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|  | **VOS Report for 2016** | **Country =** | **Singapore** |
|  |
|  | **a.** | **Programme description:** |
| **Category** | **No. of ships at** **31 Dec 2016** | **Recruitments in 2016** | **De-recruitments****In 2016** | **Comments** |
| *Selected* | 9 | 1 | 11 |  |
| *Selected AWS* | 0 | 0 | 0 |  |
| *VOSClim* | 0 | 0 | 0 |  |
| *VOSClim AWS* | 0 | 0 | 0 |  |
| *Supplementary* | 0 | 0 | 0 |  |
| *Supplementary AWS* | 0 | 0 | 0 |  |
| *Auxiliary* | 0 | 0 | 0 |  |
| *Auxiliary AWS* | 0 | 0 | 0 |  |
| *Other* | 0 | 0 | 0 |  |
| **National VOS Total** | 10 |   |  |  |
|  |  |  |  |  |  |
|  | **National VOS Target** | 20 |  |  |  |  |
|  | **National VOSClim Target**  | 0 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **b.** | **Data management:** |
|  | *Total number of ship observations (BBXX) distributed on the GTS in 2016* | Data No Available |
|  | *Dates when VOS data submitted to the GCCs in 2016* | 0 |

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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** |
| Nil |  |  |  |  |
|  |  |  |  |  |
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|  | **d.** | **Electronic logbooks: (TurboWin, SEAS, OBSJMA)** |
| **Software & version** | **No. of ships at**  **31 Dec 2016** | Implementation plans |
| TurboWin V4.5 | 10 |  |
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| **e.** | **Standard Meteorological Equipment: (Types and Settings)** |
| **Equipment Type / Element** | **Manual Instrumentation** | **AWS Instrumentation** |
| Barometer | Barigo model 585 barometer | NA |
|  |  |
|  |  |
| *Default national setting* | *Mean Sea Level* |  |
| Barograph | SATO Sigma-II No 7237 barograph | NA |
|  |  |
| *Default national setting* | *Mean Sea Level* |  |
| Thermometers | From ship’s owner | NA |
|  |  |  |
| Sea Surface Temperature | From ship’s owner | NA |
|  |  |  |
| Wind Speed | From ship’s owner | NA |
|  |  |  |
| Wind Direction | From ship’s owner | NA |
|  |  |  |
|  |  |  |
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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 | 4 | 0 | Some ships have change their shipping route and temporary not calling Singapore port. |
| VOS recruitment visits | 0 | 0 |  |
| VOS de-recruitment visits | 0 | 0 |  |
| VOS courtesy or foreign visits | 8 | 0 | At the request of the Master or fellow PMOs |
| *Total visits to VOS* | 12 |  |
| Routine ASAP inspections | 0 |  |  |
| ASAP recruitment visits | 0 |  |  |
| ASAP de-recruitment visits | 0 |  |  |
| ASAP courtesy visits | 0 |  |  |
| *Total visits to ASAP* | 0 |  |  |
| 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** | 12 | *Sum of all ship visits (VOS + ASAP + SOOP) + visits to other program (DBCP + Argo)* |
|  |  |  |  |

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| --- | --- |
| **g.** | **Major challenges and difficulties:** |
| **One of the challenges is the shorter contract for the Captain and the crew. On average they only spend about 4 months onboard. Once changed over, the new crew are either less interested or experience, resulting the quality of the report being affected.**  |
|  |  |
| **h.** | **Research / development / testing:** |
| **NIL** |
|  |  |
| **i.** | **Other comments** |
| NIL |