

DATA BUOY COOPERATION PANEL (DBCP)
**FORMAT FOR NATIONAL REPORTS ON CURRENT AND
 PLANNED BUOY PROGRAMMES**

Country	Brazil
Year	2022

Please Identify your Programme's Major Opportunities and Challenges/Risks during the upcoming year and how DBCP can most effectively assist your Programme.

1. CURRENT PROGRAMME:

Please Identify your Programme's Major Opportunities and Challenges/Risks during the upcoming year and how DBCP may assist your Programme.

Agency or programme		
Number and type of buoys	(a) deployed during the year	05 Wave buoys 02 Met-ocean buoys 40 wave drifters
	(b) operational as of 31 August	04 wave buoys 40 wave drifters 23 SVP drifters
	(c) reporting on GTS as of 31 August	
Purpose of programme (check/uncheck boxes using [] or [x] as appropriate)	(a) operational	[x]
	(b) met / ocean research	[x]
	(c) developmental	[x]
Main deployment areas		
Vandalism incidents	(a) Number of incidents - 0 If vandalism incidents have occurred during the year, please provide the details using the form in the annex.	

(repeat table above as often as necessary)

2. PLANNED PROGRAMMES:

Agency or programme		
Number and type of buoys	planned for deployment in the next 12 months	09 Met-Ocean buoy for open sites 06 wave buoys for coastal areas 15 wave drifters
Purpose of programme (check/uncheck boxes using [] or [x] as appropriate)	(a) operational	[x]
	(b) met / ocean research	[x]
	(c) developmental	[x]
Main deployment areas		

(repeat table above as often as necessary)

3. TECHNICAL DEVELOPMENTS:

(a) Buoy design	<ul style="list-style-type: none"> • Development of a brazilian buoy hull called BMO-BR
(b) Instrumentation	<ul style="list-style-type: none"> • Development of a wave sensor based on SBG sensor; • Development of a controller and transmission module; and • Development of a buoycam.

4. PUBLICATIONS (on programme plans, technical developments, QC reports, etc.):

Ref	Title	Type ¹
1	Sistema de medição expedita de ondas – Estudo de caso: Evento de ressaca marítima, Praia de Copacabana	Paper
2		
3		
4		

(repeat rows in the table above as necessary)

5. ADDITIONAL COMMENTS:

(a) Quality of buoy data	<ul style="list-style-type: none"> • Data are QC using QARTOD parameters.
(b) Communications	<ul style="list-style-type: none"> • CLS-ARGOS, Inmarsat IDP and Iridium SBD
(c) Buoy lifetimes	<ul style="list-style-type: none"> • Average of 505 days • Maximun: 1319 days • Minimun: 24 days • The mean lifetime of moored buoys is 1 year. The time is not longer due to vandalism events; • Drift buoys have an average duration of 3 years.
(d) Data Accessibility ²	<ul style="list-style-type: none"> • GTS • www.goosbrasil.org • https://www.marinha.mil.br/chm/dados-do-goos-brasil/pnboia-mapa
(e) New Observations ³	<ul style="list-style-type: none"> • Gliders and USV (sail buoy) in 2023
(f) GFCS and WIGOS ⁴	<ul style="list-style-type: none"> •
(g) Additional Requirements ⁵	<ul style="list-style-type: none"> •
(h) DBCP Linkages ⁶	<ul style="list-style-type: none"> •
(i) Contribution to UN Decade and UN SDGs ⁷	<ul style="list-style-type: none"> • • •
(j) Other (i.e. Impact of COVID19 on observing systems and mitigation efforts)	<ul style="list-style-type: none"> • • •

¹ :Types of publications: (1) Implementation, (2) Operations, (3) Instrumentation, (4) Quality Management, (5) Data Management, (6) Data collection and/or location, (7) Data use, (8) Other

² How does the international community access the ocean observing data provided by your Organization

³ What new ocean observations does your Organization plan to make in the upcoming year (i.e. new parameters, expanding geographic scope, filling spatial or latency gaps)?

⁴ How do your Organization's observations contribute to the WMO's Integrated Global Observing System (WIGOS) and/or Global Framework for Climate Services (GFCS)?

⁵ What additional requirements (other than climate) does your organization have that are currently not adequately addressed by the DBCP?

⁶ How would your organization benefit from DBCP's closer linkages to the Global Ocean Observing System(GOOS), Data Management and Modelling Communities?

⁷How do your ocean observing networks contributing to the UN decade on Ocean Science and UN Sustainable Development Gloas .

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Note: It is recommended that this form is filled in electronically and returned also electronically to the Secretariat. A template of the form can be downloaded from the following SharePoint site:

<https://wmoomm.sharepoint.com/:w:/s/wmocpdb/EQ1z8KndbxREkzE6RH4NFkkBDdvOltne74OP8f4voMMSbg?e=pgru6r>

ANNEX - FORM FOR REPORTING INCIDENTS OF VANDALISM ON DATA BUOYS

Country								
Contact person e-mail								
Year	Buoy Location		Type of Buoy (e.g. Tsunami / Met -Ocean Buoy/Drifter/ARGO floats/ Other)	Type of damage to buoy	Buoy id/WMO id	Number of days of transmission lost	Cost of replacement	Remarks (e.g. whether photos have been taken)
	Latitude	Longitude						
Efforts taken against vandalism								
Awareness meeting Organised								
Suggestions (if any)								
Photos on Vandalism		(please include pictures if available; and email electronic versions to dbcp-tc@jcommops.org and karen.grissom@noaa.gov)						

Note: It is recommended that this form is filled in electronically and returned electronically also to OceanOPS(dbcp-tc@jcommops.org and karen.grissom@noaa.gov). A template of the form can be downloaded from the following SharePoint site: <https://wmoomm.sharepoint.com/:w/s/wmocpdb/EXsq1FXv0vpHmOjQA-tTobwBMrNnjXnaQok3oudPhK1b3A?e=2IR9Wh>