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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. | |
|  |  |
| **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. | |