ANNEX B

QUESTIONNAIRE

This questionnaire has been designed to enable me to write a report for WMO on the use of Forecaster Workstation Systems¹ in National Meteorological Centres. The purpose of the report is to give guidelines to countries which wish to invest in such systems and to try and identify the hidden costs, such as on going support, of purchasing or developing a system. When completed the report will be made available to you.

The final report of the CBS meeting in October 1998 states "Review and report on uses made of various workstations in NMHS's including such items as the costs, software and support. Identify areas of potential collaboration and standardisation".

Please complete the questions as fully as you can, if you have more than one Forecaster Workstation System please photocopy this questionnaire and fill in for each system. There is space at the end for any further comments you may like to make.

Please return the completed Questionnaire to me by 31st January 2000.

Thank you for your help.

Lynda Jones UKMO

Please fill in the following details. These will not be part of the report but will be used for reference purposes only.

rganisation:
ountry:
/MO Region:
ame:
ontact Details:
ate:

¹ For this report a 'Forecaster Workstation System' is defined as any computer system that is dedicated to the display and manipulation of meteorological data for the purpose of producing weather forecasts.

1.	Does your organisation currently have a Forecaster Workstation System?					
	No	Yes				
	lf 'No' plea	ase go to question 21				
2.	What hardware is this system on?					
	Unix	(Please state operating system)				
	PC	(Please state operating system)				
	Other	(Please state)				
3.	Have you	developed this system yourself (in-house)?				
	No	Yes				
4.	Please state the percentage of the system which is:					
	% Free	third party software% Commercial third party software				
	% Writt	en in house% Other (please state)				
5.	Does you workstation contain software applications provided by other NMHSs.					
	No	Yes (please state both NHMSs and applications)				
6.	Does you seminars (e.g. PCG					
	No	Yes (please state)				
7.	What pro	gramming languages are used? (tick all that apply)				
	ʻC'	'C++' Fortran Java				
	Other (p	lease state)				

8. What programming tools are used? (tick all that apply)

Software Configuration Management (please state)

Debugger (please state)

Other (please state) _____

9. What is the purpose of the workstation? (tick all that apply)

Visualisation of Meteorological Data Producing Customer Products

Other (please state) _____

10. What is the main use of the workstation?

General Forecasting Aviation Forecasting Marine Forecasting

Long Range Forecasting Severe Weather Monitoring and Forecasting

Other (please state)

11. Can your workstation integrate the display and manipulation of satellite imagery, NWP date and meteorological observations?

No Yes (please give an example)

12. Does your workstation include a forecast preparation tool?

No Yes

If 'No' please go to question 14

13. Please tick all the functions this tool provides

Manually added Graphics Manually typed Text

First guess Graphics First guess Text

14. What database do you use?

Own in-house database

Commercial Database (please specify)

15. Do you use standard WMO formats (e.g. GRIB, BUFR)?

No Yes (please state)_____

16. What other formats do you use (apart from WMO formats)?

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17. What data do you use	on the system? (tick al	l that apply)				
Other NMHS's NWP m	Other NMHS's NWP models (please specify)					
Own NWP global mod	el Own local ar	Own local area NWP model				
Own local satellite & ra	Own local satellite & radar data					
Other satellite & radar	Other satellite & radar data (please specify)					
Observations from the	GTS Local observ	ations				
18. What components mak	ke up your system and	how many?				
Servers PC Others	Workstations	E Printers				
19. Please provide estimat	ed costs for acquiring	your whole system (cos	sts in \$US).			
Hardware 0 10,000 – 100,000 1,000,000	< 5,000 100,000 – 500,000	5,000 – 10,000 500,000 – 1,000,000	>			
Operating system 0 10,000 – 100,000 1,000,000	< 5,000 100,000 - 500,000		>			
General housekeeping 0 10,000 – 100,000 1,000,000	< 5,000	5,000 – 10,000 500,000 – 1,000,000	>			
Database 0 10,000 – 100,000 1,000,000	< 5,000 100,000 – 500,000	5,000 – 10,000 500,000 – 1,000,000	>			
Software 0 10,000 – 100,000 1,000,000	< 5,000 100,000 – 500,000	5,000 – 10,000 500,000 – 1,000,000	>			

20. Please provide estimated costs for maintaining your whole system (costs in \$US).

Hardware Maintenance 0 10,000 – 100,000 1,000,000	< 5,000 100,000 – 500,000	5,000 – 10,000 500,000 – 1,000,000	>				
Operating system main 0 10,000 – 100,000 1,000,000	tenance and upgrades < 5,000 100,000 – 500,000	5,000 - 10,000	>				
General housekeeping 0 10,000 – 100,000 1,000,000	-	5,000 – 10,000 500,000 – 1,000,000	>				
Database maintenance 0 10,000 – 100,000 1,000,000	-	5,000 – 10,000 500,000 – 1,000,000	>				
Software maintenance 0 10,000 – 100,000 1,000,000	,	5,000 – 10,000 500,000 – 1,000,000	>				
Ongoing software deve 0 10,000 – 100,000 1,000,000	lopment < 5,000 100,000 – 500,000	5,000 – 10,000 500,000 – 1,000,000	>				
21. Are you currently considering a new Forecaster Workstation System?							
Yes No							
If 'No' please go to question 28							
22. What hardware will this system be on?							
Unix (Please state	operating system)						
PC (Please state	PC (Please state operating system)						
Other (Please state)	-						
23. Will you be developing this system yourself (in-house)?							
Yes No							

If 'No' please go to question 25

24. Why did you decide to go for an in-house system?

25. Have you considered buying a system in? Yes No 26. How will you be acquiring this system? Complete system from another NMS (please state) Partial system from another NMS (please state) Complete system from a third party vendor (please state) Partial system from a third party vendor (please state) 27. Please detail your current working practise if you do not have a Forecaster Workstation System. 28. Please provide information on why you are not using a Forecaster Workstation System i.e. cost, technical ability etc. 29. Please provide any other information you think may be useful.

Thank you for completing this questionnaire, your answers will be used to compile a report for WMO.

Please return the completed questionnaire to:

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