International Civil Aviation Organization

WORKING PAPER

Asia and Pacific (APAC)
Thirteenth Meeting of the Meteorological Services Working Group (MET/S WG/13)

Bangkok, Thailand, 29 to 31 March 2023

Agenda Item 5: Deficiencies in the provision of meteorological services

RESOLUTION OF MET DEFICIENCY AP-MET-14

(Presented by Nepal)

SUMMARY

This paper outlines the work done by Nepal for the resolution of MET air navigation deficiency number AP-MET-14 for Meteorology Services Working Group (MET S) to review and provide advice for necessary action as required to resolve the deficiency.

1. INTRODUCTION

1.1 As defined by APANPIRG, an air navigation deficiency is a situation where a facility, service or procedure does not comply with a regional air navigation plan approved by the Council, or with related ICAO Standards and Recommended Practices (SARPs), and which situation has a negative impact on the safety, regularity or efficiency of international civil aviation[1].

1.2 A deficiency was identified by APANPIRG as Requirements for issuance and dissemination of SIGMET information for Kathmandu FIR have not been fully implemented. This was first reported in 2000 and given priority A for action. The status was updated in September 2017 and APANPIRG/28 noted that Nepal should verify the status of implementation of CAP and work together with ICAO to develop and properly record the remaining steps of the CAP to resolve the deficiency.

1.3 This paper presents the corrective action taken by Nepal to address the deficiency and invite MET S to examine the corrective actions provided and advice on further course of action required by the state.

[1] APANPIRG Procedural Handbook, 6th edition, 1 June 2020, Part V, Section 2, paragraph 1.3

2. DISCUSSION

2.1 Nepal is required to establish a mechanism to observe, compose, and disseminate weather information for international air navigation in accordance with ICAO Annex 3.

2.2 The agency responsible for the issuance of weather reports in Nepal, including SIGMET, is the Meteorological Forecasting Division (MFD) under the Department of Hydrology and Meteorology (DHM).

2.3 The corrective action taken to ensure provision of meteorological services for international air navigation are listed below:

a) Establishing Hydromet workstation (SYNERGIEWEB) at MFD to compose SIGMET information with coordinates, height, speed, and direction for TS phenomena
b) Using the Hydromet workstation to create SIGMET messages
c) Using Automatic Message Handling System (AMHS) supplied by the Civil Aviation Authority of Nepal (CAAN) to disseminate SIGMET and other weather reports
d) Joining the SSEA SIGMET Coordination project to ensure SIGMET information is coordinated between KATHMANDU FIR and adjoining FIR
e) Ensuring regular participation of Nepal in SIGMET tests

2.4 There is an effective dissemination web that is established by CAAN to ensure SIGMET and other weather reports issued by the MET agency is delivered to ATS units and airline operators.

2.5 MFD, DHM has already upgraded SIGMET and other weather reports to the IWXXM format and is awaiting upgrading of AMHS systems to the IWXXM format.

2.6 Formal agreement between different departments of CAAN and DHM to ensure streamlined service delivery by the MET agency in Nepal is established.

2.7 All formal agreements will be revisited as and when required when the situation warrants (government policy updates) going forward.

2.8 Evidence of MET deficiency resolution have been provided in the appendix:

- Attachment 1: Type of SIGMET possible to produce by SYNERGIEWEB
- Attachment 2: Sample of WS SIGMET production window in SYNERGIEWEB
- Attachment 3: Sample of WS SIGMET produced by SYNERGIEWEB
- Attachment 4: SIGMET TEST result 2021
- Attachment 5: Sample of SIGMET dissemination platform (AMHS)
- Attachment 6: Sample of VA Advisory received from the AMHS system
- Attachment 7: Sample of TAF message sent by Nepal
- Attachment 8: Sample of wind and temperature chart provided for air navigation purpose

2.9 Letter of Support to confirm regular and timely receipt of meteorological information for air navigation purpose was sought as evidence from ATS, CAAN, and airline operators. The support note or letter from these organizations will be furnished as separate attachment when available.

3. ACTION BY THE MEETING

3.1 On the basis of establishing the resolution status of this deficiency (AP-MET-14), MFD/DHM sincerely requests the assistance of MET S to review the evidence covered in section two (2) of this paper and provide feedback.

3.2 The MET S is requested to consider making a recommendation to APANPIRG to remove AP-MET-14 from the deficiency list.

3.3 The MET/S – WG is hereby invited to :

a) Review the evidence of deficiency resolution presented, and
b) Provide feedback on the resolution status.

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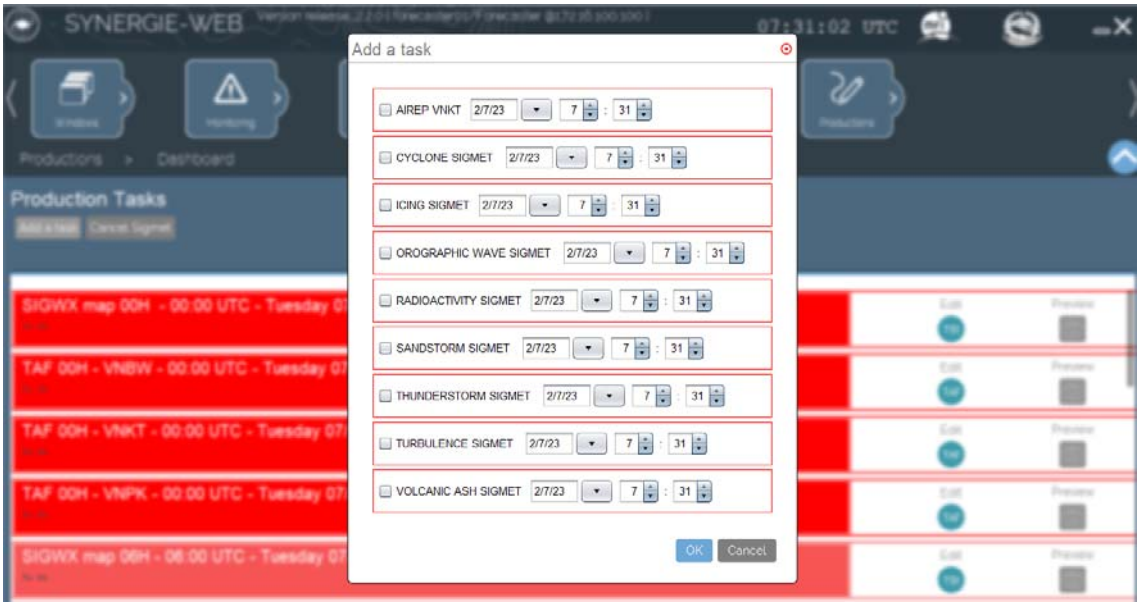
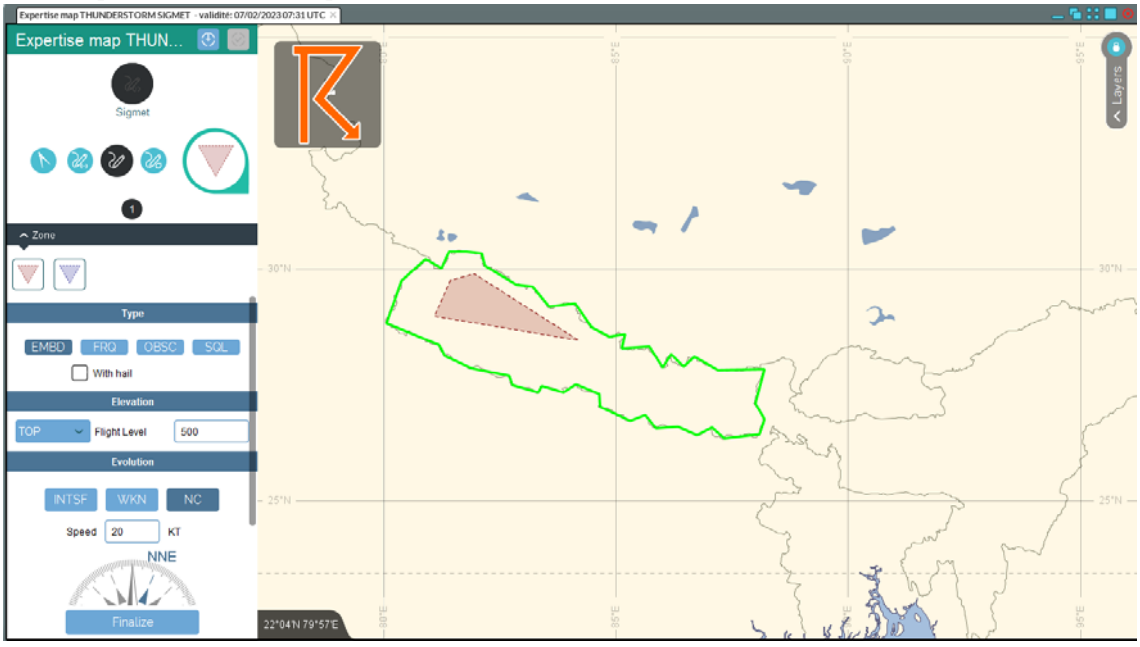
APPENDIX

[necessary supporting information]

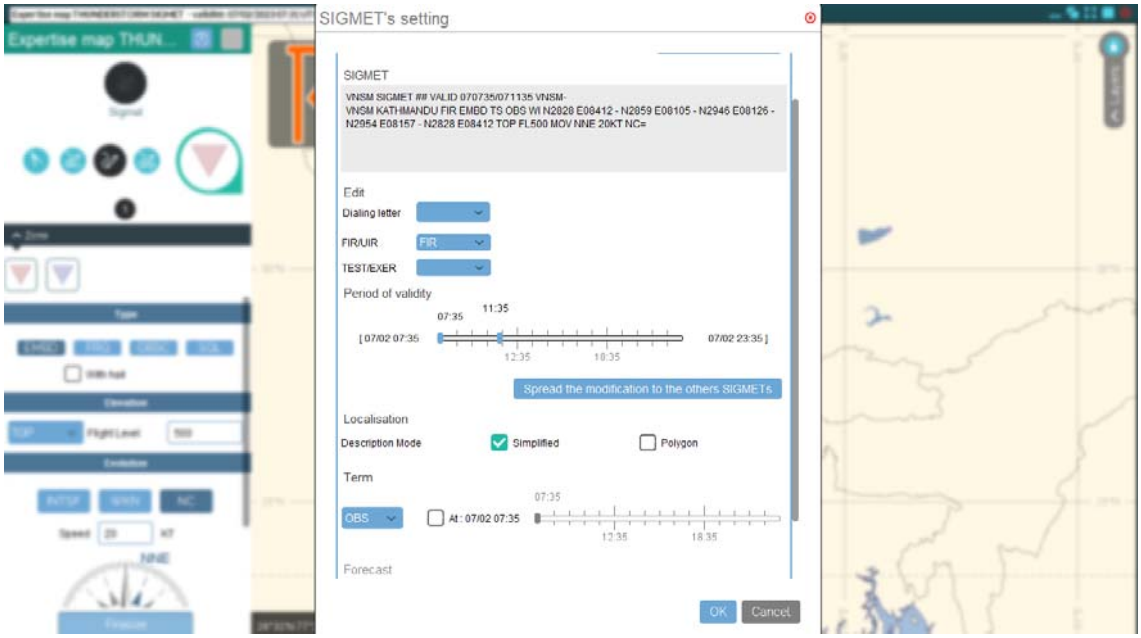
1. Type of SIGMET possible to produce by SYNERGIEWEB



2. Sample of WS SIGMET production window in SYNERGIEWEB



3. Sample of WS SIGMET produced by SYNERGIEWEB



4. SIGMET TEST result 2021

Appendix 6: Table of WV SIGMET test

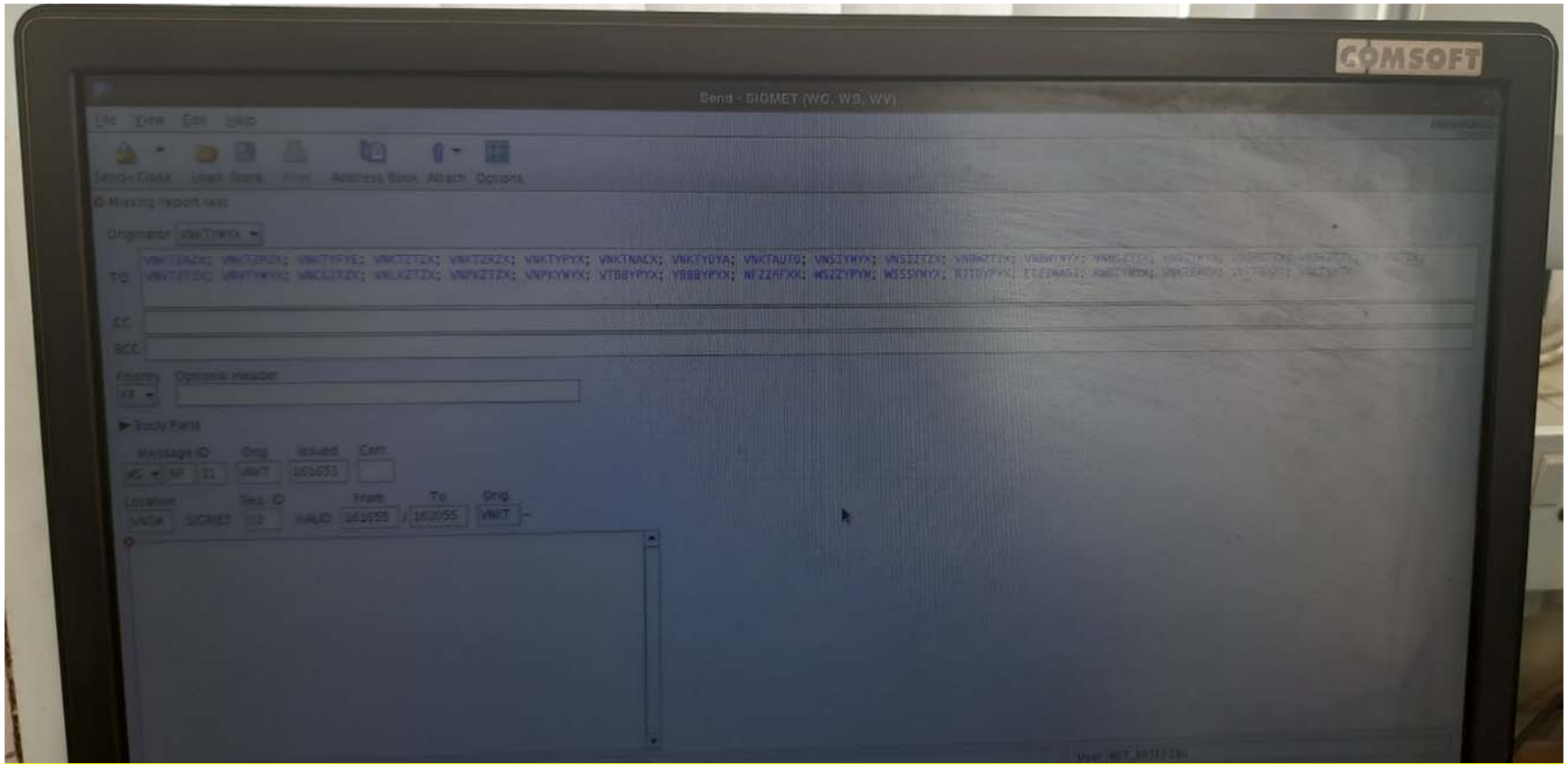
MWO details in APEC Regional SIGMET TEST Procedures 2021 / SIGMET Guide

State	MWO name	MWO	TTAAii	CCCC	FIR	PI	TTAAii	CCCC	YYGGgg	MWO	FIR	VAAC	Test Result Received Time(UTC) VYBB	WSSS	YBBB	NFFN	RaTD	EUR	Remarks
AFGHANISTAN	KABUL	OAKB	WVAI31	OAKB	OAKX														
AUSTRALIA	MELBOURNE	YMMC	WVAU01	YMMC	YMMM	FF	WVAU01	YMMC	150207	YMMC	YMMM	Darwin	2:12	2:07	2:08	2:07	2:12	2:09	
					YBBB	FF	WVAU01	YMMC	150208	YMMC	YBBB	Darwin	2:17	2:06	2:18	2:08	2:17	2:10	
BANGLADESH	DHAKA	VGHS	WVBW20	VGHS	VGFR														
CAMBODIA	PHNOM PENH	ZUUU	WVKP31	VDPP	VDPP	KK	WVKP31	VDPP	150235	VDPP	VDPP	-	2:36	2:35		2:40	2:35		Incorrect priority (KK)
CHINA	BEIJING	ZBAA	WVCI33	ZBAA	ZBPE	FF	WVCI33	ZBAA	150225	ZBAA	ZBPE	Tokyo	2:24	2:24	2:25	2:25	2:24	2:25	
	CHENGDU	ZUUU	WVCI36	ZUUU	ZPKM	FF	WVCI36	ZUUU	150202	ZUUU	ZPKM	Tokyo	2:03	2:03	2:04	2:02	2:03	2:04	
	GUANGZHOU	ZGGG	WVCI35	ZGGG	ZGZU	FF	WSCI35	ZGGG	150206	ZGGG	ZGZU	Tokyo			2:10		2:09		Incorrect header (WS)
	HAIKOU	ZJHK	WVCI35	ZJHK	ZJSA	FF	WVCI35	ZJHK	150206	ZJHK	ZJSA	Tokyo/Anchorage	2:11	2:11	2:08	2:27	2:07	2:12	
	HONG KONG	VHHH	WVSS20	VHHH	VHHK	FF	WVSS20	VHHH	150202	VHHH	VHHK	Tokyo	2:03	2:03	2:04	2:02	2:03	2:03	
	SHANGHAI	ZSSS	WVCI34	ZSSS	ZSHA	FF	WVCI34	ZSSS	150201	ZSSS	ZSHA	Tokyo	2:03	2:01	2:03	2:05	2:02	2:02	
	SHENYANG	ZYTX	WVCI38	ZYTX	ZYSH	FF	WVCI38	ZYTX	150205	ZYTX	ZYSH	Tokyo	2:07	2:06	2:08	2:05	2:06	2:07	
	TAIBEI	RCTP	WVCI31	RCTP	RCAA	FF	WVCI31	RCTP	150211	RCTP	RCAA	Tokyo	2:09	2:10	2:11	2:11	2:09	2:10	
	URUMQI	ZWWW	WVCI39	ZWLQ	ZWLQ	FF	WVCI39	ZWWW	150205	ZWWW	ZWLQ	Tokyo	2:07	2:05	2:06	11:00	2:05	2:06	
	WUHAN	ZHHH	WVCI45	ZHHH	ZHWH	FF	WVCI45	ZHHH	150203	ZHHH	ZHWH	Tokyo	2:06	2:04	2:05	2:03		2:05	
	XI'AN	ZLXY	WVCI37	ZLXY	ZLHW	FF	WVCI37	ZLXY	150205	ZLXY	ZLHW	Tokyo	2:06	2:07	2:09	2:05	2:07	2:08	
DPR KOREA	SUNAN	ZKPY	WVKI31	ZKPY	ZKKP	FF	WVKI31	ZKPY	150202	ZKPY	ZKKP	Tokyo	2:03	2:01	2:03	2:04	2:02	2:02	
FIJI	NADI	NFFN	WVFJ01 02...	NFFN	NFFF	FF	WVFJ01	NFFN	020205	NFFN	NFFF	Wellington	2:05	2:04	2:05	2:30	2:04	2:05	Incorrect time
FRENCH POLYNESIA	TAHITI	NTAA	WVPF21, 22	NTAA	NTTT	FF	WVPF20	NTAA	150205	NTTT	NTTT	Wellington	2:13	2:06	2:09	2:07	2:13	2:16	Incorrect header (ii = 20), Incorrect MWO
INDIA	CHENNAI	VOMM	WVIN31	VOMM	VOMF	FF	WVIN31	VOMM	150202	VOMM	VOMF	Darwin	2:08	2:07	2:08	2:07	2:07	2:08	
	KOLKATA	VECC	WVIN31	VECC	VECF	FF	WVIN31	VECC	150215	VECC	VECF	Toulouse	2:16	2:15	2:17	2:15	2:16	2:16	
	MUMBAI	VABB	WVIN31	VABB	VABF	FF	WVIN31	VABB	150200	VABB	VABF	-	2:04	2:03	2:04	2:02	2:03	2:04	
	NEW DELHI	VIDP	WVIN31	VIDP	VIDF	FF	WVIN31	VIDP	150200	VIDP	VIDF	Toulouse	2:01	2:01	2:03		2:01	2:02	
INDONESIA	JAKARTA	WIII	WVID20	WIII	WIIZ	FF	WVID20	WIII	150202	WIII	WIIZ	Darwin	2:03	2:03	2:04	2:02	2:03	2:04	
	MAKASSAR	WAAA	WVID21	WAAA	WAAZ	FF	WVID21	WAAA	150202	WAAA	WAAZ	Darwin	2:04	2:03	2:05	2:05	2:03	2:04	
JAPAN	TOKYO	RJTD	WVJP31	RJTD	RJJJ	FF	WVJP31	RJTD	150205	RJTD	RJJJ	Tokyo	2:06	2:06	2:06	2:05	2:06	2:06	
LAO PDR	VIENTIANE	VLVT	WVLA31	VLVT	VLVT	FF	WVLA31	VLVT	150205	VLVT	VLVT	Tokyo	2:00	2:00	2:01	2:05	2:00	2:00	
MALAYSIA	KUALA LUMPUR	WMKK	WVMS31	WMKK	WMFC	FF	WVMS31	WMKK	150201	WMKK	WMFC	Darwin	2:02	2:02	2:03	12:00	2:02	2:03	
					WBFC	FF	WVMS31	WMKK	150205	WBKK	WBFC	Darwin	2:06	2:05	2:06	2:06	2:06	2:06	
MALDIVES	MALE	VRMM	WVMV31	VRMM	VRMF														
MONGOLIA	ULAANBAATAR	ZMUB	WVMG31	ZMUB	ZMUB														
MYANMAR	YANGON	VYYY	WVBM31	VYYY	VYYF														
NAURU	NAURU	ANYN	WVNW20	ANYN	ANAU														
NEPAL	KATHMANDU	VNKT	WVNP31	VNKT	VNSM	FF	WVNP31	VNKT	150205	VNKT	VNSM	Toulouse	2:07	2:07	2:07		2:05	2:07	
NEW ZEALAND	WELLINGTON	NZKL	WVNZ21	NZKL	NZZC	FF	WVNZ21	NZKL	150157	NZKL	NZZC	Wellington	2:06	2:06	2:06	2:05	2:05	2:06	Incorrect time
		NZKL	WVPS21	NZKL	NZZO	FF	WVPS21	NZKL	150155	NZKL	NZZO	Wellington	2:06	2:04	2:18	2:04	2:06	2:05	Incorrect time
PAKISTAN	KARACHI	OPKC	WVPK31	OPKC	OPKR	FF	WVPK31	OPKC	150200	OPKC	OPKR	Toulouse	2:20	2:20	2:22	2:05	2:20	2:21	
	LAHORE	OPLA	WVPK31	OPLA	OPLR	FF	WVPK31	OPLA	150205	OPLA	OPLR	Toulouse	2:09	2:06	2:10	2:05		2:09	
PAPUA NEW GUINEA	PORT MORESBY	AYPY	WVNG20	AYPY	AYPY														
PHILIPPINES	MANILA	RPLL	WVPH31	RPLL	RPHI														
REPUBLIC OF KOREA	INCHEON	RKSI	WVKO31	RKSI	RKRR	FF	WVKO31	RKSI	150205	RKSI	RKRR	Tokyo	2:05	2:04	2:05	2:05	2:04	2:05	
SINGAPORE	SHUNGAPORE	WSSS	WVSS20	WSSS	WSJC	FF	WVSS20	WSSS	150206	WSSS	WSJC	Darwin	2:06	2:06	2:06	2:05	2:05	2:05	
SOLOMON ISLANDS	HONIARA	AGGH	WVSO20	AGGH	AGGG	FF	WSSO20	AGGH	150209	AGGH	AGGG	Wellington/Darwin	3:03	3:03	2:20	3:03	2:21		Incorrect header (WS), resent at 0304 with WV
SRI LANKA	COLOMBO	VCBI	WVSB31	VCBI	VCCF	FF	WSSB31	VCBI	150200	VCBI	VCCF	Darwin			2:13		2:12		Incorrect header (WS)
THAILAND	BANGKOK	VTBS	WVTH31	VTBS	VTBH	FF	WVTH31	VTBS	150203	VTBS	VTBH	Tokyo/Darwin	2:04	2:03	2:05	2:06	2:03	2:04	
VIET NAM	GIA LAM	VVGL	WVVS31	VVGL	VVHM	FF	WVVS31	VVGL	150206	VVGL	VVLM	Tokyo/Darwin	2:10	2:10	2:11	2:18	2:10	2:11	
					VVHN	FF	WVVS31	VVGL	150205	VVGL	VVHK	Tokyo/Darwin	2:07	2:06	2:08	2:06	2:06	2:07	
UNITED STATES	HONOLULU	PHFO	WVPA01-13	PHFO	KZAK	GG	WVPA01	PHFO	150205	PHFO	KZAK	Washington		2:06	2:07		2:06	2:35	Incorrect priority (GG)
	ANCHORAGE	PAWU	WVAK01 09	PAWU	PAZA	DD	WVAK05	PAWU	150200	PANC	PAZA	-	2:02	2:02	2:03		2:02	2:04	Incorrect priority (DD)
	KANSAS CITY	KKCI	WVPN01-13	KKCI	KZAK	DD	WVPN01 02	KKCI	150205	KKCI	KZAK	Washington		2:06	2:10	2:08	2:06	2:09	Incorrect priority (DD)
RUSSIAN FEDERATION	TBKUTSK	UITT	WVRA31	RUIR	UITT	FF	WVRA31	RUIR	150201	UITT	UITT	Tokyo	2:06	2:04	2:06	2:04	2:04	2:05	
	KHABAROVSK/NOVY	UHHH	WVRA31	RUHB	UHHH	FF	WVRA31	RUHB	150200	UHHH	UHHH	Tokyo	2:07	2:05	2:07	2:05	2:06	2:06	
	KRASNOYARSK	UNKL	WVRA31	RUKR	UNKL	FF	WVRA31	RUKR	150202	UNKL	UNKL	Tokyo	2:02	2:02	2:04	2:02	2:02	2:03	
	MAGADAN/SOKOL	UHMM	WVRA31	RUMG	UHMM	FF	WVRA31	RUMG	150205	UHMM	UHMM	Tokyo	2:07	2:06	2:08	2:06	2:07	2:07	
	YAKUTSK	UEEE	WVRA31	RUYK	UEEE	FF	WVRA31	RUYK	150205	UEEE	UEEE	Tokyo		2:06			2:06	2:07	
		UIHP	WVRA31	RUPK	UIHP	FF	WVRA31	RUPK	150202	UIHP	UIHP	Tokyo		2:02			2:02	2:02	
Not listed in SIGMET GUIDE																			
SAUDI ARABIA	JEDDAH	-	-	-	-	GG	WVSD20	OEJD	150200	OEJD	OEJD	-	2:00	2:01			2:01	2:03	Incorrect priority (GG)

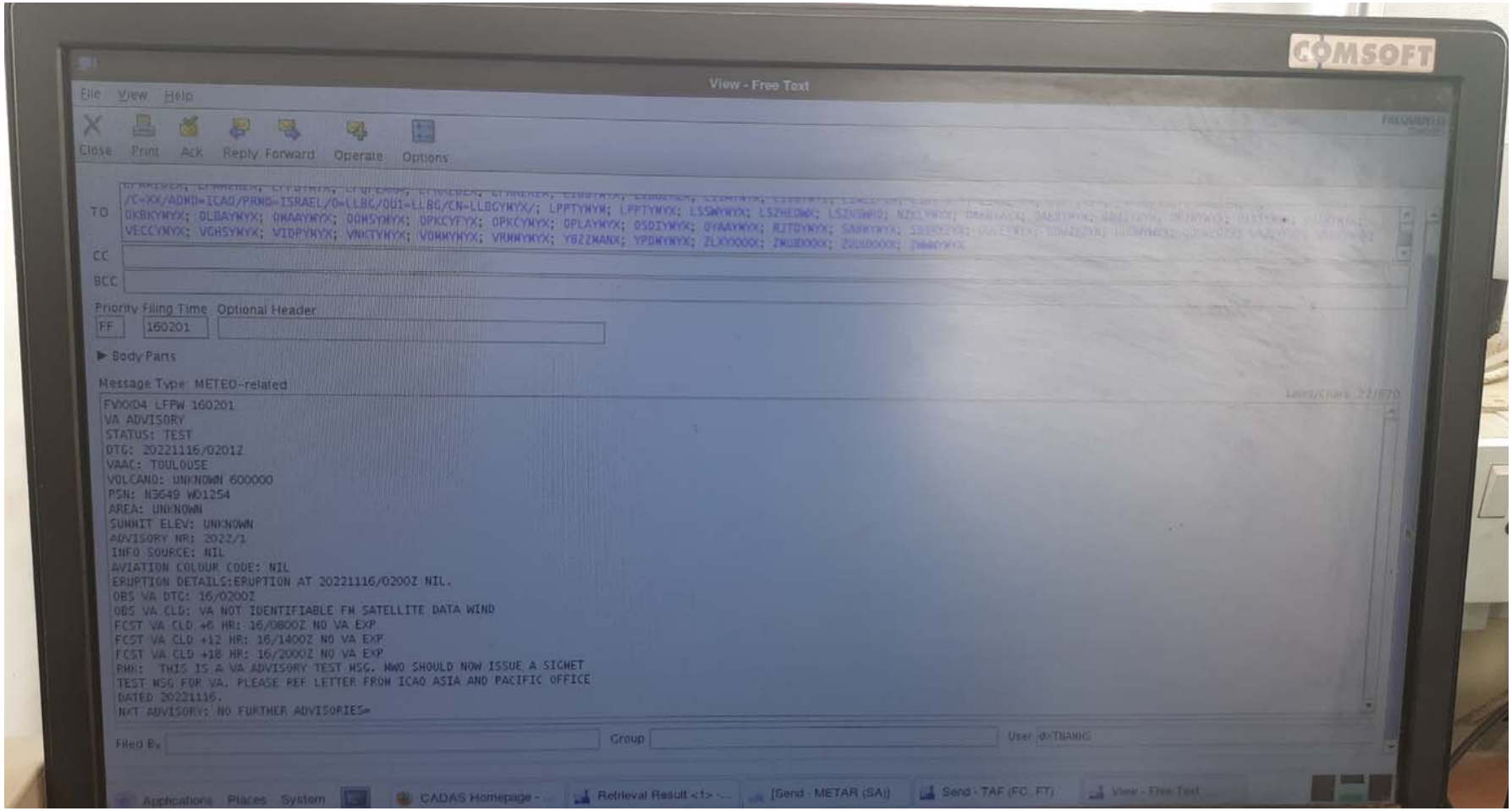
Appendix 5: Table of WC SIGMET test

MWO details in APEC Regional SIGMET TEST Procedures 2021 / SIGMET Guide						Test Result													
State	MWO name	MWO	TTAAii	CCCC	FIR	PI	TTAAii	CCCC	YYGGgg	MWO	FIR	TCAC	Received Time(UTC)						Remarks
													VTBB	WSSS	YBBB	NFFN	RJTD	EUR	
AUSTRALIA	MELBOURNE	YMMC	WCAU01	YMMC	YBBB	FF	WCAU01	YMMC	080213	YMMC	YBBB	Nadi/La Reunion	2:14	2:14	2:15	2:13	2:15	2:14	
					YMMM	FF	WCAU01	YMMC	080226	YMMC	YMMM	-	2:26	2:26	2:28	2:26	2:28	2:27	
BANGLADESH	DHAKA	VGHS	WCBW20	VGHS	VGFR	FF	WCBW20	VGHS	080230	VGHS	VGFR	-	2:42	2:42	2:44		2:42	3:16	
CAMBODIA	PHNOM PENH	VDPP	WCKP31	VDPP	VDPF	FF	WCKP31	VDPP	080205	VDPP	VDPF	-	2:06	2:05		2:05	2:06	2:07	
CHINA	BEIJING	ZBAA	WCCI33	ZBAA	ZBPE	FF	WCCI33	ZBAA	080205	ZBAA	ZBPE	Tokyo	2:05	2:05	2:06	2:05	2:05	2:06	
	CHENGDU	ZUUU	WCCI36	ZUUU	ZPKM	FF	WCCI36	ZUUU	080203	ZUUU	ZPKM	Tokyo	2:03	2:04	2:05	2:03	2:04	2:05	
	GUANGZHOU	ZGGG	WCCI35	ZGGG	ZGZU	FF	WCCI35	ZGGG	080205	ZGGG	ZGZU	Tokyo	2:03	2:03	2:05	2:05	2:04	2:04	
	HAIKOU	ZJHK	WCCI35	ZJHK	ZJSA	FF	WCCI35	ZJHK	080214	ZJHK	ZJSA	Tokyo	2:14	2:14	2:16	2:14	2:15	2:16	
	HONG KONG	VHHH	WCSS20	VHHH	VHHK	FF	WCSS20	VHHH	080202	VHHH	VHHK	Tokyo	2:02	2:02	2:04		2:02	2:03	
	SHANGHAI	ZSSS	WCCI34	ZSSS	ZSHA	FF	WCCI34	ZSSS	080210	ZSSS	ZSHA	Tokyo	2:13	2:12	2:10	2:11	2:12	2:12	
	TAIBEI	RCTP	WCCI31	RCTP	RCAA	FF	WCCI31	RCTP	080212	RCTP	RCAA	Tokyo	2:18	2:19	2:13	2:12			
DPR KOREA	SUNAN	ZKPY	WCKR31	ZKPY	ZKKP	FF	WCKR31	ZKPY	080205	ZKPY	ZKKP	Tokyo	2:05	2:05	2:07	2:05	2:05	2:07	
FIJI	NADI	NFFN	WCFJ01,02,...	NFFN	NFFF	FF	WCFJ01	NFFN	080205	NFFN	NFFF	Nadi	2:05	2:05	2:06	2:05	2:05	2:06	
FRENCH POLYNESIA	TAHITI	NTAA	WCPF21	NTAA	NTTT	FF	WCPF20	NTAA	080235	NTAA	NTTT	-	2:35	2:43	2:36	2:35	2:36	2:36	
INDIA	CHENNAI	VOMM	WCIN31	VOMM	VOMF	FF	WCIN31	VOMM	080205	VOMM	VOMF	New Delhi	2:09	2:08	2:10	2:09	2:09	2:09	
	MUMBAI	VABB	WCIN31	VABB	VABF	FF	WCIN31	VABB	080201	VABB	VABF	New Delhi	2:04	2:04	2:05	2:05	2:04	2:05	
	NEW DELHI	VIDP	WCIN31	VIDP	VIDF	FF	WCIN31	VIDP	080200	VIDP	VIDF	New Delhi	2:02	2:02	2:04	2:01	2:02	2:03	
	KOLKATA	VECC	WCIN31	VECC	VECF	FF	WCIN31	VECC	080205	VECC	VECF	New Delhi	2:06	2:06	2:07	2:05	2:06	2:07	
INDONESIA	JAKARTA	WIII	WCID20	WIII	WIIZ	FF	WCID20	WIII	080213	WIII	WIIZ	-	2:31	2:02	2:03	2:01	2:02	2:03	
	MAKASSAR	WAAA	WCID21	WAAA	WAAZ	FF	WCID21	WAAA	080202	WAAA	WAAZ	Tokyo	2:03	2:04	2:05	2:03	2:03	2:05	
JAPAN	TOKYO	RJTD	WCJP31	RJTD	RJJJ	FF	WCJP31	RJTD	080205	RJTD	RJJJ	Tokyo	2:05	2:05	2:06	2:06	2:05	2:06	
LAO PDR	VIENTIANE	VLVT	WCLA31	VLVT	VLVT	FF	WCLA31	VLVT	080205	VLVT	VLVT	Tokyo	2:01	2:01	2:02	2:19	2:01	2:02	
MALAYSIA	KUALA LUMPUR	WMKK	WCMS31	WMKK	WMFC	FF	WCMS31	WMKK	080213	WMKK	WMFC	Tokyo/New Delhi	2:14	2:14	2:15	2:14	2:15	2:15	
	KOTA KINABALU				WBFC	FF	WCMS31	WMKK	080205	WBKK	WBFC	Tokyo	2:05	2:05	2:06		2:05	2:06	
MALDIVES	MALE	VRMM	WCMV31	VRMM	VRMF														
MYANMAR	YANGON	VYYY	WCBM31	VYYY	VYYF														
NAURU	NAURU	ANYN	WCNW20	ANYN	ANAU														
NEW ZEALAND	WELLINGTON	NZKL	WCNZ21	NZKL	NZZC	FF	WCNZ21	NZKL	080151	NZKL	NZZC	Nadi	2:14	2:14	2:16		2:15	2:16	Incorrect time
		NZKL	WCPS21	NZKL	NZZO	FF	WCPS21	NZKL	080151	NZKL	NZZO	Nadi	2:14	2:14	2:15	2:27	2:15	2:15	Incorrect time
PAKISTAN	KARACHI	OPKC	WCPK31	OPKC	OPKR	FF	WCPK31	OPKC	080200	OPKC	OPKR	New Delhi	2:18	2:18	2:19	2:10	2:18	2:20	
PAPUA NEW GUINEA	PORT MORESBY	AYPY	WCNG20	AYPY	AYPY														
PHILIPPINES	MANILA	RPLL	WCPH31	RPLL	RPHI														
REPUBLIC OF KOREA	INCHEON	RKSI	WCKO31	RKSI	RKRR	FF	WCKO31	RKSI	080200	RKSI	RKRR	Tokyo	2:06	2:06	2:07	2:05	2:05	2:06	
SINGAPORE	SHINGAPORE	WSSS	WCSR20	WSSS	WSJC	FF	WCSR20	WSSS	080203	WSSS	WSJC	Tokyo	2:03	2:03	2:05	2:05	2:03	2:04	
SOLOMON ISLANDS	HONIARA	AGGH	WCSO20	AGGH	AGGG	FF	WCSO20	AGGH	080220	AGGH	AGGG	Nadi	2:30	2:30	2:31	2:23		2:32	
SRI LANKA	COLOMBO	VCBI	WCSB31	VCBI	VCCF	FF	WCSB31	VCBI	080225	VCBI	VCCF	New Delhi	2:39	2:40	2:41	2:39	2:40	2:40	
THAILAND	BANGKOK	VTBS	WCTH31	VTBS	VTBB	FF	WCTH31	VTBS	080205	VTBS	VTBB	Tokyo	2:06	2:06	2:07	2:05	2:06	2:07	
VIET NAM	GIA LAM	VVGL	WCVS31	VVGL	VVHM	FF	WCVS31	VVGL	080205	VVGL	VVHM	Tokyo	2:05	2:05	2:07	2:06	2:05	2:06	
					VVHN	FF	WCVS31	VVGL	080203	VVGL	VVHN	Tokyo	2:04	2:04	2:05	2:03	2:04	2:05	
UNITED STATES	HONOLULU	PHFO	WCPA01-13	PHFO	KZAK	FF	WCPA11	PHFO	080200	PHFO	KZAK	PHFO	2:00	2:17	2:02	2:00	2:00	2:02	
	ANCHORAGE	PAWU	WCAK01-09	PAWU	PAZA														
	KANSAS CITY	KKCI	WCNT01-13	KKCI	KZNY, KZMA, KZHU, TJSJ														
		KKCI	WCPN01-13	KKCI	KZAK	FF	WCPN04,06,08	KKCI	080206	KKCI	KZAK	Honolulu/Tokyo	2:06	2:07	2:07	2:05	2:06	2:07	
BAHRAIN	BAHRAIN	OBBI	WCBN31	OBBI	OBBB														
IRAN	TEHRAN	OIII	WCIR31	OIII	OIIX														
KUWAIT	KUWAIT	OKBK	WCKW10	OKBK	OKAC														
OMAN	MUSCAT	OOMS	WCOM31	OOMS	OOMM	FF	WCOM31	OOMS	080804	OOMS	OOMM	-	8:05	8:05	8:06		8:05	8:05	
SAUDI ARABIA	JEDDAH	OEJN	WCSD20	OEJD	OEJD	GG	WCSD20	OEJD	080800	OEJD	OEJD	New Delhi	8:00	8:01	8:01		8:00	8:00	Incorrect priority (GG)
UNITED ARAB EMIRATE	ABU DHABI	OMAA	WCAE20	OMAA	OMAE														
YEMEN	SANNA	OYSN	WCYE31	OYSN	OYSC														
Not listed in SIGMET GUIDE																			
NEPAL	KATHMANDU					FF	WCNP31	VNKT	080210	VNKT	VNSM	-	2:13	2:13	2:10			2:14	
MADAGASCAR	ANTANANARIVO	-	-	-	-	FF	WCMG20	FMMI	080503	FMMI	FMMM	-	5:05					5:04	

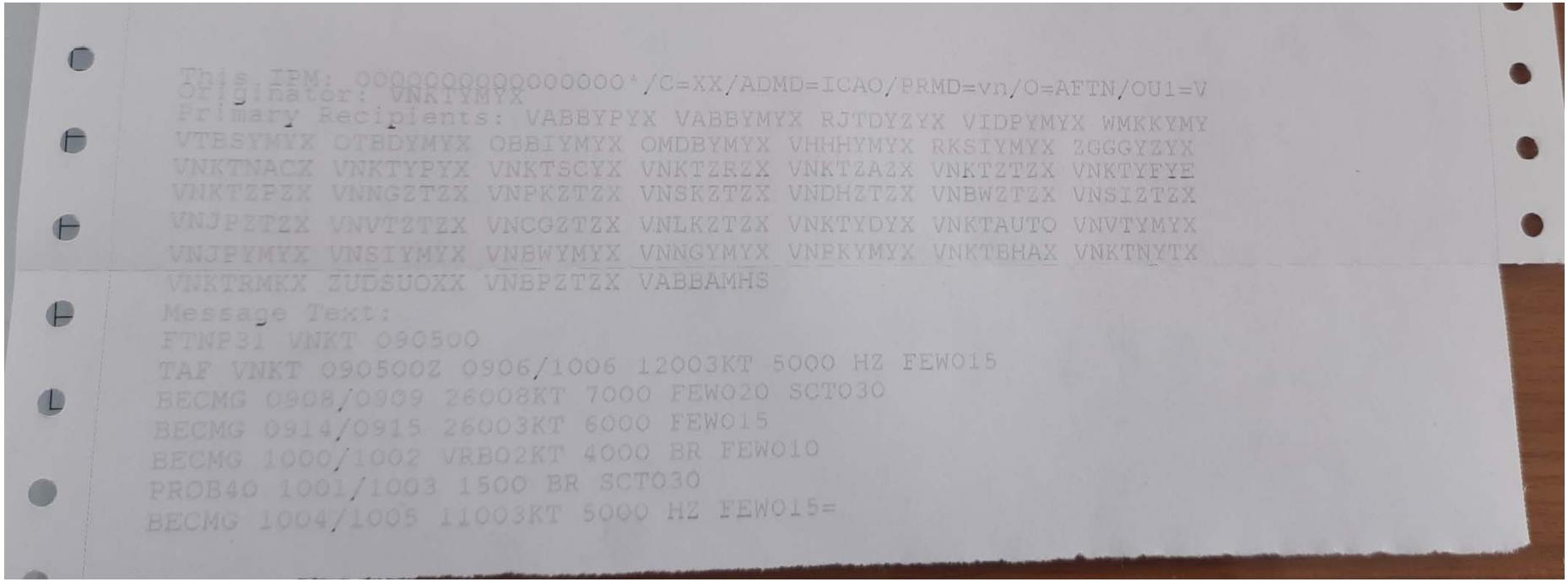
5. Sample of SIGMET dissemination platform (AMHS)



6. Sample of VA Advisory received from the AMHS system

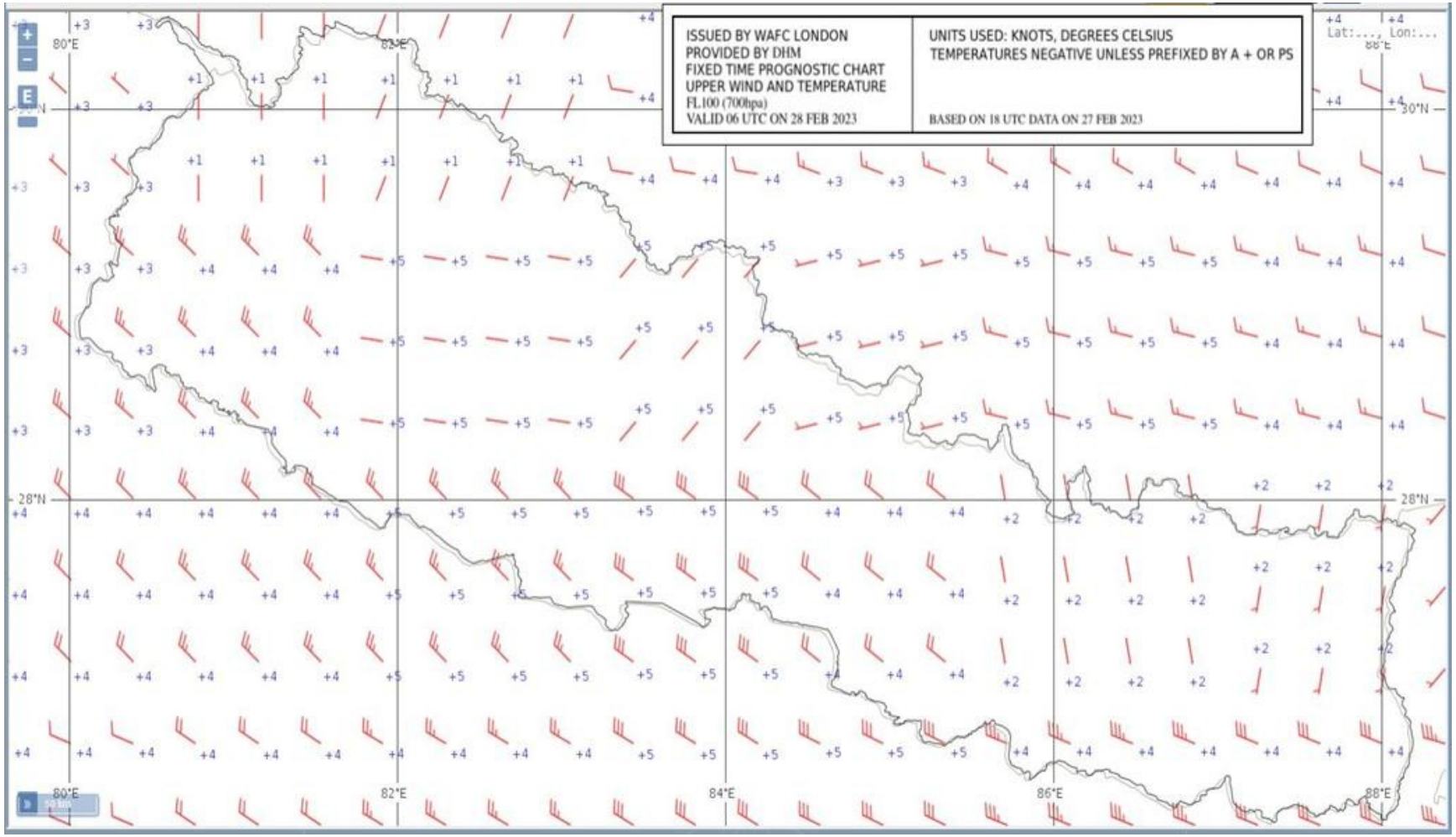


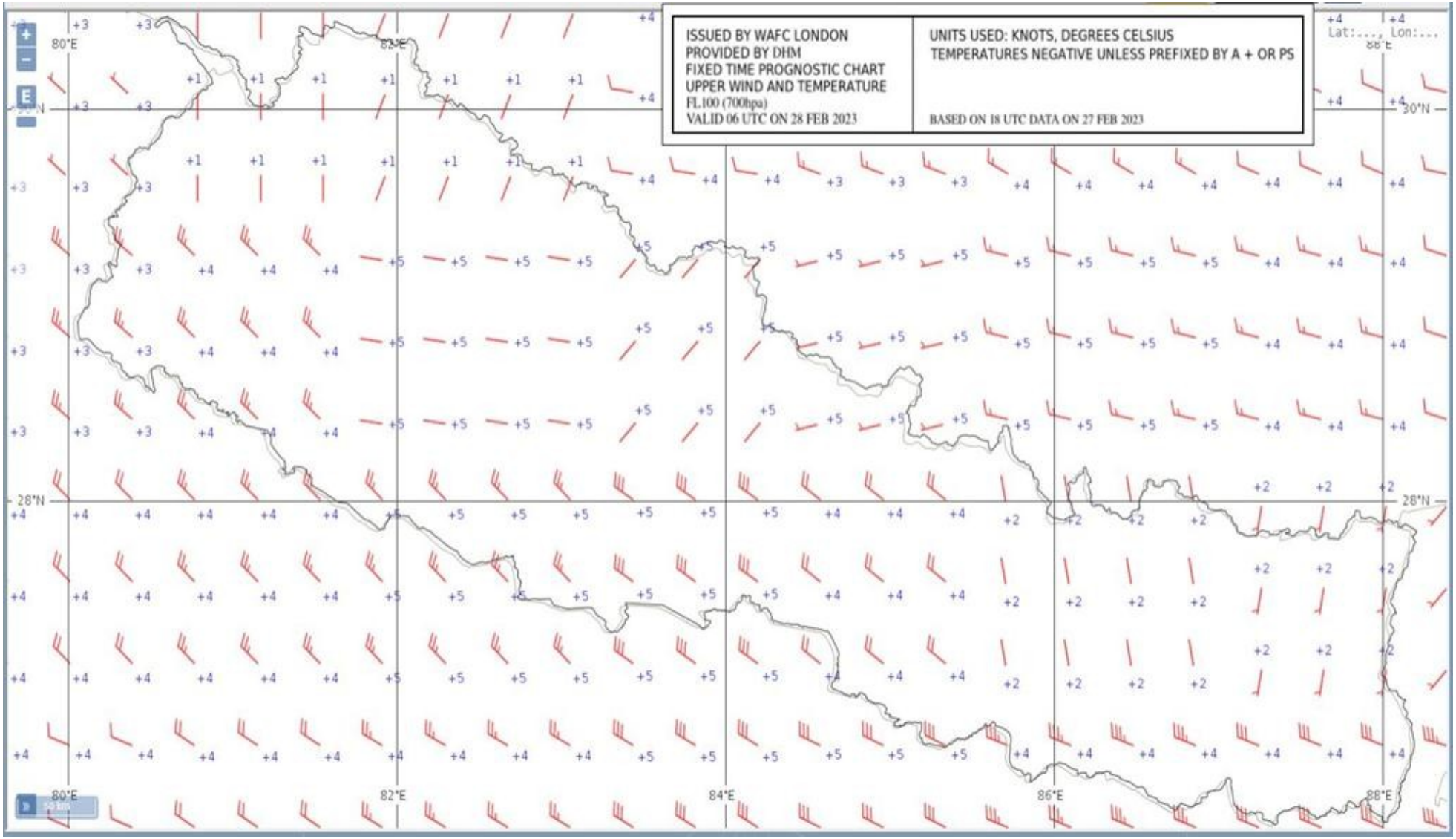
7. Sample of TAF message sent by Nepal



```
This IPM: 000000000000000*/C=XX/ADMD=ICAO/PRMD=vn/O=AFTN/OU1=V
Originator: VNKTYMYX
Primary Recipients: VABBYPYX VABBYMYX RJTDYZYX VIDPYMYX WMKKYMY
VTBSYMYX OTBDYMYX OBBIYMYX OMDBYMYX VHHHYMYX RKSIYMYX ZGGGYZYX
VNKTNACX VNKTYPYX VNKTSCYX VNKTZRZX VNKTZAZX VNKTZTZX VNKTYFYE
VNKTZPZX VNNGZTZX VNPKZTZX VNSKZTZX VNDHZTZX VNBWZTZX VNSIZTZX
VNJPZTZX VNVTZTZX VNCGZTZX VNLKZTZX VNKTYDYX VNKTAUTO VNVTYMYX
VNJPYMYX VNSIYMYX VNBWYMYX VNNGYMYX VNPKYMYX VNKTBHAX VNKTNYTX
VNKTRMKX ZUDSUOXX VNBPZTZX VABBAMHS
Message Text:
FTNP31 VNKT 090500
TAF VNKT 090500Z 0906/1006 12003KT 5000 HZ FEW015
BECMG 0908/0909 26008KT 7000 FEW020 SCT030
BECMG 0914/0915 26003KT 6000 FEW015
BECMG 1000/1002 VRB02KT 4000 BR FEW010
PROB40 1001/1003 1500 BR SCT030
BECMG 1004/1005 11003KT 5000 HZ FEW015=
```

8. Sample of wind and temperature chart provided for air navigation purpose




ISSUED BY WAFC LONDON
PROVIDED BY DHM
FIXED TIME PROGNOSTIC CHART
UPPER WIND AND TEMPERATURE
FL100 (700hpa)
VALID 06 UTC ON 28 FEB 2023
UNITS USED: KNOTS, DEGREES CELSIUS
TEMPERATURES NEGATIVE UNLESS PREFIXED BY A + OR PS
BASED ON 18 UTC DATA ON 27 FEB 2023
80°E
82°E
84°E
86°E
88°E
30°N
28°N