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|  | **VOS Report for 2017** | **Country =** | **New Zealand** |
|  |
|  | **a.** | **Programme description:** |
| **Category** | **No. of ships at** **31 Dec 2017** | **Recruitments in 2017** | **De-recruitments****In 2017** | **Comments** |
| *Selected* | 24 | 6 | 5 |  |
| *Selected AWS* | 2 |  |  |  |
| *VOSClim* | 5 |  |  |  |
| *VOSClim AWS* |  |  |  |  |
| *Supplementary* |  |  | 1 |  |
| *Supplementary AWS* |  |  |  |  |
| *Auxiliary* | 3 | 0 | 0 |  |
| *Auxiliary AWS* |  |  |  |  |
| *Other* |  |  |  |  |
| **National VOS Total** | 34 |   |  |  |
|  |  |  |  |  |  |
|  | **National VOS Target** | 31(not Aux/Supp) |  |  |  |  |
|  | **National VOSClim Target**  | 8 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | **b.** | **Data management:** |
|  | *Total number of ship observations (BBXX) distributed on the GTS in 2017* | 20802 |
|  | *Dates when VOS data submitted to the GCCs in 2017* | Mainly quarterly  |

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|  | c. | **Shipboard Automatic Weather System** |
| **Type** | **No. of ships at 31 Dec 2017** | **Manual Input****Yes / No** | **Method of Comms** | **Year1 Plans** |
| mStar | 1 | No | UPP Cellular | No change |
| Sutron 9000 RTU | 1 | Yes | MTSAT | No change |
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|  |  |  |
|  | **d.** | **Electronic logbooks: (TurboWin, SEAS, OBSJMA)** |
| **Software & version** | **No. of ships at**  **31 Dec 2017** | Implementation plans |
| TurboWin 5.0 or higher | 25 |  |
| TurboWin 4.5 | 4 |  |
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| **e.** | **Standard Meteorological Equipment: (Types and Settings)** |
| **Equipment Type / Element** | **Manual Instrumentation** | **AWS Instrumentation** |
| Barometer | Aneroid | Vaisala PTB220 |
| Precision Aneroid | Vaisala DPA21 |
| Vaisala PTB220 and PTB330 |  |
| *Default national setting* | Station Level  | Mean Sea Level |
| Barograph | Marine – Short and Mason |  |
|  |  |
| *Default national setting* | Station Level | Mean Sea Level |
| Thermometers | Mercury | Vaisala HMP45A |
|  |  | YSI Thermistor |
| Sea Surface Temperature | Ships Instruments- Intake |  |
|  |  |  |
| Wind Speed | Ships Instruments | Gill WindSonic |
|  |  | Vaisala WAA151 |
| Wind Direction | Ships Instruments | Gill WindSonic |
|  |  | Vaisala WAV151 |
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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 | 42 |  |  |
| VOS recruitment visits | 6 |  |  |
| VOS de-recruitment visits | 3 |  |  |
| VOS courtesy or foreign visits | 5 |  |  |
| *Total visits to VOS* | 56 |  |
| 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) | 2 |  |  |
| Visits in support of Argo (profiling floats) |  |  |  |
| *Total visits to other programs* |  |  |  |
| **Total visits by national PMOs** | 58 | *Sum of all ship visits (VOS + ASAP + SOOP) + visits to other program (DBCP + Argo)* |
|  |  |  |  |

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| **g.** | **Major challenges and difficulties:** |
| * The CentrePort container area was closed for most of the year due to the November 2016 earthquake until it reopened in October 2017. This resulted in a significant drop in the annual total of VOS visits even when efforts were made to visit the affected ships at other New Zealand ports.
* The Maersk shipping fleet was affected by the computer virus – Petya which resulted in a drop of observations during the several months of disruption and stoppage of transmitting VOS reports.
* Regular contact with ship captains is needed to avoid the reduction of the number of reports when officers rotate due to leave.
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| **h.** | **Research / development / testing:** |
| The testing of the in-house mercury replacement sensor with LCD readout has been completed with the aim to replace the mercury thermometers over the next few years. |
|  |  |
| **i.** | **Other comments** |
|  None. |