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|  | **SOOP Report for 2018** | | | | **Country =** | | | |  |  | | **Japan** | |
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|  | **a.** |  | |  | | | **Programme description:** | | | | | | |
| **Line** | | **Agency** | **XBT/XCTD/CTD/pCO2** | | | | **Sampling mode (if applicable), eg High Density, Frequently repeated, ad hoc etc** | | | **No. of Ships** | | **No. of Ship Riders**  **(if applicable)** |
| PX45 | | JMA | CTD | | | | LDX (normal 60nmiles spacing drops, 2 transects/year) | | | 2 | | 2 |
|  | PX46 | | JMA | CTD | | | | LDX (normal 60nmiles spacing drops, 2 transects/year) | | | 2 | | 2 |
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|  | **b.** | **Data management** | | | | | |
|  | **Agency** | | **No. of BUFR messages sent to the GTS in 2018** | | **Delayed-mode data archive location (external)** | | **Originating bulletin header** |
|  | JMA | | 137 (including KKYY messages) | | JODC | | RJTD |
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|  | **c.** | **Major challenges and difficulties:** |
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|  | **d.** | **Research / development / testing:** |
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|  | **e.** | **Other comments:** |
| In addition to the above programs, research vessels and fisheries training vessels of Japanese domestic institutes etc. carry out XBT/XCTD/CTD observations in the western Pacific and other seas and transmit the data into GTS by BATHY/TESAC messages. A total of 44 ships reported 8,332 messages in 2018, including the messages along the SOOP lines. | |
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