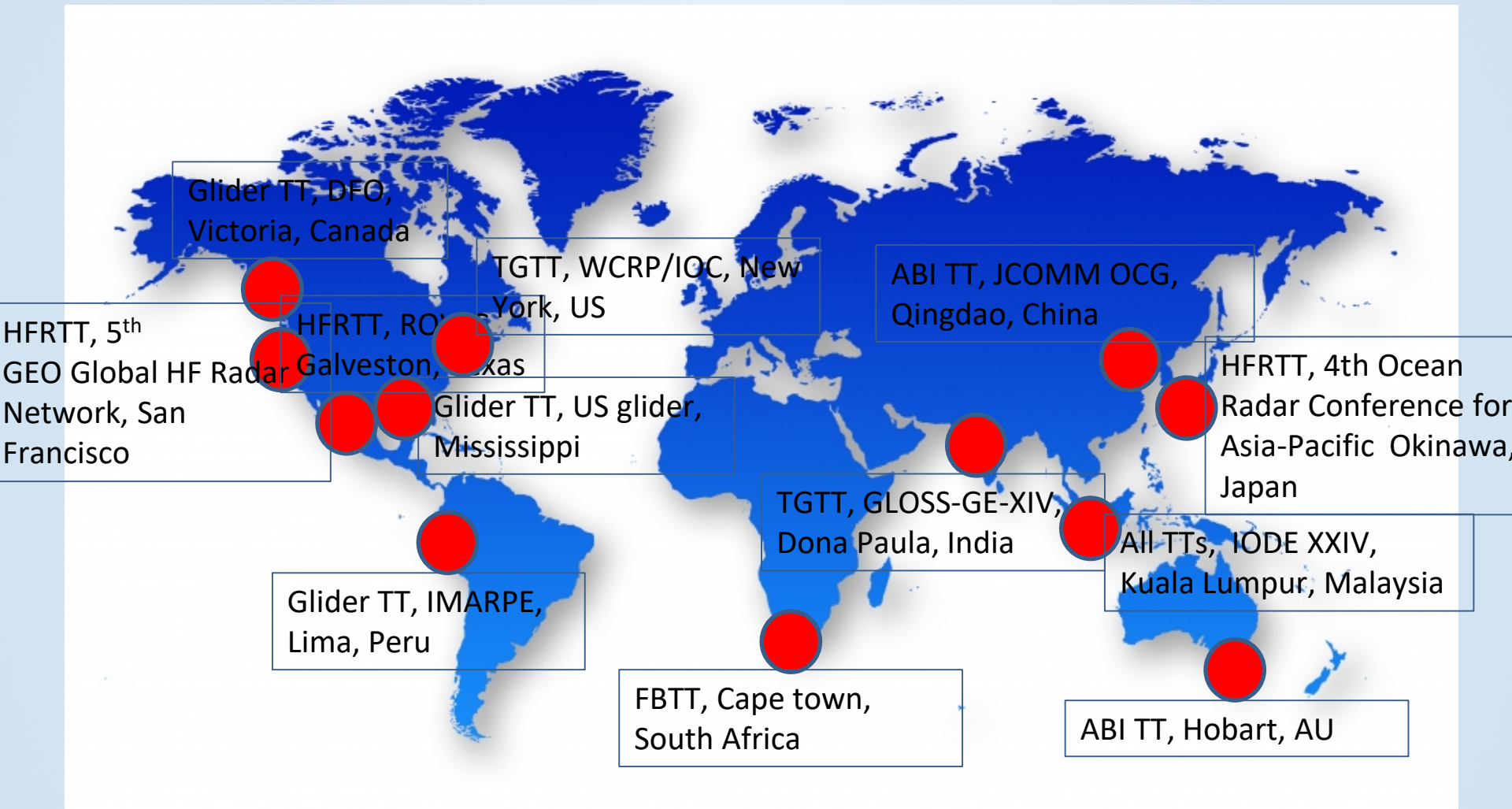
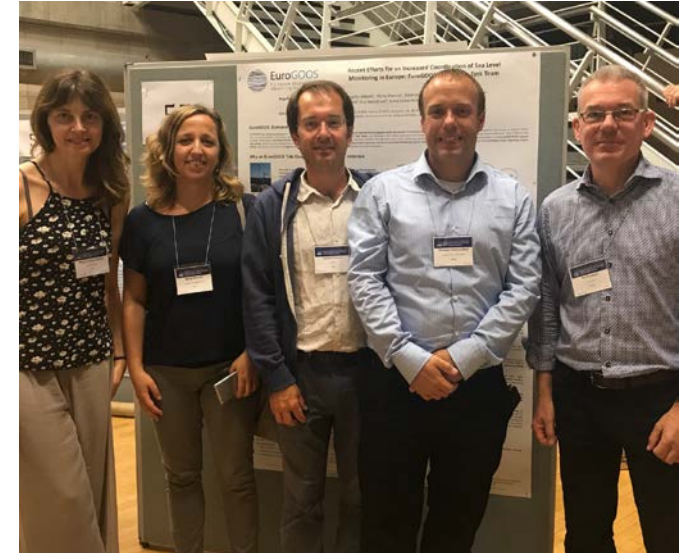


# Task Teams raising awareness of EuroGOOS globally



# Promotion activities

➤ **July 2017** (New York): **presentation of the Task Team in the WCRP/IOC Conference “Regional Sea Level Changes and Coastal Impacts”** and the **GLOSS Group of Experts XV meeting**



## Recent Efforts for an Increased Coordination of Sea Level Monitoring in Europe: EuroGOOS Tide Gauge Task Team

Begoña Pérez Gómez<sup>1</sup>, Vincent Donato<sup>2</sup>, Angela Hibbert<sup>3</sup>, Marta Marcos<sup>4</sup>, Fabio Raicich<sup>5</sup>, Thomas Hammarklint<sup>6</sup>, Laurent Testut<sup>7</sup>, Alessandro Annunziato<sup>8</sup>, Guy Westbrook<sup>9</sup>, Anna Gyldenfeldt<sup>10</sup>, Patrick Gorringe<sup>11</sup>

(1) Puertos del Estado, Spain, e-mail: bego@puertos.es, (2) SHOM, France, (3) NOC, Liverpool, UK, (4) UIB-IMEDEA, Spain, (5) CNR-ISMAR, Italy, (6) SMA, Sweden, (7) LEGOS, France, (8) JRC, European Commission, (9) Marine Institute, Ireland, (10) BSH, Germany, (11) EuroGOOS Office, Belgium

### EuroGOOS: European Global Ocean Observing System

EuroGOOS (<http://www.eurogoos.eu/>) is an International Non-Profit Organisation committed to European-scale operational oceanography within the context of the Global Ocean Observing System of the Intergovernmental Oceanographic Commission of UNESCO (GOOS, IOC). For a more efficient coordination between different countries, EuroGOOS has established a number of Task Teams, each focusing on one marine observation technology, namely HF-Radars, Tide Gauges, Gliders, ARGO floats, Marine Mammals, Fixed Platforms and FerryBox. These intend to promote scientific synergy and technological collaboration among the countries. Task Team members exchange open source tools, collaborate in areas of common interest, and jointly make European data available to the EuroGOOS ROOS regional data portals, which in turn are feeding data to the European Marine Observation and Data Network (EMODnet) and Copernicus Marine Environmental Monitoring System (CMEMS). Task Teams are set up within the framework of the European Ocean Observing System (EOOS), setting out a vision for truly integrated end-to-end ocean observing in Europe, for the benefit of society, science and innovation.



**EuroGOOS**  
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## **Tide Gauge Task Team - Main achievements in the last year and EuroGOOS integrated strategy**



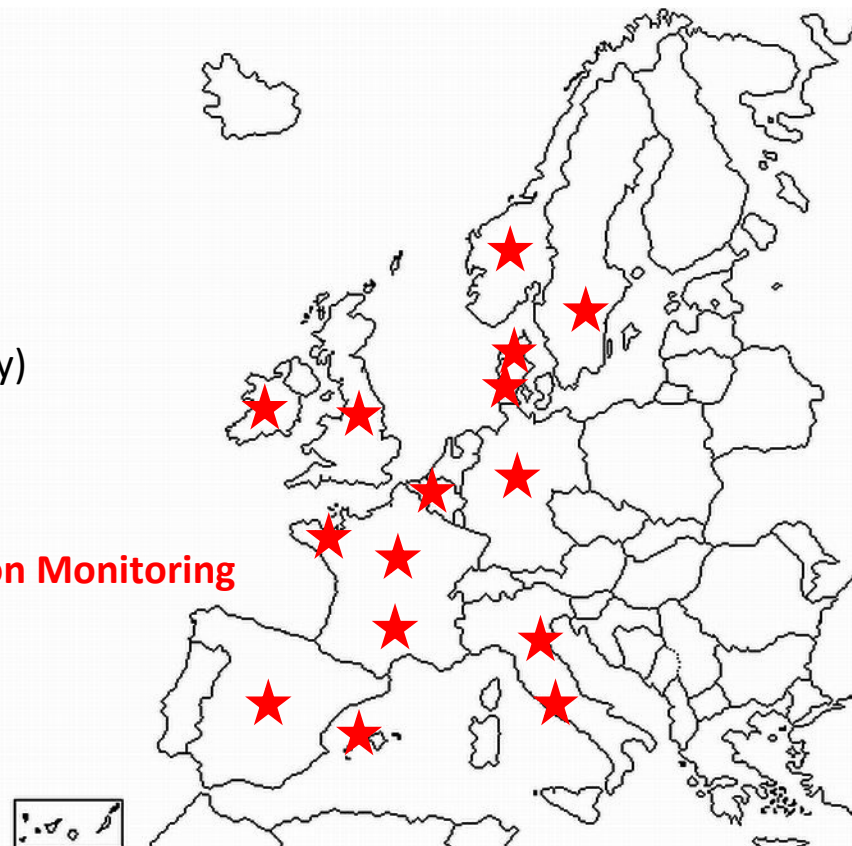
Begoña Pérez Gómez  
TGTT members

EuroGOOS General Assembly 2018  
Brussels, 24th May 2018

# Membership

Co-chairs: Begoña Pérez (Puertos del Estado, Spain)  
and Vincent Donato (SHOM, France)

- Thomas Hammarklint (SMHI, Sweden)
- Guy Westbrook (MI-Ireland)
- Marta Marcos (UIB-IMEDEA, Spain)
- Anna von Gyldenfeldt (BSH, Germany)
- Fabio Raicich (CNR-ISMAR, Trieste, Italy)
- Laurent Testut (LEGOS, France)
- Aksel Voldsun (Norwegian Hydr. Service, Norway)
- Angela Hibbert (NOC, UK)
- Alessandro Annunziato (JRC-EC)
- Deirdre Fitzhenry (MI-Ireland)
- **Francisco Hernández (VLIZ, IOC Sea Level Station Monitoring Facility) (2017)**
- **Per Knudsen (DTU, Denmark) (2017)**
- **Kristine S. Madsen (DMI, Denmark) (2017)**



*TG operators, GLOSS GE, NEAMTWS WG3 members and final users*

***14 organizations from 10 different countries, no participation from North Africa -yet***

# Action Plan 2017

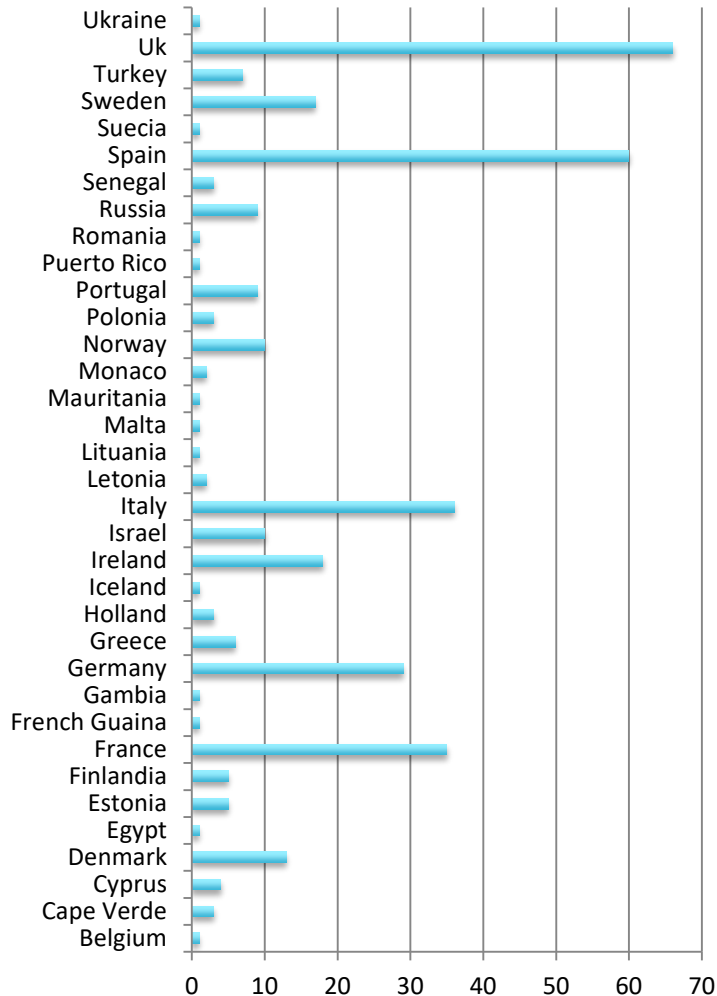
Action	Deadline
<b>Note to policy-makers about the status of the sea level networks.</b>	<b>Completed: 15/2/2017</b>
Summary of the survey launched in 2016	Completed: 28/2/2017
<b>Recommendations on standard names, metadata and data processing of tide gauge data for CMEMS In-Situ Tacs, taking into account GLOSS standards and altimetry community requirements.</b>	<b>Completed: 31/3/2017</b>
Analysis of existing gaps in the data portals providing sea level data from European tide gauges.	30/06/2017
Tide Gauges Inventory	31/12/2017
Identify funding opportunities for improving/increase the existing tide gauge network	31/12/2017

# Main actions for 2018

- Completion of pending/ongoing actions:
  - identification of funding opportunities, new Tide Gauge inventory metadata and analysis of gaps in existing data portals with tide gauge data
- Enhance EuroGOOS TGTT website contents and provide more regular information about the TGTT activities to all national contacts
- Paper on status of European Tide Gauge network

# Tide Gauge Inventory

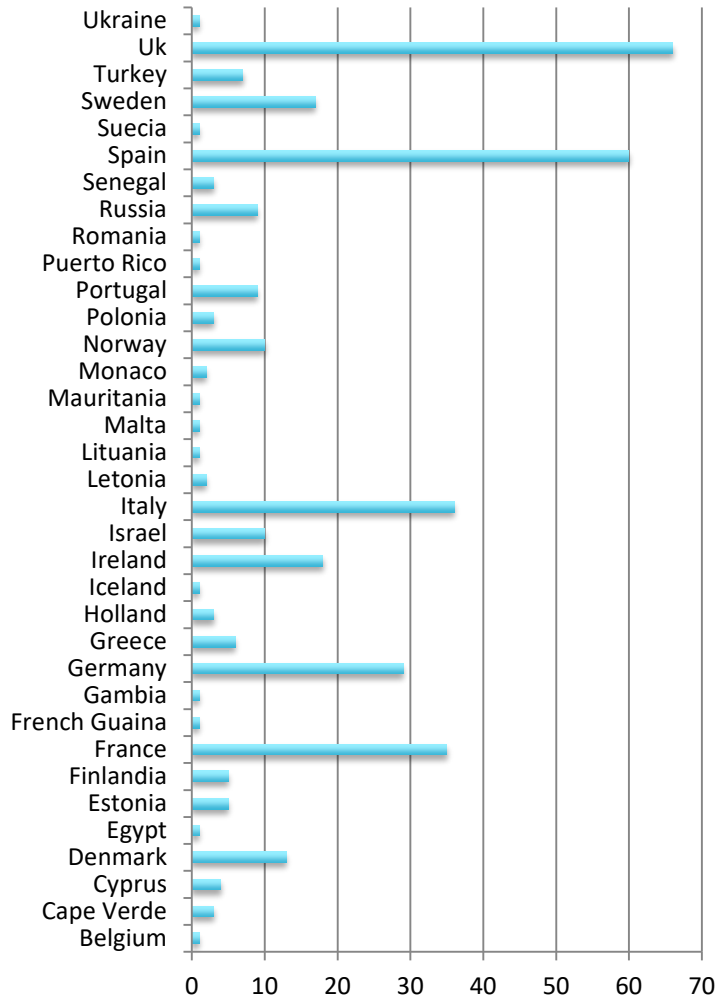
## Number of TG's per country



- ✓ 660 TG's from EuroGOOS TGTT Survey in 2016
- ✓ Need of integration with other inventories in the region: AtlantOS, EMODnet,.....
- ✓ TG's outside Europe will be considered if useful for one
- ✓ key application or service
- ✓ All TG's run by a European institution will be considered

# Tide Gauge Inventory

## Number of TG's per country



- ✓ New detailed and comprehensive inventory being prepared
- ✓ New headings of the inventory will include, for example:
  - *GNSS (Global Navigation Satellite System) station: (Yes/No)*
  - *Distance GNSS-TG*
  - *GNSS data processing institute*
  - *Ellipsoidal height to TGBM (Tide Gauge Bench Mark)*
  - *Vertical land movement (VLM) trend*

**VLM-GNSS information new priority !**



# Bottle necks / problems

- Problems to identify adequate national contact or responsible person on charge of tide gauges at several countries
- Difficulty to get new memberships/participation in the Task Team from the Mediterranean Sea
- Finding funding opportunities for improving/increase the existing tide gauge networks and tide gauge data portals

# Next meeting



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**National Oceanography Centre**  
NATURAL ENVIRONMENT RESEARCH COUNCIL

*from coast to deep ocean*

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Home

## Sea Level Futures Conference, Liverpool 2–4 July 2018



### Sea Level Futures Conference, Liverpool 2–4 July 2018

#### Programme

**Monday 2 July 2018**

9am – 5pm: EuroGOOS Tide Gauge Task Team Meeting (Supporting Event) . Doodson Room, National Oceanography Centre, Proudman Building Liverpool

4pm – 6pm: ECRA SL-CP Meeting (Supporting Event). Library, National Oceanography Centre, Proudman Building Liverpool

6pm – 10pm: Ice-breaker Reception: Foresight Centre

**Tuesday 3 July 2018**

9am – 5pm: Sea Level Futures, Day 1, Central Teaching Hub University of Liverpool

7pm – 10pm: Conference Dinner, Mercure Atlantic Tower

**Wednesday 4 July 2018**

**Sea Level Futures: PSMSL 85 years congress, UK, July 2018**  
**EuroGOOS Tide Gauge Task Team side meeting: July 2<sup>nd</sup>**



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*Thank you for  
your attention.....*