

## VOS and VOSClm Report for 2009

(Germany)

| a. Programme description:       |                             |          |
|---------------------------------|-----------------------------|----------|
| Category                        | No. of ships at 31 Dec 2009 | Comments |
| <i>Selected</i>                 | 815                         |          |
| <i>Supplementary</i>            | 2                           |          |
| <i>Auxiliary</i>                | 26                          |          |
| <i>Other (specify)</i>          |                             |          |
| <b>Total National VOS Fleet</b> | 842                         |          |

| b. VOS:   |               |
|---|---------------|
| <i>Number of VOS vessels recruited in 2009</i>          | 62            |
| <i>Number of VOS vessels de-recruited in 2009</i>       | 51            |
| <i>Target number of ships in the national VOS Fleet</i> | not specified |

| c. VOSClm:   |               |
|--|---------------|
| <i>Number of VOSClm vessels at 31 December 2009</i>    | 32            |
| <i>Number of VOSClm vessels recruited in 2009</i>      | 3             |
| <i>Number of VOSClm de-recruitments in 2009</i>        | 0             |
| <i>Number of VOSClm recruitments planned for 2010</i>  | not specified |
| <i>Target number of ships to participate in VOSClm</i> | not specified |

| <b>d. Automated observing systems:</b> |                                    |                              |                        |                                   |
|--|------------------------------------|------------------------------|------------------------|-----------------------------------|
| <b>Type</b>                            | <b>No. of ships at 31 Dec 2009</b> | <b>Manual Input Yes / No</b> | <b>Method of Comms</b> | <b>2010 Planned installations</b> |
| MILOS                                  | 16                                 | no                           | DCP                    |                                   |
| Ship own data logger                   | 2                                  | yes                          | INMARSAT/Iridium       |                                   |
|  |                                    |                              |                        |                                   |

| <b>e. Data management:</b>   |              |
|--|--------------|
| <i>Total number of ship observations (BBXX) distributed on the GTS in 2009</i> | 255.903      |
| <i>Number of submissions of VOS data to the GCC in 2009</i>                    | continuously |

| <b>f. Electronic logbooks: (do not include AWS-based systems)</b> |                                    |                             |
|---|------------------------------------|-----------------------------|
| <b>Software &amp; version</b>                                     | <b>No. of ships at 31 Dec 2009</b> | <b>Implementation plans</b> |
| TurboDOS/WINxx  | 780                                | Continuously on Ship's PC   |
|   |                                    |                             |
|   |                                    |                             |
|   |                                    |                             |
|   |                                    |                             |

**g. Major challenges and difficulties:**

Long-term strategy to replace Hg-thermometer and mechanical barometer/barograph by electronic equipment

**h. Research / development / testing:**

**i. Other comments:**