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|  | **SOOP Report for 2018** | **Country =** |  |  | **Japan** |
|  |  |  |
|  | **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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