|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **SOOP Report for 2017** | **Country =** |  | **AUSTRALIA** |
|  |  |
|  | **a.** |  | **Programme description:** |
| **Line** | **Agency** | **Sampling programme and target mode (if applicable)** | **XBT/XCTD/CTD/pCO2** | **No. of Ship Riders** |
| IX01 | BOM | FRX+ | XBT | 0 |
|  | IX12 | BOM | FRX | XBT | 0 |
|  | PX11-IX22 | BOM | FRX | XBT | 0 |
|  | PX02 | BOM | FRX | XBT | 0 |
|  | IX28 | CSIRO | HDX | XBT, SST/SSS, pCO2, TCO2, alkalinity, pigments, fluorescence, macronutrients | 1 |
|  | PX30 | CSIRO | HDX | XBT | 1 |
| PX34 | CSIRO | HDX | XBT | 1 |
|  | RAN | Operational requirements and or hydrographical surveying | XBT | N/A |
|  |  |
|  | **b.** |  | **Data management** |
|  | **Agency** | **No. of BUFR messages on the GTS in 2017** | **Location of delayed-mode data** |
|  | BOM | **Total: 1575**9V8218 (905), VNVZ (531), VRDU8 (40), VRDE7 (41), VRDN3 (4), VRGE3 (54) | US NODC, AODN |
|  | CSIRO | **Total: 779**9V3581 (106), 9V9713 (210), 9V9832 (203), FHZI (164), OWKF2 (96) | US NODC, AODN |
|  | RAN | **Total: 208** SHIP (208) | RAN (not distributed) |
|  | **c.** | **Major challenges and difficulties:** |
|  | BOM: IX12 is not currently a routine shipping route and consequently has not been sampled since early 2016. Frequent shipping changes were required for PX02. Real-time Argos communications continue to be minimal for PX11-IX22 and PX-02, for unknown reasons. Bathymessages (JJVV) from these ships are sent manually to the GTS, with a time delay. RAN: Upgrade of XP laptops on some ships to Windows 10 required considerable assistance for installation and configuration of Turo XBT 5.02 or Turo XBT 5.03 software.CSIRO: Funding support has been reduced for the program for the two years, ending June 30 2019. We will continue to manage the program as is, with support from other projects within CSIRO. |
|  |
|  | **d.** | **Research / development / testing:** |
|  |
|  |
|  | **e.** | **Other comments:** |
| BOM: As of 18 August 2017, all Devil XBT systems have been removed from our XBT SOOP network. Our XBT SOOP now uses Turo XBT Quoll systems, which correctly calculates the unique CRC profile tag.  |
|  |