

# IDS Report

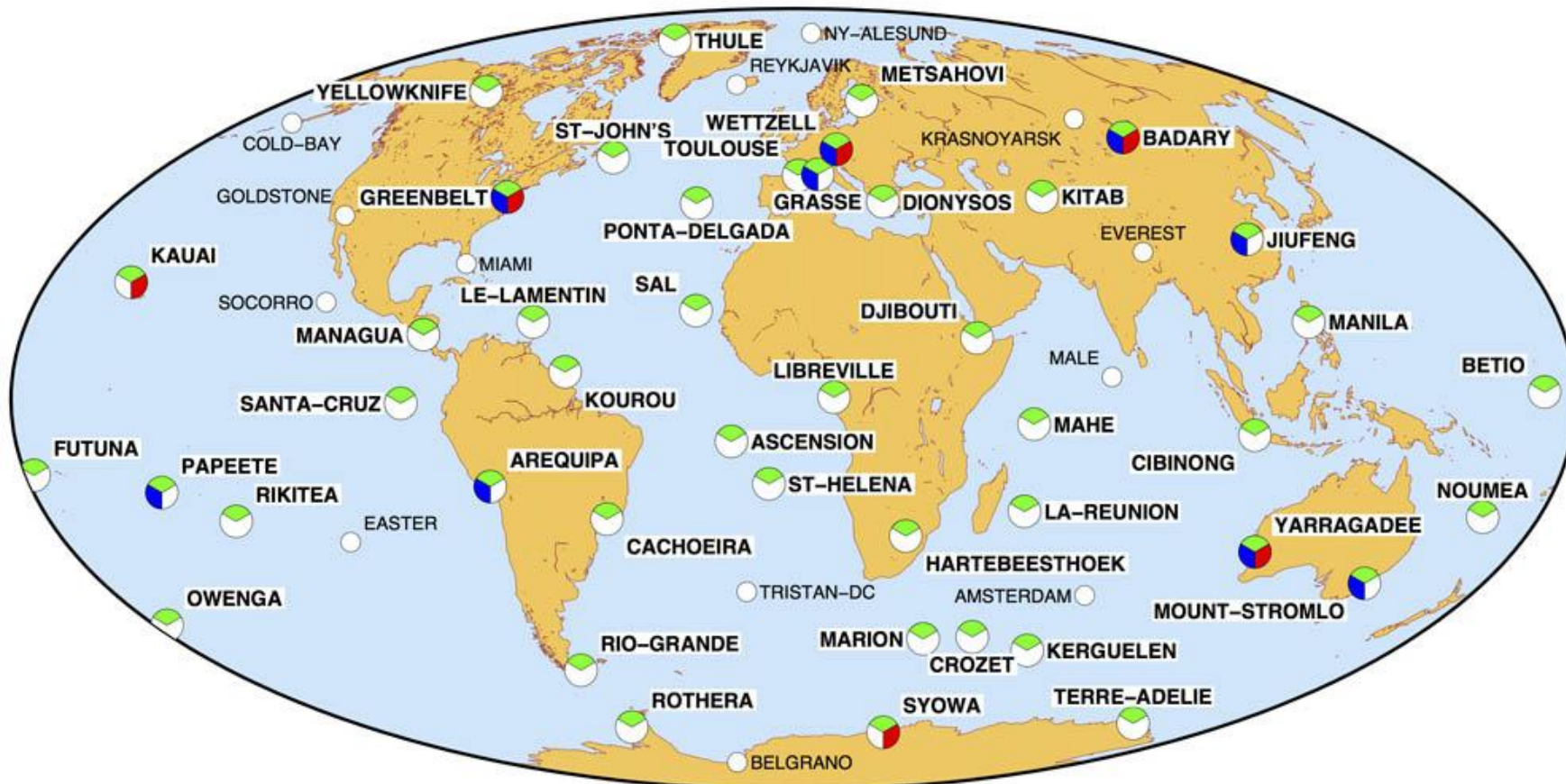
GGOS Bureau for Networks and Observations  
Vienna, 26 April 2017

**D**oppler  
**O**rbitography  
and **R**adiopositioning  
**I**ntegrated  
by **S**atellite

# NETWORK STATUS

## ■ 45 CO-LOCATIONS OUT OF 57 DORIS SITES

 GNSS (IGS)    
  SLR    
  VLBI    
  No active co-location < 1 km

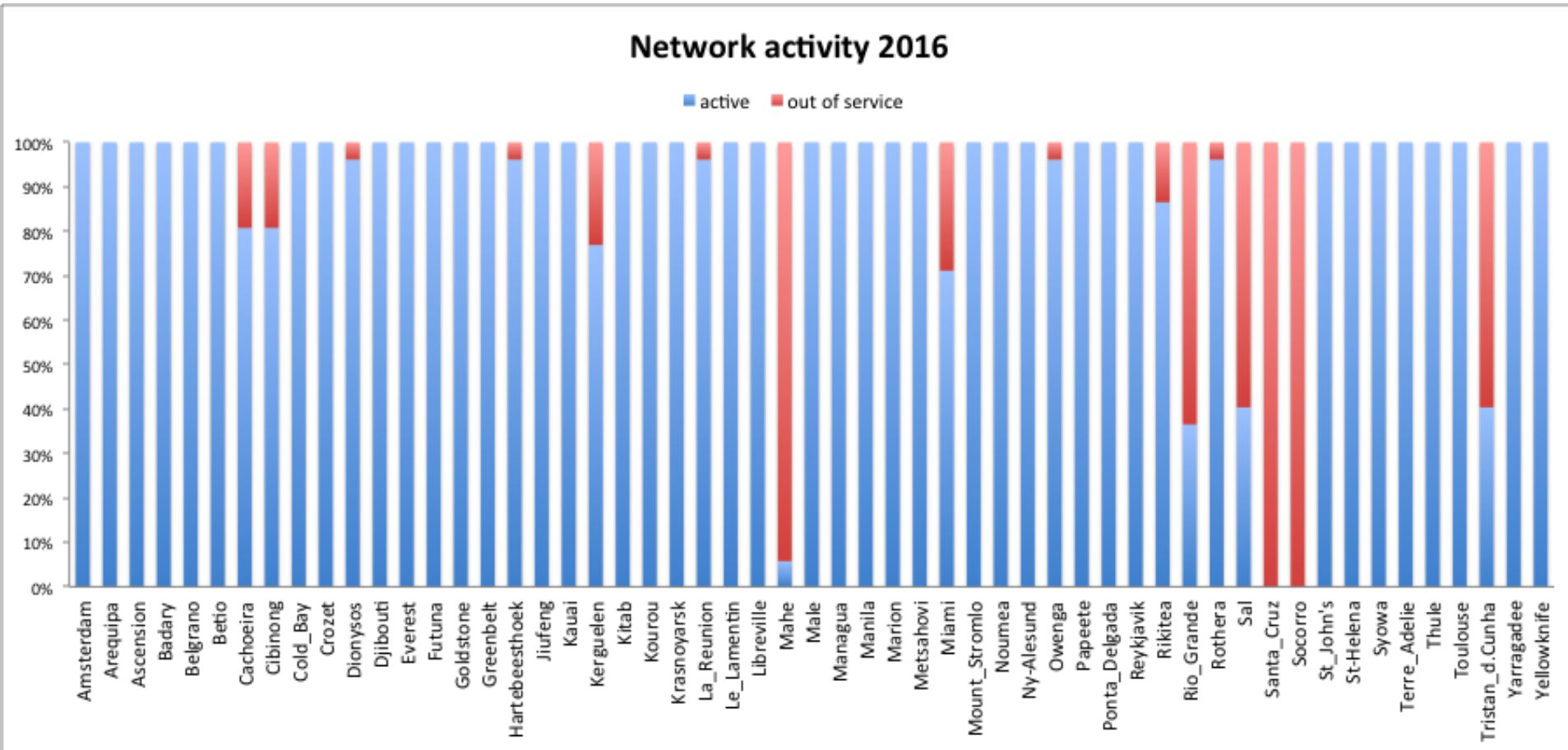


GM 2016 Nov 10 11:42:03 This map was created by IGN-France

# NETWORK STATUS



- RELIABLE SERVICE: ANNUAL MEAN OF 89% OF ACTIVE SITES IN 2016
- CURRENTLY: 5 STATIONS ARE OUT OF ORDER



# NETWORK EVENTS



## RECENT NETWORK EVENTS

- Sep. 2016: new DORIS station at Wettzell observatory becoming a new 4 techniques site
- Feb. 2017: local tie survey at Papeete, Tahiti
- Mar. 2017: reconnaissance and RF compatibility tests at Papenoo, Tahiti, future core site
- Mar. 2017: restarting at Socorro, Mexico (equipment replacement) out of order for a year

### Papenoo: potential GGOS Core Site

- Budget under consideration; various contributors: CNES, NASA, Observatoire de la Côte d'Azur, Observatoire de Paris, IGN...

#### Reconnaissance and tests results:

- Complying with the GGOS requirements
- No impact on the Galileo TTCF-6 station located 800m away
- DORIS-VLBI compatibility: -60 dBm from DORIS can be accepted; that is to say at least 300m between the two instruments; natural barrier or RF shield can provide up to -20 dBm attenuation



## ■ SHORT TERM (2017):

- San Juan, AR: new station installing in place of Santiago (**3 techniques site**)
- Guam, US: new station to near IGS station, GUUG
- Easter Island, Chile: relocating (hosting migration)

## ■ LONGER TERM (2018):

- Rothera, Antarctic: station re-location (site refurbishment)
- Ny-Ålesund, Spitzberg, Norway: relocating (new **4 techniques site**)
- Katherine, AS: new station installing in place of Port-Moresby (**3 techniques site**)
- Changchun, CN: new station installing in place of Sakhalinsk (**3 techniques site**)
- Papenoo, Tahiti, FR: new **4 techniques site**

## ■ 4<sup>TH</sup> GENERATION DORIS GROUND BEACON

- Design detailed review last January; next step: prototype manufacturing



## ■ IDS GOVERNING BOARD

- Frank Lemoine, new Analysis Center representative and new Chair of the IDS GB for 2017-2020
- Petr Stepanek, new IDS representative to the IAG
- New Working Group on NRT DORIS Data (chair: D. Dettmering)

## ■ IDS COMMUNICATION

- IDS website redesign (including webservice)
- 3 newsletters already on-line; newsletter#4 in preparation
- IDS Activity Report 2016 in preparation

## ■ NEXT IDS MEETINGS

- IDS AWG + GB, in London (UCL), 22-24 May 2017
- IDS Retreat under preparation