VOS Report for 2011 (Indonesia)

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

National VOS Target	~30
National VOSClim Target	-

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

Shipboard Automatic Weather System					
Туре	No. of ships at 31 Dec 2011	Manual Input Yes / No	Method of Comms	2012 Planned installations	
CHSENSE MET	6	No	INMARSAT	BMKG plan to instal four AWSs using Inmarsat	
DJEX DX4 PRO	1	No	GPRS	BMKG plan to replace GPRS to Inmarsat	
	Type HSENSE MET	Type No. of ships at 31 Dec 2011 HSENSE MET 6	Type No. of ships at 31 Dec 2011 HSENSE MET No. of ships at 31 Dec 2011 No No	Type No. of ships at 31 Dec 2011 Manual Input Yes / No Method of Comms HSENSE MET 6 No INMARSAT	

f.	Electronic logbooks: (TurboWin, SEAS, OBSJMA)			
Software & version No. of ships at 31 Dec 2011			Implementation plans	
	Turbowin		In 2012 BMKG will conduct training on Turbowin for PMOs (Port Meteorological Officers)	

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:

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