

## VOS and VOSCLim Report for 2009

(Japan)

a. Programme description:		
Category	No. of ships at 31 Dec 2009	Comments
<i>Selected</i>	332	
<i>Supplementary</i>	63	
<i>Auxiliary</i>		
<i>Other (specify)</i>	6	Ships make surface synoptic observations and transmit reports same as selected ships mainly in the western North Pacific(the equator-65N,100E-160W)
<b>Total National VOS Fleet</b>	402	

b. VOS:	
<i>Number of VOS vessels recruited in 2009</i>	-
<i>Number of VOS vessels de-recruited in 2009</i>	-
<i>Target number of ships in the national VOS Fleet</i>	-

c. VOSCLim:	
<i>Number of VOSCLim vessels at 31 December 2009</i>	5
<i>Number of VOSCLim vessels recruited in 2009</i>	-
<i>Number of VOSCLim de-recruitments in 2009</i>	-
<i>Number of VOSCLim recruitments planned for 2010</i>	-
<i>Target number of ships to participate in VOSCLim</i>	-

<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>
Integrated System for Marine Meteorological Observation* <sup>1</sup>	9	Yes(7) No(1) Unknown(1)	DCP via the MTSAT(5) Inmarsat-C(4)	
Weather Observation System* <sup>2</sup>	6	Yes(3) No(3)	Inmarsat-C	
SOAR* <sup>3</sup> (Shipboard Oceanographic and Atmospheric Radiation)	1	Yes	Inmarsat-C	

\*1 Koshin Denki Kogyo Co., Ltd. (Japan), \*2 Nippon Electric Instrument Inc. (Japan), \*3 Brookhaven National Laboratory (USA)

<b>e. Data management:</b>	
<i>Total number of ship observations (BBXX) distributed on the GTS in 2009</i>	35912
<i>Number of submissions of VOS data to the GCC in 2009</i>	4

<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>
OBSJMA	102	

**g. Major challenges and difficulties:**

JMA released the new electronic logbook software "OBSJMA ver. 2.00" in March 2009. OBSJMA ver. 2.00 can be operated in windows VISTA OS and calculate more accurately the sea level pressure by using in-situ air temperature and the height of barometer in ballast or at full load. Furthermore, the new OBSJMA provides more information on screen to aid in the selection of correct code figures for Visibility (VV) and Height base of lowest cloud (h) when the ranges and heights are at the boundaries on the level.

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

**i. Other comments:**