**VOS and VOSClim Report for 2011**                                    **(MALAYSIA)**

| a. | Programme description: | |
|---|---|---|
| **Category** | **No. of ships at 31 Dec 2011** | **Comments** |
| *Selected* | **39** | |
| *Supplementary* | **27** | |
| *Auxiliary* | **24** | |
| *Other (specify)* | - | |
| **Total National VOS Fleet** | 90 | |

| b. | VOS: |
|---|---|
| *Number of VOS vessels recruited in 2011* | 2 |
| *Number of VOS vessels de-recruited in 2011* | - |
| *Target number of ships in the national VOS Fleet* | To maintain 100 active ships |

| c. | **VOSClim:** |
|---|---|
| *Number of VOSClim vessels at 31 December 201* | - |
| *Number of VOSClim vessels recruited in 2011* | - |
| *Number of VOSClim de-recruitments in 2011* | - |
| *Number of VOSClim recruitments planned for 2011* | - |
| *Target number of ships to participate in VOSClim* | |

| d. | **Automated observing systems:** | | | |
|---|---|---|---|---|
| **Type** | **No. of ships at 31 Dec 2011** | **Manual Input Yes / No** | **Method of Comms** | **2011 Planned installations** |
| | | | | |
| | | | | |
| | | | | |

| e. | **Data management:** |
|---|---|
| *Total number of ship observations (BBXX) distributed on the GTS in 2011* | **24843** (Number of reports received from GTS from all VOS ships for a region bounded by latitude 5S – 20N and longitude 95E – 130E) |
| *Frequency of VOS data submitted for the GCC in 2011* | 1 batch consisting of **339** records has been sent in 2011 |

**f.    Electronic logbooks:**

| Software & version | No. of ships at 31 Dec 2011 | Implementation plans |
|---|---|---|
| - | - | - |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**g.    Major challenges and difficulties:**

1.  Language barrier hinders communication between ship's officers and PMOs.
2.  Transmission of observations sent via INMARSAT sometimes does not reach the collection centre.
3.  There were cases where the met log was wrongly filled.
4.  Limited numbers of new ships entry to ports.
5.  Increasing cost in maintaining VOS instruments

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

NONE

**i.    Other comments:**

1. **WMO/JCOMM should collaborate with other maritime communities in enhancing awareness and importance of ship observation**
2. **WMO /JCOMM should equip NMS with the latest material such as cloud pictures, state of sea charts and any other related materials**
3. **WMO/JCOMM should explore other means of observation transmission.**