**DATA BUOY COOPERATION PANEL (DBCP)**

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

|  |  |
| --- | --- |
| **Country** | Hong Kong, China |
| **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 | Five drifting buoys were deployed, with three deployed on 7 June, and two on 15 July. |
| (b) operational as of 31 August | 5 |
| (c) reporting on GTS as of 31 August | 5 |
| Purpose of programme*(check/uncheck boxes using [\_] or [x] as appropriate)* | (a) operational | [x] |
| (b) met / ocean research | [] |
| (c) developmental | [] |
| Main deployment areas | South China Sea and western North Pacific |
| Vandalism incidents | (a) Number of incidentsNone (If > 0. Please refer to 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 | Five drifting buoys |
| Purpose of programme*(check/uncheck boxes using [\_] or [x] as appropriate)* | (a) operational | [x] |
| (b) met / ocean research | [] |
| (c) developmental | [] |
| Main deployment areas | South China Sea and western North Pacific |

*(repeat table above as often as necessary)*

***3. TECHNICAL DEVELOPMENTS:***

|  |  |
| --- | --- |
| (a) Buoy design | * MetOcean Surface Velocity Program (SVP) drifting buoy attached with a holey sock drogue
* All five drifting buoys deployed in 2021 were under the collaboration with NOAA via the Barometer Upgrade Scheme of the Global Drifter Programme (GDP), member of the Data Buoy Cooperation Panel (DBCP).
 |
| (b) Instrumentation | * Equipped with pressure and temperature sensors to measure air pressure and sea surface temperature
 |

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

|  |  |  |
| --- | --- | --- |
| ***Ref*** | ***Title*** | ***Type[[1]](#footnote-1)*** |
| 1 | Member Report – Hong Kong, China, ESCAP/WMO Typhoon Committee 15th Integrated Workshop, 1-2 December 2020, p.9-11 (available online at <http://www.typhooncommittee.org/15IWS/docs/Members%20REport/HK/Member%20Report_Hong%20Kong_Typhoon_Committee_2020_final.pdf>) | Data use |

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

***5. ADDITIONAL COMMENTS:***

|  |  |
| --- | --- |
| (a) Quality of buoy data | * Performance of pressure and temperature sensor is checked before deployment.
* Real-time buoy data, including position and battery voltage, are closely monitored using a dedicated webpage.
* Quality of air pressure and sea surface temperature data from the buoys are checked against observations from nearby land stations and voluntary observing ships, and are considered satisfactory in general.
 |
| (b) Communications | * Hourly data transmission via Iridium.
 |
| (c) Buoy lifetimes | * Typically one to a few months from date of deployment.
 |
| (d) Data Accessibility[[2]](#footnote-2) | * Data are processed and distributed on GTS once received.
 |
| (e) New Observations[[3]](#footnote-3) | Nil |
| (f) GFCS and WIGOS[[4]](#footnote-4) | * The data are accessible on GTS for international exchange.
 |
| (g) Additional Requirements[[5]](#footnote-5) | * Wave and wind measurements near the sea surface.
 |
| (h) DBCP Linkages[[6]](#footnote-6) | Nil |
| (i) Contribution to UN Decade and UN SDGs[[7]](#footnote-7) | Nil |
| (j) Other (i.e. Impact of COVID19 on observing systems and mitigation efforts) | * All buoys were successfully deployed as planned with the assistance of two voluntary observing ships of Hong Kong, China despite the pandemic.
 |

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/EQ1z8KndbxREkzE6RH4NFkkBDdvOItne74OP8f4voMMSbg?e=pgru6r](https://wmoomm.sharepoint.com/%3Aw%3A/s/wmocpdb/EQ1z8KndbxREkzE6RH4NFkkBDdvOItne74OP8f4voMMSbg?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** |  |
|  |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
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|   |   |   |   |   |   |   |   |   |
| **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 dr.r.venkatesan@gmail.com) |

Note: It is recommended that this form is filled in electronically and returned electronically also to OceanOPS (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/EXsq1FXv0vpHmOjQA-tTobwBMrNnjXnaQok3oudPhKIb3A?e=2IR9Wh](https://wmoomm.sharepoint.com/%3Aw%3A/s/wmocpdb/EXsq1FXv0vpHmOjQA-tTobwBMrNnjXnaQok3oudPhKIb3A?e=2IR9Wh)

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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-1)
2. How does the international community access the ocean observing data provided by your Organization [↑](#footnote-ref-2)
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-3)
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-4)
5. What additional requirements (other than climate) does your organization have that are currently not adequately addressed by the DBCP? [↑](#footnote-ref-5)
6. How would your organization benefit from DBCP’s closer linkages to the Global Ocean Observing System(GOOS), Data Management and Modelling Communities? [↑](#footnote-ref-6)
7. How do your ocean observing networks contributing to the UN decade on Ocean Science and UN Sustainable Development Gloas . [↑](#footnote-ref-7)