



INSTITUT NATIONAL
DE L'INFORMATION
GÉOGRAPHIQUE
ET FORESTIÈRE

NATIONAL REPORT FRANCE

EUREF 2018



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GNSS PERMANENT NETWORK

Network

492 permanent stations (31/03/2018)

31 new stations in 2018

Mostly multi constellation (>80 % GPS + GLONASS)

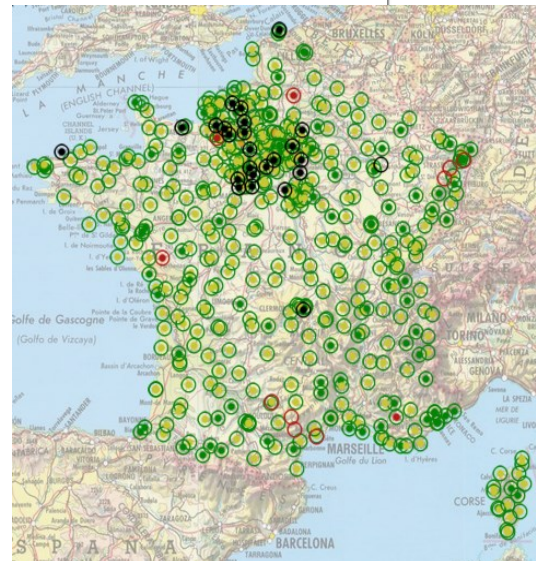
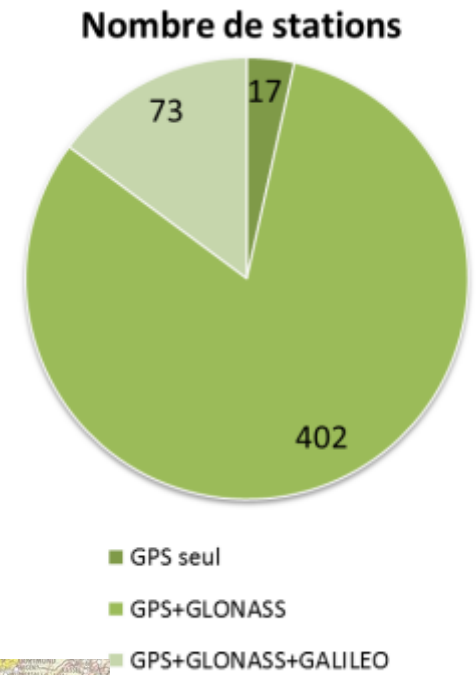
IGN acts as a coordinator of many partners

Services

Website : <http://rgp.ign.fr> >3000 visitors / month

Data download : ~3000 dl / month

Online GNSS processing service ~300 processings / month



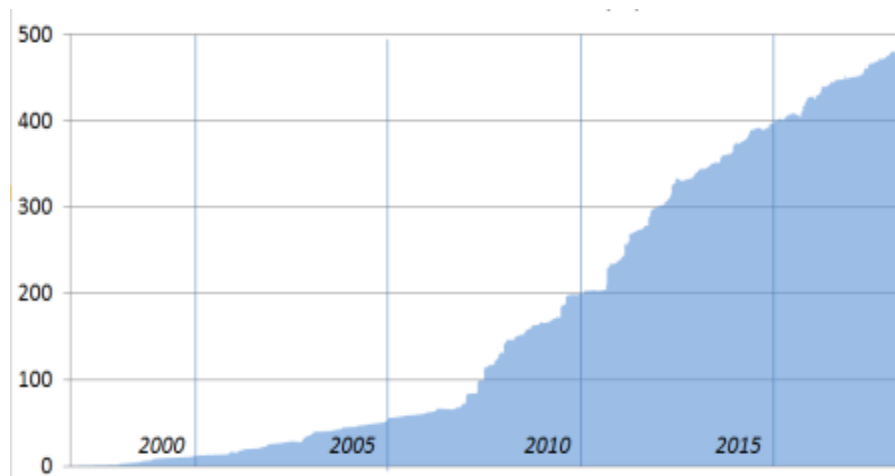
GNSS PERMANENT NETWORK

Perspectives

More than 500 stations

Development of the networks in Guyana, Guadeloupe and Martinique

Online PPP services



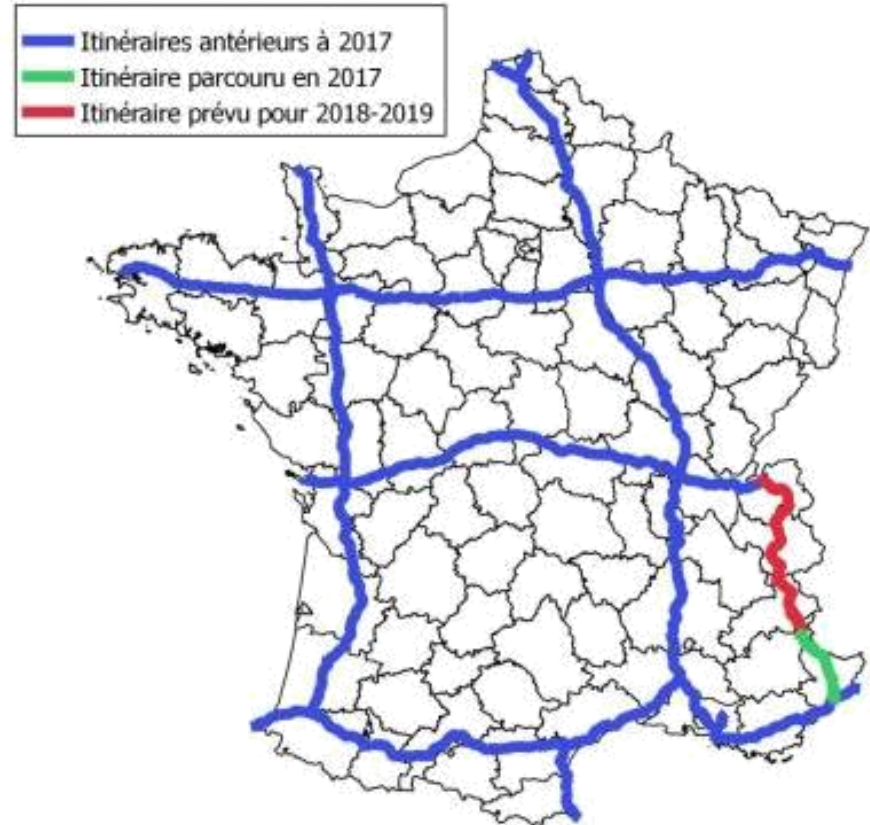
SCIENTIFIC LEVELLING NETWORK

National Levelling Network

Maintenance of the national levelling network
A 12-Years project (2008-2020)

NIREF

140km in 2017 in the Alpes from Nice
2018-2019 : up to Geneve



GRAVIMETRIC NETWORK

National Gravimetric Network

Maintenance of the national gravimetric network

- 45 absolute points
- 132 relative points

2018-2019

New reference network in Saint Pierre et Miquelon

Improvements of the network

Tests in areas with high gravimetry variability, like Brittany



CONTRIBUTION TO THE GLOBAL GEODETIC INFRASTRUCTURE

IGS (international GNSS service)

- IGS reference frame combination center
- Global data center
- Organization of IGSworkshop 2017 in July in Paris

EUREF

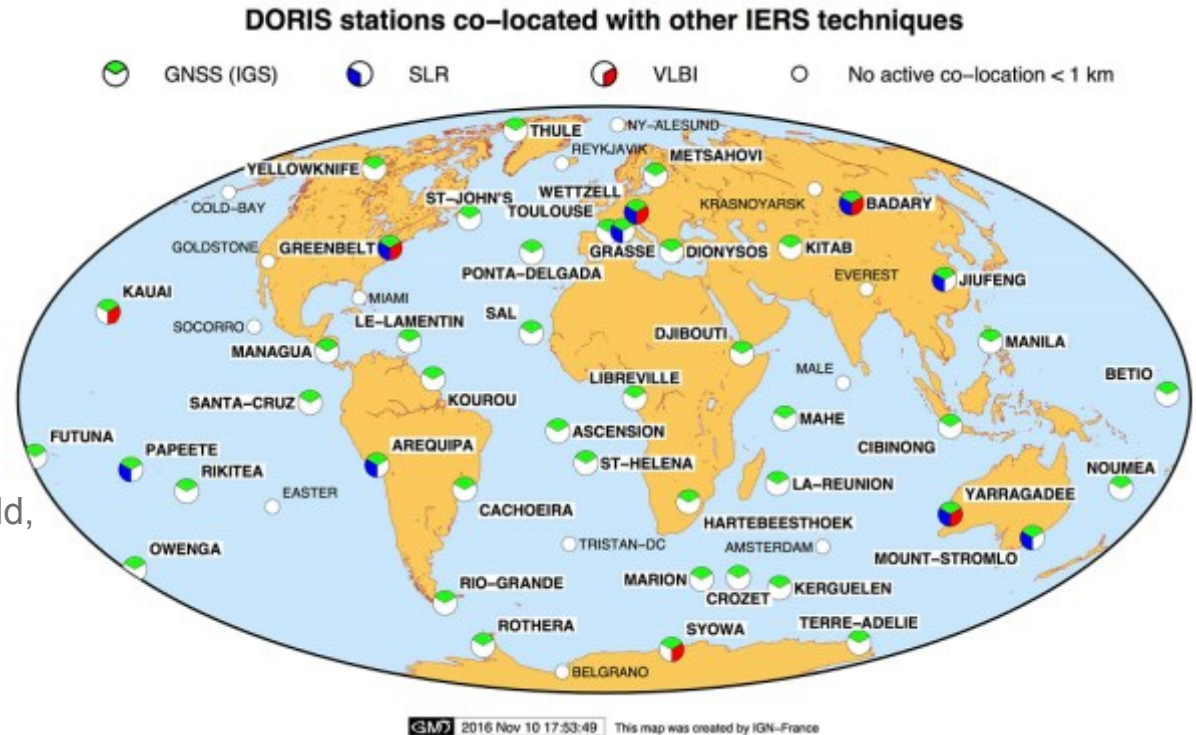
- Analysis center
- Local data center
- Reprocessing of all our data soon to be released, probably in July 2018

CONTRIBUTION TO THE GLOBAL GEODETIC INFRASTRUCTURE



A 30 year partnership between CNES and IGN.

Ca 60 stations all around the world, co-located with other techniques



IGN contributions

DORIS network maintenance and evolution

IDS data center, Member of IDS, DORIS representative at IERS

CONTRIBUTION TO THE GLOBAL GEODETIC INFRASTRUCTURE



GNSS network for IGS and navigation

Partnership between CNES and IGN.
36 full-GNSS stations all around the world

Real-time service



IGN contributions

Operational infrastructure management

Redundant mission center

R&D for inter-system calibration and PPP

CONTRIBUTION TO THE GLOBAL GEODETIC INFRASTRUCTURE



Network for sea-level observation from tide gauges (relative sea levels) and from modern geodetic techniques (vertical land motion and absolute sea level)

GNSS datacenter for GLOSS (Global Sea Level Observing System)

IGN contributions

GNSS data center

GNSS stations
implantation, management
and measurement





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