



Connecting Glider Data Flows in Europe and Beyond

Networking the glider community

Miguel Charcos Lloréns

Coastal Ocean Observing and Forecasting System (SOCIB), Palma, Mallorca



Balearic Islands
Coastal Observing
and Forecasting
System

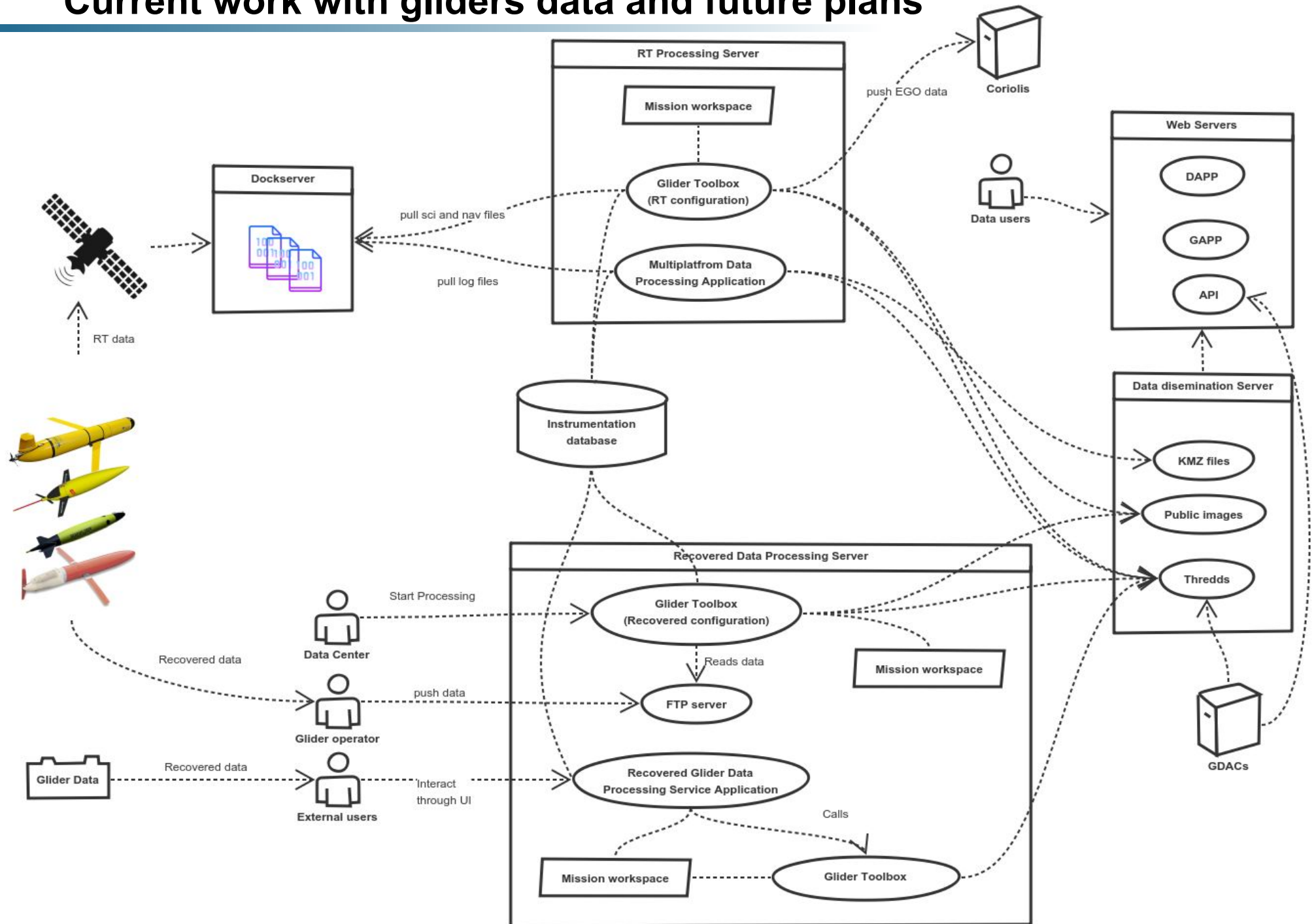
EuroGOOS glider data management task team meeting,
18th to 20th of September, Genoa, Italy

Status and role of the glider group

- **Gliders and missions:**
 - 4 G1 Slocum gliders: 27 science missions, 8 test missions
 - 4 G2 Slocum gliders: 46 science missions, 9 test missions
 - 2 Seaglider 1KA: 3 science missions, 1 test mission
- **Programs:**
 - Endurance lines
 - Mallorca-Ibiza-Mainland channels - quasi-continuous: 2011-2018
 - Sardinia-Mallorca channel: 2012, 2013, 2017, 2018
 - ABACUS (Mallorca-Algeria channel) endurance line: 2015-2017
 - Wildlife + gliders:
 - Alnitak: 2015, 2016, 2017
 - Multiplatform and international collaborations:
 - Galtika 2013
 - Alborex 2014
 - IRENE-CALYPSO 2017-2018
- **Personnel:**
 - 3 Glider Operators
 - 4 Engineering and Technology Development Division (ETD)
 - 3 Data Center personnel
- **Data management:**
 - Glider toolbox (open-source)
 - CF1.6 + EGO metadata compliance
 - QA/QC implementation
 - Physical and Biogeochemical calibration
 - Integration in Coriolis + EMODnet

Miguel Charcos Lloréns
SOCIB, Palma, Mallorca

Current work with gliders data and future plans



Problems or issues identified around glider data flow and management

- **Operations:**
 - Sync operations and data management database updates (eg. sensor history, installation, emergency recoveries, lost gliders ...)
 - Extract recovery data delays data processing
 - Communication between data center and glider operators
- **Data Quality:**
 - Inconsistencies of data due to evolution of software
 - Real time reprocessing
 - DOI and data versioning when reprocessing
- **Data dissemination:**
 - Dissemination of various versions of DM
 - Communication to aggregators of new versions of data
 - Complex metadata of RT data aggregation to Coriolis - Solved with EGO?

Implementation of a Quality Management System within SOCIB's Data Center

- **Data Management Plan**

Miguel Charcos Lloréns
SOCIB, Palma, Mallorca