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|  | **VOS Report for 2018** | **Country =** | **Germany** |
|  |
|  | **a.** | **Programme description:** |
| **Category** | **No. of ships at** **31 Dec 2018** | **Recruitments in 2018** | **De-recruitments****In 2018** | **Comments** |
| *Selected* | 298 | 33 | 9 |  |
| *Selected AWS* | 44 | 20 | 1 |  |
| *VOSClim* | 98 | 3 | 2 |  |
| *VOSClim AWS* | 2 | 0 | 0 |  |
| *Supplementary* | 0 | 0 | 0 |  |
| *Supplementary AWS* | 0 | 0 | 0 |  |
| *Auxiliary* | 18 | 7 | 0 |  |
| *Auxiliary AWS* | 0 | 0 | 0 |  |
| *Other* | 5 | 0 | 0 | FINO 1, 3; Fehmarn Belt an Nordseeboje 2,3 |
| **National VOS Total** | 465 |   |  |  |
|  |  |  |  |  |  |
|  | **National VOS Target** | 400 |  |  |  |  |
|  | **National VOSClim Target**  | 200 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **b.** | **Data management:** |
|  | *Total number of ship observations (BBXX) distributed on the GTS in 2018* | 363842 |
|  | *Dates when VOS data submitted to the GCCs in 2018* | quarterly |

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|  | c. | **Shipboard Automatic Weather System** |
| **Type** | **No. of ships at 31 Dec 2018** | **Manual Input****Yes / No** | **Method of Comms** | **Year1 Plans** |
| EUCAWS | 28 | yes | Iridium SBD |  |
| Milos | 14 | yes | eMail / DCP |  |
| AbWst MK2 | 2 | no | eMail |  |
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|  | **d.** | **Electronic logbooks: (TurboWin, SEAS, OBSJMA)** |
| **Software & version** | **No. of ships at**  **31 Dec 2018** | Implementation plans |
| TurboWin XX | 409 | Continuously on Ships´s PC |
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| **e.** | **Standard Meteorological Equipment: (Types and Settings)** |
| **Equipment Type / Element** | **Manual Instrumentation** | **AWS Instrumentation** |
| Barometer | R.Fuess | Vaisala PTB |
| Vaisala PTB 330 |  |
|  |  |
| *Default national setting* | *Mean Sea Level* | *Station Level or Mean Sea Level* |
| Barograph | Dr. Mueller |  |
| Lambrecht |  |
| *Default national setting* | *Mean Sea Level* | *Station Level or Mean Sea Level* |
| Thermometers | Eigenbrodt | PT100 |
|  | Rotronic |  |
| Sea Surface Temperature | Sea Water Bucket Theodor Friedrich | PT100 |
|  |  |  |
| Wind Speed |  | Thies |
|  |  | Lufft Ventus |
| Wind Direction |  | Thies |
|  |  | Lufft Ventus |
|  |  |  |
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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 | 362 | 107 |  |
| VOS recruitment visits | 1 | 13 |  |
| VOS de-recruitment visits | 3 | 1 |  |
| VOS courtesy or foreign visits | 9 | 2 |  |
| *Total visits to VOS* | 502 |  |
| Routine ASAP inspections | 56 |  |  |
| ASAP recruitment visits | 1 |  |  |
| ASAP de-recruitment visits | 0 |  |  |
| ASAP courtesy visits | 0 |  |  |
| *Total visits to ASAP* | 57 |  |  |
| Routine SOOP visits | 0 |  |  |
| SOOP recruitment visits | 0 |  |  |
| SOOP de-recruitment visits | 0 |  |  |
| SOOP courtesy visits | 0 |  |  |
| *Total visits to SOOP* | 0 |  |  |
| Visits in support of DBCP (drifting buoys) | 0 |  |  |
| Visits in support of Argo (profiling floats) | 0 |  |  |
| *Total visits to other programs* | 0 |  |  |
| **Total visits by national PMOs** | 559 | *Sum of all ship visits (VOS + ASAP + SOOP) + visits to other program (DBCP + Argo)* |
| **Total number of PMOs(FTE\*)** | 6 |  |
| (\*FTE-Full Time Employee) |  |  |  |

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