DATA BUOY COOPERATION PANEL (DBCP)

FORMAT FOR NATIONAL REPORTS ON CURRENT AND PLANNED BUOY PROGRAMMES

Country	PERU
Year	2019-2020

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	DIHIDRONAV	
Number and type of buoys	(a) deployed during the year	02
	(b) operational as of 31 August	02
	(c) reporting on GTS as of 31 August	00
Purpose of programme *(check/uncheck boxes using [_] or [x] as appropriate)*	(a) operational	[x]
	(b) met / ocean research	[x]
	(c) developmental	[-]
Main deployment areas	Pacific Ocean • From Paita (5°S-85°W) • From Chicama (8°S-85°W)	
Vandalism incidents	(a) Number of incidents 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	[-]
Purpose of programme *(check/uncheck boxes using [_] or [x] as appropriate)*	(a) operational	[-]
	(b) met / ocean research	[-]
	(c) developmental	[-]
Main deployment areas		

(repeat table above as often as necessary)

3. *TECHNICAL DEVELOPMENTS:*

(a) Buoy design	• EBM-OC Oceanographic Buoy designed and manufactured by MSM. • Galvanized steel structure, coated with polyurethane paint. • Diameter of the float is 2.4 meters, its material is solid sheet of closed cell polyethylene foam.

(b) Instrumentation	• Arrangement of temperature, salinity and dissolved oxygen sensors in seawater at different levels (surface, 10, 20, 50, 100, 150, 200, 300 and 500 meters. • Waves • Current profiler with a minimum measurement range of 500 meters deep.

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

Ref	*Title*	*Type[1]*
1	REACTIVATION OF THE "NAYLAMP II" PROJECT: IMPLEMENTATION OF TWO OCEANOGRAPHIC BUOYS IN THE PERUVIAN COAST FOR THE NATIONAL MONITORING OF THE "EL NIÑO" PHENOMENON https://www.dhn.mil.pe/index.php?secc=hidronoticias&id=811	1
2		
3		
4		

(repeat rows in the table above as necessary)

5. ADDITIONAL COMMENTS:

(a) Quality of buoy data	• It is working under the guidelines of the IOC, which exists on the subject.
(b) Communications	• The MF-SAT module uses the SBD-type Iridium satellite network as a communication platform.
(c) Buoy lifetimes	• Buoy: 30 years • Sensors: 10 years • depending on its maintenance
(d) Data Accessibility[2]	• At the moment no access to the data obtained by the buoys
(e) New Observations[3]	• It is proposed to install fixed buoys along the Peruvian coast.
(f) GFCS and WIGOS[4]	• At the moment no data is sent directly, although it is planned to discuss the matter with the World Data Centers
(g) Additional Requirements[5]	• The development of an anti-vandalism plan for the instruments
(h) DBCP Linkages[6]	• Support in the development of a better observational and data processing system.
(i) Contribution to UN Decade and UN SDGs[7]	• Greater real-time monitoring of oceanographic conditions to prevent recurring phenomena such as El Niño and La Niña off the coast of Peru.
(j) Other (i.e. Impact of COVID19 on observing systems and mitigation efforts)	• Maintenance of the buoys was not done on the scheduled date, causing a buoy to drift.

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 .

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/EQetWM6WBqdBuQLz3FET6aABCNttxnMVv3yU_wpSbRlxgA

ANNEX - FORM FOR REPORTING INCIDENTS OF VANDALISM ON DATA BUOYS

Country			PERÚ					
Contact person e-mail			mtamayo@dhn.mil.pe					
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**						
2020	5°S	85°W	oceanographic buoy	inductive cable break	None	30	-------	It did not transmit data from the CTD-OD
2020	8°S	85°W	oceanographic buoy	inductive cable break and mooring chain with CTD-OD sensors	None	from June 2020	--------	It was located 63 nautical miles from the anchoring point
Efforts taken against vandalism								
Awareness meeting Organised			Awareness talks especially to the artisanal and industrial fishing sector, about the valuable information that buoys provide to the prevention system against events such as El Niño					
Suggestions (if any)								
Photos on Vandalism			(please include pictures if available; and email electronic versions to dbcp-tc@jcommops.org and dr.r.venkatesan@gmail.com)					

Note: It is recommended that this form is filled in electronically and returned electronically also to JCOMMOPS (dbcp-tc@jcommops.org and dr.r.venkatesan@gmail.com). A template of the form can be downloaded from the following SharePoint site: https://wmoomm.sharepoint.com/:w:/s/wmocpdb/EWEIKZI3k-FCqR-wKAa1-xwBxf9UIgRaQF4CgcGQw8WkEA