

AMOSSG/5-SN No. 10 15/3/05

## AERODROME METEOROLOGICAL OBSERVING SYSTEMS STUDY GROUP (AMOSSG)

## FIFTH MEETING

## Montreal, 11 to 14 April 2005

### Agenda Item 5: Aerodrome observation requirements 5.1: Reporting requirements and criteria

## TREND FORECAST IN LOCAL ROUTINE AND SPECIAL REPORTS

(Presented by C.M. Cheng)

## SUMMARY

This paper reviews the templates for local routine and special reports, and highlights some issues in representing trend forecast of visibility and wind in local routine and special reports.

### 1. **INTRODUCTION**

1.1 Annex 3, in its Amendment 73, introduces a template for the local routine and special reports at Table A3-1 (see Appendix A) which specify, among others, the format for a trend forecast.

# 2. TREND FORECAST FOR VISIBILITY AND SURFACE WIND

2.1 Appendix 5, para. 2.2.3 requires that "In trend forecasts appended to local routine and special reports; visibility refers to the forecast visibility along the runway(s)". In the template for local routine and special reports in Table A3-1 (see appendix), there is no reference to runway or runway section in the trend forecast of "along runway" visibility (which in principle could be different for different runways), whereas the report of visibility (see appendix) contains reference to runway and runway section.

2.2 Difficulties arise when there are different readings of visibility for different sections of a particular runway while there is only one value of trend forecast of "along runway" visibility. The same difficulties also exist for surface wind report and wind trend forecast in Table A3-1 in Annex 3. There is uncertainty as to how the criteria for trend forecast (Annex 3, Appendix 5, para. 2.2.2 and 2.2.3) should be applied and how to reconcile reference to runway locations in the trend forecast. There is therefore a need

to clarify in Annex 3 and/or relevant ICAO guidance material how to present and interpret the trend forecast of "along runway" visibility and wind in local routine and special reports. Consideration could be made in incorporating an optional field for "Runway" to the template for the trend forecast of visibility and wind.

2.3 While this issue could be a subject for local agreement between the MET authority, ATS authority and other relevant users of the local routine and special reports, it is highly desirable that this issue be clarified in Annex 3 and/or relevant ICAO guidance material.

### 3. ACTION BY THE GROUP

3.1 The group is requested to:

- a) note the issues raised in this paper; and
- b) consider to clarify in Annex 3 and/or relevant ICAO guidance material how to present the trend forecast of "along runway" visibility and wind in relation to the different reported visibility and winds for different runways and different sections of the runways in the local routine and special reports.

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### APPENDIX

### TABLE A3-1 IN ANNEX 3

### Table A3-1. Template for the local routine (MET REPORT) and local special (SPECIAL) reports

Key:	Μ	=	inclusion mandatory, part of every message
	С	=	inclusion conditional, dependent on meteorological conditions
	Ο	=	inclusion optional

Note 1.— The ranges and resolutions for the numerical elements included in the local routine and special reports are shown in Table A3-4 of this appendix.

*Note 2.— The explanations for the abbreviations used can be found in the* Procedures for Air Navigation Services — ICAO Abbreviations and Codes (*PANS-ABC*, *Doc 8400*).

Element as specified in Chapter 4	Detailed content	Template(s)			Examples		
Identification of the type of report (M)	Type of report	MET REPC	ORT or SPECIAL	MET REPORT SPECIAL			
Location indicator (M)	ICAO location indicator (M)	nnnn		YUDO <sup>1</sup>			
Time of the observation (M)	Day and actual time of the observation in UTC	nnnnnZ		221630Z			
Surface wind (M)	Name of the element (M)	WIND		WIND 240/15KMH (WIND 240/8KT)			
	Runway (O)²	RWY nn[n]					
	Runway section (O) <sup>3</sup>	TDZ					
	Wind direction (M)	nnn/	VRB BTN nnn/ AND nnn/ or VRB	CALM	WIND VRB4KMH WIND CALM (WIND VRB2KT) WIND VRB BTN 350/ AND 050/4KMH (WIND VRB BTN 350/ AND 050/2KT)		
	Wind speed (M)	[ABV] n[n][n]KMH ( <i>or</i> [ABV] n[n]KT)			WIND 270/ABV 199KMH (WIND 270/ABV 99KT)		
	Significant speed variations (C)⁴	MAX [ABV]	nn [n] MNM n [n]	-	WIND 120/12KMH MAX35 MNM8 (WIND 120/6KT MAX18 MNM4)		
	Significant directional variations (C)⁵	VRB BTN nnn/ AND nnn/	_		WIND 020/20KMH VRB BTN 350/ AND 070/ (WIND 020/10KT VRB BTN 350/ AND 070/)		
	Runway section (O) <sup>3</sup>	MID			WIND RWY 14R MID 140/22KMH		
	Wind direction (O) <sup>3</sup>	nnn/	VRB BTN nnn/ AND nnn/ or VRB	CALM			
	Wind speed (O) <sup>3</sup>	[ABV] n[n][r	n]KMH ( <i>or</i> [ABV] n[n]KT)	1			
	Significant speed variations (C)⁴	MAX [ABV]	] nn [n] MNM n [n]				
	Significant directional variations (C) <sup>5</sup>	VRB BTN nnn/ AND nnn/					

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Runway section (O) <sup>3</sup> END         WIND RWY 27 TD2 240/32KMH MAX54 MNR02 EVD 250/3KMH MX54 MNR02 EVD 250/24KMH MX54 MNR02 EVD 250/24KMH VIS STM VIS STM V						
Wind direction (0) <sup>3</sup> nnn/         VRB BTN nnn/ AND nnn/ VRB         CALM           Wind speed (0) <sup>3</sup> (ABV] n[n][n](MHI (or [ABV] n[n][KT))            Significant speed variations (C) <sup>4</sup> MAX [ABV] n[n] [MMI n [n]            Significant directional variations (C) <sup>4</sup> MAX [ABV] n[n] [MMI n [n]            Visibility (M)         Name of the element (M) variations (C) <sup>5</sup> VIS         CAVOK VIS 350M CAVOK VIS 7KM VIS 7KM VIS 7KM VIS 7KM VIS 10KM           Runway (O) <sup>2</sup> RWY nn[n]         CAVOK VIS 10KM         VIS 8WY 09 TDZ 800M END 1200M           Runway section (O) <sup>3</sup> TDZ         VIS 8WY 09 TDZ 800M END 1200M           Runway section (O) <sup>3</sup> IDD         VIS RWY 09 TDZ 800M END 1200M           Runway section (O) <sup>3</sup> IDD         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           Runway section (O) <sup>3</sup> Nn[n][n]M or n[n]KM         RVR RWY 22 400M RVR RWY 22 400M           RVR (C) <sup>3</sup> Name of the element (M) RVR RWY nn[n]         RVR RWY 10 BLW 50M RVR RWY 14 ABV 2000M RVR RWY 14 ABV 2000M RVR RWY 12 ABV 2000M RVR RWY 12 ABV 2000M RVR RWY 12 ABV 2000M RVR RWY 12 ABV 1200M           RVR (C) <sup>3</sup> ABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID 500M END 400M RVR RWY 16 TDZ 600M MID 500M END 400M           RVR (C) <sup>3</sup> IABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID 500M END 400M RVR RWY 16 TDZ 600M MID 500M END 400		Runway section (O) <sup>3</sup> END				WIND RWY 27 TDZ 240/32KMH MAX54 MNM20 END 250/28KMH (WIND RWY 27 TDZ 240/16KT MAX27 MNM10 END 250/14KT)
Wind speed (O) <sup>3</sup> (ABV) n(n)[n](MKH (or (ABV] n(n]KT)         Image: Constraint of the speed wariations (C) <sup>4</sup> Significant speed wariations (C) <sup>4</sup> MAX [ABV] nn [n] MNM n [n]         Image: Constraint of the speed wariations (C) <sup>4</sup> MAX [ABV] nn [n] MNM n [n]           Visibility (M)         Name of the element (M)         VIS         CAVOK         VIS 350M CAVOK VIS 7KM VIS 10KM           Runway (O) <sup>2</sup> RWY nn[n]         CAVOK         VIS 350M CAVOK VIS 7KM VIS 10KM           Runway section (O) <sup>3</sup> TDZ         VISIbility (M)         nn[n][n][M or n[n][KM           Runway section (O) <sup>3</sup> TDZ         VIS RWY 09 TDZ 800M END 1200M           Visibility (M)         nn[n][n][M or n[n][KM         VIS RWY 09 TDZ 800M END 1200M           Runway section (O) <sup>3</sup> TDZ         VIS RWY 09 TDZ 800M END 1200M           Visibility (O) <sup>3</sup> nn[n][m] or n[n]KM         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           RVR (C) <sup>6</sup> Name of the element (M)         RVR           RVR (C) <sup>6</sup> Name of the element (M)         RVR           RVR (C) <sup>6</sup> MAW or BLW] nn[n][n]M         RVR RWY 32 400M           RVR (C) <sup>6</sup> MAW or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           RVR (M)         (ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           RVR (C) <sup>4</sup> M		Wind direction (O) <sup>3</sup>	nnn/	VRB BTN nnn/ AND nnn/ or VRB	CALM	
Significant speed variations (C)*         MAX (ABV] nn [n] MNM n [n] significant directional variations (C)*         MAX (ABV] nn [n] MNM n [n]           Significant directional variations (C)*         VRB BTN nnn/ AND nnn/ AND nnn/ AND nnn/ AND nnn/ AND         -           Visibility (M)         Name of the element (M)         VIS         CAVOK VIS 350MCAVOK VIS 350MCAVOK VIS 7KM VIS 10KM           Runway (O)*         RWY nn[n]         -         -           Runway section (O)*         TDZ         -           Visibility (M)         nn[n][n][M or n[n]KM         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           Runway section (O)*         END         -           Visibility (O)*         nn[n][n][M or n[n]KM         -           Runway section (O)*         END         -           Visibility (O)*         nn[n][n][M or n[n]KM         -           RVR (C)*         Name of the element (M)         RVR           Runway (C)*         RWY nn[n]         -           Runway (C)*         RWY nn[n]         -           Runway (C)*         RWY nn[n]         -           Runway section (C)*         TDZ         -           RVR (M)         [ABV or BLW] nn[n][n]M         -           RVR (C)*         [ABV or BLW] nn[n][n]M         -           RVR (C)*		Wind speed (O) <sup>3</sup>	[ABV] n[n][n	]KMH ( <i>or</i> [ABV] n[n]KT)		
Significant directional variations (C) <sup>5</sup> VRB BTN nnn/AND NND VIS 350M CAVOK VIS 750M CA		Significant speed variations (C) <sup>4</sup>	MAX [ABV] nn [n] MNM n [n]			
Visibility (M)         Name of the element (M)         VIS         CAVOK         VIS 350M CAVOK           Runway (Q) <sup>2</sup> RWY nn[n]         Runway (Q) <sup>2</sup> RWY nn[n]         RURway section (O) <sup>3</sup> TDZ           Runway section (O) <sup>3</sup> TDZ         TDZ         VIS 10KM         VIS RWY 09 TDZ 800M END 1200M           Runway section (O) <sup>3</sup> MID         Runway section (O) <sup>3</sup> MID         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM         Runway section (O) <sup>3</sup> END         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           RVR (C) <sup>6</sup> Name of the element (M)         RVR         RVR         RVR RWY 20 500M           RVR (C) <sup>7</sup> RWY nn[n]         Runway section (C) <sup>6</sup> TDZ         RVR RWY 10 BLW 50M           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M         RVR RWY 14 ABV 2000M           RVR RWY (C) <sup>8</sup> MID         RUR RWY 12 ABV 1200M         RVR RWY 12 ABV 1200M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 ABV 1200M         RVR RWY 12 ABV 1200M           RVR RWY (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 TDZ 1100M MID ABV 1400         RVR RWY 16 TDZ 600M MID 500M END 400M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID		Significant directional variations (C) <sup>5</sup>	VRB BTN nnn/ AND nnn/			
Runway (O) <sup>2</sup> RWY nn[n]           Runway section (O) <sup>3</sup> TDZ           Visibility (M)         nn[n][n][M or n[n]KM           Runway section (O) <sup>3</sup> MID           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)           RVR         RVR (M)           Runway section (C) <sup>6</sup> TDZ           Runway section (C) <sup>6</sup> TDZ           Runway section (C) <sup>6</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 16 TDZ 600M MID 500M END 400M           A00M         RVR RWY 26 500M RWY 20 800M           RVR RWY 26 500M RWY 20 800M         RVR RWY 26 500M RWY 20 800M           RVR	Visibility (M)	Name of the element (M)	VIS		CAVOK	VIS 350MCAVOK VIS 7KM VIS 10KM
Runway section (O) <sup>3</sup> TDZ           Visibility (M)         nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> MID           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)           RVR         Runway section (C) <sup>6</sup> Runway section (C) <sup>6</sup> TDZ           Runway section (C) <sup>6</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> MID           Runway section (C) <sup>6</sup> MID           Runway section (C) <sup>6</sup> MID           Runway section (C) <sup>6</sup> MID           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 16 TDZ 600M MID 500M END 400M           RVR RWY 26 500M RWY 20 800M           RVR RWY 16 TDZ 600M RWY 20 800M           RVR RWY 16 TDZ 600M RWY 20 800M           RVR RWY 16 TDZ 600M RWY 20 800M		Runway (O) <sup>2</sup>	RWY nn[n]			VIS RWY 09 TDZ 800M END 1200M
Visibility (M)         nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> MID           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)           RVR         Name of the element (M)           RVR         Runway section (C) <sup>8</sup> Runway (C) <sup>7</sup> RWY nn[n]           Runway section (C) <sup>8</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M           Runway section (C) <sup>8</sup> MID           RVR (C) <sup>9</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>9</sup> [ABV or BLW] nn[n][n]M           RVR RWY 12 TDZ 600M MID 500M END 400M           RVR RWY 26 500M RWY 20 800M           RVR RWY 26 500M RWY 20 800M		Runway section (O) <sup>3</sup>	TDZ			
Runway section (O) <sup>3</sup> MID           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)           RVR         Runway (C) <sup>7</sup> Runway section (C) <sup>6</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M           Runway section (C) <sup>6</sup> TDZ           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 10 BLW 50M         RVR RWY 112 TDZ 1100M MID ABV 1400           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 16 TDZ 600M MID 500M END 400M         400M           RVR RWY 16 TDZ 600M MID 500M END 400M         400M           RVR RWY 26 500M RWY 20 800M         400M           RVR RWY 26 500M RWY 20 800M         400M		Visibility (M)	nn[n][n]M <i>oi</i>	rn[n]KM		
Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           Runway section (O) <sup>3</sup> END           Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)           RVR mway section (C) <sup>7</sup> RWY nn[n]           Runway (C) <sup>7</sup> RWY nn[n]           Runway section (C) <sup>8</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 10 BLW 50M         RVR RWY 12 ABV 2000M           RVR RWY 10 BLW 50M         RVR RWY 10 BLW 50M           RVR (C) <sup>6</sup> [ABV or BLW] nn[n][n]M           RVR RWY 10 BLW 150M         RVR RWY 12 ABV 1200M           RVR RWY 12 DZ 1100M MID ABV 1400         RVR RWY 12 ABV 1200M           RVR RWY 12 TDZ 1100M MID ABV 1400         RVR RWY 16 TDZ 600M MID 500M END 400M           RVR RWY 16 TDZ 600M MID 500M END 400M         RVR RWY 26 500M RWY 20 800M           Present weather (C) <sup>8</sup> [ABV or BLW] nn[n][n]M		Runway section (O) <sup>3</sup>	MID			
Runway section (O) <sup>3</sup> END         VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M           RVR (C) <sup>5</sup> Name of the element (M)         RVR         RVR         RVR RWY 32 400M         RVR RWY 20 500M           Runway (C) <sup>7</sup> RWY nn[n]         RVR (M)         RVR rewr nn[n]         RVR RWY 20 500M           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M         RVR RWY 10 BLW 50M           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M         RVR RWY 10 BLW 150M           RVR (C) <sup>8</sup> MID         RVR RWY 12 ABV 2000M         RVR RWY 12 ABV 2000M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 TDZ 1100M MID ABV 1400           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID 500M END 400M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 26 500M RWY 20 800M           Present weather (C) <sup>9</sup> MD or MOD or MVY         MD or MVY         RWY 26 500M RWY 20 800M		Visibility (O) <sup>3</sup>	nn[n][n]M <i>oi</i>	r n[n]KM		
Visibility (O) <sup>3</sup> nn[n][n]M or n[n]KM           RVR (C) <sup>6</sup> Name of the element (M)         RVR           Runway (C) <sup>7</sup> RWY nn[n]         RVR RWY 20 500M           Runway section (C) <sup>8</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           Runway section (C) <sup>8</sup> MID         RVR RWY 10 BLW 150M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 ABV 1200M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 TDZ 1100M MID ABV 1400           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID 500M END 400M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 26 500M RWY 20 800M           Present weather (C) <sup>9</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or HVY           (C) <sup>9, 10</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or HVY         MOD or HVY		Runway section (O) <sup>3</sup>	END			VIS RWY 18 TDZ 6KM RWY 27 TDZ 4000M
RVR (C) <sup>6</sup> Name of the element (M)         RVR         RVR         RVR RWY 32 400M           Runway (C) <sup>7</sup> RWY nn[n]         Runway section (C) <sup>6</sup> TDZ           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           RVR RWY 10 BLW 50M         RVR RWY 10 BLW 50M           RVR (M)         [ABV or BLW] nn[n][n]M         RVR RWY 10 BLW 50M           RUNway section (C) <sup>6</sup> MID         RVR RWY 12 ABV 1200M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 12 TDZ 1100M MID ABV 1400           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 16 TDZ 600M MID 500M END 400M           RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M         RVR RWY 26 500M RWY 20 800M           Present weather (C) <sup>9</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or MVY           (C) <sup>9, 10</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or MVY         MOD or MVY		Visibility (O) <sup>3</sup>	nn[n][n]M <i>oi</i>	rn[n]KM		
Runway (C) <sup>7</sup> RWY nn[n]Runway section (C) <sup>8</sup> TDZRVR (M)[ABV or BLW] nn[n][n]MRVR (M)[ABV or BLW] nn[n][n]MRunway section (C) <sup>8</sup> MIDRunway section (C) <sup>8</sup> MIDRVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]MRVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]MRVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]MRVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]MPresent weather (C) <sup>9, 10</sup> FBL or MOD or HVY	RVR (C) <sup>6</sup>	Name of the element (M)	RVR			RVR RWY 32 400M RVR RWY 20 500M
Runway section (C) <sup>®</sup> TDZRVR (M)[ABV or BLW] nn[n][n]MRVR RWY 10 BLW 50MRVR (M)[ABV or BLW] nn[n][n]MRVR RWY 14 ABV 2000MRunway section (C) <sup>®</sup> MIDRVR RWY 12 ABV 1200MRVR (C) <sup>®</sup> [ABV or BLW] nn[n][n]MRVR RWY 12 TDZ 1100M MID ABV 1400RVR (C) <sup>®</sup> [ABV or BLW] nn[n][n]MRVR RWY 16 TDZ 600M MID 500M ENDRVR (C) <sup>®</sup> [ABV or BLW] nn[n][n]MRVR RWY 16 TDZ 600M MID 500M ENDPresent weatherIntensity of present weather (C) <sup>®</sup> FBL or MOD or HVY		Runway (C) <sup>7</sup>	RWY nn[n]			
RVR (M)[ABV or BLW] nn[n][n]MRVR RWY 10 BLW 50M RVR RWY 14 ABV 2000M RVR RWY 10 BLW 150M RVR RWY 10 BLW 150M RVR RWY 12 ABV 1200MRunway section (C) <sup>8</sup> MIDRVR (C) <sup>8</sup> RVR RWY 12 TDZ 1100M MID ABV 1400 RVR RWY 12 ABV 1200MRVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]MRVR RWY 16 TDZ 600M MID 500M END 400M RVR RWY 26 500M RWY 20 800MPresent weather (C) <sup>9, 10</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or HVY		Runway section (C) <sup>8</sup>	TDZ			
Runway section (C)8MIDRVR (C)8RVR (C)8		RVR (M)	[ABV or BL\	W] nn[n][n]M		RVR RWY 10 BLW 50M RVR RWY 14 ABV 2000M RVR RWY 10 BLW 150M RVR RWY 12 ABV 1200M
$RVR (C)^8$ $[ABV \text{ or } BLW] nn[n][n]M$ Runway section $(C)^8$ $END$ $RVR (C)^8$ $[ABV \text{ or } BLW] nn[n][n]M$ $RVR (C)^8$ $[ABV \text{ or } BLW] nn[n][n]M$ Present weather $(C)^{9, 10}$ Intensity of present weather $(C)^9$ $FBL \text{ or }$ HVY		Runway section (C) <sup>8</sup>	MID			RVR RWY 12 TDZ 1100M MID ABV 1400M
Runway section (C) <sup>8</sup> END       RVR RWY 16 TDZ 600M MID 500M END 400M         RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M       RVR RWY 26 500M RWY 20 800M         Present weather (C) <sup>9</sup> Intensity of present weather (C) <sup>9</sup> FBL or HVY		RVR (C) <sup>8</sup>	[ABV or BL\	W] nn[n][n]M		
RVR (C) <sup>8</sup> [ABV or BLW] nn[n][n]M       Present weather (C) <sup>9, 10</sup> Intensity of present weather (C) <sup>9</sup> FBL or MOD or HVY		Runway section (C) <sup>8</sup>	END			RVR RWY 16 TDZ 600M MID 500M END 400M RVR RWY 26 500M RWY 20 800M
Present weather Intensity of present FBL or (C) <sup>9, 10</sup> weather (C) <sup>9</sup> HOD or HVY		RVR (C) <sup>8</sup>	[ABV or BL\	W] nn[n][n]M		
	Present weather (C) <sup>9, 10</sup>	Intensity of present weather (C) <sup>9</sup>	FBL or MOD or HVY	_	1	

	Characteristics and type of present weather (C) <sup>9,11</sup>	DZ or RA or SN or SG or PL or DS or SS or FZDZ or FZRA or SHGR or SHPL or SHRA or SHSN or TSGR or TSGR or TSRA or TSRA or TSRA or	IC or FG or BR or SA or DU or HZ or FU or VA or SQ or PO or FC or TS or BLDU or BLSA or DRSN or DRSN or FZFG or MIFG or PRFG		MOD RA HZ HVY TSRA HVY DZ FBL SN HVY TSRASN FBL SNRA FBL DZ FG HVY SHSN BLSN	FG VA MIFG
Cloud (M) <sup>12</sup>	Name of the element (M)	CLD				
( )	Runway (O) <sup>2</sup>	RWY nn[n]				
	Cloud amount (M) or vertical visibility (O) <sup>9</sup>	FEW or OBSC SCT or BKN or OVC	SKC or NSC		CLD SCT 300M OVC (CLD SCT 1000FT OV CLD OBSC VER VIS (CLD OBSC VER VIS	600M CLD NSC /C 2000FT) 150M CLD SKC 500FT)
	Cloud type (C) <sup>9</sup>	CB or TCU —	_		CLD BKN TCU 270M (CLD BKN TCU 900F	T)
	Height of cloud base or the value of vertical visibility (C) <sup>9</sup>	nn[n][n]M [VER VIS (or nn[n]M nnn[n]FT) ( <i>or</i> VER VIS nnn[n]FT	5		CLD RWY 08 BKN 60 (CLD RWY 08 BKN 20 300FT)	M RWY 26 BKN 90M 00FT RWY 26 BKN
Air temperature (M)	Name of the element (M)	Т		T17 TMS08		
	Air temperature (M)	[MS]nn				
Dew-point temperature (M)	Name of the element (M)	DP			DP15 DPMS18	
	Dew-point temperature (M)	[MS]nn				
Pressure values (M)	Name of the element (M)	QNH		QNH 0995HPA QNH 1009HPA		
	QNH (M)	nnnnHPA				
	Name of the element (O)	QFE			QNH 1022HPA QFE QNH 0987HPA QFE F RWY 24 0955HPA	1001HPA RWY 18 0956HPA
	QFE (O)	[RWY nn[n]] nnnnHP.	A [RWY nn[n] nnnnHi	PA]		
Supplementary information (C) <sup>9</sup>	Significant meteorological phenomena (C) <sup>9</sup>	CB or TS or MOD TU GR or SEV SQL or M or FZRA or SEV MTV FC <sup>13</sup>	IRB or SEV TURB or IOD ICE or SEV ICE ( V or SS or DS or BLS	WS or or FZDZ SN or	FC IN APCH WS IN APCH 60M-WI WS RWY 12	ND: 360/50KMH
	Location of the phenomenon (C) <sup>9</sup>	IN APCH [nnnMWINI IN CLIMB-OUT [nnnN (IN APCH [nnnFT-WI IN CLIMBOUT [nnnF RWY nn[n]	D nnn/nnKMH] or 4-WIND nnn/nnKMH] ND nnn/nnKT] or TWIND nnn/nnKT]) סו	r		
	Recent weather (C) <sup>9, 10</sup>	REFZDZ or REFZRA RE[SH]SN or RESG RESHGS or REBLSN RETSRA or RETSSN RETSGS or REFC or	or REDZ or RE[SH]F or RE[SH]PL or RESI or RESS or REDS o or RETSPL or RETS REVA	REFZRA CB IN CLIMB-OUT RI	ETSRA	

## AMOSSG/5-SN No. 10 Appendix

Trend forecast	Name of the element (M)	) TREND					
(O) <sup>14</sup>	Change indicator (M) <sup>15</sup>	NOSIG	BECMG a	BECMG or TEMPO			TREND NOSIG TREND BECMG FEW 600M
	Period of change (C) <sup>9</sup>	_	FMnnnn <i>and/or</i> TLnnnn				(TREND BECMG FEW 2000FT)
			or ATnnnn nnn/ [ABV] n[n][n]KMH [MAX[ABV]nn[n]] (or nnn/ [ABV] n[n]KT [MAX[ABV]nn])				
	Wind (C) <sup>9</sup>						TREND TEMPO 250/70KMH MAX 100 (TREND TEMPO 250/35KT MAX 50)
	Visibility (C) <sup>9</sup>	-	VIS nn[n][n]M CAVOK or VIS n[n]KM			CAVOK	TREND BECMG AT1800 VIS 10KM NSW TREND BECMG TL1700 VIS 800M FG TREND BECMG FM1030 TL1130 CAVOK
	Weather phenomenon: intensity (C) <sup>9</sup>		FBL or MOD or HVY		NSW		TREND TEMPO TL1200 VIS 600M BECMG AT1230 VIS 8KM NSW NSC
	Weather phenomenon: characteristics and type (C) <sup>9, 10, 12</sup>		DZ or RA or SN or SG or PL or DS or FZDZ or FZRA or SHGR or SHGS or SHPL or SHRA or SHSN or TSGR or TSGS or TSGS or TSPL or TSRA or	IC or FG or BR or SA or DU or HZ or FU or VA or SQ or PO or FC or TS or BLSDU or BLSN or DRSN or DRSN or FZFG or PRFG			TREND TEMPO FM0300 TL0430 MOD FZRA TREND BECMG FM1900 VIS 500M HVY SNRA TREND BECMG FM1100 MOD SN TEMPO FM1130 BLSN
	(C) <sup>9</sup> Cloud amount and vertical visibility (C) <sup>9</sup> Cloud type (C) <sup>9</sup>	-	FEW or SCT or BKN or OVC CB or TCU	OBSC	SKC or NSC		TREND BECMG AT1130 CLD OVC 300M (TREND BECMG AT1130 CLD OVC 1000FT) TREND TEMPO TL1530 HVY SHRA CLD BKN CB 360M (TREND TEMPO TL1530 HVY SHRA CLD
	Height of cloud base or the value of vertical visibility (C) <sup>9</sup>		nn[n][n]M ( <i>or</i> nnn[n]FT)	[VER VIS nn[n]M ( <i>or</i> VER VIS nnn[n]FT)]			BKN CB 1200FT)

Notes.-

- Fictitious location. Optional values for one or more runways. Optional values for one or more sections of the runway. To be included in accordance with 4.1.4.2 c). To be included in accordance with 4.1.4.2 b) 1) 1. 2.3. 4.5.

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To be included if visibility or RVR < 1 500 m.</li>
To be included in accordance with 4.3.6.4 d).
To be included in accordance with 4.3.6.4 c).
To be included whenever applicable.
One or more, up to a maximum of three groups in accordance with 4.4.2.6, 4.8.1.1 and Appendix 5, 2.2.4.1.

Precipitation types listed under 4.4.2.3 a) may be combined in accordance with 4.4.2.6 and Appendix 5, 2.2.4.1. Only moderate or heavy precipitation to be indicated in trend forecasts in accordance with Appendix 5, 2.2.4.1.
 Up to four cloud layers in accordance with 4.5.4.1 g).

- Abbreviated plain language may be used in accordance with 4.8.1.2.
   To be included in accordance with Chapter 6, 6.3.2.
   Number of change indicators to be kept to a minimum in accordance with Appendix 5, 2.2.1, normally not exceeding three groups.

— END —