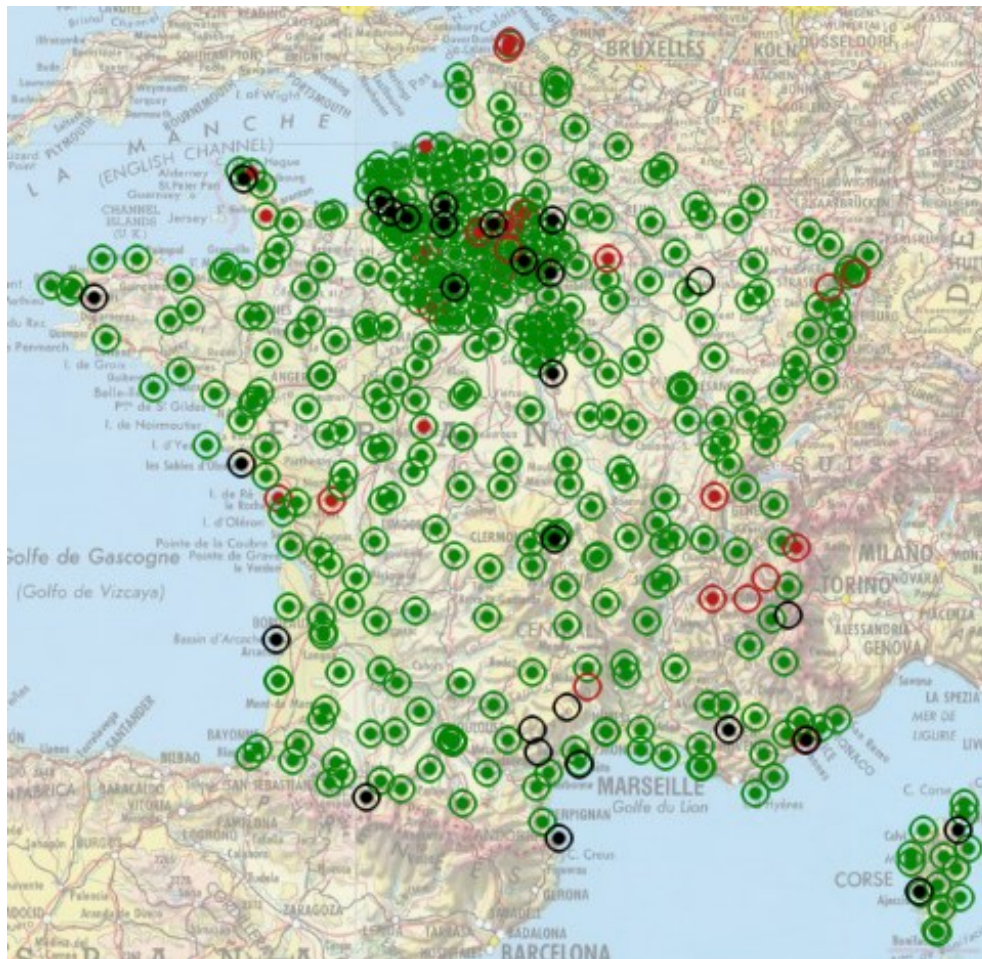
National Report France

**Operational contribution to the national and global
geodetic infrastructure**

EUREF 2016 Symposium, San Sebastian , 25th-27th May 2016
National Report of France

National geodetic infrastructure

GNSS permanent network (RGP 1/2)



<http://rgp.ign.fr>

National geodetic infrastructure

GNSS permanent network (RGP 2/2)

Network:

- 444 stations (366 GPS+Glonass, 43 GPS+Glonass+Galileo)
- 27 EPN, 12 IGS, 4 MGEX
- 25 stations owned by IGN, all others integrated in RGP via partnership
- Contribution to EPN Densification : 112 stations

Real time:

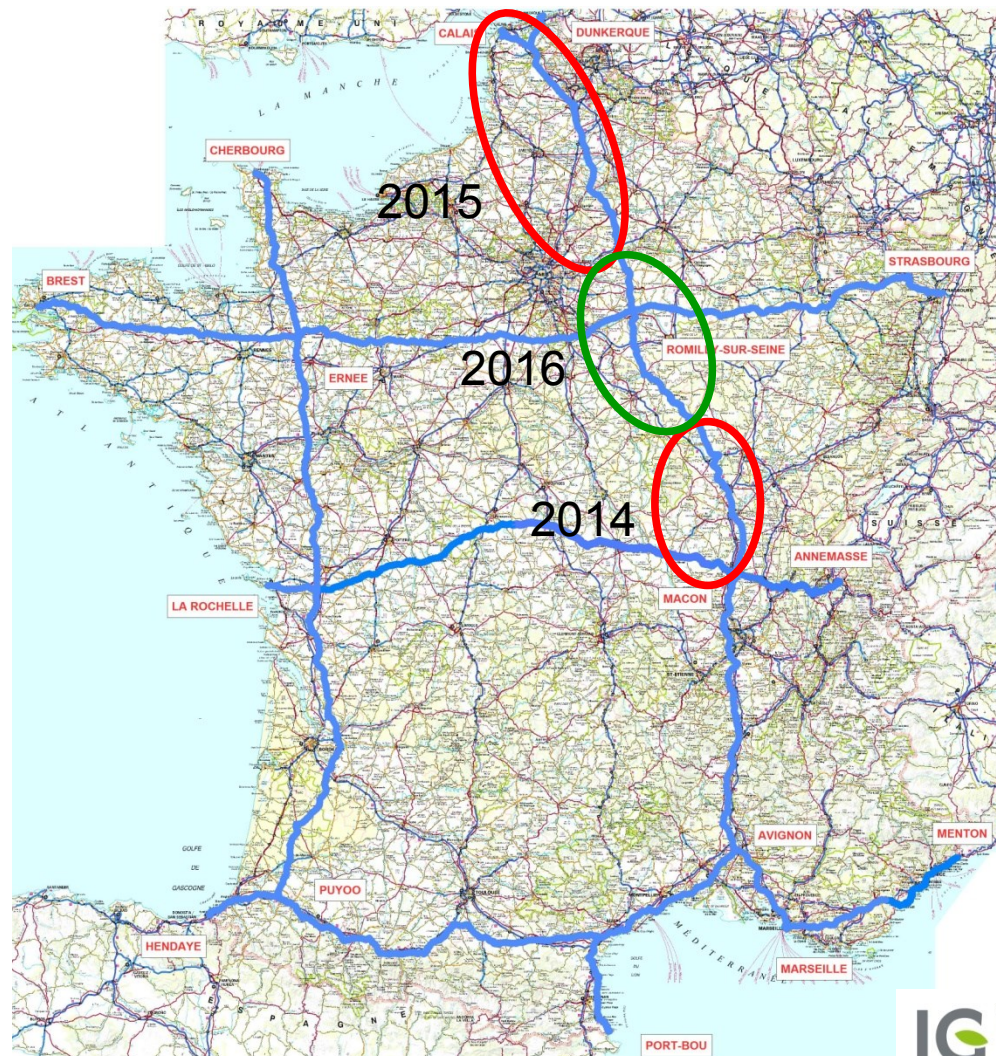
- caster (rgp-ip.ign.fr) with 56 stations (25 IGN stations and 31 partners' stations)
- 10 stations EUREF-IP, 11 stations IGS-IP
- Streams used by IGN and real time network partners; they can also be provided on demand for non commercial applications.

New service:

- Opening of an Online Processing service since april 2016 (Bernese 5.2, Network processing, static only, National reference systems in France and French territories, ITRF08 otherwise)

National geodetic infrastructure

Scientific leveling network (NIREF)



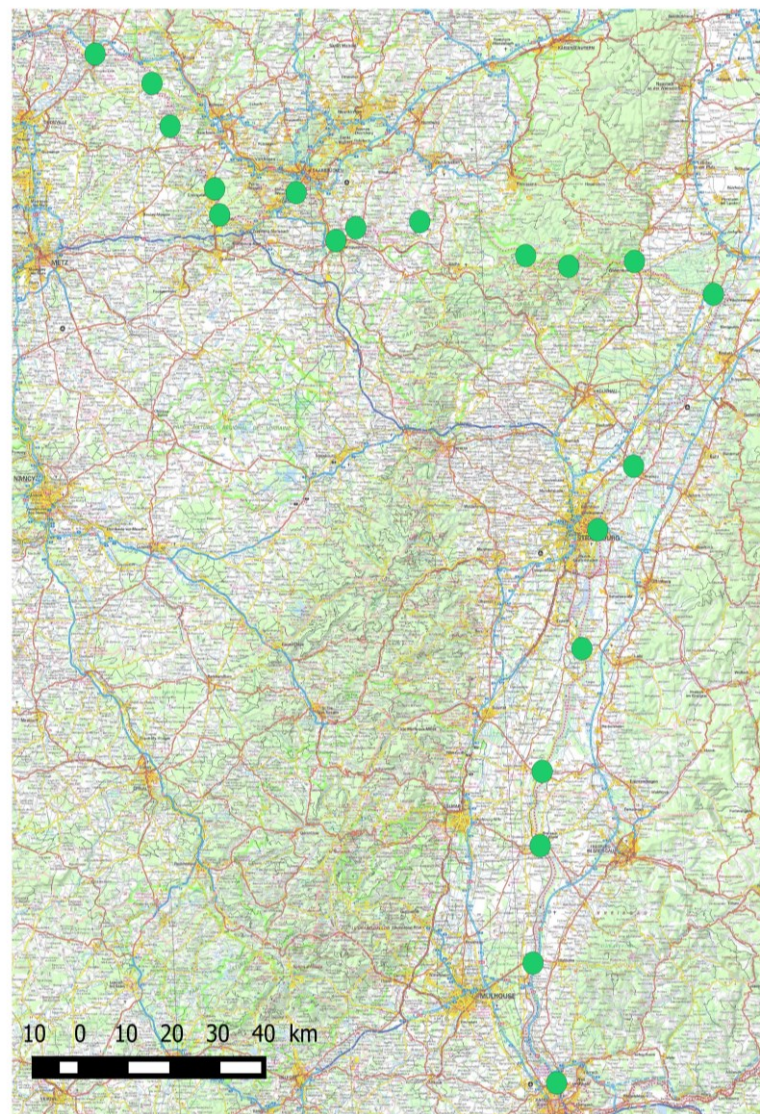
National geodetic infrastructure

Leveling networks

➤ Links between operational leveling networks

2013 : Belgium and Luxembourg (26 links)

2016 : Germany (20 links)



National geodetic infrastructure

Gravimetric reference network

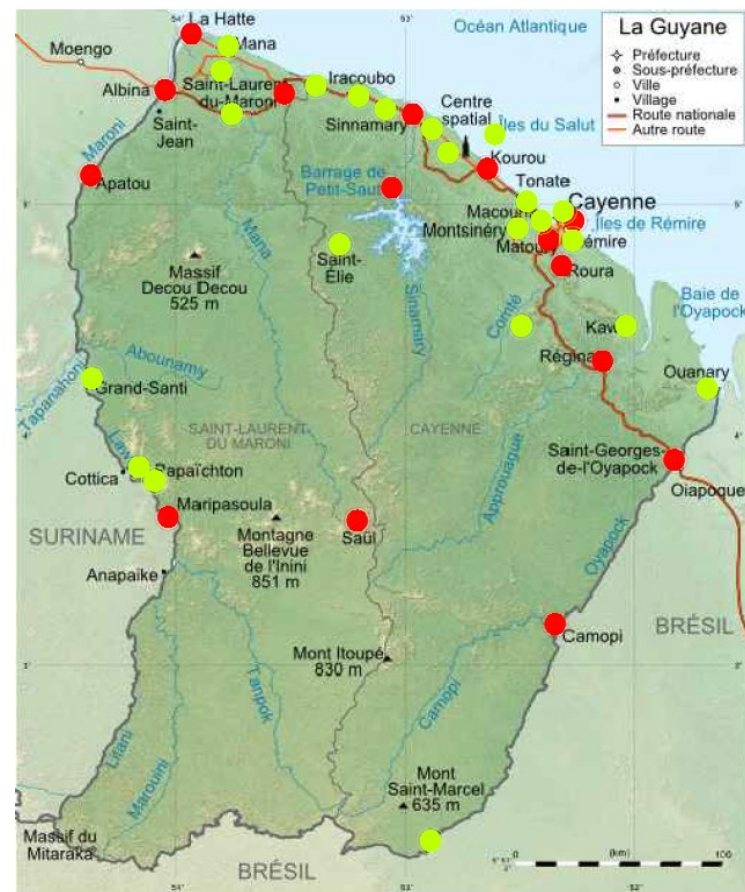
➤ Maintenance of the existing network :

- Lost points
- Improve quality

➤ New networks

- 2014 : Guadeloupe
- 2015 : Martinique
- 2016 : Guyane
 - 15 absolute (red)
 - 21 relative (green)
- 2017 : Mayotte – Ile de la Réunion

➤ Acquisition of a new absolute gravimeter



IAG services and commissions

➤ IGS (International GPS-GNSS Service)

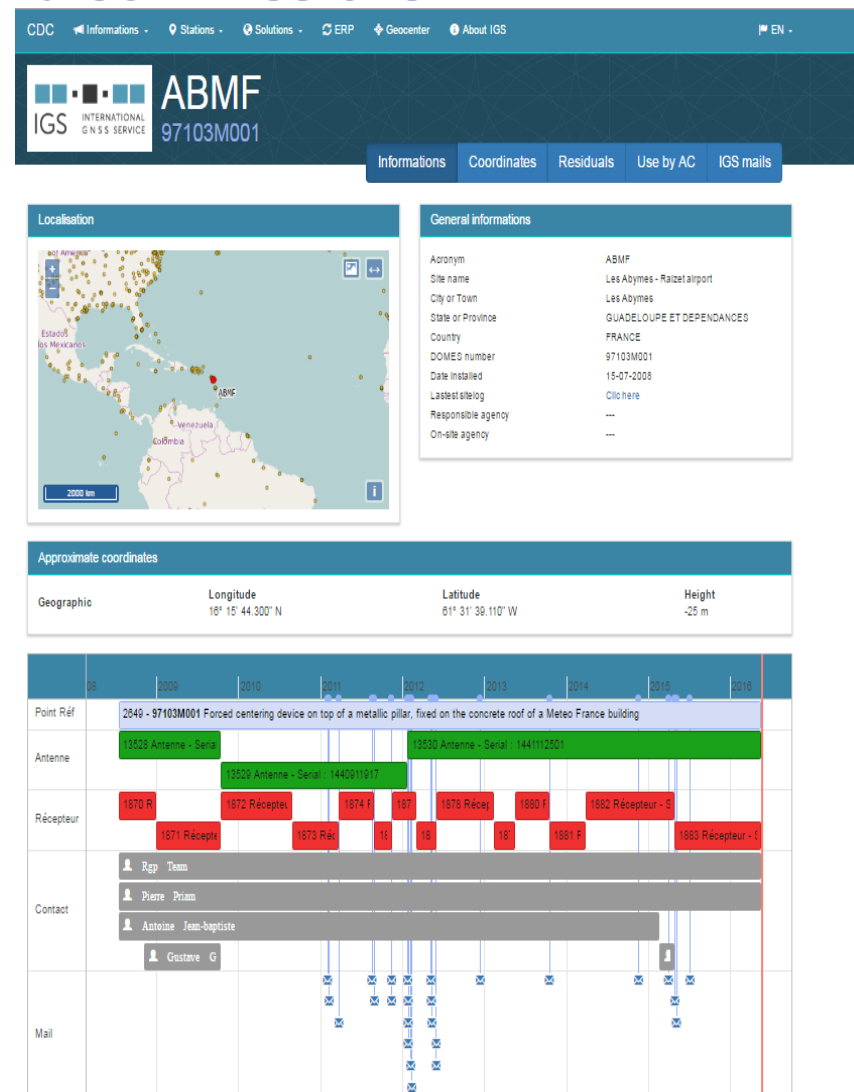
- IGS combination center (coordinates & ERPs) and Global Data Center
- IGS2014
- Website <http://webigs.ign.fr/en/>

➤ ITRF :

local ties

➤ EUREF :

Analysis center



Open Data

Collectivities networks

- Local authorities and public institutions maintain a materialized geodetic network on their jurisdiction. Some have begun to follow the public geodetic data sharing approach initiated by the SGN in 2014, called CANEX.
- This is to integrate data from their canvas to the geodetic database and diffusion on the IGN's website.
- It is also to collect real-time documentary information from an application on smartphone

