







OceanGliders, JCOMMOPS and the role of a Technical Coordinator for the community

Victor Turpin vturpin@jcommop.org





GLOBAL OCEAN OBSERVING SYSTEM

A sustained collaborative system of ocean observations to take the pulse of the ocean



• Why a global ocean observing system?

Ocean observations are needed to:

- generate marine weather forecasts (safe and efficient maritime operations)
- manage extreme events and improve emergency response efficiency
- climate change and variability (enabling adaptation by communities)
- monitor ocean health
- sustainable use ocean resources



GOVERNANCE





UN Agencies, Joint Commission, Observing Networks - GOOS





Coordination Monitoring Support

















OCEANGLIDERS - THE GLIDER PROGRAMME OF THE GOOS





UN Agencies, Joint Commission, Observing Networks - GOOS





Coordination Monitoring Support











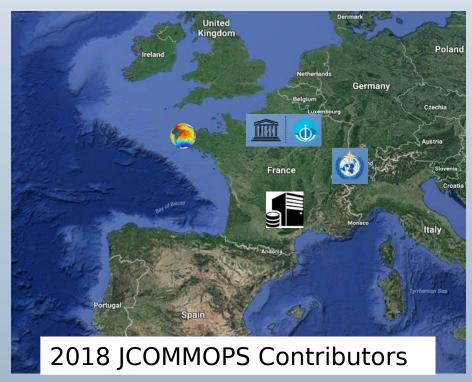


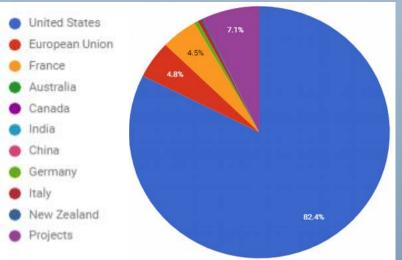




INFRASTRUCTURE

- Premises hosted by Ifremer Headquarters (Brest FRANCE)
- 7-person team:
 - Lead, Argo Technical Coordinator M. Belbéoch
 - Ship Technical Coordinator (SOT, GO-SHIP, Cruise Plans) M. Kramp
 - Software Architect A. Lizé
 - Web Developer T. Latter (subcontracted CLS/Toulouse)
 - Science/Communication/Administration Coordinator E. Rusciano (PhD)
 - DBCP/OceanSITES Technical Coordinator L. Jiang
 - OceanGliders/Regional Technical Coordinator V. Turpin (NEW)
- Information System powered by CLS/CNES (Toulouse FRANCE)
 - 6 servers: Oracle DB, ESRI GIS, Web, Front, API, Dev.
 - 2nd generation
- Funded by yearly voluntary contributions from MS, EU, projects
- Support provided by IOC/WMO, local authorities, Science Park, Aquarium ...







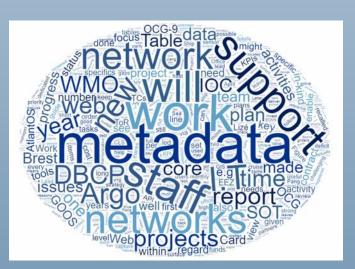
DELIVERABLES

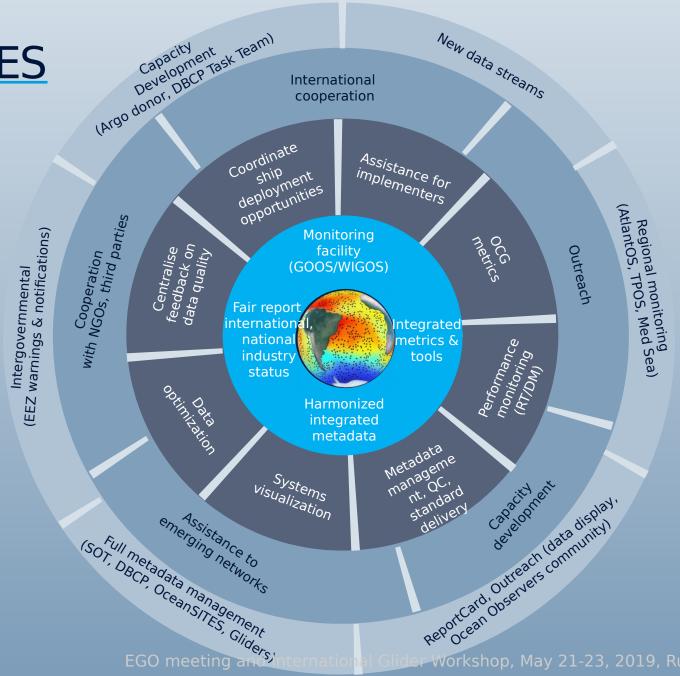
Unique

Core

Complementary

Extras/Specifics

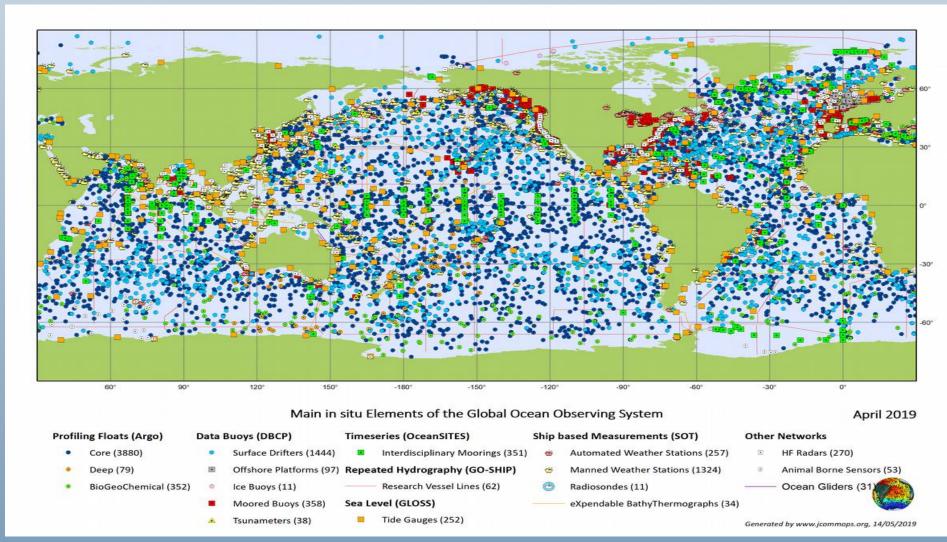






JCOMMOPS: FOCAL POINT FOR TECHNICAL COORDINATION

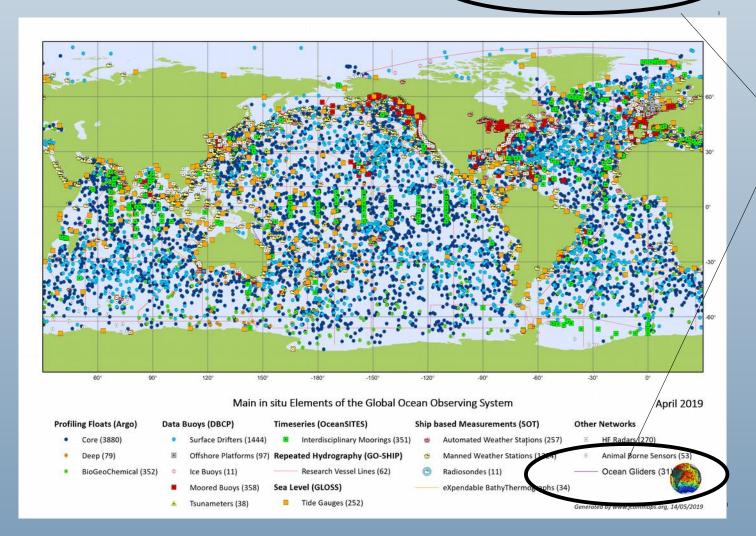
Implementation, Data/Metadata exchange, Monitoring





JCOMMOPS: FOCAL POINT FOR TECHNICAL COORDINATION

10 000 instruments deployed at the sea for observing the ocean



Only a 31 gliders registered in the GOOS, that are not up to date yet!

Need to be updated!



TECHNICAL SUPPORT FOR OCEANGLIDERS PROGRAMME

General Priorities:

Support the priorities defined by OceanGliders Steering Team :

- OG1.0,
- Network Design (Sustained Observations)
- KPI and Targets,
- Best practices
- Capacity Building
- Globalisation of the programme

Feed the JCOMMOPS monitoring system with OceanGliders deployments metadata

2019 - 2020 Work Plan :

December 2019:

- Every 2019 gliders deployments registered in the JCOMMOPS System
 - > EGO/IOOS → July (COMMOPS Quaterly report, First map)
 - > IMOS → September
 - Brazil, Canada, Japan, New Zeland, South Korea, South Africa, Taiwan... until 2020.
- Agreement on OG1.0
- Agreement on a « design » for the OceanGliders program and a first set of KPIs

December 2020:

- Historical OceanGliders deployments regisered into JCOMMOPS System
- Implementation OG1.0 format



JCOMMOPS: DISTRIBUTE METADATA AND MONITOR THE

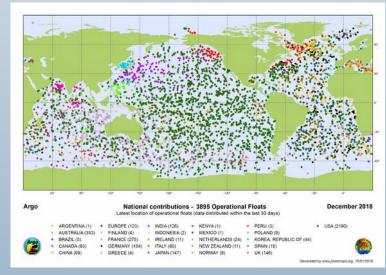
NETWORK

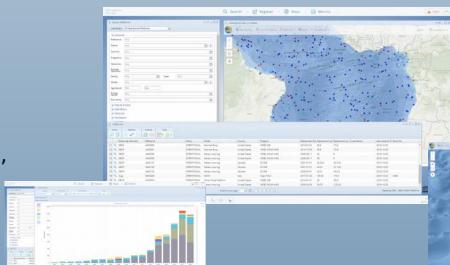
Monthly authoritative status maps (www.jcommops.org/map)

 Annual JCOMM Report Card to inform ocean observing stakeholders, society and decision-makers about the status and value of the GOOS

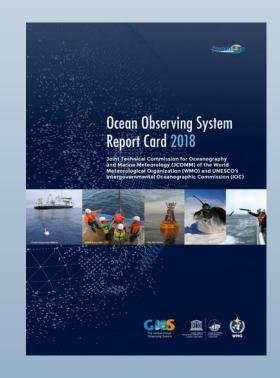
(www.jcommops.org/reportcard)

 Web application to make query, maps, graphs, stats, 3D data visualization (www.jcommops.org)





What can we do with it?





CONCLUSION

- JCOMMOPS brings technical support to the programme development
- JCOMMOPS is one of the key of the success for an observing system (Argo, GO-SHIP, VOS, DBCP)
- Quality metadata are critical to monitor and promote an observing system
- JCOMMOPS is a mature and experienced infrastructure ready to serve the glider community in the JCOMM integrated concept









Спасибо Thank you Gracias Merci 谢谢

















support@jcommops. org

