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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **VOS Report for 2021** | | **Country =** | | |  | |
|  | | | | | | | |
|  | **Programme description (recruited VOS):** | | | | | | |
| **Category** | **No. of ships at**  **31 Dec 2021** | **Recruitments in 2021** | **De-recruitments**  **In 2021** | **Comments** | | |
| *NMHS Operated* |  |  |  |  | | |
| *NMHS Cooperative* |  |  |  |  | | |
| *Independent* |  |  |  |  | | |
| *Other (please specify)* |  |  |  |  | | |
| **National VOS Total** |  |  |  |  | | |
|  |  |  |  |  |  | | |
|  | **NMHS Operated:** | Ships that are recruited by a national meteorological service, which also supplies the necessary observing instruments, sensors and equipment.  (old VOS classes: Selected + VOS-Clim + Supplementary) | | | | | |
|  | **NMHS Cooperative:** | Ships that are recruited by a national meteorological service but use own instrument, sensors and equipment.  (old VOS classes: Auxiliary) | | | | | |
|  | **Independent:** | Third party support ships that are not recruited by a national meteorological service but contribute to the VOS scheme.  (old VOS classes: Third Party)  Independent: Please enter number of Independent VOS you supported in any way. | | | | | |
|  |  |  |  |  |  | | |
|  | **National VOS Target** |  |  |  |  | |  |

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|  | **Data management:** | |
|  | *Total number of ship observations distributed on the GTS in 2021* |  |
|  | *Dates when VOS data (IMMT) was submitted to the VOS GDACs in 2021* |  |
|  | *Number of VOS stations that provided in 2021 Sea Ice Observations* |  |
|  | *Number of observations provided in 2021 including Sea Ice Parameters* |  |
|  | **Data flow:** | |
|  | *Is your NMHS ingesting FM-13 into the GTS? (yes / no)* |  |
|  | *If yes, please specify Header Information* |  |
|  | *Estimated date of end of FM-13 ingestion* |  |
|  | *Is your NMHS ingesting BUFR into the GTS? (yes / no)* |  |
|  | *If yes, please specify Header information* |  |
|  | *If yes, please specify BUFR template used* |  |
|  | *Do you rely on other WMO members / data centres for GTS ingestion? (y/n)* |  |
|  | *If yes, please specify* |  |

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|  | **Shipboard Automatic Weather Station** | | | | |
| **Type** | **No. of ships at 31 Dec 2021** | **Manual Input**  **Yes / No** | **Communication Method** | **Implementation Plans** |
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|  | **Electronic Logbook (TurboWIn, SEAS, OBSJMA,…)** | | | | |
| **Software & version** | **No. of ships at 31 Dec 2021** | **Automatic Transmission Yes / No** | **Communication Method** | **Implementation Plans** |
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| **Standard Meteorological Equipment: (Types and Settings)** | | |
| **Equipment Type / Element** | **Manual Instrumentation** | **AWS Instrumentation** |
| Barometer |  |  |
|  |  |
|  |  |
| *Default national setting* | *Station Level or Mean Sea Level* | *Station Level or Mean Sea Level* |
| Barograph |  |  |
|  |  |
| *Default national setting* | *Station Level or Mean Sea Level* | *Station Level or Mean Sea Level* |
| Thermometers |  |  |
|  |  |  |
| Sea Surface Temperature |  |  |
|  |  |  |
| Wind Speed |  |  |
|  |  |  |
| Wind Direction |  |  |
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| **PMO ship visit activities: (if a visit is for dual purposes, include all purposes)** | | | | |
| **Activity** | **Manual Ship** | | **AWS**  **Ship** | **Comment** |
| Routine VOS inspections |  | |  |  |
| VOS recruitment visits |  | |  |  |
| VOS de-recruitment visits |  | |  |  |
| VOS courtesy or foreign visits |  | |  |  |
| *Total visits to VOS* |  | | |  |
| Visits in support of SOOP (XBTs, TSGs) |  | |  |  |
| Visits in support of ASAP (radiosondes) |  | |  |  |
| Visits in support of DBCP (drifting buoys) |  | |  |  |
| Visits in support of Argo (profiling floats) |  | |  |  |
| Visits in support of other networks |  | |  |  |
| *Total visits to all NON-VOS networks* |  | |  |  |
| **Total visits by national PMOs** |  | | *Sum of all ship visits (VOS + SOOP + ASAP + DBCP + Argo) + visits to other networks* | |
| **Total number of PMOs(FTE\*)** |  | |  | |
| (\*FTE-Full Time Employee) |  |  | |  |
|  |  |  | |  |

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| --- | --- |
| **Major challenges and difficulties:** | |
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| **Research / development / testing:** | |
|  | |
|  |  |
| **Other comments** | |
|  | |