VOS Report for 2011 SPAIN

Category	No. of ships at 31 Dec 2011	Recruitments in 2011	De-recruitments In 2011	Comments
Selected	1			
Selected AWS				
VOSClim				
VOSClim AWS				
Supplementary				
Supplementary AWS				
Auxiliary				
Auxiliary AWS				
Other				

National VOS Target	
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	

c. Shipboard Automatic Weather Syste	Shipboard Automatic Weather System				
Туре	No. of ships at 31 Dec 2011	Manual Input Yes / No	Method of Comms	2012 Planned installations	
Vaisala MAWS 410	1	No	INMARSAT-C		

f. Electronic logbooks: (Tui	Electronic logbooks: (TurboWin, SEAS, OBSJMA)		
Software & version	No. of ships at 31 Dec 2011	Implementation plans	
Vaisala 1103_v17	1		

g.	Major challenges and difficulties:
Many	y problems with the INMARSAT transmitter in 2011. We expect solved them shortly.
h.	Research / development / testing:
i.	Other comments: