

First DBCP Mediterranean Training Workshop on Ocean Observations and Data Applications 9-11 November 2022





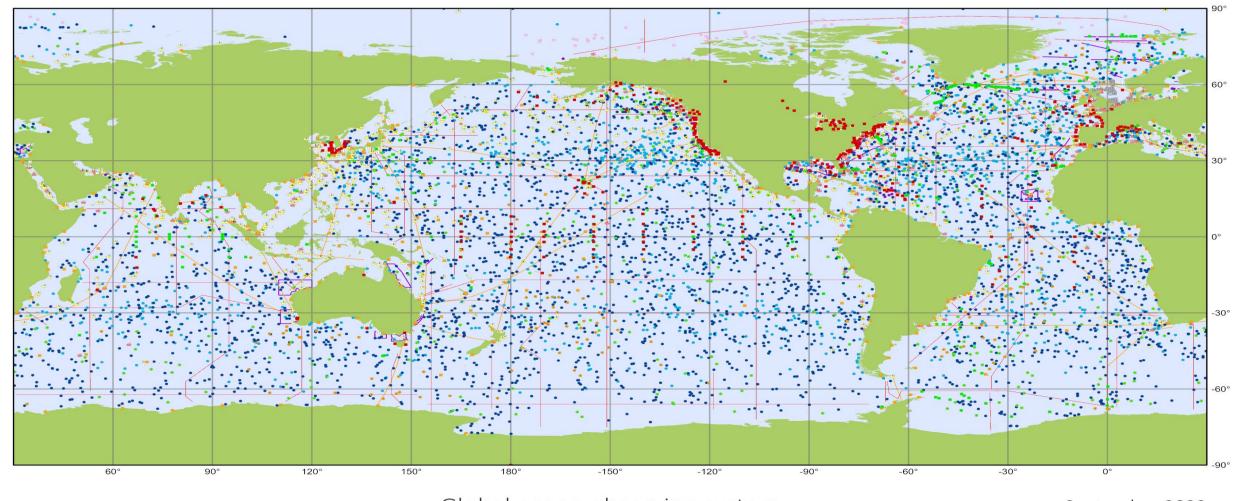
Getting to know DBCP & OceanOPS



4 Decades



The global ocean observing networks



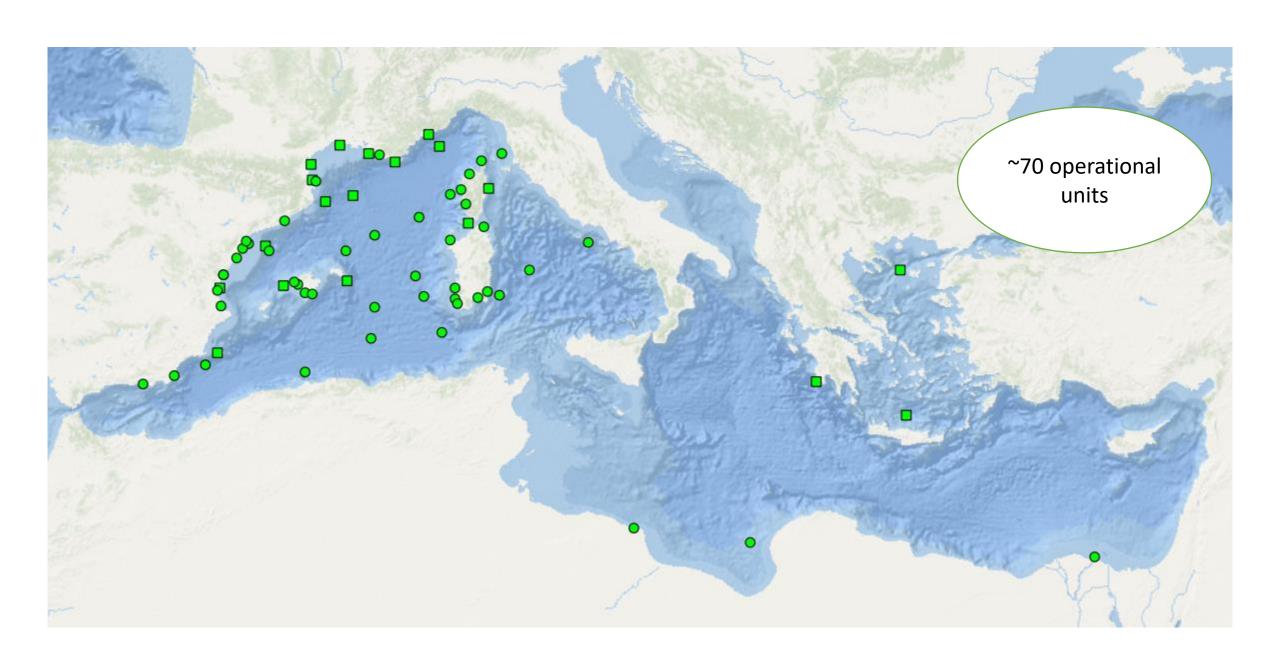
Global ocean observing system

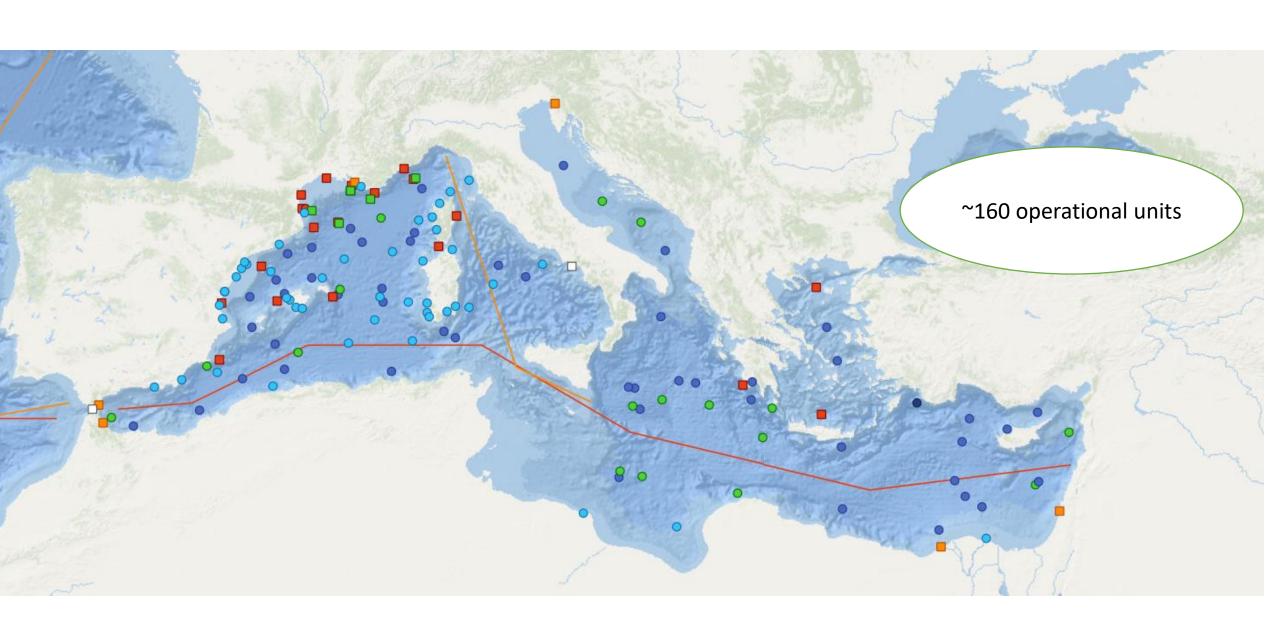
In situ operational platforms monitored by OceanOPS Mobile systems Polar buoys - DBCP Ocean reference stations - OceanSITES Radiosondes - SOT/ASAP Core floats - Argo Sea level gauges - GLOSS Reference lines and areas Animal borne sensors Deep floats - Argo Repeat hydrography - GO-SHIP **Fixed systems** High Frequency radars eXpendable BathyThermographs - SOT/SOOP Biogeochemistry floats - Argo Tsunameters - DBCP Ship based measurements Sampled sites - OceanGliders Underwater gliders - OceanGliders Offshore platforms - DBCP Manned weather stations - SOT/VOS Moored buoys - DBCP Drifting buoys - DBCP Automated weather stations - SOT/VOS

September 2022



Generated by ocean-ops.org, 2022-10-06 Projection: World Plate Carree (-150,0000)



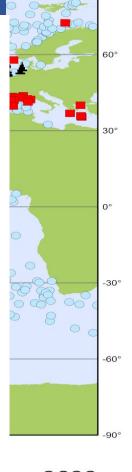


The DBCP component

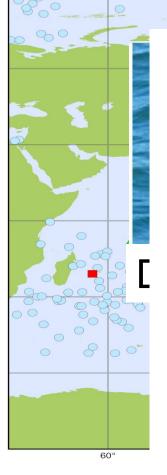
Above, at and just below the ocean surface

Essential weather and climate observations

Temperature
Pressure
Wind
Waves
Currents

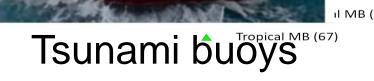


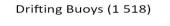
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Data Buoy Co









Why we exist and what we do

VISION

A flagship surface ocean observing panel of global standing recognized for its significant contributions from drifting and fixed moored buoys to ocean and climate science, weather, ocean and earth system prediction, sustainable development, safety, well-being and prosperity.

MISSION

To facilitate the collection of essential and trusted observations from data buoys at the air-sea interface and the upper ocean as part of an integrated, resilient and sustainable global observing system that serves the current and emerging needs of society - all day, every day.



How we operate

Executive Board

Chair

Environmental Stewardship

Technology Innovation

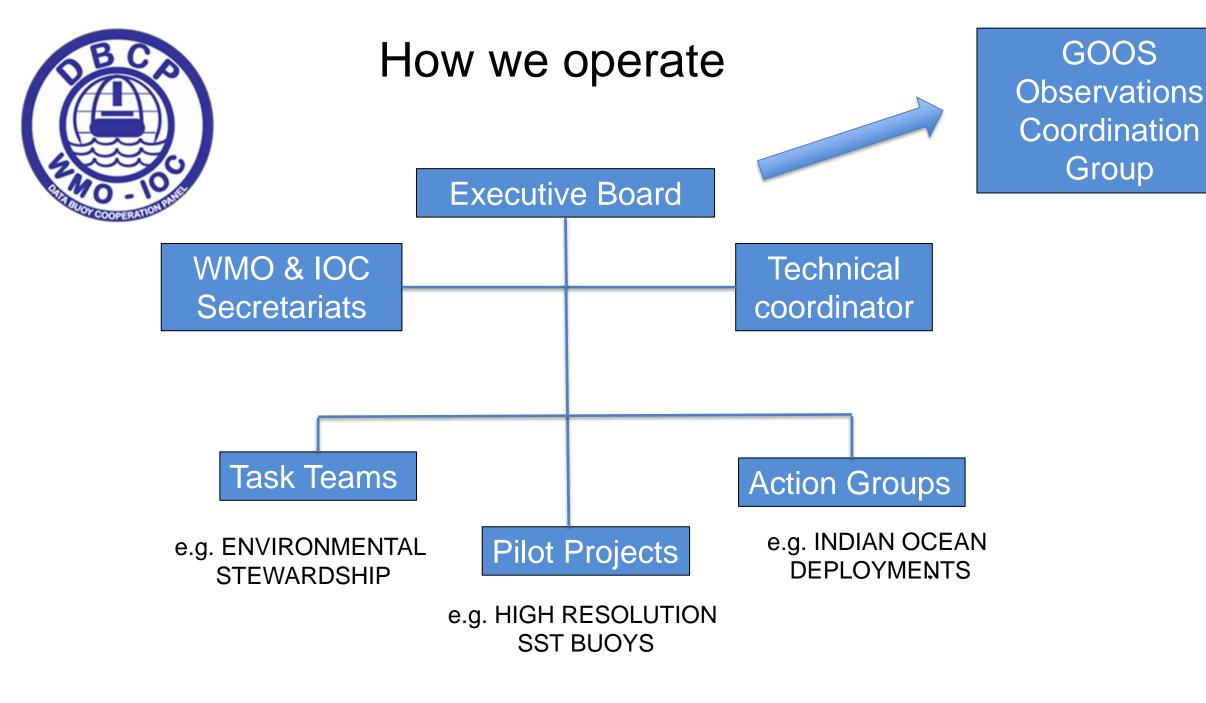
Diversity and Inclusivity

Impact and value

Scientific Excellence

International cooperation partnerships

Operational excellence



GOOS

Group



The Engine Room – Task Teams

They address specific areas of focus

- Data Management (Lance Braasch, Shaun Dolk)
- Drifter Best Practices and Technology Development (Rick Lumpkin)
- Moored Buoys (Ken Connell)
- Capacity Building (Rachel Qiu)
- Wave Measurement (Val Swail and Bob Jensen)
- Environmental Stewardship (Karen Grissom)
- Impact and Value (Users) (?)

For more info: https://www.ocean-ops.org/dbcp/overview/taskteams.html

OceanOPS

- Metadata Management, 5-year strategy
- Office in Brest, France (Toulouse, France + Monaco)
 - Manager
 - TC Argo, Gliders, AniBOS
 - TC SOT (ASAP, VOS,...)
 - TC DBCP, OceanSITES, HF Radars, Tide Gauges/GLOSS
 - TC BGC Argo, Medi... (Monaco)
 - IT manager + IT support in Toulouse
 - Metadata clerk
 - Communication

OceanOPS

- Monitoring GOOS networks
 - Metadata system
 - https://www.ocean-ops.org/metadata
 - WMO ID allocation
 - https://www.ocean-ops.org/api/1/help/#about-the-api
- Annual report card
 - https://www.ocean-ops.org/reportcard
- Facilitate global and regional coordination
- Facilitate new data stream and deployment initiatives



OceanOPS report card 2022

	GOOS in situ networks ¹	Implementation STATUS ²	REAL TIME ²	Data & metadal ARCHIVED DELAYED MODE*		Best practices 6	GOOS C OPERATIONAL SERVICES	delivery ar CLIMATE	eas 7 OCEAN HEALTI
	Ship based meteorological - SOT	***	***	***	***	***	(A)		
	Ship based oceanographic - SOT	***	***	***	##:#	***	(A)		
	Repeated transects - GO-SHIP	***	Not applicable	***	\$:水水	***			V
ı	Sea level gauges - GLOSS	***	***	***	★ ☆☆	***	€ AF		
	Time series sites - OceanSITES	***	Not applicable	***	***	***			1
ı	Moored buoys - DBCP	***	***	***	***	***	AF		1
	Tsunami buoys - DBCP	***	***	***	#cicir	***	AF		
ı	HF radars	★1 ★ Emerging	***	s k±k	* ##	***	(A)		
,	Drifting buoys - DBCP	***	***	***	黄末市	***	AF		
	Profiling floats - Argo	***	***	***	***	***	AF		
	Deep & biogeochemistry floats - Argo	★ # # Emerging	**1	***	***	***	AF		V.
	OceanGliders	∮ Emerging	***	★☆☆	***	***	€A.F	(1)	1
	Animal borne sensors - AniBOS	∮ Emerging	★☆☆	***	非水水	***	€ A₹	(1)	*

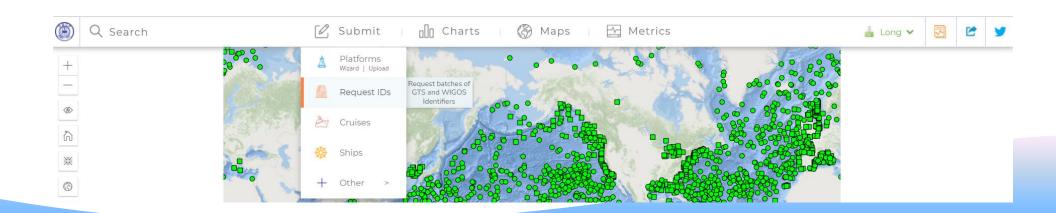


https://www.ocean-ops.org/reportcard/reportcard2022.pdf



Data and metadata mapping

- Metadata structure and templates
 - https://www.ocean-ops.org/metadata
- WSI automation and API
 - https://www.ocean-ops.org/api/1/help/#aboutthe-api





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BGC Argo & Med Coordinator