

## VOS Report for 2011

(Indonesia)

a. Programme description:				
Category	No. of ships at 31 Dec 2011	Recruitments in 2011	De-recruitments In 2011	Comments
<i>Selected</i>	-	-	-	
<i>Selected AWS</i>	7	4	-	
<i>VOSclim</i>	-	-	-	
<i>VOSclim AWS</i>	-	-	-	
<i>Supplementary</i>	-	-	-	
<i>Supplementary AWS</i>	-	-	-	
<i>Auxiliary</i>	-	-	-	
<i>Auxiliary AWS</i>	-	-	-	
<i>Other</i>	-	-	-	BMKG will install 1 AWS at rig of National Oil Company
<b>National VOS Total</b>	7			

<b>National VOS Target</b>	~30
<b>National VOSclim Target</b>	-

b. Data management:	
<i>Total number of ship observations (BBXX) distributed on the GTS in 2011</i>	
<i>Frequency of VOS data submitted to the GCC in Yea0r</i>	-



**g. Major challenges and difficulties:**

- In recent time, BMKG has started to recruit our national ships as VOS. In fact the ships (especially ships belongs to Indonesian National Shipping company-PELNI) conduct the weather observation and record it on their log books (hard copy). Therefore in order to obtain the weather observation more often and in real/near real time, BMKG has installed AWSs at PELNI's as they have fixed route covering Indonesia waters. We still work on how the data can send to GTS in BBXX format. Another problem is the data observation from AWS does not contain cloud cover, cloud type, visibility, SST, wave height and current. So the challenges are how to convince them to put the data also in digital format with available software such as turbowin and send the data to GTS.

**h. Research / development / testing:****i. Other comments:**

