|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SOOP Report for 2018** | | | | | | **Country =** | |  | | **Germany** | |
|  | | | |  | | | | | | | | |
|  | **a.** |  | | | | **Programme description:** | | | | | | |
| **Line** | | **Agency** | | **Sampling programme and target mode (if applicable)** | | | | | **XBT/XCTD/CTD/pCO2** | | **No. of Ship Riders** |
| North Sea and Baltic | | BSH | | Platform data (Marine Environmental Monitoring Network in the North Sea and Baltic)  https://www.bsh.de/DE/THEMEN/Beobachtungssysteme/Messnetz-MARNET/messnetz-marnet\_node.html | | | | | 9 fixed stations | | None |
|  | Nordatlantik Carbon-VOS | | GEOMAR | | ICOS | | | | | pCO2 measurements along track | | 1 |
|  | Polarstern Carbon- VOS | | AWI | | ICOS | | | | | pCO2 measurements along track | | 0 |
|  | Baltic Carbon-VOS | | IOW | | ICOS | | | | | pCO2 measurements along track | | 0 |
|  |  | |  | |  | | | | |  | |  |
|  |  | |  | |  | | | | |  | |  |
|  | |  | |  | | | | |  | |  |
|  | |  | |  | | | | |  | |  |
|  | |  | |  | | | | |  | |  |
|  | | | |  | | | | | | | | |
|  | **b.** |  | | | | **Data management** | | | | | | |
|  | **Agency** | | | | **No. of BUFR messages on the GTS in 2018** | | | **Location of delayed-mode data** | | | | |
|  | BSH | | | | 81 messages from Navy ships and approximately 1100 daily messages from platforms | | | local INSiDa database and WODC Washington | | | | |
|  | GEOMAR | | | | No GTS data | | | [www.socat.info](http://www.socat.info/) | | | | |
|  | AWI | | | | No GTS data | | | [www.socat.info](http://www.socat.info/) | | | | |
|  | IOW | | | | No GTS data | | | [www.socat.info](http://www.socat.info/) | | | | |

|  |  |  |
| --- | --- | --- |
|  | **c.** | **Major challenges and difficulties:** |
|  | In the past JJVV messages have been inserted into GTS once per week. This has been changed to hourly insertion in the beginning of 2017 in connection with the format change from TESAC to BUFR. Incoming data will be stored in the real-time data bank of BSH and will be inserted into the GTS daily as BUFR. The format change to BUFR is nearly completed and the new format has been implemented in the beginning of 2017.  Hourly data from the fixed stations are communicated to the INSiDa data bank at BSH and are send daily to DWD for input into the GTS. Not all stations have been included in the GTS data stream in 2018. There are presently discussions underway to send data from all 9 stations on GTS and increase the data transmission to higher frequeny. | |
|  | | |
|  | **d.** | **Research / development / testing:** |
|  | |
|  | | |
|  | **e.** | **Other comments:** |
| |  | | --- | | Abbreviations:  BSH: Bundesamt fuer Seeschifffahrt und Hydrographie  GEOMAR: Helmholtz Centre for Ocean research Kiel, Kiel, Germany | | AWI: Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research | | IOW: Leibniz Institute for Baltic Sea Research Warnemünde | | |
|  | | |