First Data Buoy Cooperation Panel Mediterranean Training Workshop on Ocean Observations and Data Applications-Part 2

Background and Objectives of Workshop

Tunis, Tunisia 2-4 May 2023

JIANG QIU
Chair, DBCP Capacity Building Task Team
National Center of Ocean Standards and Metrology (NCOSM), MNR, China

Background of DBCP Capacity Building Task Team

To date approximately 14 capacity building workshops have been held across the Indian Ocean basin and Pacific basin.

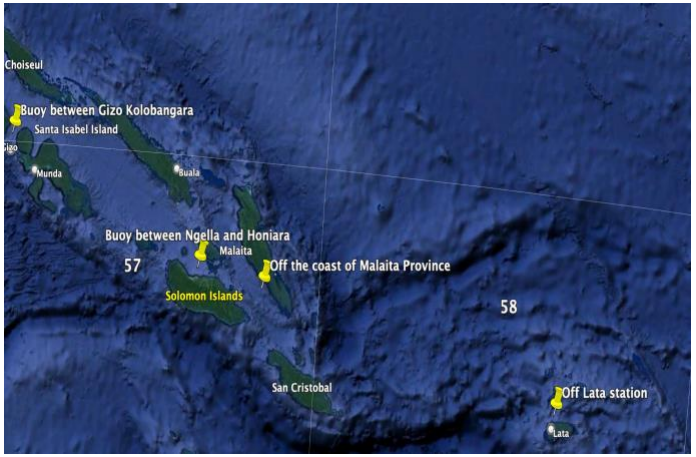
- TT-CB was established at DBCP-24 in 2003 aim to initiate the training and workshop, to explore potential resources and opportunities for enhance the capacity building activities.
- As flagship of DBCP, TT-CB have been successful in raising awareness of the DBCP in many countries around the world, both developing and developed States.

Background of DBCP Capacity Building Task Team

Visions for TT-CB

Best Practices for TT-CB

TT-CB is assisting the wave drifter deployment in Solomon Islands, which supported by DBCP , GDP program and Solomon Islands Meteorological Service to address the requirements and needs for real-time and/or archival data.



Sensor → Data → QA/QC → Application → Best Practices

DBCP Western Indian Ocean Capacity Building Workshops

Capetown, April 2010

Mombasa Kenya, May 2012

Mauritius,May 2011

Zanzibar Tanzania, April 2013

DBCP North Pacific Ocean and Marginal Seas (NPOMS) Capacity Building Workshops

Jeju, South Korea July 2012

Hangzhou China October 2013

Kyoto Japan
October 2014

Busan South Korea
November 2015

Tianjin China
July 2017

DBCP Pacific Islands (PI)Training Workshop on Ocean Observations and Data Applications

Koror, Palau
May 2015

Noumea ,New Caledonia
24-27 May, 2016

Haikou, China
July, 2018

Honolulu , USA
Sep. 2019

Fiji (Virtual)
June 2021

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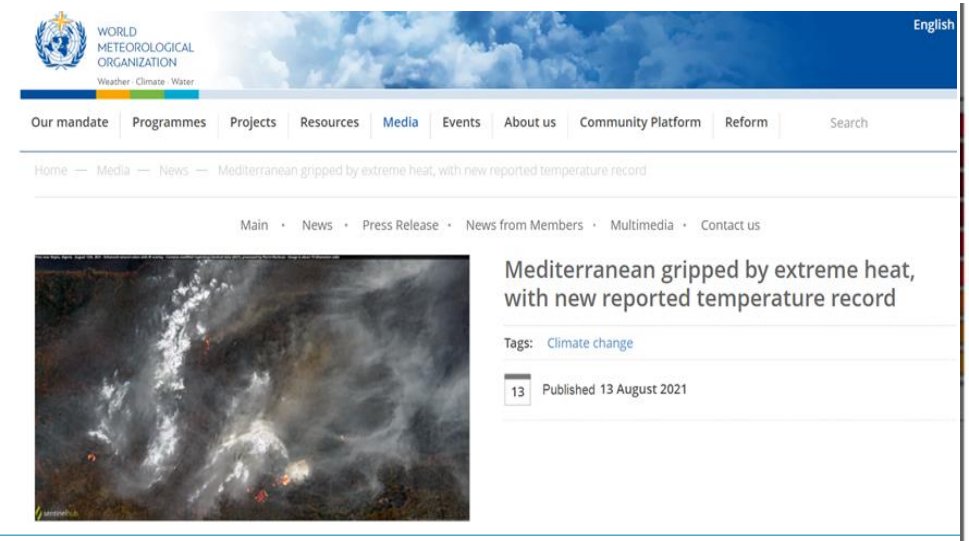
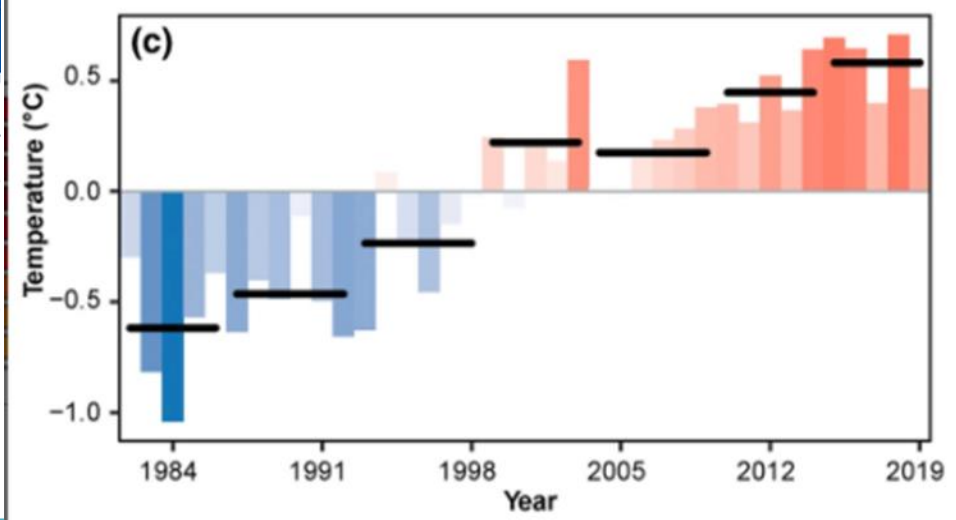
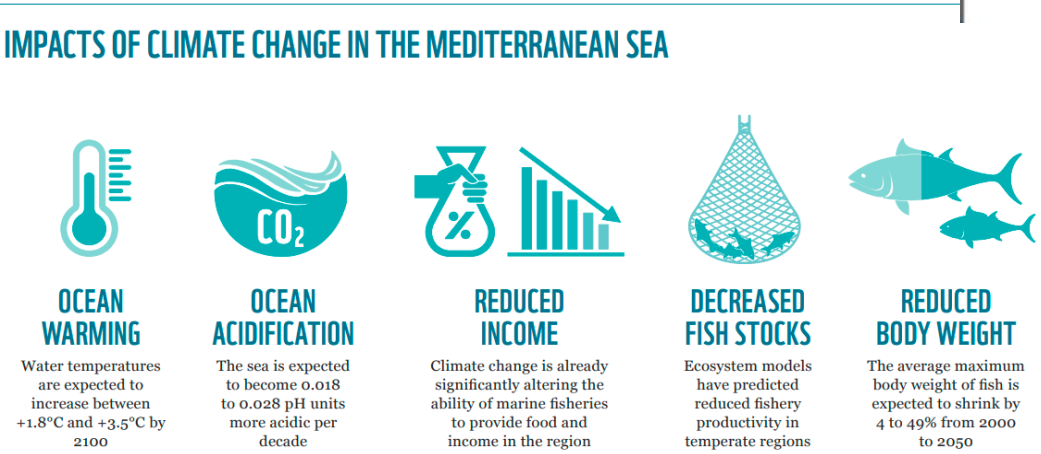
Challenge in the region







Credit : Joaquim Garrabou et al 2021
WWF report 2019

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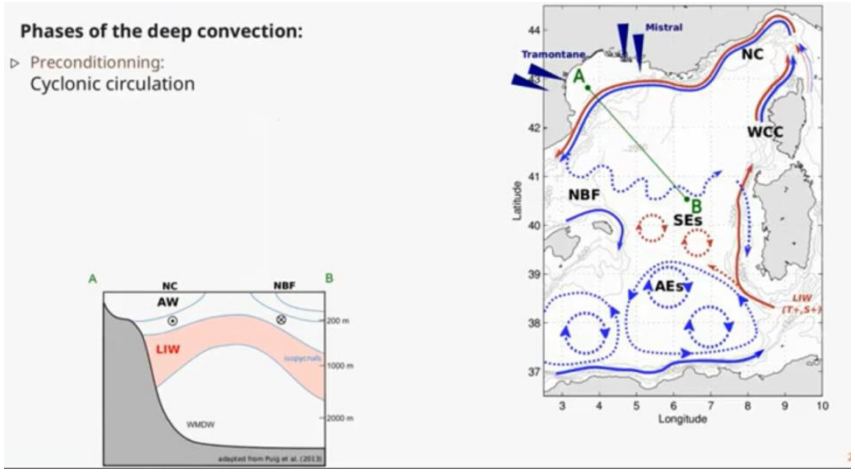
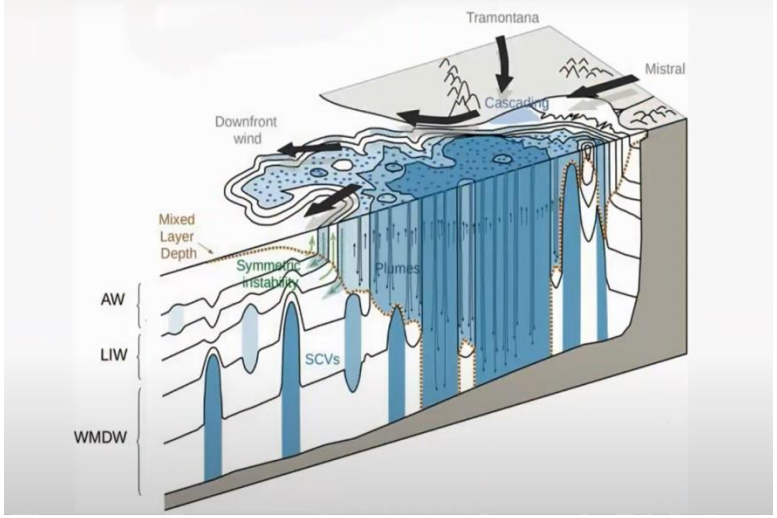
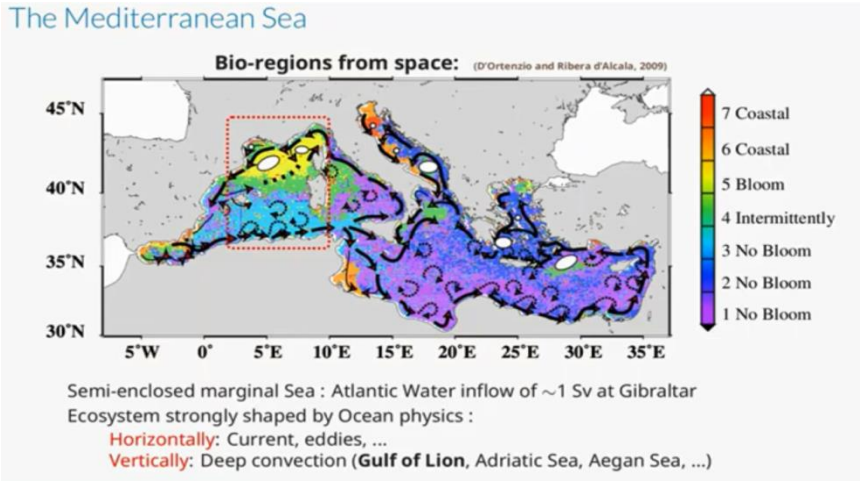
Scientific issues in the region







Credit : Testor et al 2018

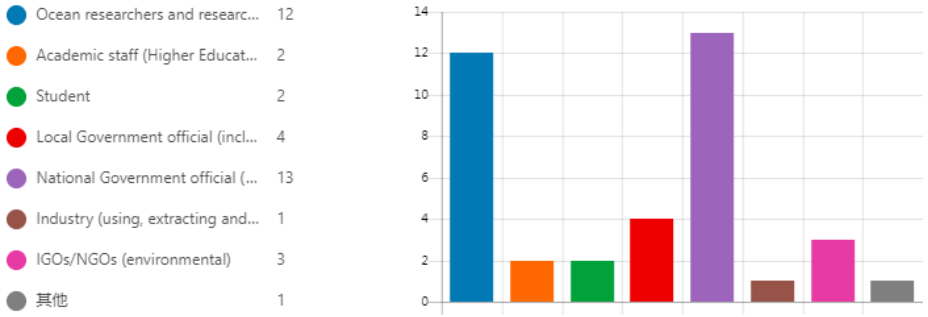
Anthony Bosse et al 2021

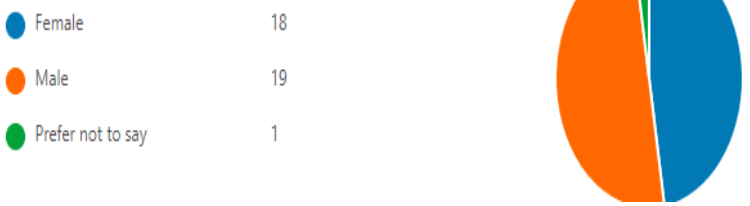
First DBCP Mediterranean Training Workshop on Ocean Observations and Data

Part 1 9 - 11 November 2022 Virtual

34 Countries , 125 Participants, 17 presentations.

Good Diversity and Inclusion





Organizing Committee:

JIANG Qiu (Rachel)

YU Ting (Julia)

Champika Gallage

JIANG Long

Khammari Lotfi

JIANG Fan

Baccari Imen

Basma Brahmi

First DBCP Mediterranean Training Workshop on Ocean Observations and Data

Part 2 2 - 4 May 2023 Tunis,Tunisia

21 Countries , 46 Participants,

12 participants funded by IOC,

6 participants funded by WMO.

Host by:
National Institute of Meteorology (INM), Ministry of Transport, Tunisia

Organized by:
WMO-IOC Data Buoy Cooperation Panel (DBCP),

OceanOPS/WMO,

National Center of Ocean Standards and Metrology (NCOSM), China

First DBCP Mediterranean Training Workshop on Ocean Observations and Data

Session 1

Session 1: Global and Regional Initiatives *(20' presentation)* Chair: JIANG Qiu-Rachel Rapporteur: Basma Brahmi		
10:00-10:20	Roundtable Introduction	All
10:20-10:40	INM presentation	Basma Brahmi INM
10:40-11:00	Marine Environmental Monitoring in Mediterranean	Khalil Attia UNEP
11:00-11:20	DBCP and OceanOPS	JIANG Long OceanOPS
11:20-11:40	Observations in the Mediterranean: Overcoming Challenges and Seizing Opportunities through Coordination	Orens De Fommervault OceanOPS
11:40-12:00	Q&As	

Session 2

Session 2: Instrumentations and Quality Control/Assurance *(20' presentation+10'Q&As)* Chair: YU Ting-Julia Rapporteur: JIANG Long		
13:30-14:00	Regional Training Centre activities	Nelly Florida
14:00-14:30	Drifting Buoys in Mediterranean	Lara Diaz (remote) SOCIB
14:30-15:00	ADCPs application cases: From shallow sea to deep ocean	RAO Liang (remote) IACAS
15:00-15:30	Tsunami buoy sensor design and use in forecasting	Christopher Moore (remote) PMEL
15:30-16:00	Coffee Break	
16:00-16:30	30 years of monitoring a Mediterranean choke point: the CNR moorings in the Sicily Channel	Katrin Schroeder(remote) CNR
16:30-17:00	New Wave Drifters from FIO	QIAO Fangli (pre-recorded) FIO
17:00	Wrap up Day 1	

Session 2: Instrumentations and Quality Control/Assurance *(continued, 20' presentation+10'Q&As)* Chair: Nelly Florida Rapporteur: Champika Gallage		
Time	**Subject**	**Lead**
09:00-09:30	SmartCables	Bruce Howe/Ceci Rodriguez Cruz (remote)/U. Hawaii
09:30-10:00	Tide gauges network: GLOSS recommendations and on-going regional initiatives	Begoña Pérez Gómez Puertos del Estado
10:00-10:30	Drifter Quality control——A focus on C-RAID ocean drifters reprocessing:improve the access to historical drifter data	Thierry Carval Ifremer
10:30-10:45	Break	
10:45-11:15	Coastal High-frequency radars in the Mediterranean Sea	Pablo Lorente (Puertos del Estado) Emma Reyes (SOCIB)
11:15-11:45	The Analysis of sea temperature and sea surface wind variation in response to super typhoon Lekima (1909)	LI Xiaoxia（Remote） MOC/CMA
11:45-13:30	Lunch Break	

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Session 3

Session 3: Carbon and Biogeochemistry Observations *(20' presentation+10'Q&As)*
Chair: Artur Palacz
Rapporteur: Sana Ben Ismail

13:30-14:00	Global marine carbon and biogeochemistry observing capacity and data products	Maciej Telszewski & Artur Palacz IOCCP
14:30-15:00	Best practices in measuring and reporting some basic Biogeochemical Essential Ocean Variables	Marta Alvarez CSIC
15:00-15:30	Combining in situ and remote sensing biogeochemical observations -examples from the Mediterranean Basin	Sana BEN ISMAIL IOCCP
15:30-16:00	Coffee Break	
16:00-16:30	Ocean Acidification observations - contributions from the Mediterranean community	Abed El Rahman HASSOUN GEOMAR
16:30-17:00		

Session 4

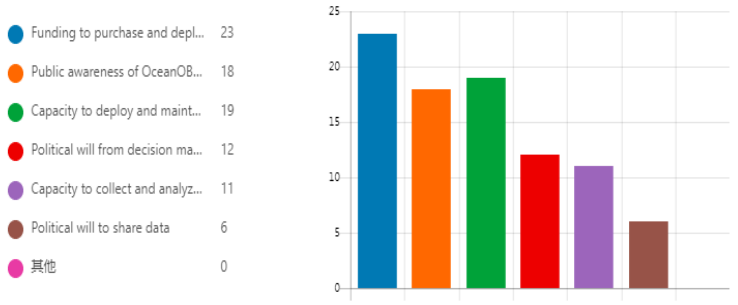
Session 4: Application and Forecasting (continued, *20' presentation+10'Q&As)*
Chair: JIANG Fan
Rapporteur: Basma Brahmi

Time	Subject	Lead
09:00-09:30	Integrated coastal observing and forecasting system - lessons learnt from the China Coastal Regions	CHAI Fei（Remote） XMU
09:30-10:00	Use and impact assessment of observations in Operational Ocean forecasting systems	Elisabeth Remy Mercator
10:00-10:30	The Copernicus Mediterranean Physical system: latest model upgrades and accuracy	Emanuela Clementi CMCC
10:30-10:45	Break	
10:45-11:15	Wave Observations and Forecasts	Fabrice Ardhuin Ifremer
11:15-11:45	Case Study: marine environmental emergency responses/MEERS	XU Jiangling NSMFC
11:45-12:15	Evolution of the French moored buoys observation capabilities in Mediterranean Sea (Current state, Evaluation, Implementation)	Christophe Guillerm MeteoFrance

Session 5

Round table discussions

Q1: Existing resources Capacity Building in Region?
(Staff, sensor, data,cruise,product….)
Q2: Future DBCP Mediterranean Building?
(For jointly deploy and products, what you need?
what you may offer? Main obstacle to organize)
Q3: Way forward?



Future DBCP Capacity Building

Potential Opportunities and Outreach

- DBCP's Barometer upgrade program provides opportunity to contribute additional Sea Level Pressure(SLP).

1

COST SHARING

Contributions from partners increase the overall value, while reducing costs to each participating agency.

2

ADDITIONAL SENSORS

By sharing costs amongst institutions / agencies, it becomes (financially) feasible to add sensors to more standard drifters.

3

GLOBAL COVERAGE

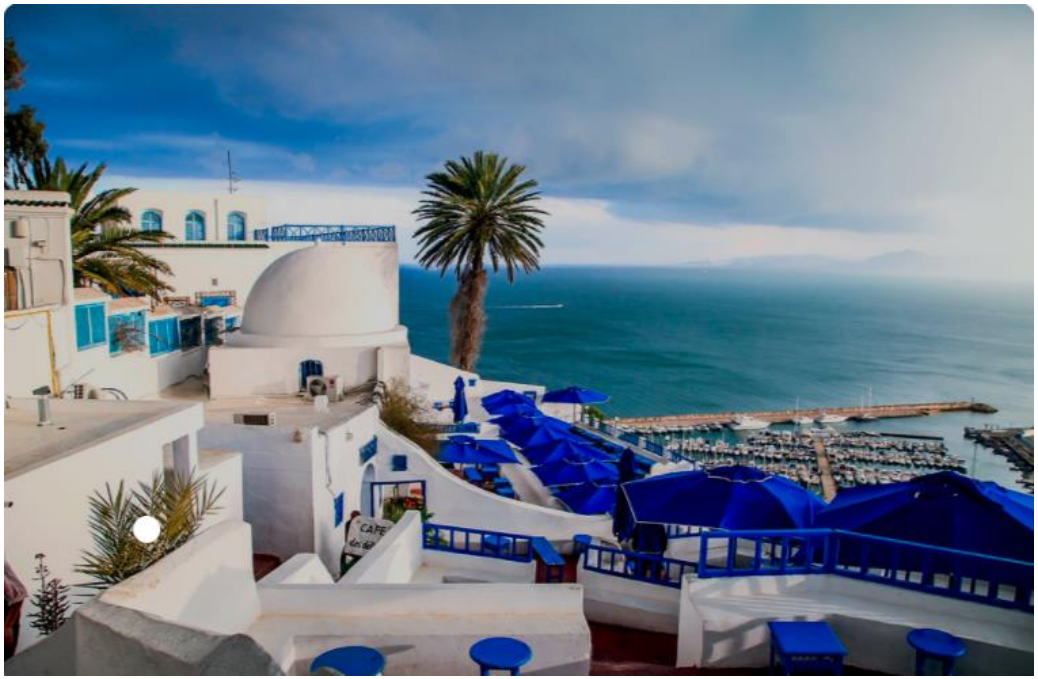
It is now more affordable to sample greater areas of interest, which benefits the global community by expanding spatial coverage.

- Coop with SOT, co-organize the workshops and explore the possibilities to the in situ/on board training.

- RMIC/AP salinity measurement promotion and tide gauge jointly establish cooperation.

- TJU ocean gliders jointly deployment.

Thank you!



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DBCP Capacity Building Task Team