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|  | **VOS Report for 2016** | **Country =** | **Germany** |
|  |
|  | **a.** | **Programme description:** |
| **Category** | **No. of ships at** **31 Dec 2016** | **Recruitments in 2016** | **De-recruitments****In 2016** | **Comments** |
| *Selected* | 368 | 10 | 73 |  |
| *Selected AWS* | 18 | 0 | 0 |  |
| *VOSClim* | 80 | 11 | 11 |  |
| *VOSClim AWS* | 2 | 0 | 0 |  |
| *Supplementary* | 0 | 0 | 0 |  |
| *Supplementary AWS* | 0 | 0 | 0 |  |
| *Auxiliary* | 9 | 1 | 0 |  |
| *Auxiliary AWS* | 0 | 0 | 0 |  |
| *Other* | 5 | 0 | 0 |  |
| **National VOS Total** | 482 |   |  |  |
|  |  |  |  |  |  |
|  | **National VOS Target** | 400 |  |  |  |  |
|  | **National VOSClim Target**  | 200 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **b.** | **Data management:** |
|  | *Total number of ship observations (BBXX) distributed on the GTS in 2016* | 242773 |
|  | *Dates when VOS data submitted to the GCCs in 2016* | quarterly |

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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** |
| Milos | 16 | yes | DCP / EMail | 15 on E-Mail, 1 left on DCP  |
| ABWST MK2 | 2 | no | E-Mail |  |
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|  | **d.** | **Electronic logbooks: (TurboWin, SEAS, OBSJMA)** |
| **Software & version** | **No. of ships at**  **31 Dec 2016** | Implementation plans |
| TurboWin XX | 451 | Continuously on Ship´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 PTB330 |  |
|  |  |
| *Default national setting* | *Mean Sea Level* | *Mean Sea Level* |
| Barograph | Dr. Mueller | Dr. Mueller |
| Lambrecht | Lambrecht |
| *Default national setting* | *Mean Sea Level* | *Mean Sea Level* |
| Thermometers | Eigenbrodt | PT100 |
|  | Rotronic |  |
| Sea Surface Temperature | Sea Water Bucket Theodor Friedrich | PT100 |
|  |  |  |
| Wind Speed |  | Thies Cup  |
|  |  | Lufft Ventus |
| Wind Direction |  | Thies vane |
|  |  | 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 | 444 | 39 |  |
| VOS recruitment visits | 2 |  |  |
| VOS de-recruitment visits | 2 |  |  |
| VOS courtesy or foreign visits | 15 |  |  |
| *Total visits to VOS* | 502 |  |
| Routine ASAP inspections | 66 |  |  |
| ASAP recruitment visits | 3 |  |  |
| ASAP de-recruitment visits | 4 |  |  |
| ASAP courtesy visits | 0 |  |  |
| *Total visits to ASAP* | 73 |  |  |
| 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** | 575 | *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** |
|  |