|  |  |  |  |
| --- | --- | --- | --- |
|  | **VOS Report for 2016** | **Country =** | **Japan** |
|  |
|  | **a.** | **Programme description:** |
| **Category** | **No. of ships at** **31 Dec 2016** | **Recruitments in 2016** | **De-recruitments****In 2016** | **Comments** |
| *Selected* | 525 |  |  |  |
| *Selected AWS* |  |  |  |  |
| *VOSClim* |  |  |  |  |
| *VOSClim AWS* | 2 |  |  |  |
| *Supplementary* | 46 |  |  |  |
| *Supplementary AWS* |  |  |  |  |
| *Auxiliary* |  |  |  |  |
| *Auxiliary AWS* |  |  |  |  |
| *Other* | 9 |  |  | Ships make surface synoptic observations and transmit reports same as selected ships mainly in the western North Pacific(the equator-65N,100E-160W) |
| **National VOS Total** | 582 |   |  |  |
|  |  |  |  |  |  |
|  | **National VOS Target** |  |  |  |  |  |
|  | **National VOSClim Target**  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **b.** | **Data management:** |
|  | *Total number of ship observations (BBXX) distributed on the GTS in 2016* | 44,691 |
|  | *Dates when VOS data submitted to the GCCs in 2016* | 28 January, 20 April, 4 August and 1 November |

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|  | c. | **Shipboard Automatic Weather System** |
| **Type** | **No. of ships at 31 Dec 2016** | **Manual Input****Yes / No** | **Method of Comms** | **Year1 Plans** |
| Integrated System for Marine Meteorological Observation\*1 | 4 | Yes | DCP via Himawari-8 (2)Inmarsat-C (2) |  |
| Weather Observation System\*2 | 5 | Yes (3)No (2) | Inmarsat-C |  |
| SOAR\*3 (Shipboard Oceanographic and Atmospheric Radiation measurement system) | 1 | Yes | Inmarsat-C |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | *\*1 Koshin Denki Kogyo Co., Ltd. (Japan), \*2 Nippon Electric Instrument Inc. (Japan), \*3 Brookhaven National Laboratory (USA)* |  |
|  | **d.** | **Electronic logbooks: (TurboWin, SEAS, OBSJMA)** |
| **Software & version** | **No. of ships at**  **31 Dec 2016** | Implementation plans |
| OBSJMA version 1.00, 1.01, or 2.00 | 62 |  |
| OBSJMA version 3.00 | 85 |  |
| TurboWin version 5.01 | 7 |  |
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| **e.** | **Standard Meteorological Equipment: (Types and Settings)** |
| **Equipment Type / Element** | **Manual Instrumentation** | **AWS Instrumentation** |
| Barometer |  |  |
|  |  |
|  |  |
| *Default national setting* | *Station Level* | *Station Level* |
| Barograph |  |  |
|  |  |
| *Default national setting* | *Station Level* | *Station Level* |
| Thermometers |  |  |
|  |  |  |
| Sea Surface Temperature |  |  |
|  |  |  |
| Wind Speed |  |  |
|  |  |  |
| Wind Direction |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

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| --- | --- |
| **f.**  | **PMO ship visit activities: (if a visit is for dual purposes, include all purposes)** |
| **Activity** | **Manual Ship**  | **AWS****Ship** | **Comment** |
| Routine VOS inspections | 133 |  |  |
| VOS recruitment visits |  |  |  |
| VOS de-recruitment visits |  |  |  |
| VOS courtesy or foreign visits | 1 |  |  |
| *Total visits to VOS* | 134 |  |
| Routine ASAP inspections |  |  |  |
| ASAP recruitment visits |  |  |  |
| ASAP de-recruitment visits |  |  |  |
| ASAP courtesy visits |  |  |  |
| *Total visits to ASAP* |  |  |  |
| Routine SOOP visits |  |  |  |
| SOOP recruitment visits |  |  |  |
| SOOP de-recruitment visits |  |  |  |
| SOOP courtesy visits |  |  |  |
| *Total visits to SOOP* |  |  |  |
| Visits in support of DBCP (drifting buoys) |  |  |  |
| Visits in support of Argo (profiling floats) |  |  |  |
| *Total visits to other programs* |  |  |  |
| **Total visits by national PMOs** | 134 | *Sum of all ship visits (VOS + ASAP + SOOP) + visits to other program (DBCP + Argo)* |
|  |  |  |  |

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| --- | --- |
| **g.** | **Major challenges and difficulties:** |
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|  |  |
| **h.** | **Research / development / testing:** |
|  |
|  |  |
| **i.** | **Other comments** |
|  |