**DATA BUOY COOPERATION PANEL (DBCP)**

**FORMAT FOR NATIONAL REPORTS ON CURRENT AND
PLANNED BUOY PROGRAMMES**

|  |  |
| --- | --- |
| **Country** | Brazil |
| **Year** | 2021 |

**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 | 4 |
| (b) operational as of 31 July | 02 Met-Ocean buoy for open ocean sites;02 wave buoys |
| (c) reporting on GTS as of 31 July |  |
| 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 | Brazilian EEZ (South and Tropical Atlantic Ocean) |
| Vandalism incidents | (a) Number of incidents - 2If 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 | * 05 Met-Ocean buoy for open ocean sites.
* 09 SVP 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 | South and east Brazilian Coast |

*(repeat table above as often as necessary)*

***3. TECHNICAL DEVELOPMENTS:***

|  |  |
| --- | --- |
| (a) Buoy design | * Development of a brazilian buoy hull called BMO-BR
* Devlopment of a brazilian wave drifter, called EzWave
 |
| (b) Instrumentation | * 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]](#footnote-2)*** |
| 1 | Controle de qualidade utilizado pela Marinha do Brasil na validação dos dados obtidos pelas boias do Programa Nacional de Boias (PNBOIA) | Manual |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |

*(repeat rows in the table above as necessary)*

***5. ADDITIONAL COMMENTS:***

|  |  |
| --- | --- |
| (a) Quality of buoy data | * Data are QC using QARTOD parameters.
 |
| (b) Communications | * CLS-ARGOS and Inmarsat IDP transmission
 |
| (c) Buoy lifetimes | * 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]](#footnote-3) | * GTS
* [www.goosbrasil.org](http://www.goosbrasil.org/)
* https://www.marinha.mil.br/chm/dados-do-goos-brasil/pnboia-mapa
 |
| (e) New Observations[[3]](#footnote-4) | * Gliders and Deep gliders in 2022
 |
| (f) GFCS and WIGOS[[4]](#footnote-5) |  |
| (g) Additional Requirements[[5]](#footnote-6) |  |
| (h) DBCP Linkages[[6]](#footnote-7) |  |
| (i) DBCP Excellence Awards[[7]](#footnote-8) | Technology Innovation/ Service to Society |
| (j) Other |  |

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 ftp site:

ftp://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/dbcp/templates/Format-DBCP-National-Reports.doc

**ANNEX - FORM FOR REPORTING INCIDENTS OF VANDALISM ON DATA BUOYS**

|  |  |
| --- | --- |
| **Country** |  Brazil |
| **Contact person e-mail** | Tobias.ramalho@marinha.mil.br |
| **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** |
| APR 2021 | 25°30’55”S | 042°44’20”W | **Met -Ocean Buoy** | Buoy drifted due to a ship collision. | Argos id 69151. | APR. 2021 - TODAY | $30.000,00 (mooring line.) |   |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
| **Efforts taken against vandalism** | Instalation of a buoycam to try do identify vessel that are close to the buoys. |
| **Awareness meeting Organised**  | None |
| **Suggestions (if any)** | Raising awareness of fishing colonies. |
| **Photos on Vandalism** | Attached - (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 ftp site: ftp://ftp.wmo.int/Documents/PublicWeb/amp/mmop/documents/dbcp/templates/Format-DBCP-Buoy-Vandalism-Reports.doc

\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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 [↑](#footnote-ref-2)
2. How does the international community access the ocean observing data provided by your Organization [↑](#footnote-ref-3)
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)? [↑](#footnote-ref-4)
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)? [↑](#footnote-ref-5)
5. What additional requirements (other than climate) does your organization have that are currently not adequately addressed by the DBCP? [↑](#footnote-ref-6)
6. How would your organization benefit from DBCP’s closer linkages to the JCOMM Services, Data Management and Modelling Communities? [↑](#footnote-ref-7)
7. Nominate a Member from your Organization who has demonstrated outstanding achievement in either a) advancing technology or b) applying ocean observation data in service to society. [↑](#footnote-ref-8)