



International Civil Aviation Organization

**MID OPMET Bulletin Management Group
Fourth Meeting (MID OPMET BMG/4)**

(Jeddah, Saudi Arabia 16 December 2013)

Agenda Items from 2 to 7

OPMET ISSUES for BMG/4 Meeting

Presented by the Secretariat

SUMMARY

This paper presents OPMET issues for consideration by the BMG/4 that includes review of draft amendment proposal to the regional air navigation plan – MET, sketch of implementing Regional OPMET Centre(s) for the MID Region (subject to MIDANPIRG/14 approval), consideration of regional SIGMET Guide template with inclusion of MID specific phenomenon (Sand Storm and Dust Storm), requesting information on WMO AHL for special air-reports and special air-reports on volcanic ash, review of OPMET Key Performance Indicators, review results of SIGMET tests in September, and review ToRs and future work programme.

REFERENCES

- MID MET SG/4 Meeting and MID BMG/3 Meeting
([HTTP://WWW.ICAO.INT/MID/PAGES/MEETINGS.ASPX](http://www.icao.int/mid/pages/meetings.aspx))

1. INTRODUCTION

1.1 The meeting is invited to review the various issues related to OPMET exchange as described in Agenda Items 2-7 as provided at Appendix A to WP/1.

2. DISCUSSION

Volcanic ash contingency plan

2.1 The meeting may recall MIDANPIRG Decision 12/72 – Volcanic Ash Contingency Plan for the MID Region, the group provided **draft SIGMET and NOTAM for volcanic ash** with MID Region attributes (ICAO location indicator, FIR names, latitude and longitude points, etc...) as well as a brief description on the format and dissemination of special air-reports on volcanic ash as provided at **Appendix A**. This review will assist the MIDANPIRG/14 meeting in their considering the possible inclusion of this information to the ATM Volcanic Ash Contingency Plan (based on template provided by the International Volcanic Ash Task Force) as a chapter in a general contingency plan that could be adopted by the MIDANPIRG/14.

2.2 The meeting may wish to note that in response to MIDANPIRG Conclusion 13/54 – develop recommendations of MID Regional OPMET Centres for inter-regional exchange of OPMET Data, the fourth meeting of the Meteorology Sub-group of the MIDANPIRG (MET SG/4, Cairo, 25-27 June 2013) recommended Saudi Arabia establish a Regional OPMET Centre by the first half of 2015 subject to MIDANPIRG/14 approval (MET SG draft Conclusion 4/2 refers). Also, **MID States interested in serving as a backup ROC in the MID Region could provide their capabilities to the BMG/4 meeting for consideration.**

2.3 As a follow-up to 1) MIDANPIRG Conclusion 13/55 – OPMET Data Errors and Deficiencies and to 2) MET SG draft Conclusion 4/1 – OPMET shortcomings in the MID Region, a State letter (AN 10/11 – 13/184) was sent 9 July 2013 urging States to remedy OPMET shortcomings as described in Appendix 4.3A to the MET SG/4 report. **Persistent shortcomings would be considered by MIDANPIRG/14 for possible inclusion in the list of air navigation deficiencies.** This information will be provided in a separate paper provided by ROC Vienna.

Regional Air Navigation Plan - MET

2.4 The meeting is invited to review the proposed changes to the MET part of the ICAO MID Air Navigation Plan Volume I, Basic ANP and Volume II, FASID (Doc 9708) as provided at **Appendix B. The meeting is invited to provide any additional inputs necessary for the amendment proposal expected to be processed in the first half of 2014. A status on the usefulness of FASID Table MET 2C, Exchange of Operational Meteorological Information during the Pilgrimage Season, was expected.** The electronic Air Navigation Plan being developed attempts to harmonize the regional plans as much as possible, which is why this question has been posed.

Implementation plan on the establishment of a regional OPMET Centre (ROC)

2.5 Expanding on paragraph 2.2 above, **a sketch implementation plan on the establishment of ROC(s) in the MID Region was developed.** The plan would begin with coordination with other ROCs in the EUR Region at the eleventh meeting of the EUR Data Management Group (EUR DMG/11) to take place in Brussels from 17-21 March 2014. At the DMG/11 meeting, the State(s) hosting the future ROC(s) in the MID Region would seek advice on how to meet ROC requirements as well as what document (e.g. OPMET handbook, table on routing) should be created to support the establishment and running of a ROC.

2.6 The group may also wish to note that the Fifth Edition, 2013, of the *ICAO Manual on Air Navigation Services Economics* (Doc 9161) contains guidance on the provision and cost recovery of MET services at a regional or sub-regional level (paragraph 3.41. of Doc 9161). Discussions on the continued development of the Concept of Operations on the ICAO meteorological data exchange model (IWXXM) would also be beneficial for the selected ROC(s). Progress and consultation could be provided at the EUR DMG/12 (Bucharest, 10-13 June 2013) and DMG/13 (Vienna, 21-24 October 2013) meetings. Furthermore, the ICAO MET Divisional Meeting (July 2014, Montréal) will address cost recovery for MET services on a sub-regional or regional level.

MID Regional SIGMET Guide

2.7 The fifth meeting of the Meteorological Warnings Study Group (METWSG/5, 20 to 21 June 2013, Montréal) formulated Action Agreed 5/4 concerning the completion of the development of a regional SIGMET guide template, including its alignment with Amendment 76 to Annex 3 – *Meteorological Service for International Air Navigation* (applicable 14 November 2013), in view of enabling its early availability at the ICAO Regional Offices to assist in the issuance or updating of regional SIGMET guides in the ICAO Regions. **Accordingly, the regional SIGMET guide template is provided at Appendix C for review and comment.**

2.8 The Secretariat notes that the table of WMO AHL for the MID Region would be useful to add to the template. Furthermore, examples of SIGMET on Dust Storm, Sand Storm and other phenomenon provided by Kuwait as provided at **Appendix D** should be considered for inclusion in the template before being possibly endorsed by the group for being the new guidance on SIGMET in the MID Region (subject to MIDANPIRG/14 endorsement).

2.9 **The meeting should also provide WMO AHL for special air-reports and special air-reports on volcanic ash in accordance with SADISOPSG Conclusion 17/13** (*routing of special air-reports received at the SADIS Gateway for dissemination on SADIS – That the SADIS Provider State be invited to: a) implement, at the SADIS Gateway, routing of special air-reports received at the SADIS Gateway such that those with WMO abbreviated header lines (AHL) compliant with the UA/(60-69)//// template be disseminated on SADIS; and b) prepare a report on progress in this regard in time for the SADISOPSG/18 Meeting. Note 1. – The stated WMO AHL template is consistent with the guidance given in WMO Publication No. 386, Manual on the Global Telecommunications System. Originators of special air-reports should be complying with existing guidance on WMO AHL Allocation. Note 2. – The SADIS Gateway reserves the right to block, without notice, any WMO AHL that meets the above template but the contents of which are clearly not a special air-report. Such blocking may be implemented at the discretion of the SADIS Gateway if such bulletins are routinely non-compliant or if distribution of such may adversely affect the distribution of other data over SADIS.*). An example of the WMO AHL for special air-report in Austria is **UAOS61 LOWW** and for special air-report on volcanic ash **UAOS71 LOWW**.

OPMET Key Performance Indicators

2.10 Recalling MET SG draft Conclusion 4/5 – *MID Region Key Performance Indicators – MET* that allowed States to provide input to the proposed Key Performance Indicators (KPIs) related to MET at **Appendix E** by 15 August 2013 for consideration by MIDANPIRG/14. A draft set of KPIs that measure implementation of regional requirements was developed at the MET SG/4 to support the new ICAO implementation methodology called Aviation System Block Upgrades (ASBU). One reply was received by Egypt. **The BMG is invited to provide more detailed inputs such as percent of implementation expected in the Region.**

SIGMET tests

2.11 The meeting may wish to refer to **Appendix F** which is a working paper discussed at the EUR DMG/10 meeting regarding SIGMET tests results. As noted, four (Bahrain, Egypt, Jordan and Saudi Arabia) WS SIGMET test bulletins (Bahrain, Egypt, Jordan and Saudi Arabia) were received from the MID Region as well as three (Bahrain, Egypt, Jordan – however WS used instead of WV) WV SIGMET test bulletins, only one of which was received at ROC Vienna. **The meeting is encouraged to continue participating in the SIGMET tests, noting the next test was scheduled for 5 February 2014 for WS SIGMET and 6 February 2014 for WV SIGMET.**

Radioactive Cloud

2.12 The meeting may recall the global database of ACC AFTN 8-letter addresses for the notification concerning the release of radioactive material into the atmosphere by VAAC London (<http://www.icao.int/safety/meteorology/iavwopsg/Quick%20Launch%20Menu%20Documents/Nuclear%20letter%20code%20database%20V6%208.12.pdf>) was not fully complete. With reference to the MID Region, **ACC AFTN 8-letter addresses are still missing for Iraq (ORBB and ORMM), Iran (OIIX), Lebanon (OLBB), Syria (OSTT), and Yemen (OYSC) and these States invited to provide this information that would be forwarded to the IAVWOPSG Secretariat.**

Future Work Programme

2.13 **The meeting may review the proposed changes to the Terms of Reference (ToR) of the Meteorology Sub-Group (MET SG) at Appendix G** to support the ASBU implementation methodology. A flimsy of the proposed changes of the ToRs of the MET SG would be expected to be part of the MIDANPIRG Handbook update that will be considered by the MIDANPIRG/14 meeting.

2.14 The meeting may consider the time and place of the next MID OPMET BMG meeting.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information in this paper;
- b) review and comment on draft SIGMET and NOTAM for possible inclusion to the ATM volcanic ash contingency plan (template is baseline);
- c) review OPMET deficiencies identified by ROC Vienna and define which ones should be considered in the MIDANPIRG Deficiencies List;
- d) review and comment on the draft MID Regional Air Navigation Plan – MET and determine if FASID Table MET 2C is still needed;
- e) review and comment on the SIGMET Guide template and consider inclusion of WMO AHL Table and examples on HVY SS, HVY DS and other weather phenomenon;
- f) provide WMO AHL for special air-reports and special air-reports on volcanic ash;
- g) review and comment on the Key Performance Indicators;
- h) provide inputs to the ACC AFTN 8-letter addresses concerning the release of radioactive material into the atmosphere by VAAC London (entries still missing – Iraq, Iran, Syria and Yemen);
- i) review and comment on the proposed ToRs of the MET SG;
- j) determine date and place of MID BMG/5 meeting; and
- k) develop a flimsy of results for the MIDANPIRG/14 meeting.

APPENDIX A

SIGMET, NOTAM, special air-reports related to volcanic ash**VA CLD in Kuwait FIR**

WSKW31 OKBK 030900
OKBK SIGMET 1 VALID 030900/031500 OKBK-
OKAC KUWAIT FIR VA CLD OBS AT 0840Z W OF E48 FL180/320 MOV E 45KT
NC FCST1500Z VA CLD APRX E OF E4730=

**Cancellation SIGMET as volcanic ash cloud exits Kuwait FIR into Tehran FIR
(sooner than expected)**

WSKW31 OKBK 031400
OKBK SIGMET 2 VALID 031400/031500 OKBK-
OKAC KUWAIT FIR CNL SIGMET 1 030900/031500 VA MOV TO OIIX FIR=

VA CLD in Cairo FIR

WSEG31 HECA 030900
HECA SIGMET 1 VALID 030900/031500 HECA-
HECC CAIRO FIR VA CLD OBS AT 0840Z N OF LINE N3140 E2510 - N29 E30 W
OF LINE N3150 E3359 – N29 E30 FL100/290 MOV SE 35KT NC FCST1500Z VA
CLD APRX N OF LINE N3140 E2510 – N2806 E3435=

**Cancellation SIGMET as volcanic ash cloud exits Cairo FIR into Jeddah FIR
(sooner than expected)**

WSEG31 HECA 031330
HECA SIGMET 2 VALID 031330/031500 HECA-
HECC CAIRO FIR CNL SIGMET 1 030900/031500 VA MOV TO OEJD FIR=

Example NOTAM based on SIGMET issued for Cairo FIR

Q) HECC/QWWXX/IV/NBO/W/100/290/999
A) HECC B) 1311030900 C) 1311031500
E) ATM AND ACFT TAKE NECESSARY ACTION
DUE TO VOLCANIC ASH AREA OF HIGH/MEDIUM CONTAMINATION

(FROM VOLCANO ETNA 211060, 37.734N 015.004E)AS FOLLOWS:
3400N 2410E – 3140N 2510E – 2900N 3000E – 3150N 3359E – 3330N 3000E –
3400N 2710E – 3400N 2410E
F)FL100 G)FL290

Special Air-Reports on Volcanic Ash

Special air-reports on volcanic ash sent to ACCs should then be sent via AFTN to the relevant Meteorological Watch Office (MWO) which is forwarded to the relevant Volcanic Ash Advisory Centre (VAAC) – for MID Region that is VAAC Toulouse.

SPECIAL AIREP → ACC → MWO → VAAC

The format for the pilots to use on special air-reports on volcanic ash can be found at Table A4-1 in Appendix 4 of ICAO Annex 3.

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MID ANP VOLUME I (BASIC ANP) PART VI (MET)

Part VI

METEOROLOGY (MET)

INTRODUCTION

1. This part of the Middle East (MID) Basic Air Navigation Plan contains elements of the existing planning system and introduces the basic planning principles, operational requirements and planning criteria related to aeronautical meteorology (MET) as developed for the MID Region.
2. As a complement to the Statement of Basic Operational Requirements and Planning Criteria (BORPC) set out in Part I, Part VI constitutes the stable guidance material considered to be the minimum necessary for effective planning of MET facilities and services in the MID Region. A detailed description/list of the facilities and/or services to be provided by States in order to fulfill the requirements of the Basic ANP is contained in the MID Facilities and Services Implementation Document (FASID).
3. The Standards, Recommended Practices and Procedures to be applied are contained in the following ICAO documents:
 - a) Annex 3 — Meteorological Service for International Air Navigation;
 - b) Regional Supplementary Procedures (Doc 7030), Part 3 - Meteorology.
4. Background information of importance in the understanding and effective application of the Plan is contained in the Reports of the Limited Middle East (COM/MET/RAC) Regional Air Navigation Meeting (Doc 9672, LIM MID (COM/MET/RAC)(1996)) and of the Third Middle East Regional Air Navigation Meeting (Doc 9434, MID/3 (1984)), supplemented by information appropriate to the MID Region which is contained in the Reports of the other Regional Air Navigation Meetings.
5. RAN Meeting recommendations or conclusions, Middle East Air Navigation Planning and Implementation Regional Group (MIDANPIRG) conclusions and ICAO operations groups conclusions shown in brackets below a heading indicate the origin of all paragraphs following that heading; where these conclusions are shown in brackets below a paragraph they indicate the origin of that particular paragraph.

**METEOROLOGICAL SERVICE AT AERODROMES AND REQUIREMENTS FOR
METEOROLOGICAL WATCH OFFICES**
(FASID Tables MET 1A and MET 1B)

6. The service to be provided at the international aerodromes listed in MID Basic ANP Table AOP1 is set out in FASID Table MET 1A.
[LIM MID (COM/MET/RAC), Rec.4/10]
7. The service to be provided for flight information regions (FIR), upper flight information regions (UIR), control areas (CTA) and search and rescue regions (SRR) is set out in FASID Table MET 1B.
[LIM MID (COM/MET/RAC), Rec. 4/10]
8. Routine observations should be made at all aeronautical stations at hourly intervals and

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reports issued as local routine reports and METAR, complemented by special observations issued as local special reports and SPECI.

[MID/3, Rec. 3.1/12]

9. TAF should be issued at intervals of six hours, with the period of validity beginning at one of the main synoptic hours (00, 06, 12, 18 UTC). The period of validity should be 24 or 30 hours, to meet the requirements indicated in FASID Table MET 1A. The filing time of the forecasts should be one hour before the start of the period of validity.

[MIDANPIRG/11 Report]

10. The forecast maximum temperatures should be included in aerodrome forecasts for certain stations as agreed between the meteorological authorities and the operators concerned.

[LIM MID (COM/MET/RAC) Rec. 4/10]

11. Trend forecasts should be provided at the aerodromes as indicated in FASID Table MET 1A.

[LIM MID (COM/MET/RAC), Rec. 4/10]

12. Meteorological service should be provided on a 24 hour basis, except as otherwise agreed between the meteorological authority, the air traffic services authority and the operators concerned.

[MID/3, Rec.3.1/12]

13. At aerodromes with limited hours of operation, the issuance of METAR should be issued at least one hour prior to the aerodrome resuming operations to meet pre-flight and in-flight planning requirements for flights due to arrive at the aerodrome concerned as soon as it is opened for use. Furthermore, TAF should be issued with adequate periods of validity so that they cover the entire period during which the aerodrome is open for use.

[MID/3, Rec. 3.1/12]

14. When an MWO is temporarily not functioning or is not able to meet all its obligations, its responsibilities should be transferred to another MWO and a NOTAM should be issued to indicate such a transfer and the period during which the office is unable to fulfil all its obligations.

[MID/3, Rec. 3.1/12]

15. Details of the service provided should be indicated in Aeronautical Information Publications, in accordance with the provisions of Annex 15.

[MID/3, Rec. 3.1/12]

16. As far as possible, English should be among the languages used in meteorological briefing and consultation.

[MID/3, Rec. 3.1/12]

17. FASID Tables MET 1A and 1B should be implemented as soon as possible.

AIRCRAFT OBSERVATIONS AND REPORTS

18. The meteorological authority should adopt the approved list of ATS/MET reporting points, as it relates to points located within and on the boundaries of the FIR for which the State is responsible. Those ATS/MET reporting points should be published in the AIP of the State concerned.

[LIM MID (COM/MET/RAC), Rec.4/19]

Note.— The approved list of ATS/MET reporting points is published and kept up to date by the ICAO Regional Office concerned, on the basis of consultations with ATS and MET authorities in each State and the provisions of Annex 3 in this respect.

19. The meteorological watch offices (MWO) designated as the collecting centres for air-reports

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received by voice communications within the FIR/UIR for which they are responsible, are shown in FASID Table MET 1B.

AIRMET INFORMATION

20. AIRMET messages are not required to be issued by MWOs.
[LIM MID (COM/MET/RAC), Rec. 4/10]

TROPICAL CYCLONE ADVISORIES AND VOLCANIC ASH ADVISORIES (FASID Tables MET 3A, 3B and 3C; FASID Charts MET1 and MET2)

21. Tropical cyclone advisory centre (TCAC) New Delhi has been designated to prepare advisory information. FASID Table MET 3A sets out the area of responsibility, the period of operation of the TCAC and the MWOs to which the advisory information should be sent.
[IAVWOPSG Conclusion 3/2]

22. Volcanic ash advisory centre (VAAC) Toulouse has been designated to prepare advisory information. FASID Table MET 3B sets out the area of responsibility of the VAACs, and the MWOs and ACCs/FICs to which the advisory information should be sent.
[IAVWOPSG Conclusion 3/2]

23. In order for the VAAC to initiate the monitoring of volcanic ash from satellite data and the forecast of volcanic ash trajectories, MWOs should notify the VAAC immediately on receipt of information that a volcanic eruption has occurred or volcanic ash has been observed in the FIR for which they are responsible. In particular, any special air-reports of pre-eruption volcanic activity, a volcanic eruption or volcanic ash cloud, received by MWOs should be transmitted without delay to the VAAC Toulouse. Selected State volcano observatories have been designated for direct notification of significant pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash in the atmosphere to their corresponding ACC/FIC, MWO and VAAC. FASID Table MET 3C sets out the selected State volcano observatories and the VAACs, MWOs and ACCs/FICs to which the notification should be sent by the observatories.
[IAVWOPSG Conclusion 3/2]

EXCHANGE OF OPERATIONAL METEOROLOGICAL INFORMATION (FASID Tables MET 2A, 2B, 2C, 4A and 4B)

24. FASID Table MET 2A sets out the requirements for operational meteorological (OPMET) information, which should be made available to States and users through the AFS satellite broadcasts (SADIS ~~and ISCS~~). FASID Table MET 2B contains the exchange requirements to the EUR Region for SIGMET- and AIRMET-messages, volcanic ash and tropical cyclone advisories and special air reports, originated by States in the MID Region, to satisfy international flight operations for uplink to SADIS.

Note: Volcanic ash advisories and tropical cyclone advisories are not originated by States in the MID Region.

25. FASID Table MET 2C sets out the operational meteorological information which should be available in Saudi Arabia for the pilgrimage flights. For its implementation, ICAO should notify, in accordance with AFI/6, Recommendation 6/24, as approved by Council, meteorological offices concerned well in advance of the exact dates of the beginning and the end of the Pilgrimage Season (cf also Doc 7474, Table MET 2C).
[LIM MID (COM/MET/RAC), Rec. 5/3]

26. FASID Tables MET 4A and MET 4B set out the Regional OPMET Bulletin Exchange (ROBEX) Scheme for the collection of METAR and air reports (AIREP), and TAF, respectively. When the designated ROBEX centres are not operational for any reason, the exchanges required

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under the ROBEX Scheme should be carried out by direct address messages.
[LIM MID (COM/MET/RAC), Rec. 5/5]

Note.— Details of the ROBEX procedures including the exchange of OPMET information required under the scheme are given in the ROBEX Handbook prepared by the ICAO Asia and Pacific Office, Bangkok, Thailand.

27. Each MWO should arrange for the transmission to all aerodrome meteorological offices within its associated FIR of its own SIGMET messages and relevant SIGMET messages for other FIR, as required for briefing and, where appropriate, for flight documentation.
[MID/3, Rec. 3.1/12]

28. Each MWO should arrange for the transmission to its associated ACC/FIC of SIGMET messages and special air-reports received from other MWOs.

29. Each MWO should arrange for the transmission of routine air-reports received by voice communications to all meteorological offices within its associated FIR.

30. Operational meteorological information required in MID States from the EUR Region should be requested from the inter-regional OPMET Gateway (IROG), Vienna. OPMET information from the AFI Region should be requested from Jeddah (OEJNYM). OPMET information from ASIA/PAC Region should be requested from IROG Bangkok.

WORLD AREA FORECAST SYSTEM (WAFS)

(FASID Table MET 5)

31. FASID Table MET 5 sets out the MID Region requirements for WAFS forecasts to be provided by WAFC London.
[WAFSOPSG Conclusion 1/2]

32. For back-up purposes, each WAFC should have the capability to produce WAFS forecasts for all required areas of coverage.
[WAFSOPSG Conclusion 5/2]

33. WAFS forecasts should be made available by WAFC London using the satellite distribution system for information relating to air navigation (SADIS), including the Secure SADIS FTP Service or using the satellite and Internet service.
[WAFSOPSG Conclusion ~~6/2~~ 7/2]

Editorial note. – Insert “or using the SADIS service” in the corresponding CNS procedure contained in Part IV of the ANP

34. Each State should make the necessary arrangements to receive and make full use of operational WAFS forecasts made available by WAFC London. The lists of the authorized users of the SADIS services in the MID Region and the locations of the operational VSATs and/or Internet-based services are available from the following website:

www.icao.int/safety/meteorology/sadisopsg (click: “Operational Information” and then “Status of implementation of SADIS”) for SADIS.

[WAFSOPSG Conclusion ~~6/2~~ 7/2]

– END –

MID ANP VOLUME II (FASID) PART VI (MET)

METEOROLOGY (MET)

1. Introduction

1.1 The Standards, Recommended Practices and Procedures to be applied are as listed in paragraph 1.2, Part VI - MET of the MID Basic ANP. The material in this part complements that contained in Part I – Statement of Basic Operational Requirements and Planning Criteria (BORPC) of the MID Basic ANP and should be taken into consideration in the overall planning processes for the MID Region.

1.2 This Part contains a detailed description/list of the facilities and/or services to be provided to fulfil the basic requirements of the Plan and are as agreed between the provider and user States concerned. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified. This element of the FASID, in conjunction with the MID Basic ANP, is kept under constant review by the MIDANPIRG in accordance with its schedule of management, in consultation with user and provider States and with the assistance of the ICAO Middle East Office, Cairo.

2. Meteorological Service Required at Aerodromes and Requirements for Meteorological Watch Offices
(FASID Tables MET 1A and 1B)

2.1 The meteorological service to be provided at aerodromes to satisfy international flight operations is outlined in FASID Table MET 1A.

2.2 The requirements for meteorological watch offices (MWO) together with the service to be provided to flight information regions (FIR), upper flight information regions (UIR) and search and rescue regions (SRR) are listed in FASID Table MET 1B.

3. Exchange of Operational Meteorological Information
(FASID Tables MET 2A, 2B, 2C, 4A and 4B)

3.1 The requirements for availability of OPMET information (METAR, SPECI and TAF) on a global basis through the AFS satellite distribution system (the SADIS ~~and ISCS~~) are provided in FASID Table MET 2A. This table contains the aerodromes included in the AOP Table of the Basic ANP and those non-AOP aerodromes for which the States concerned have agreed to make available the OPMET information via the satellite distribution system on a regular basis. FASID Table MET 2B contains the exchange requirements to the EUR Region for SIGMET- and AIRMET-messages, volcanic ash and tropical cyclone advisories and special air reports, originated by States in the MID Region, to satisfy international flight operations for uplink to SADIS.

Note: Volcanic ash advisories and tropical cyclone advisories are not originated by States in the MID Region.

3.2 FASID Table MET 2C contains the operational meteorological information which should be available in Saudi Arabia for the pilgrimage flights.

3.3 FASID Tables MET 4A and 4B set out the Regional OPMET Bulletin Exchange (ROBEX) Scheme for the exchange of METAR, SPECI, air reports (AIREP) and TAF.

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Note. - Details of the ROBEX procedures including the exchange of OPMET information required under the Scheme are given in the ROBEX Handbook published by the ICAO Asia and Pacific Office, Bangkok in co-ordination with the ICAO MID Office, Cairo. The ROBEX handbook is available via the 'MET' section of: <http://www.bangkok.icao.int/edocs/index.html>.

Attachment A

4. Tropical Cyclone Warning System and International Airways Volcano Watch (FASID Tables MET 3A, MET 3B, and MET 3C and FASID Charts MET 1 and 2)

4.1 The area of responsibility and the periods of operation of the designated Tropical Cyclone Advisory Centre (TCAC) New Delhi and the MWOs to which the advisory information should be sent by the TCAC are contained in FASID Table MET 3A. The areas of responsibility of the designated TCACs in all regions are shown on FASID Chart MET 1.

4.2 The area of responsibility of the designated Volcanic Ash Advisory Centre (VAAC) Toulouse, and the MWOs and ACCs/FICs to which the advisory information should be sent by the VAAC are contained in FASID Table MET 3B. The areas of responsibility of the designated VAACs in all regions are shown on FASID Chart MET 2.

4.3 FASID Table MET 3C sets out the selected State volcano observatories in the MID Region designated for direct notification of significant pre-eruption volcanic activity and/or volcanic ash in the atmosphere and the VAACs, MWOs and ACCs/FICs to which the notification should be sent by the observatories.

Note 1. - Operational procedures to be used for the dissemination of information on volcanic eruptions and associated ash clouds in areas which could affect routes used by international flights, and necessary pre-eruption arrangements as well as the list of operational contact points are provided in the document titled Handbook on the International Airways Volcano Watch (IAVW) - Operational Procedures and Contact List (Doc 9766). Additional guidance material regarding the IAVW is contained in the Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds (Doc 9691).

5. World Area Forecast System (WAFS) (FASID Table MET 5)

5.1 FASID Table MET 5 sets out the MID Region requirements for WAFS forecasts to be provided by WAFC London.

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MID ANP VOLUME II (FASID) PART VI (MET)

TABLE MET 1A - METEOROLOGICAL SERVICE AT AERODROMES

EXPLANATION OF THE TABLE

Column

1. Name of the aerodrome.
2. ICAO location indicator of the aerodrome.
3. Designation of aerodrome:
RG - international general aviation, regular use
RS - international scheduled air transport, regular use
RNS - international non-scheduled air transport, regular use
AS - international scheduled air transport, alternate use
ANS - international non-scheduled air transport, alternate use
4. Name of the meteorological office responsible for the provision of meteorological service at the aerodrome indicated in column 1.
5. ICAO location indicator of the responsible meteorological office.
6. Requirement for trend forecasts.
7. Requirement for aerodrome forecasts in TAF code
T – Requirement for 24-hour validity aerodrome forecasts in TAF code (24H)
X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)
8. Availability of OPMET information
F - Full : OPMET data as listed issued for the aerodrome all through the 24-hour period
P - Partial : OPMET data as listed not issued for the aerodrome for the entire 24-hour period
N - None : No OPMET data issued for the time being

Attachment B

| Aerodrome where service is to be provided | | | Responsible MET office | | Forecasts to be provided | | Availability of OPMET |
|---|------------------------------|----------|-------------------------------|------------------------------|--------------------------|----------|-----------------------|
| Name 1 | ICAO Location Indicator 2 | Use 3 | Name 4 | ICAO Location Indicator 5 | TR 6 | TAF 7 | |
| BAHRAIN | | | | | | | |
| BAHRAIN INTERNATIONAL | OBBI | RS | BAHRAIN INTERNATIONAL | OBBI | Y | X | F |
| EGYPT | | | | | | | |
| AL ALAMAIN/ INTL | HEAL | AS | CAIRO/INTL | HECA | | * | P |
| ALEXANDRIA / INTL | HEAX | RS | CAIRO/INTL | HECA | Y | X | F |
| ALMAZA AFB / MILITARY | HEAZ | RNS | CAIRO/INTL | HECA | | X | F |
| ASWAN / INTL | HESN | RS | CAIRO/INTL | HECA | Y | X | F |
| ASYUT / INTL | HEAT | AS | CAIRO/INTL | HECA | | X | F |
| CAIRO/INTL | HECA | RS | CAIRO/INTL | HECA | Y | X | F |
| HURGHADA / INTL | HEGN | RS | CAIRO/INTL | HECA | Y | X | F |
| LUXOR / INTL | HELX | RS | CAIRO/INTL | HECA | Y | X | F |
| MARSA ALAM / INTL | HEMA | RS | CAIRO/INTL | HECA | | X | F |
| SHARK EL OWEINAT / INTL | HEOW | AS | CAIRO/INTL | HECA | | X | F |
| SHARM EL SHEIKH / INTL | HESH | RS | CAIRO/INTL | HECA | | X | F |
| SOHAG INTERNATIONAL AIRPORT | HESG | AS | CAIRO/INTL | HECA | | * | P |
| ST.CATHERINE / INTL | HESC | AS | CAIRO/INTL | HECA | | X | F |
| TABA / INTL | HETB | RS | CAIRO/INTL | HECA | | X | F |
| IRAN (ISLAMIC REPUBLIC OF) | | | | | | | |
| BANDAR ABBASS/INTL | OIKB | RS | TEHRAN/MEHRABAD INTL | OIII | | T | F |
| ESFAHAN / SHAHID BEHESHTI INTL | OIFM | RS | TEHRAN/MEHRABAD INTL | OIII | | X | F |
| MASHHAD/SHAHID HASHEMI NEJAD INTL | OIMM | RS | TEHRAN/MEHRABAD INTL | OIII | | T | F |
| SHIRAZ/SHAHID DASTGHAIB INTL | OISS | RS | SHIRAZ/SHAHID DASTGHAIB INTL | OISS | Y | X | F |
| TABRIZ/INTL | OITT | RNS | TABRIZ/INTL | OITT | | X | F |
| TEHRAN/IMAM KHOMAINI INTL | OIIE | RS | TEHRAN/MEHRABAD INTL | OIII | Y | X | F |
| TEHRAN/MEHRABAD INTL | OIII | RS | TEHRAN/MEHRABAD INTL | OIII | Y | T | F |
| ZAHEDAN/INTL | OIZH | RS | TEHRAN/MEHRABAD INTL | OIII | | T | F |
| IRAQ | | | | | | | |
| AL NAJAF | ORNI | RNS | | | | T | F |
| BAGHDAD INTERNATIONAL AIRPORT | ORBI | RS | BAGHDAD INTERNATIONAL AIRPORT | ORBI | Y | T | F |
| BASRAH INTL AIRPORT | ORMM | RS | BAGHDAD INTERNATIONAL AIRPORT | ORBI | Y | T | F |
| ERBIL INTL AIRPORT | ORER | RS | | | | T | F |
| MOSUL INTERNATIONAL AIRPORT | ORBM | RS | BAGHDAD INTERNATIONAL AIRPORT | ORBI | Y | T | F |
| SULAYMANIYAH INTERNATIONAL AIRPORT | ORSU | RS | | | | T | F |
| JORDAN | | | | | | | |
| AMMAN/MARKA | OJAM | AS | AMMAN/MARKA | OJAM | Y | T | F |
| AMMAN/QUEEN ALIA | OJAI | RS | AMMAN/MARKA | OJAM | Y | X | F |
| AQABA/KING HUSSEIN | OJAQ | RNS | AMMAN/MARKA | OJAM | | | F |
| JERUSALEM/JERUSALEM | OJJR | RS | AMMAN/MARKA | OJAM | | | N |
| KUWAIT | | | | | | | |
| KUWAIT/INTL AIRPORT | OKBK | RS | KUWAIT/INTL AIRPORT | OKBK | Y | X | F |
| LEBANON | | | | | | | |
| BEIRUT/BEIRUT INTL | OLBA | RS | BEIRUT/BEIRUT INTL | OLBA | Y | X | F |

Attachment B

| Aerodrome where service is to be provided | | | Responsible MET office | | Forecasts to be provided | | Availability of OPMET | |
|---|------------------------------|-----------------------------|-------------------------------------|------------------------------|--------------------------|----------|-----------------------|---|
| Name 1 | ICAO Location Indicator 2 | Use 3 | Name 4 | ICAO Location Indicator 5 | TR 6 | TAF 7 | | 8 |
| OMAN | | | | | | | | |
| MUSCAT/MUSCAT INTL | OOMS | RS | MUSCAT/MUSCAT INTL | OOMS | Y | X | F | |
| SALALAH | OOSA | AS | SALALAH | OOSA | | X | F | |
| QATAR | | | | | | | | |
| DOHA INTERNATIONAL | OTBD | RS | DOHA INTERNATIONAL | OTBD | Y | X | F | |
| NEW DOHA INTERNATIONAL AIRPORT (NDIA) | OTHH | RS | DOHA INTERNATIONAL | OTBD | Y | X | F | |
| SAUDI ARABIA | | | | | | | | |
| DAMMAM/KING FAHD INTERNATIONAL | OEDF | RS | | | | X | F | |
| JEDDAH/KING ABDULAZIZ INTERNATIONAL | OEJN | RS | JEDDAH/KING ABDULAZIZ INTERNATIONAL | OEJN | Y | X | F | |
| MADINAH/PRINCE MOHAMMAD BIN ABDULAZIZ INTERNATIONAL | OEMA | RS | JEDDAH/KING ABDULAZIZ INTERNATIONAL | OEJN | Y | T | F | |
| RIYADH/KING KHALED INTERNATIONAL | OERK | RS | JEDDAH/KING ABDULAZIZ INTERNATIONAL | OEJN | Y | X | F | |
| SYRIAN ARAB REPUBLIC | | | | | | | | |
| ALEPPO/INTL | OSAP | RS | DAMASCUS/INTL | OSDI | | T | F | |
| BASSEL AL-ASSAD/INTL. LATTAKIA | OSLK | RS | DAMASCUS/INTL | OSDI | | T | F | |
| DAMASCUS/INTL | OSDI | RS | DAMASCUS/INTL | OSDI | Y | X | F | |
| UNITED ARAB EMIRATES | | | | | | | | |
| ABU DHABI INTERNATIONAL | OMAA | RS | ABU DHABI INTERNATIONAL | OMAA | Y | X | F | |
| ABU DHABI / AL BATEEN EXECUTIVE AIRPORT | OMAD | RG RNS | ABU DHABI INTERNATIONAL | OMAA | | X | F | |
| AL AIN INTERNATIONAL | OMAL | RS | ABU DHABI INTERNATIONAL | OMAA | | X | F | |
| DUBAI INTERNATIONAL | OMDB | RS | DUBAI INTERNATIONAL | OMDB | Y | X | F | |
| DUBAI/AL MAKTOUM INTERNATIONAL | OMDW | RS | DUBAI INTERNATIONAL | OMDB | Y | X | F | |
| FUJAIRAH INTERNATIONAL | OMFJ | RS | DUBAI INTERNATIONAL | OMDB | | X | F | |
| RAS AL KHAIMAH INTERNATIONAL | OMRK | RS | DUBAI INTERNATIONAL | OMDB | | X | F | |
| SHARJAH INTERNATIONAL | OMSJ | RS | DUBAI INTERNATIONAL | OMDB | | X | F | |
| YEMEN | | | | | | | | |
| ADEN/INTL | OYAA | RS | SANAA/INTL | OYSN | Y | X | F | |
| HODEIDAH/INTL | OYHD | RS | SANAA/INTL | OYSN | | T | F | |
| MUKALLA/INTL | OYRN | RS | SANAA/INTL | OYSN | | T | F | |
| SANAA/INTL | OYSN | RS | SANAA/INTL | OYSN | | T | F | |
| TAIZ/INTL | OYZT | RS | SANAA/INTL | OYSN | | T | F | |

*TAF available upon request

Attachment C

FASID TABLE MET 1B - METEOROLOGICAL WATCH OFFICES

EXPLANATION OF THE TABLE

Column

- | | |
|---|--|
| 1 | Name of State with Meteorological Watch Office (MWO) responsibility. |
| 2 | Location name of the MWO |
| 3 | ICAO location indicator assigned to the MWO. |
| 4 | Name of FIR, the UIR and/or the search and rescue region (SRR) served by the MWO. |
| 5 | ICAO location indicator assigned to the ATS unit serving the FIR, UIR and/or SRR. |
| 6 | Requirement for issuance of SIGMET, <i>excluding</i> volcanic ash SIGMET and tropical cyclone SIGMET |
| 7 | Requirement for issuance of volcanic ash SIGMET |
| 8 | Requirement for issuance of tropical cyclone SIGMET |
| 9 | Remarks |

Note.— Unless otherwise stated in column 9, the MWO listed in column 2 is the designated collecting centre for the air reports received within the corresponding FIR/UIR listed in column 4.

Attachment C

| State | MWO location | | Area served | | SIGMET | | | Remarks |
|-----------------------------------|-------------------------------------|----------------|-----------------------------|----------------|--------|----|----|--------------------|
| | Name | ICAO loc. ind. | Name | ICAO loc. ind. | WS | WV | WC | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| BAHRAIN | | | | | | | | |
| | BAHRAIN INTERNATIONAL | OBBI | BAHRAIN FIR | OBBB | Y | Y | Y | |
| EGYPT | | | | | | | | |
| | CAIRO/INTL | HECA | CAIRO ACC | HECC | Y | Y | | Asian part thereof |
| IRAN (ISLAMIC REPUBLIC OF) | | | | | | | | |
| | TEHRAN/MEHRABAD INTL | OIII | TEHRAN (ACC/FIC/FIR) | OIIX | Y | Y | Y | |
| IRAQ | | | | | | | | |
| | BAGHDAD INTERNATIONAL AIRPORT | ORBI | BAGHDAD FIR and SRR | ORBS | Y | Y | | |
| JORDAN | | | | | | | | |
| | AMMAN/QUEEN ALIA | OJAI | AMMAN (ACC/FIC) | OJAC | Y | Y | | |
| KUWAIT | | | | | | | | |
| | KUWAIT/INTL AIRPORT | OKBK | ACC/AERODROME CONTROL TOWER | OKAC | Y | Y | Y | |
| LEBANON | | | | | | | | |
| | BEIRUT/BEIRUT INTL | OLBA | BEIRUT/BEIRUT INTL | OLBA | Y | Y | | |
| OMAN | | | | | | | | |
| | MUSCAT/MUSCAT INTL | OOMS | MUSCAT FIR | OOMM | Y | Y | Y | |
| SAUDI ARABIA | | | | | | | | |
| | JEDDAH/KING ABDULAZIZ INTERNATIONAL | OEJN | JEDDAH FIR | OEJD | Y | Y | Y | |
| SYRIAN ARAB REPUBLIC | | | | | | | | |
| | DAMASCUS/INTL | OSDI | DAMASCUS/INTL | OSDI | Y | Y | | |
| UNITED ARAB EMIRATES | | | | | | | | |
| | ABU DHABI INTERNATIONAL | OMAA | EMIRATES FIR | OMAE | Y | Y | Y | |
| YEMEN | | | | | | | | |
| | SANAA/INTL | OYSN | SANAA/INTL | OYSN | Y | Y | Y | |

Attachment D

FASID TABLE MET 3A - TROPICAL CYCLONE ADVISORY CENTRE FOR THE MID REGION

EXPLANATION OF THE TABLE

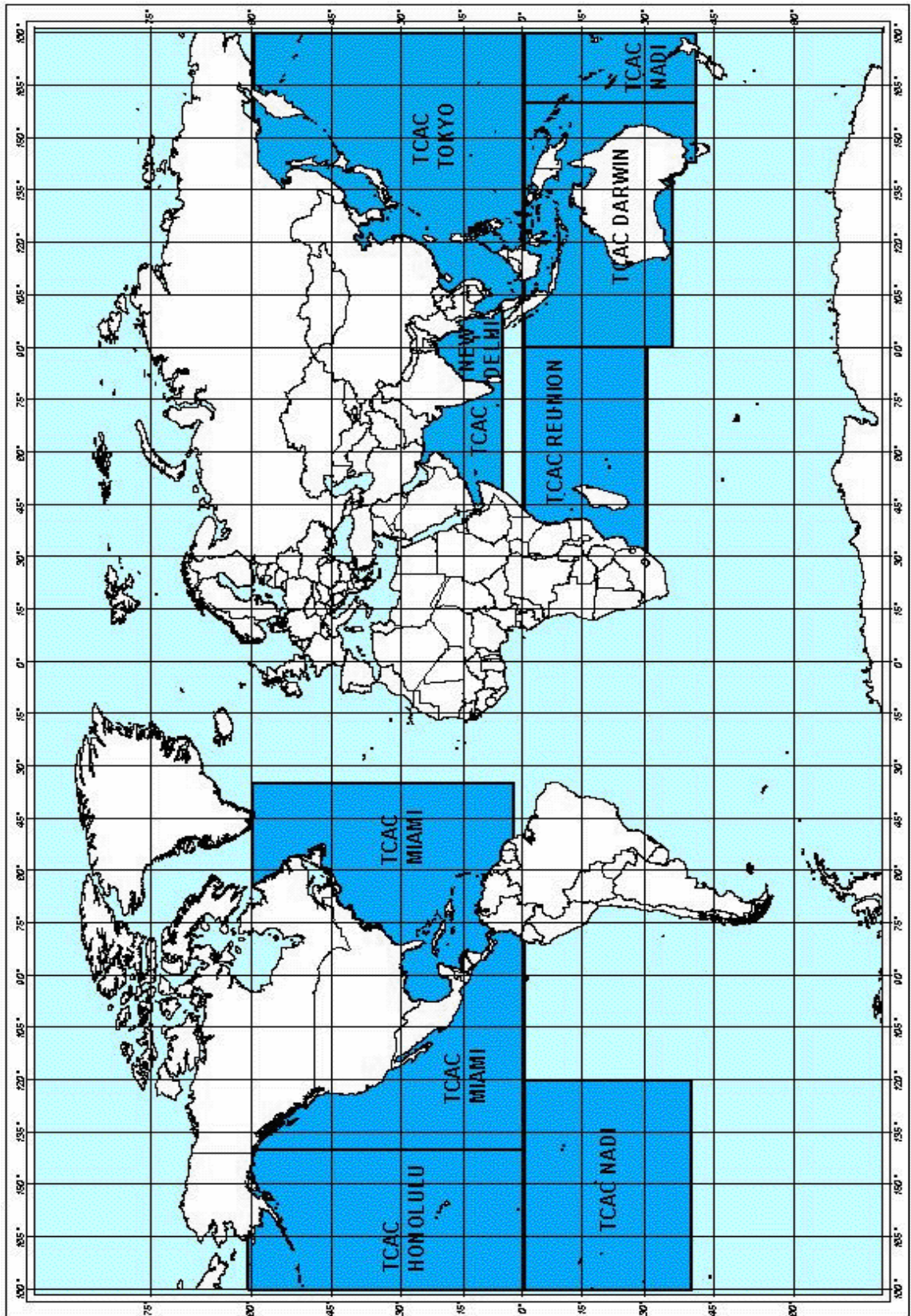
Column

- 1 Location of the Tropical Cyclone Advisory Centre (TCAC)
- 2 ICAO location indicator of the TCAC (for use in the WMO heading of advisory bulletin)
- 3 Area of responsibility for the preparation of advisory information on tropical cyclones by the TCAC in Column 1
- 4 Period(s) of operation of the TCAC
- 5 Meteorological Watch Office (MWO) to which the advisory information on tropical cyclones should be sent
- 6 ICAO location indicator of the MWO in Column 5

| Tropical Cyclone Advisory Centre | | Area of Responsibility | Period(s) of operation | MWO to which advisory information is to be sent | |
|----------------------------------|----------------|--|------------------------------------|--|--|
| Name | ICAO Loc. Ind. | | | Name | ICAO Loc. Ind. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| New Delhi (India) | VIDP | Arabian Sea including Gulf of Oman and Gulf of Aden N: Coastline S: 5°N W: Coastline E: 65°E | April – June October – December | Abu Dhabi International Bahrain International Jeddah/King Abdulaziz International Kuwait/Intl Airport Muscat/Muscat Intl Sanaa/Intl Tehran/Mehrabad Intl | OMAA OBBI OEJN OKBK OOMS OYSN OIII |

FASID CHART MET 1 - AREAS OF RESPONSIBILITY OF THE TCACs

CURRENT STATUS OF ICAO TROPICAL CYCLONE ADVISORY CENTRES (TCACs) - AREAS OF RESPONSIBILITY
SITUATION ACTUELLE DES CENTRES D'AVIS DE CYCLONES TROPICAUX (TCAC) OACI - ZONES DE RESPONSABILITÉ
SITUACIÓN ACTUAL DE LOS CENTROS DE AVISOS DE CICLONES TROPICALES, OACI (TCAC) - ZONAS DE RESPONSABILIDAD



Attachment F

FASID TABLE MET 3B — VOLCANIC ASH ADVISORY CENTRES

EXPLANATION OF THE TABLE

Column

- 1 Name of the Volcanic Ash Advisory Centre (VAAC).
- 2 ICAO location indicator of VAAC (for use in the WMO header of advisory bulletin).
- 3 Area of responsibility for the preparation of advisory information on volcanic ash by the VAAC in Column 1.
- 4 State where the MWOs and ACCs/FICs are located.
- 5 ICAO Region where the MWOs and ACCs/FICs are located.
- 6 MWOs to which the advisory information on volcanic ash should be sent.
- 7 ICAO location indicator of the MWOs in Column 6.
- 8 ACCs/FICs to which the advisory information on volcanic ash should be sent.
- 9 ICAO location indicator of the ACCs/FICs in Column 8.

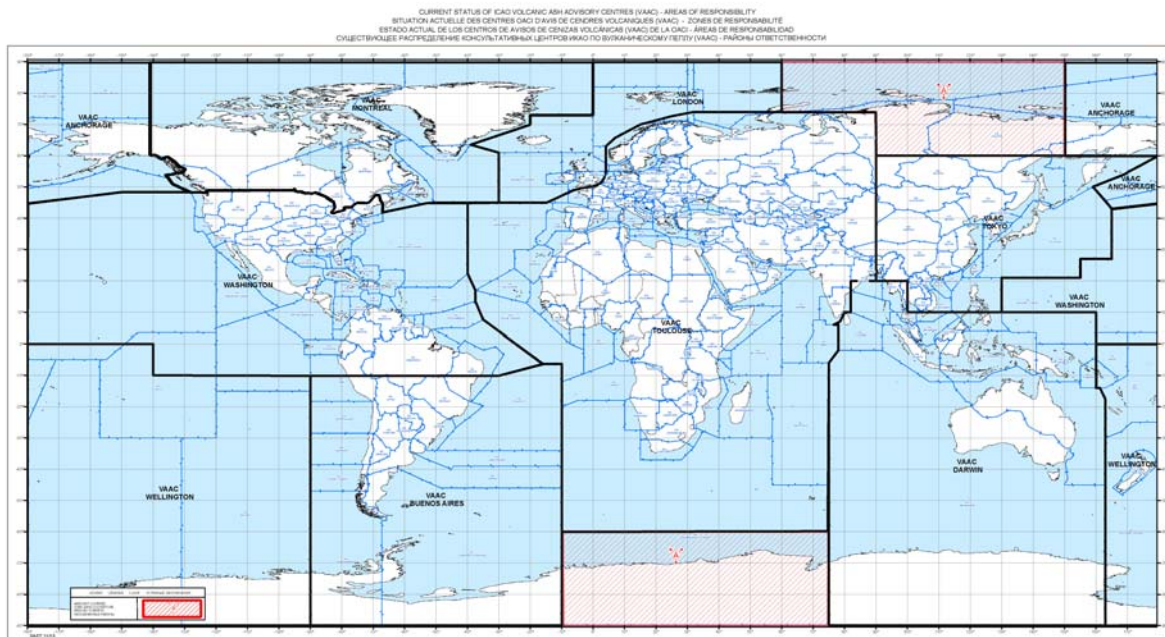
| Volcanic Ash Advisory Centre | | | State | ICAO Region | MWO to which advisory information is to be sent | | ACC/FIC to which advisory information is to be sent | |
|------------------------------|----------------|--|----------------------------|-------------|---|----------------|---|----------------|
| Name | ICAO Loc. Ind. | Area of responsibility | | | Name | ICAO Loc. Ind. | Name | ICAO Loc. Ind. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Toulouse (France) | LFPW | Santa Maria Oceanic FIR, AFI Region north of S60 S6000 , EUR Region (except for London, Scottish and Shannon FIRs) west of E90 E09000 and south of N74 N7100 , MID Region, and ASIA Region, west of E90 | Bahrain | MID | Bahrain International | OBBI | Bahrain FIR | OBBI |
| | | | Egypt | MID | Cairo/Intl | HECA | Cairo ACC | HECC |
| | | | Iran (Islamic Republic of) | MID | Tehran/Mehra bad | OIII | Tehran (ACC/FIC/FIR) | OIII |
| | | | Iraq | MID | Baghdad International Airport | ORBI | Baghdad | ORBS* |
| | | | Jordan | MID | Amman/Queen Alia | OJAI | Amman (ACC/FIC) | OJAC |
| | | | Kuwait | MID | Kuwait/Intl Airport | OKBK | ACC/Aerodrome Control Tower | OKAC |
| | | | Lebanon | MID | Beirut/Beirut Intl | OLBA | Beirut/Beirut Intl | OLBA |

Attachment F

| | | | | | | | | |
|--|--|---|----------------------|-----|-------------------------------------|------|---------------|------|
| | | E09000 north of N20 N2000 (plus Mumbai, Chennai (west of 82E E08200) and Male FIRs) | Oman | MID | Muscat/Muscat Intl | OOMS | Muscat FIR | OOMM |
| | | | Saudi Arabia | MID | Jeddah/King Abdulaziz International | OEJN | Jeddah FIR | OEJD |
| | | | Syrian Arab Republic | MID | Damascus/Intl | OSDI | Damascus/Intl | OSDI |
| | | | United Arab Emirates | MID | Abu Dhabi International | OMAA | Emirates FIR | OMAE |
| | | | Yemen | MID | Sanaa/Intl | OYSN | Sanaa/Intl | OYSN |

*not listed in Doc 7910

VOLCANIC ASH ADVISORY CENTRES (VAAC) AREAS OF COVERAGE



Attachment H

FASID Table MET 3C

SELECTED STATE VOLCANO OBSERVATORIES

EXPLANATION OF THE TABLE

Column

- 1 Provider State of the volcano observatory designated for direct notification of volcanic activity.
- 2 Name of the volcano observatory.
- 3 VAAC to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.
- 4 ACC/FIC to which the information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.
- 5 ICAO location indicator of the ACC/FIC listed in Column 4.
- 6 MWO to which information related to pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash cloud should be sent.
- 7 ICAO location indicator of the MWO listed in Column 6

| <i>Provider State of volcano observatory</i> | <i>Volcano observatory</i> | <i>VAAC to which the information is to be sent</i> | <i>ACC/FIC to which the information is to be sent</i> | | <i>MWO to which information is to be sent</i> | |
|--|----------------------------|--|---|----------------------|---|----------------------|
| | | | <i>Name</i> | <i>ICAO Loc Ind.</i> | <i>Name</i> | <i>ICAO Loc Ind.</i> |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| ... | ... | VAAC Toulouse | ... | ... | ... | ... |

Note:— AFTN is not available at all selected volcano observatories; therefore, it is the responsibility of each State to make appropriate communication arrangements.

Note:—The FASID Table MET 3C to be completed when information is provided by the States concerned

FASID Table MET 4A

**REGIONAL OPMET BULLETIN EXCHANGE (ROBEX) SCHEME –
COLLECTION AREAS FOR AERODROME FORECASTS**

EXPLANATION OF THE TABLE

Column

- 1 Location of the TAF collection centre
- 2 Aerodromes for which aerodrome forecasts in the TAF code form are collected

| TAF Collection Centre | Collection Area |
|-----------------------|--|
| BAHRAIN | ABU DHABI ABU DHABI / AL BATEEN EXECUTIVE AL AIN AL MAKTOUM BAHRAIN DAMMAM DOHA DUBAI FUJAIRAH KUWAIT MUSCAT RAS AL KHAIMAH SALALAH SHARJAH |
| BEIRUT | AMMAN BAGHDAD BASRAH BEIRUT DAMASCUS |
| JEDDAH | ADEN DHAHRAN/DAMMAM JEDDAH MADINAH RIYADH SANA'A |
| TEHRAN | AHWAZ BANDAR ABBASS ESFAHAN KERMAN MASHHAD SHIRAZ TABRIZ TEHRAN ZAHEDAN |

FASID Table MET 4B

**REGIONAL OPMET BULLETIN EXCHANGE (ROBEX) SCHEME –
COLLECTION AREAS FOR AERODROME METEOROLOGICAL REPORTS AND AIR-
REPORTS**

EXPLANATION OF THE TABLE

Column

- 1 Location of the METAR/SPECI and AIREP collection centre
- 2 Meteorological offices for which aerodrome meteorological reports in the METAR/SPECI code form and AIREP are collected

| METAR/SPECI and AIREP Collection Centre | Collection Area |
|---|---|
| BAGHDAD | BAGHDAD BASRAH |
| BAHRAIN | ABU DHABI ABU DHABI / AL BATEEN EXECUTIVE AL AIN AL MAKTOUM BAHRAIN DAMMAM DOHA DUBAI FUJAIRAH KUWAIT MUSCAT RAS AL KHAIMAH SHARJAH |
| BEIRUT | AMMAN BEIRUT DAMASCUS |
| JEDDAH | DHAHRAN JEDDAH MADINAH RIYADH SANA'A |
| TEHRAN | AHWAZ BANDAR ABBASS ESFAHAN KABUL KANDAHAR KERMAN MASHHAD SHIRAZ TABRIZ TEHRAN ZAHEDAN |

Attachment K

FASID TABLE MET 5 - REQUIREMENTS FOR WAFS FORECASTS

EXPLANATION OF THE TABLE

Column

- 1 WAFS forecasts required by the MID States, to be provided by WAFS London.
- 2 Area of coverage required for the WAFS forecasts to be provided by WAFS London.

| FORECASTS REQUIRED | AREAS REQUIRED |
|---|----------------|
| 1 | 2 |
| SWH forecasts (FL250-630) in the BUFR code form | GLOBAL |
| SWM forecasts (FL100-250) in the BUFR code form | EUR, MID |
| Forecasts of upper-air wind, temperature and humidity, cumulonimbus clouds, icing, and clear-air and in-cloud turbulence, and of geopotential altitude of flight levels in GRIB code form | GLOBAL |

Note 1.— SWM forecasts are provided for limited geographical areas as determined by regional air navigation agreement. Areas “EUR” and “MID” provided by WAFS London.

Note 2. — WAFSs will continue to issue forecasts of SIGWX in PNG chart form for back-up purposes for fixed areas of coverage as specified in Annex 3.

Note 3.— Forecasts of cumulonimbus clouds, icing, and clear-air and in-cloud turbulence are labelled as “trial forecasts” and are currently distributed through the Internet based services.

APPENDIX C

INTERNATIONAL CIVIL AVIATION ORGANIZATION



<<INSERT REGION>> REGIONAL SIGMET GUIDE

<<INSERT EDITION NO.>> EDITION — <<INSERT MONTH AND YEAR>>

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1. INTRODUCTION

1.1. General

- 1.1.1. The main purpose of this regional SIGMET guide is to provide guidance for standardization and harmonization of the procedures and formats related to the preparation and issuance of aeronautical meteorological information pertaining to specified en-route hazardous weather phenomena, known as SIGMET. The guidance is complementary to Annex 3 to the Convention on International Civil Aviation – *Meteorological Services for International Air Navigation*, the Standards and Recommended Practices (SARPs) contained therein regarding SIGMET, and to the SIGMET-related provisions in ICAO Regional Air Navigation Plans (ANPs).
- 1.1.2. ICAO provisions concerning the preparation and issuance of SIGMET information are primarily contained in:
- Annex 3 - *Meteorological Service for International Air Navigation*, Part I, Chapters 3 and 7 and Part II, Appendix 6;
 - Annex 11 - *Air Traffic Services*, Chapter 4, 4.2.1 and Chapter 7, 7.1;
 - Regional Air Navigation Plans, Basic ANP, Part VI - Meteorology (MET);
 - Regional Air Navigation Plans, Volume II, FASID, Part VI – Meteorology (MET) FASID, Tables MET 1B, MET 3A and MET 3B;
 - *Procedures for Air Navigation Services – Air Traffic Management (PANS-MET, Doc 4444)*, Chapter 9, 9.1.3.2;
 - Regional Supplementary Procedures (Doc 7030), Part 1, 11.2;
 - *ICAO Abbreviations and Codes* (Doc 8400);
 - *Handbook on the International Airways Volcano Watch (IAVW) – Operational Procedures and Contact List* (Doc 9766);
 - *Manual of Aeronautical Meteorological Practice (Doc 8896)*, Chapters 1 and 4;
 - *Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services* (Doc 9377).
- 1.1.3. This regional SIGMET guide is primarily intended to assist meteorological watch offices (MWOs) in preparing and disseminating SIGMET information in conformance with the format prescribed in Annex 3. The explanations of the format to be used are accompanied by examples. The regional SIGMET guide also provides information regarding the necessary coordination between the MWOs, air traffic services (ATS), volcanic ash advisory centres (VAACs), tropical cyclone advisory centres (TCACs) and pilots, and their respective responsibilities.
-

2. RESPONSIBILITIES AND COORDINATION

2.1. General

- 2.1.1. SIGMET messages provide information on hazardous meteorological phenomena; hence they are considered a high priority among other types of meteorological information provided to the aviation users. The primary purpose of SIGMET is for in-flight service, which requires timely transmission of the SIGMET messages to pilots by the ATS units and/or through VOLMET and D-VOLMET. Further information on the responsibilities of each party involved in the SIGMET process can be found in the *Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services* (Doc 9377).
- 2.1.2. Airlines are the main users of the SIGMET information. They contribute to the effectiveness of the SIGMET service through issuance of special air-reports reported by pilots to the ATS units. Special air-reports are among the most valuable sources of information for the MWOs in the preparation of SIGMET. The ATS units receiving special air-reports should forward them to their associated MWOs without delay.
- 2.1.3. In view of the foregoing, it should be well understood that the effectiveness of the SIGMET service depends strongly on the level of collaboration between the MWOs, ATS units, pilots, TCACs, VAACs and State volcano observatories. That is why, close coordination between these parties, as well as mutual understanding of their needs and responsibilities are essential for the successful implementation of the SIGMET service.
- 2.1.4. For the special cases of SIGMET for volcanic ash and tropical cyclones, the MWOs are provided with advisories from VAACs and TCACs respectively, as designated in the regional ANPs.
- 2.1.5. SIGMET is also used for flight planning. This requires global dissemination of SIGMET through the regional OPMET data banks (RODBs), the aeronautical fixed service (AFS) satellite distribution system (SADIS 2G), the Internet-based Secure SADIS FTP service and the WAFS Internet File Service (WIFS). SIGMET should also be distributed to the World Area Forecast Centres (WAFCs) London and Washington for use in the preparation of the significant weather (SIGWX) forecasts.

2.2. Meteorological watch office (MWO) responsibilities

- 2.2.1. SIGMET is to be issued by the MWO in order to provide timely information on the occurrence or expected occurrence of specified en-route weather phenomena affecting the safety of the flight operations in the MWO's area of responsibility. SIGMET provides information concerning the location, extent, intensity and expected evolution of the specified phenomena.
- 2.2.2. Information about the provision of the SIGMET service, including details on the designated MWO(s), is to be included in the State's Aeronautical Information Publication (AIP) as required by Annex 15 – *Aeronautical Information Service*, Appendix 1, GEN 3.5.8.
- 2.2.3. If a State is temporarily unable to meet its obligations for establishing MWO(s) and for provision of SIGMET, arrangements have to be made for another State to assume this responsibility. Such delegation of responsibilities is to be agreed by the meteorological authority of each State concerned and should be notified by a NOTAM, within the State's AIP and in a letter to the ICAO Regional Office concerned.

- 2.2.4. The meteorological authority concerned should ensure that the MWO obligations and responsibilities are clearly defined and assigned to the unit designated to serve the MWO. Corresponding operational procedures should be established and the meteorological staff should be trained accordingly.
- 2.2.5. In preparing SIGMET information MWOs should follow the format prescribed in Annex 3, Appendix 6, Table A6-1. Whilst Table A6-1 is the authoritative source, this regional SIGMET guide provides more specific instructions on how SIGMET should be compiled. The aim is to ensure that SIGMET is produced reliably and consistently worldwide.
- 2.2.6. SIGMET must be issued only for those weather phenomena listed in Annex 3, Appendix 6, 1.1.4 and only when specified criteria for their intensity and spatial extent are met.
- 2.2.7. The MWOs should be adequately equipped in order to be able to identify, analyze and forecast those phenomena for which SIGMET is required. The MWO should make use of all available sources of information including:
- special air-reports passed to the MWO from ATS (voice communication);
 - special air-reports received from automated downlink;
 - numerical Weather Prediction (NWP) data, especially high resolution models where available;
 - meteorological observations, including those from automatic weather stations and human observers;
 - upper wind information;
 - information from meteorological satellites;
 - weather radar (including Doppler radar);
 - State volcano observatories;
 - International Atomic Energy Agency (IAEA) through the relevant World Meteorological Organization (WMO) Regional Specializes Meteorological Centre (RSMC) for radioactive cloud;
 - local knowledge;
 - volcanic ash or tropical cyclone advisory messages.
- 2.2.8. On receipt of a special air-report from the associated ACC or FIC, the MWO should:
- a) issue SIGMET information based on the special-air report; or
 - b) send the special air-report for onward transmission in the case that the issuance of SIGMET information is not warranted (e.g., the phenomenon concerned is of transient nature).
- 2.2.9. Appropriate telecommunication means should be available at the MWO in order to ensure timely dissemination of SIGMET according to a dissemination scheme, which should include transmission to:
- local ATS users;
 - aerodrome MET offices within its area of responsibility, where SIGMET is required for briefing and/or flight documentation;
 - other MWOs in accordance with regional air navigation plans;
 - Centres designated for transmission of VOLMET or D-VOLMET where SIGMET is required for those transmissions;
 - responsible ROBEX centres and regional OPMET data bank (RODB). It should be arranged that, through the ROBEX scheme, SIGMETs are sent to

the designated RODB in the other ICAO regions, to the WAFCs and to the SADIS and WIFS providers;

- 2.2.10. In issuing SIGMET for tropical cyclones or volcanic ash, the MWOs should include as appropriate the advisory information received from the responsible TCAC or VAAC. In addition to the information received from the TCAC and VAAC, the MWOs may use the available complementary information from other reliable sources.

2.3. Air traffic service (ATS) unit responsibilities

- 2.3.1. Close coordination should be established between the MWO and the corresponding ATS unit (ACC or FIC) and arrangements should be in place to ensure:
- receipt without delay and display at the relevant ATS units of SIGMET issued by the associated MWO;
 - receipt and display at the ATS unit of SIGMETs issued by MWOs responsible for the adjacent FIRs/ACCs if these SIGMETs are required according to 2.3.4 below; and
 - transmission without delay by the ATS unit of special air-reports received through voice communication to the associated MWO.
- 2.3.2. SIGMET information should be transmitted to aircraft with the least possible delay on the initiative of the responsible ATS unit, by the preferred method of direct transmission followed by acknowledgement or by a general call when the number of aircraft would render the preferred method impracticable.
- 2.3.3. SIGMET information transmitted to aircraft-in-flight should cover a portion of the route up to two hours flying time ahead of the aircraft. SIGMET should be transmitted only during the time corresponding to their period of validity.
- 2.3.4. Air traffic controllers should ascertain whether any of the currently valid SIGMETs may affect any of the aircraft they are controlling, either within or outside the FIR/CTA boundary, up to two hours flying time ahead of the current position of the aircraft. If this is the case, the controllers should at their own initiative transmit the SIGMET promptly to the aircraft-in-flight likely to be affected. If necessary, the controller should pass to the aircraft available SIGMETs issued for the adjacent FIR/CTA, which the aircraft will be entering, if relevant to the expected flight route.
- 2.3.5. The ATS units concerned should also transmit to aircraft-in-flight the special air reports received, for which SIGMET has not been issued. Once a SIGMET for the weather phenomenon reported in the special air report is made available this obligation of the ATS unit expires.

2.4. Pilot responsibilities

- 2.4.1. Timely issuance of SIGMET information is largely dependent on the prompt receipt by MWOs of special air-reports. It is essential that pilots prepare and transmit such reports to the ATS units whenever any of the specified en-route meteorological conditions are encountered or observed.
- 2.4.2. It should be emphasized that, even when automatic dependent surveillance (ADS) is being used for routine air-reports, pilots should continue to make special air-reports.
- 2.4.3. Pilots should compile special air-reports and disseminate to ATS by air-ground data link as per Annex 3, Appendix 4, 1.2 and *Procedures for Air Navigation Services – Air Traffic Management* (PANS-ATM, Doc 4444), 4.12.3.2, or by voice communication as per Annex 3, Appendix 4, 1.3 and PANS-ATM (Doc 4444), 4.12.3.3.

Note. — The MWO will compile special air-reports for uplink as per Annex 3, Appendix 6, and as reported using the instructions given PANS-ATM, Appendix 1.

2.5. Coordination between MWOs and ATS units

- 2.5.1. To achieve the best service to aviation and as part of the collaborative decision-making process, close coordination between the MWO and the ATS units is required. This is of particular importance for the avoidance of hazardous weather.
- 2.5.2. A Letter of Agreement between the ATS authority and the meteorological authority is also recommended (as per Annex 3, 4.2) to outline the responsibilities and coordination processes between the MWOs and ATS units.

2.6. Coordination between MWOs, VAACs, TCACs and State volcano observatories

- 2.6.1. Amongst the phenomena for which SIGMET information is required, volcanic ash and tropical cyclones are of particular importance.
- 2.6.2. Since the identification, analysis and forecasting of volcanic ash and tropical cyclones requires considerable scientific and technical resources, normally not available at each MWO, VAACs and TCACs have been designated to provide volcanic ash advisories and tropical cyclone advisories respectively to the users and assist the MWOs in the preparation of SIGMETs for those phenomena. Close coordination should be established between the MWO and its responsible VAAC and/or TCAC.
- 2.6.3. Information regarding the VAACs and TCACs areas of responsibility and lists of MWOs and ACC/FICs to which advisories are to be sent is provided in the regional ANPs FASID Tables MET 3A and MET 3B. Volcanic ash advisories and tropical cyclone advisories are required for global exchange through SADIS and WIFS as they are used by the operators during the pre-flight planning. Nevertheless, it should be emphasized that SIGMET information is still required especially for in-flight re-planning. SIGMETs should be transmitted to aircraft-in-flight through voice communication, VOLMET or D-VOLMET, thus providing vital information for making in-flight decisions regarding large-scale route deviations due to volcanic ash clouds or tropical cyclones.
- 2.6.4. Information from State volcano observatories is an important part of the process for issuance of volcanic ash advisories and SIGMETs. Information from a State volcano observatory should be in the form of a Volcano Observatory Notification for Aviation (VONA) and include information on significant pre-eruption volcanic activity, volcanic eruptions or the presence of volcanic ash clouds. The format of the VONA is given in the *Handbook on the International Airways Volcano Watch (IAVW) – Operational Procedures and Contact List* (Doc 9766), Appendix E.

3. PROCEDURES FOR PREPARATION OF SIGMET INFORMATION

3.1. General

- 3.1.1. SIGMET is intended for transmission to aircraft in flight either by ATC or by VOLMET or D-VOLMET, and therefore, SIGMET messages should be kept concise. To this end, SIGMET information is prepared using approved ICAO abbreviations, a limited number of non-abbreviated words and, numerical values of a self-explanatory nature.
- 3.1.2. The increasing use of automated systems for handling the aeronautical meteorological information by the users makes it essential that all types of OPMET information, including SIGMET messages, are prepared and issued in the prescribed standardized format. Therefore, the format of the SIGMET message, as specified in Annex 3, Appendix 6, should be strictly followed by the MWOs.
- 3.1.3. The MWO should maintain watch over the evolution of the phenomenon for which a SIGMET has been issued. If the phenomenon persists or is expected to persist beyond the period of validity of the SIGMET, another SIGMET message for a further period of validity should be issued with updated information. SIGMETs for volcanic ash and tropical cyclone should be updated at least every 6 hours, while SIGMET for all other phenomena should be updated at least every 4 hours.
- 3.1.4. SIGMET should be promptly cancelled when the phenomenon is no longer occurring or no longer expected to occur in the MWO's area of responsibility.
- 3.1.5. Some SIGMET are generated using information from special air-reports (received by voice communications or data link (downlink)). The reporting of turbulence and icing used in special air-reports includes both moderate and severe categories (as per Doc 4444, Appendix 1).

Note. — Although the categories for the reporting, by pilots, of moderate and severe turbulence in special air-reports is provided in PANS-ATM (Doc 4444), some pilots report turbulence as “moderate to severe”. A MWO is then faced with determining which category to use in a special air-report (uplink) or in a SIGMET message for severe turbulence. Some States elect to treat such “moderate to severe” observations as ‘severe’ in the context of using the report to prompt the issuance of a special air-report (uplink) or a SIGMET message.

3.2. SIGMET phenomena

- 3.2.1. SIGMET shall only be issued for the phenomena listed in Table 1 below and only using the abbreviations as indicated.

| Phenomena Abbreviation | Description |
|------------------------|--|
| OBSC TS | Thunderstorms that are obscured by haze or smoke or cannot be readily seen due to darkness. |
| EMBD TS | Thunderstorms that are embedded within cloud layers and cannot be readily recognized. |
| FRQ TS | Frequent thunderstorms where, within the area of thunderstorms, there is little no separation between adjacent thunderstorms with a maximum spatial coverage greater than 75%. |
| SQL TS | A squall line indicating that a line of thunderstorms with little or no space between clouds. |
| OBSC TSGR | Thunderstorms with hail that are obscured by haze or smoke or cannot be readily seen due to darkness. |
| EMBD TSGR | Thunderstorms that are embedded within cloud layers and cannot |

| Phenomena Abbreviation | Description |
|------------------------|--|
| | be readily recognized. |
| FRQ TSGR | Frequent thunderstorms with hail, within the area of thunderstorms, there is little or no separation between adjacent thunderstorms with a maximum spatial coverage greater than 75%. |
| SQL TSGR | A squall line indicating that a line of thunderstorms with hail with little or no space between clouds. |
| TC | A tropical cyclone with a 10 minute mean surface wind speed of 17m/s (34 kt) or more. |
| SEV TURB | Severe turbulence referring to: <ul style="list-style-type: none"> • low-level turbulence associated with strong surface winds; • rotor streaming; or • clear air turbulence, whether in cloud or not in cloud. <i>Note. — Turbulence should not be used in connection with convective clouds. Severe turbulence shall be considered whenever the peak value of the cube root of EDR exceeds 0.7.</i> |
| SEV ICE | Severe icing not associated with convective cloud. |
| SEV ICE (FZRA) | Severe icing caused by freezing rain and not associated with convective cloud. |
| SEV MTW | Severe mountain wave the accompanying downdraft is 3 m/s (600 ft/min) or more or when severe turbulence is observed or forecast. |
| HVY DS | Heavy duststorm where the visibility is below 200 m and the sky is obscured. |
| HVY SS | Heavy sandstorm where the visibility is below 200 m and the sky is obscured. |
| VA | Volcanic ash |
| RDOACT CLD | Radioactive cloud |

Table 1: SIGMET phenomena abbreviations and descriptions

3.3. Allowable abbreviations

3.3.1. Abbreviations that can be used in the meteorological section of SIGMET include are given in Table 1 above and in Table 2 below.

| Abbreviation | Meaning | Abbreviation | Meaning |
|--------------|---------------------------------|--------------|------------------------------------|
| ABV | Above | NE | North-east |
| APRX | Approximate or approximately | NNE | North-north-east |
| AT | At (followed by time) | NNW | North-north-west |
| BLW | Below | NM | Nautical miles |
| BTN | Between | NO | No |
| CB | Cumulonimbus cloud | NW | North-west |
| CLD | Cloud | OBS | Observe or observed or observation |
| CNL | Cancel or cancelled | PSN | Position |
| E | East or eastern longitude | S | South or southern latitude |
| ENE | East-north-east | SE | South-east |
| ESE | East-south-east | SFC | Surface |
| EXP | Expect or expected or expecting | SSE | South-south-east |

| Abbreviation | Meaning | Abbreviation | Meaning |
|--------------|----------------------------|--------------|---------------------------------|
| FCST | Forecast | SSW | South-south-west |
| FIR | Flight information region | STNR | Stationary |
| FL | Flight level | SW | South-west |
| FT | Feet | TO | To |
| INTSF | Intensify or intensifying | TOP | Cumulonimbus cloud top (height) |
| KM | Kilometres | W | West or western longitude |
| KT | Knots | WI | Within (area) |
| LCA | Location | WID | Width or wide |
| M | Metres | WKN | Weaken or weakening |
| MOV | Move or moving or movement | WNW | West-north-west |
| MT | Mountain | WSW | West-south-west |
| N | North or northern latitude | Z | Coordinated Universal Time |
| NC | No change | | |

Table 2: SIGMET phenomena abbreviations and descriptions.

3.4. SIGMET structure

3.4.1. A SIGMET message consists of:

- **WMO Abbreviated Heading Line (WMO AHL)** – all SIGMETs are preceded by an appropriate WMO AHL;
- **First line**, containing location indicators of the respective ATS unit and MWO, sequential number and period of validity;
- **SIGMET main body**, containing information concerning the observed or forecast weather phenomenon for which the SIGMET is issued together with its expected evolution within the period of validity;

3.4.2. The first two parts of the SIGMET message are common for all types of SIGMET. The format and content of the third part is different; that is why, in the following paragraphs the meteorological part of the SIGMET message is described separately for the three types of SIGMET.

3.4.3. Inclusion of more than one instance of a phenomenon in a SIGMET.

Footnote 21 to Table A6-1 permits the inclusion of more than one instance of a phenomenon within a single SIGMET, but footnote 26 to Table A6-1 restricts the use of the conjunction 'AND' to volcanic ash and tropical cyclone SIGMETs only. In both these cases only two 'instances' are permitted. As such, some States have determined that multiple instances of the same phenomena for SIGMET other than for volcanic ash and tropical cyclones should not be used.

3.5. SIGMET format

Note. — In the following text, square brackets - [] - are used to indicate an optional or conditional element, and angled brackets - < > - for symbolic representation of a variable element, which in a real SIGMET accepts a discrete numerical value.

3.5.1. WMO header

T₁T₂A₁A₂ii CCCC YYGGgg [BBB]

3.5.1.1. The group **T₁T₂A₁A₂ii** is the bulletin identification (WMO AHL) for the SIGMET message. It is constructed in the following way:

| | | |
|-----------------------------------|----------------------------------|---|
| T₁T₂ | Data type designator | WS – for SIGMET for meteorological phenomena other than volcanic ash cloud or tropical cyclone WC – for SIGMET for tropical cyclone WV – for SIGMET for volcanic ash |
| A₁A₂ | Country or territory designators | Assigned according to Table C1, Part II of <i>Manual on the Global Telecommunication System, Volume I – Global Aspects</i> (WMO Publication No. 386) |
| ii | Bulletin number | Assigned on national level according to p 2.3.2.2, Part II of <i>Manual on the Global Telecommunication System, Volume I – Global Aspects</i> (WMO Publication No. 386) |

Table 3: Specification of the WMO Abbreviated Header Line for SIGMET

3.5.1.2. **CCCC** is the ICAO location indicator of the communication centre disseminating the message (this may be the same as the MWO location indicator).

3.5.1.3. **YYGGgg** is the date/time group; where **YY** is the day of the month and **GGgg** is the time of transmission of the SIGMET in hours and minutes UTC (normally this time is assigned by the disseminating (AFTN) centre).

3.5.2. First line of SIGMET

CCCC SIGMET [nn]n VALID YYGGgg/YYGGgg CCCC-

3.5.2.1. The meaning of the groups in the first line of the SIGMET is as follows:

| | |
|----------------------|--|
| CCCC | ICAO location indicator of the ATS unit serving the FIR or CTA to which the SIGMET refers |
| SIGMET | Message identifier |
| [nn]n | Daily sequence number (see 3.5.2.2) |
| VALID | Period of validity indicator |
| YYGGgg/YYGGgg | Validity period of the SIGMET given by date/time group of the beginning and date/time group of the end of the period (see 3.5.2.3) |
| CCCC | ICAO location indicator of the issuing MWO |
| - | Mandatory hyphen to separate the preamble from the text |

Table 4: Elements making up the first line of SIGMET

3.5.2.2. The numbering of SIGMETs starts every day at 0001 UTC. The sequence number should consist of up to three symbols and may be a combination of letters and numbers, such as:

- **1, 2, ...**
- **01, 02, ...**
- **A01, A02, ...**

Examples:

RPMM SIGMET 3 VALID 121100/121700 RPLL-

WSJC SIGMET A04 VALID 202230/210430 WSSS-

Note 1. — No other combinations should be used, like “CHARLIE 05” or “NR7”.

Note 2. — Correct numbering of SIGMET is very important since the number is used for reference in communication between ATC and pilots and in VOLMET and D-VOLMET.

Note 3. — In accordance with Annex 5 – Units of Measurement to be Used in Air and Ground Operations, when the validity period ends at midnight, YY should be set for the following day and GGgg should be '0000'. i.e. SIGMET validity ending at midnight on the 23rd day of the month should be expressed as '240000'.

3.5.2.3. The following regulations apply when determining the validity period:

- The period of validity of a **WS** SIGMET should be not more than 4 hours;
- The period of validity of a **WC** or **WV** SIGMET should be not more than 6 hours;
- In case of a SIGMET for an observed phenomenon, the filing time (date/time group in the WMO header) should be the same or very close to the time in the date/time group indicating the start of the SIGMET validity period;
- When the SIGMET is issued for a forecast phenomenon:
 - o the beginning of validity period should be the time of the expected commencement (occurrence) of the phenomenon in the MWO area of responsibility;
 - o the time of issuance of a **WS** SIGMET should be not more than 4 hours before the start of validity period (i.e., expected time of occurrence of the phenomenon); and for **WC** (tropical cyclone) and **WV** (volcanic ash) SIGMET the lead time should be not more than 12 hours.

3.5.2.4. The period of validity is that period during which the SIGMET information is valid for transmission to aircraft in flight.

Examples:

1) First two lines of a SIGMET for an observed phenomenon:

```
WSTH31 VTBS 241120
VTBB SIGMET 3 VALID 241120/241500 VTBS-
```

2) First two lines of a SIGMET for a forecast phenomenon (expected time of occurrence 1530)

```
WSSR20 WSSS 311130
WSJC SIGMET 1 VALID 311530/311930 WSSS-
```

3.5.3. Structure of the meteorological part of SIGMET for weather phenomena other than for volcanic ash and tropical cyclone

3.5.3.1. The meteorological part of a SIGMET for weather phenomena consists of elements as shown in the table below.

Start of the second line of the message

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------------|-------------------------------|----------------------|-------------|-------------|-------------------------------|----------------------|-------------------|
| Name of the FIR/UIR or CTA | Description of the phenomenon | Observed or forecast | Location | Level | Movement or expected movement | Changes in intensity | Forecast position |
| See 3.5.3.2 | See 3.5.3.3 | See 3.5.3.4 | See 3.5.3.5 | See 3.5.3.6 | See 3.5.3.7 | See 3.5.3.8 | See 3.5.3.9 |

Table 5: Elements making up the meteorological part of SIGMET

3.5.3.2. Name of the FIR/UIR or CTA

CCCC <name> FIR [/UIR]

or

CCCC <name> CTA

The ICAO location indicator and the name of the FIR/CTA are given followed by the appropriate abbreviation: FIR, FIR/UIR or CTA. The name may consist of up to 10 characters.

Examples:

VTBB BANGKOK FIR

3.5.3.3. Phenomenon

The phenomenon description consists of a qualifier and a phenomenon abbreviation. SIGMET should be issued only for the following phenomena observed or forecast at cruising levels (irrespective of altitude):

- thunderstorms – if they are **OBSC**, **EMBD**, **FRQ** or **SQL** with or without hail (**GR**);
- turbulence – only **SEV**
- icing – only **SEV** with or without **FZRA**
- mountain waves – only **SEV**
- dust storm – only **HVY**
- sand storm – only **HVY**
- radioactive cloud – **RDOACT CLD**

The appropriate abbreviations and combinations, and their meaning are given in Table 1.

3.5.3.4. Indication whether the phenomenon is observed or forecast

OBS

or

OBS AT GGggZ

or

FCST

or

FCST AT GGggZ

The indication whether the phenomenon is observed or forecast is given by using the abbreviations **OBS** or **FCST**. **OBS AT** and **FCST AT** may be used, in which case they are followed by a time group in the form **GGggZ**. If the phenomena is observed, **GGgg** is the time of the observation in hours and minutes UTC. If the exact time of the observation is not known the time is not included. When the

phenomena is based on a forecast without a reported observation, the time given for **GGggZ** represents the time of commencement of the phenomenon.

Examples:

OBS

OBS AT 0140Z

FCST

FCST AT 0200Z

3.5.3.5. Location of the phenomenon

The location of the phenomenon is given with reference to geographical coordinates (latitude and longitude). Latitude and longitude may be reported in degrees, or in degrees and minutes. When reporting in degrees the format will be **Nnn** or **Snn** for latitude, and **Ennn** or **Wnnn** for longitude. When reporting in degrees and minutes the format will be **Nnnnn** or **Snnnn** for latitude, and **Ennnnn** or **Wnnnnn** for longitude. The MWOs should try to be as specific as possible in reporting the location of the phenomenon and, at the same time, to avoid overwhelming the SIGMET with too many coordinates, which may be difficult to process or follow when transmitted by voice radio.

The following are the possible ways to describe the location of the phenomenon:

- 1) An area of the FIR defined by a polygon. . Minimum 4 coordinates¹, and not normally more than 7 coordinates. This is the format preferred operationally by users.

Symbolically, this is indicated as:

WI <Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -

For example:

**WI N6030 E02550 - N6055 E02500 - N6050 E02630 -
N6030 E02550**

WI N60 E025 - N62 E27 - N58 E030 - N59 E26 - N60 E025

Note. — The points of a polygon should be provided in a clockwise order, and the end point should be a repeat of the start point.

¹ Including the last point as a repeat of the first point to explicitly close the polygon

Use of polygons with complex FIR boundaries.

*Annex 3 (18th Edition, July 2013) specifies that the points of a polygon '... should be kept to a minimum and should not normally exceed seven'. However, some FIR boundaries are complex, and it would be unrealistic to expect that a polygon would be defined that followed such boundaries exactly. As such, some States have determined that the polygon points be chosen in relation to the complex boundary such that the FIR boundary approximates, but is wholly encompassed by, the polygon, and that any additional area beyond the FIR boundary be the minimum that can be reasonably and practically described. Caution should however be exercised in those instances where international aerodromes are located in close proximity to such a complex FIR boundary. **Appendix B** provides examples and advice with regard to describing such areas.*

- 2a) In a sector of the FIR defined relative to a specified line joining two points on the FIR boundary².

Symbolically this is indicated as:

<N OF> or <NE OF> or <E OF> or <SE OF> or <S OF> or
<SW OF> or <W OF> or <NW OF> LINE <Nnn [nn]> or
<Snn [nn]> <Wnnn [nn]> or <Ennn [nn]> - <Nnn [nn]> or
<Snn [nn]> <Wnnn [nn]> or <Ennn [nn]>

For example:

NE OF LINE N2500 W08700 - N2000 W08300

W OF LINE N20 E042 - N35 E045

- 2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);

Symbolically this is indicated as:

<N OF> or <S OF> or <Nnn [nn]> or <Snn [nn]> AND
<E OF> or <W OF> <Wnnn [nn]> or <Ennn [nn]>

For example:

N OF N1200 AND E OF W02530

S OF N60 W OF E120

- 2c) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment), where a coordinate of latitude (or longitude) defines a line, and the preceding descriptor defines on which side of the line the phenomena is expected

Symbolically, this is indicated as:

<N OF> or <S OF> <Nnn [nn]> or <Snn [nn]> or
<E OF> or <W OF> <Wnnn [nn]> or <Ennn [nn]>

² or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point (this is to allow for some small margin of error when judging the coordinates where the specified line would intersect the FIR boundary.

For example:

N OF S2230

W OF E080

- 3) At a specific point within the FIR, indicated by a single coordinate of latitude and longitude.

Symbolically, this is indicated as:

<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] >

For example:

N5530 W02230

S23 E107

More detail on reporting the location of the phenomena is given in the examples provided in **Appendix B** to this guide.

3.5.3.6. Flight level

Symbolically, the options permitted are:

FLnnn
or
SFC/FLnnn
or
SFC/nnnnM
or
SFC/nnnnFT
or
FLnnn/nnn
or
TOP FLnnn
or
ABV FLnnn
or
TOP ABV FLnnn

In more detail, the location or extent of the phenomenon in the vertical is given by one or more of the above methods, as follows:

- 1) reporting at a single flight level

For example: **FL320**

- 2) reporting a layer extending from the surface to a given height in meters or feet

For example: **SFC/3000M** or **SFC/9900FT**

3) reporting a layer extending from a given FL to a higher flight level

For example: **FL250/FL290**

4) reporting a layer where the base is unknown, but the top is given:

For example: **TOP FL350**

5) reporting a layer where the top is unknown, but the base is given:

For example: **ABV FL350**

Additional examples:

EMBD TS ... TOP ABV FL340
SEV TURB ... FL180/210
SEV ICE ... SFC/FL150
SEV MTW ... FL090

3.5.3.7. Movement

Rate of movement is indicated in the following way:

MOV <direction> <speed>KMH [KT]
or
STNR

Direction of movement is given with reference to one of the sixteen points of compass (**N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW**). Speed is given in **KMH** or **KT**. The abbreviation **STNR** is used if no significant movement is expected.

Examples:

MOV NNW 30KMH

MOV E 25KT

STNR

Note. — When also including a forecast position, care should be taken to ensure that the rate of movement and forecast position are consistent.

3.5.3.8. Expected changes in intensity

The expected evolution of the phenomenon's intensity is indicated by one of the following abbreviations:

INTSF
or
WKN
or
NC

3.5.3.9. Forecast position of the hazardous phenomena at the end of the validity period of the SIGMET message

Note. — Annex 3 (18th Edition, July 2013) enables SIGMET to contain explicit forecast position information relating to hazardous phenomena other than volcanic ash or tropical cyclone.

FCST <GGgg>Z

FCST is mandatory for this section. The **GGggZ** group should indicate the end of validity period as given in the first line of the SIGMET message.

Note. — In accordance with Annex 5 – Units of Measurement to be Used in Air and Ground Operations, when the validity period ends at midnight, *YY* should be set for the following day and *GGgg* should be '0000'. i.e. SIGMET validity ending at midnight on the 23rd day of the month should be expressed as '240000'.

The forecast position of the phenomenon is given with reference to geographical coordinates (latitude and longitude). Latitude and longitude may be reported in degrees, or in degrees and minutes. When reporting in degrees the format will be **Nnn** or **Snn** for latitude, and **Ennn** or **Wnnn** for longitude. When reporting in degrees and minutes the format will be **Nnnnn** or **Snnnn** for latitude, and **Ennnnn** or **Wnnnnn** for longitude. The MWOs should try to be as specific as possible in reporting the location of the phenomenon and, at the same time, to avoid overwhelming the SIGMET with too many coordinates, which may be difficult to process or follow when transmitted via voice radio.

The following are the possible ways to describe the forecast position of the phenomenon:

- 1) An area of the FIR defined by a polygon. Minimum 4³ coordinates, and not normally more than 7 coordinates. This is the format preferred operationally by users.

Symbolically, this is indicated as:

WI <Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] >

For example:

**WI N6030 E02550 - N6055 E02500 - N6050 E02630 -
N6030 E02550**

WI N60 E025 - N62 E27 - N58 E030 - N59 E26 - N60 E025

Note. — The points of a polygon should be provided in a clockwise order, and the end point should be a repeat of the start point.

³ Including the last point as a repeat of the first point to explicitly close the polygon

- 2a) In a sector of the FIR defined relative to specified line joining two points on the FIR boundary⁴.

Symbolically, this is indicated as:

<N OF> or <NE OF> or <E OF> or <SE OF> or <S OF> or
<SW OF> or <W OF> or <NW OF> LINE <Nnn [nn]> or
<Snn [nn]> <Wnnn [nn]> or <Ennn [nn]> - <Nnn [nn]> or
<Snn [nn]> <Wnnn [nn]> or <Ennn [nn]>

For example:

NE OF LINE N2500 W08700 - N2000 W08300

W OF LINE N20 E042 - N35 E045

- 2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);

Symbolically this is indicated as:

<N OF> or <S OF> or <Nnn [nn]> or <Snn [nn]> AND <E OF>
or <W OF> <Wnnn [nn]> or <Ennn [nn]>

For example:

N OF N1200 AND E OF W02530

S OF N60 W OF E120

- 2b) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment), where a coordinate of latitude (or longitude) defines a line, and the preceding descriptor defines on which side of the line the phenomena is expected

Symbolically, this is indicated as:

<N OF> or <S OF> <Nnn [nn]> or <Snn [nn]> or
<E OF> or <W OF> <Wnnn [nn]> or <Ennn [nn]>

For example:

N OF S2230

W OF E080

- 3) At a specific point within the FIR, indicated by a single coordinate of latitude and longitude.

Symbolically this is indicated as:

⁴ or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point (this is to allow for some small margin of error when judging the coordinates where the specified line would intersect the FIR boundary).

<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
 <Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] >

For example:

N5530 W02230

S23 E107

More details on reporting the location of the phenomenon are given in the examples in **Appendix B** to this guide.

Note. — Currently, there is no provision for indicating changes to the levels affected by phenomena between the initial position and the forecast position. As such, and as per footnote 31 to Table A6-1 of Annex 3 (18th Edition, July 2013), it should be assumed that the levels affected remain the same for both initial and forecast positions.

3.5.4. Structure of the meteorological part of SIGMET for volcanic ash

3.5.4.1. The general structure of the meteorological part of the SIGMET message for volcanic ash is given in the table below.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------------|--|---------------------------------|-------------|--|-------------------------------|----------------------|-------------------|
| Name of the FIR/UIR or CTA | Name and location of the volcano and/or indicator for VA cloud | Time of observation or forecast | Location | Level and extent of the volcanic ash cloud | Movement or expected movement | Changes in intensity | Forecast position |
| See 3.5.4.2 | See 3.5.4.3 | See 3.5.4.4 | See 3.5.4.5 | See 3.5.4.6 | See 3.5.4.7 | See 3.5.4.8 | See 3.5.4.9 |

Table 6: Elements making up the meteorological part of VA SIGMET

3.5.4.2. Name of the FIR/UIR or CTA

CCCC <name> FIR [/UIR]

or

CCCC <name> CTA

The ICAO location indicator and the name of the FIR/CTA are given followed by the appropriate abbreviation: FIR, FIR/UIR or CTA. The name may consist of up to 10 characters.

Examples:

VTBB BANGKOK FIR

3.5.4.3. Name and location of the volcano and/or indicator for VA cloud

There are three combinations that may be used in this section.

1) If the location of the eruption is known but is un-named then the following format is appropriate:

VA ERUPTION PSN <lat,lon> VA CLD

Where 'VA ERUPTION' is mandatory. 'PSN' is an abbreviation for 'position', followed by the latitude and longitude, followed by the mandatory 'VA CLD'.

- 2) If the erupting volcano is known and named then the following format is appropriate:

VA ERUPTION MT ASHVAL PSN <lat,lon> VA CLD

Where 'VA ERUPTION' is mandatory. 'MT' is an abbreviation for 'mountain' to be followed by the volcano's name. 'PSN' is an abbreviation for 'position', followed by the latitude and longitude, followed by the mandatory 'VA CLD'.

- 3) If the source of the volcanic ash is uncertain, then the following format is appropriate:

VA CLD

The location (latitude and longitude) of the volcano, when known and reported, may be reported in degrees, or in degrees and minutes. When reporting in degrees the format will be **Nnn** or **Snn** for latitude, and **Ennn** or **Wnnn** for longitude. When reporting in degrees and minutes the format will be **Nnnnn** or **Snnnn** for latitude, and **Ennnnn** or **Wnnnnn** for longitude.

For example:

VA ERUPTION PSN N27 W017 VA CLD

VA ERUPTION MT ASHVAL PSN S1530 E07315 VA CLD

3.5.4.4. Time of observation or forecast

OBS AT <GGgg>Z

or

FCST AT <GGgg>Z

The time of observation is taken from the source of the observation – satellite image, special air-report, report from a volcano observing station, etc. If the VA cloud is not yet observed over the FIR but the volcanic ash advisory received from the responsible VAAC indicates that the cloud is going to affect the FIR within the next 12 hrs, SIGMET should be issued according as above and the abbreviation **FCST AT <GGgg>Z** should be used.

Examples:

OBS AT 0100Z

FCST AT 1200Z

3.5.4.5. Location of the phenomenon

The location of the phenomenon is given with reference to geographical coordinates (latitude and longitude). Latitude and longitude may be reported in degrees, or in degrees and minutes. When reporting in degrees the format will be **Nnn** or **Snn** for latitude, and **Ennn** or **Wnnn** for longitude. When reporting in degrees and minutes the format will be **Nnnnn** or **Snnnn** for latitude, and

Ennnnn or **Wnnnnn** for longitude. The MWOs should try to be as specific as possible in reporting the location of the phenomenon and, at the same time, to avoid overwhelming the SIGMET with too many coordinates, which may be difficult to process or follow when transmitted by voice communication.

The following are the possible ways to describe the location of the VA phenomenon:

- 1) An area of the FIR defined by a polygon. Minimum 4 coordinates⁵, and not normally more than 7 coordinates. This is the format preferred operationally by users.

Symbolically, this is indicated as:

```

WI <Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] > -
<Nnn [nn] > or <Snn [nn] > <Wnnn [nn] > or <Ennn [nn] >

```

For example:

```

WI N6030 E02550 - N6055 E02500 - N6050 E02630 -
N6030 E02550

```

```

WI N60 E025 - N62 E27 - N58 E030 - N59 E26 - N60 E025

```

Note. — The points of a polygon should be provided in a clockwise order, and the end point should be a repeat of the start point.

Use of polygons with complex FIR boundaries.

Annex 3 (18th Edition, July 2013) specifies that the points of a polygon '... should be kept to a minimum and should not normally exceed seven'. However, some FIR boundaries are complex, and it would be unrealistic to expect that a polygon would be defined that followed such boundaries exactly. As such, some States have determined that the polygon points be chosen in relation to the complex boundary such that the FIR boundary approximates, but is wholly encompassed by, the polygon, and that any additional area beyond the FIR boundary be the minimum that can be reasonably and practically described. Caution should however be exercised in those instances where international aerodromes are located in close proximity to such a complex FIR boundary. Appendix B provides examples and advice with regard to describing such areas.

- 2) Covering the entire FIR or CTA (this is only permitted for volcanic ash)

ENTIRE FIR

or

ENTIRE CTA

For describing an area of volcanic ash by reference to a zone defined by line of specified width, see the 'Level and extent' section that follows.

⁵ Including the last point as a repeat of the first point to explicitly close the polygon

3.5.4.6. Level and extent of the volcanic ash cloud

When the Location of volcanic ash is described using the available descriptors in the 'Location section', the Level of the volcanic ash may be described using descriptors used for other phenomena, i.e.

FLnnn
or
SFC/FLnnn
or
SFC/nnnnM
or
SFC/nnnnFT
or
FLnnn/nnn
or
TOP FLnnn
or
ABV FLnnn
or
TOP ABV FLnnn

In more detail, the location or extent of the phenomenon in the vertical is given by one or more of the above methods, as follows:

- 1) reporting at a single flight level
For example:
FL320
- 2) reporting a layer extending from the surface to a given height in meters or feet
For example:
SFC/3000M
SFC/9900FT
- 3) reporting a layer extending from a given FL to a higher flight level
For example:
FL250/FL290
- 4) reporting a layer where the base is unknown, but the top is given:
For example:
TOP FL350
- 5) reporting a layer where the top is unknown, but the base is given:
For example:

ABV FL350

Where it is preferred to describe the area affected by volcanic ash by describing a zone defined by a line of specified width (rather than a polygon), the following level/extent combination should be used:

```
FL<nnn/nnn> <nnn>KM WID LINE BTN [<(lat,lon)P1 -  
(lat,lon)P2 - ... >]  
or  
FL<nnn/nnn> <nnn>NM WID LINE BTN [<(lat,lon)P1 -  
(lat,lon)P2 - ... >]
```

Example:

```
FL150/210 50KM WID LINE BTN S0530 E09300 - N0100 E09530 -  
N1215 E11045 - N1530 E01330
```

If the VA cloud spreads over more than one FIR, separate SIGMETs should be issued by all MWOs whose FIRs are affected. In such a case, the description of the volcanic ash cloud by each MWO should encompass the part of the cloud, which lies over the MWO's area of responsibility. The MWOs should try and keep the description of the volcanic ash clouds consistent by checking the SIGMET messages received from the neighbouring MWOs.

3.5.4.7. Movement or expected movement of the VA cloud

```
MOV <direction> <speed>KMH [KT]  
or  
STNR
```

The direction of movement is given by the abbreviation **MOV** (moving), followed by one of the sixteen points of compass: **N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, and NNW**. The speed of movement is given in **KMH** or **KT**.

Examples:

```
MOV E 35KMH
```

```
MOV SSW 20KT
```

```
STNR
```

Note. — When also including a forecast position, care should be taken to ensure that the rate of movement and forecast position are consistent

3.5.4.8. Expected changes in intensity

The expected evolution of the phenomenon's intensity is indicated by one of the following abbreviations:

```
INTSF  
or  
WKN  
or  
NC
```

3.5.4.9. Forecast position of the Volcanic Ash cloud at the end of the validity period of the SIGMET message

The area affected by a volcanic ash cloud at the end of the validity period can be described in the following ways.

As a polygon, using the following format:

FCST <GGgg>Z VA CLD APRX <(lat,lon)^{P1} - (lat,lon)^{P2} - ... >

Example:

FCST 1800Z VA CLD APRX N6300 W02000 - N6030 W01700 - N5815 W02230 - N6100 W02400 - N6300 W02000...

or, as a line of ash (of specified width in KM) defined by a sequence of coordinates

FCST <GGgg>Z VA CLD APRX nnKM WID LINE BTN <(lat,lon)^{P1} - (lat,lon)^{P2} - ... >

Example:

FCST 1800Z VA CLD APRX 90KM WID LINE BTN S4000 W09000 - S4300 W08500 - S3800 W07500 - S4500 W06000...

or, as a line of ash (of specified width in NM) defined by a sequence of coordinates

FCST <GGgg>Z VA CLD APRX nnNM WID LINE BTN <(lat,lon)^{P1} - (lat,lon)^{P2} - ... >

Example:

FCST 1800Z VA CLD APRX 55NM WID LINE BTN S4000 W09000 - S4300 W08500 - S3800 W07500 - S4500 W06000...

The **GGggZ** group should indicate the end of validity period as given in the first line of the SIGMET message. The description of the expected position of the volcanic ash cloud is given by a number of points forming a simplified geometrical approximation of the cloud.

Note. — Currently, there is no provision for indicating changes to the levels affected by volcanic ash between the initial position and the forecast position. As such, as per footnote 31 to Table A6-1 of Annex 3 (18th Edition, July 2013), it should be assumed that the levels affected remain the same for both initial and forecast positions.

Inclusion of multiple instances of volcanic ash phenomena.

Footnote 26 of Table A6-1 permits the word 'AND' in the 'Forecast position' section "*To be used for [describing] two volcanic ash clouds or two centres of tropical cyclones simultaneously affecting the FIR concerned*".

With regard to the portrayal of complex volcanic ash events (which implies multiple areas of volcanic ash at multiple levels) basic guidance in this regard is provided in Appendix B.

3.5.5. Structure of the meteorological part of SIGMET for tropical cyclone

3.5.5.1. The general structure of the meteorological part of the SIGMET messages for tropical cyclone is given in the table below.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------------|------------------------------|---------------------------------|---------------------------|---|-------------------------------|----------------------|-------------------|
| Name of the FIR/UIR or CTA | Name of the tropical cyclone | Time of observation or forecast | Location of the TC centre | Vertical and horizontal extent of the CB cloud formation around TC centre | Movement or expected movement | Changes in intensity | Forecast position |
| See 3.5.5.2 | See 3.5.5.3 | See 3.5.5.4 | See 3.5.5.5 | See 3.5.5.6 | See 3.5.5.7 | See 3.5.5.8 | See 3.5.5.9 |

Table 7: Elements making up the meteorological part of TC SIGMET

3.5.5.2. Name of the FIR/UIR or CTA

CCCC <name> FIR [/UIR]
or
CCCC <name> CTA

The ICAO location indicator and the name of the FIR/CTA are given followed by the appropriate abbreviation: FIR, FIR/UIR or CTA. The name may consist of up to 10 characters.

Example:

VTBB BANGKOK FIR

3.5.5.3. Name of the tropical cyclone

TC <name> (up to 10 characters, or 'NN' if not named)

The description of the tropical cyclone consists of the abbreviation **TC** followed by the international name of the tropical cyclone given by the corresponding WMO RSMC. If disturbance is expected to become a TC, but is not named at the time the forecast is issued, 'NN' is used for the TC name. .

Examples:

TC GLORIA

TC 04B

TC NN

3.5.5.4. Time of observation or forecast

OBS AT <GGgg>Z
or
FCST AT <GGgg>Z

The time in UTC is given in hours and minutes, followed by the indicator **Z**. Normally, time is taken from the MWO's own observations or from a TC advisory received from the responsible TCAC. If the TC is not yet observed in the FIR but the tropical cyclone advisory received from the responsible TCAC, or any other TC forecast used by the MWO, indicates that the TC is going to affect the FIR within the next 12 hrs, SIGMET should be issued and the abbreviation **FCST AT <GGgg>Z** should be used.

Examples:

OBS AT 2330Z

FCST AT 0900Z

3.5.5.5. Location of the TC centre

<location>

The location of the TC centre is given by its lat/long coordinates in degrees or degrees and minutes.

Example:

N1535 E14230

3.5.5.6. Vertical and horizontal extent of the CB cloud formation around TC centre

CB TOP [ABV or BLW] <FLnnn> WI <nnnKM or nnnNM> OF CENTRE

Examples:

CB TOP ABV FL450 WI 200NM OF CENTRE

CB TOP FL500 WI 250KM OF CENTRE

CB TOP BLW FL550 WI 250NM OF CENTRE

3.5.5.7. Movement or expected movement

MOV <direction> <speed>KMH [KT]

or

STNR

The direction of movement is given by the abbreviation **MOV** (moving), followed by one of the sixteen points of compass: **N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, and NNW**. The speed of movement is given in **KMH** or **KT**.

Examples:

MOV NNW 30KMH

MOV E 25KT

3.5.5.8. Intensity change

The expected change of the intensity of the tropical cyclone is indicated by one of the following abbreviations:

INTSF
or
WKN
or
NC

3.5.5.9. Forecast Position of the TC centre at the end of the validity period of the SIGMET message

FCST <GGgg>Z TC CENTRE <location>

The time given by **GGggZ** should be the same as the end of validity period indicated in the first line of the SIGMET message. Since the period of validity is up to 6 hours (normally, 6 hours), this is a 6-hour forecast of the position of the TC centre.

The forecast position of the TC centre is given by its lat/long coordinates following the general rules of reporting lat/long information provided in the examples in **Appendix B** to this Guide.

Example:

FCST 1200Z TC CENTRE N1430 E12800

Inclusion of multiple instances of Tropical Cyclone phenomena.

Footnote 26 of Table A6-1 permits the word 'AND' in the 'Forecast position' section "*To be used for [describing] two volcanic ash clouds or two centres of tropical cyclones simultaneously affecting the FIR concerned*".

With regard to the portrayal of two tropical cyclones, simple guidance is provided in **Appendix B**.

3.5.6. Cancellation of SIGMET

- 3.5.6.1. Annex 3, 7.1.2 requires that "*SIGMET information shall be cancelled when the phenomena are no longer occurring or are no longer expected to occur in the area*".
- 3.5.6.2. As such, it is mandatory for an MWO to cancel any SIGMET that is currently valid but for which the specified phenomena no longer exists or is expected to exist.
- 3.5.6.3. The cancellation is done by issuing the same type of SIGMET (i.e. WS, WV or WC) with the following structure:
- WMO heading with the same data type designator;
 - First line that contains as period of validity the remaining time of the original period of validity;
 - Second line, which contains the name of the FIR or CTA, the combination CNL SIGMET, followed by the sequence number of the original SIGMET and its original validity period.

3.5.6.4. A cancellation SIGMET should have a unique sequence number, and should follow the format below.

For a SIGMET that is cancelled during its period of validity, the cancellation SIGMET will be of the form:

As an example, an original SIGMET of:

```
YMMM SIGMET A01 VALID 260300/260700 YPRF-  
YMMM MELBOURNE FIR EMBD TS FCST WI 120NM OF S1542 E9530 TOP  
FL450 MOV SW 5KT INTSF=
```

If it were to be cancelled early (i.e. prior to 0700 UTC), then the following would be appropriate:

```
YMMM SIGMET A02 VALID 260600/260700 YPRF-  
YMMM MELBOURNE FIR CNL SIGMET A01 260300/260700=
```

Where:

- the sequence number will be the next incrementing, unique sequence number.
- the validity time will be the time remaining between issuance and the end time of the original SIGMET.
- the sequence number of the original (and to be cancelled) SIGMET shall follow 'CNL SIGMET '.
- the original validity time of the original (and to be cancelled) SIGMET shall be included in the message after the reference to the original SIGMET's sequence number.

For SIGMET for volcanic ash only, the following is permitted:

```
WSAU21 ADRM 202155  
YBBB SIGMET E03 VALID 202155/210000 YPDM-  
YBBB BRISBANE FIR CNL SIGMET E01 202000/210000 VA MOV TO WXYZ  
FIR=
```

Where the FIR (WXYZ in the example) into which the volcanic ash has moved is indicated.

3.5.7. Amendment of SIGMET

3.5.7.1. If it is known that an existing SIGMET no longer accurately describes the existing or expected future evolution of the phenomena a new SIGMET, correctly describing the hazard should be issued, followed immediately by a cancellation of the original, erroneous SIGMET. The new SIGMET should be issued before the cancellation in order to ensure there is always a SIGMET in force and that the cancellation is not mistakenly understood to mean that the hazard has completely dissipated.

Originally issued SIGMET, later determined to no longer be accurate (bold text identifies points that will be changed):

```
WSAU21 ADRM 201855  
YBBB SIGMET E01 VALID 202000/210000 YPDM-  
YBBB BRISBANE FIR SEV TURB FCST WI S1530 E13700 - S1900 E13730  
- S2000 E13130 - S1600 E13500 - S1530 E13700 SFC/FL120 MOV SE  
12KT WKN=
```

Updated SIGMET (bold text identifies points that have been changed):

```
WSAU21 ADRM 202155
YBBB SIGMET E02 VALID 202200/210000 YPDM-
YBBB BRISBANE FIR SEV TURB FCST WI S1530 E13700 - S2000 E13750
- S2045 E13245 - S1600 E13500 - S1530 E13700 SFC/FL120 MOV SE
12KT WKN=
```

Cancellation SIGMET (this cancels the original SIGMET):

```
WSAU21 ADRM 202155
YBBB SIGMET E03 VALID 202155/210000 YPDM-
YBBB BRISBANE FIR CNL SIGMET E01 202000/210000=
```

3.6. Dissemination of SIGMET

- 3.6.1. SIGMET is part of operational meteorological (OPMET) information. According to Annex 3, the telecommunication facilities used for the exchange of the operational meteorological information should be the aeronautical fixed service (AFS).
- 3.6.2. The AFS consists of a terrestrial segment, AFTN or ATN (AMHS), and a satellite segment which comprises the SADIS provided by WAFC London, as well as the Internet-based Secure SADIS FTP and WIFS services provided by WAFC London and WAFC Washington respectively. Note that SIGMET priority indicator is **FF** for flight safety messages (Annex 10, Volume II, 4.4.1.1.3 refers).
- 3.6.3. Currently, AFTN links should be used by the MWOs to send the SIGMET, as follows:
 - to the adjacent MWOs and ACCs⁶ using direct AFTN addressing;
 - when required for VOLMET or D-VOLMET, SIGMET should be sent to the relevant centre providing the VOLMET service;
 - SIGMET should be sent to all regional OPMET Data Banks (RODB);
 - it should be arranged that SIGMET is relayed to the SADIS and WIFS providers for satellite/public internet dissemination, as well as to the WAFCs London and Washington, either through the ROBEX scheme, or directly by the issuing MWO;
 - SIGMET for volcanic ash should be disseminated to the responsible VAAC.
- 3.6.4. Through SADIS and WIFS, SIGMET is disseminated to all authorised users. In this way, SIGMET is available on a global basis, meeting the aeronautical requirements.

— — — — —

⁶ For this dissemination it is required that SIGMET is available at the ACCs for transmission to aircraft in flight for the route ahead up to a distance corresponding to two hours flying time.

APPENDIX A

SIGMET GUIDANCE TABLE: SIMPLIFIED FROM ANNEX 3 TABLE A6-1

Note. — The table below seeks to provide more explicit guidance than that given in Table A6-1 of Annex 3 (18th Edition, July 2013). It does this by removing all references to the AIRMET message and special air-report message elements contained in Table A6-1. The table below simplifies the available options and provides more specific expansion of the symbolic structure of SIGMET messages, with guidance sub-titles where appropriate. It should be noted that Annex 3, Appendix 6, Table A6-1 remains the authoritative reference.

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|---|--|--|
| 1.1 | Location indicator of FIR/CTA (M) ¹ | ICAO location indicator of the ATS unit serving the FIR or CTA to which the SIGMET refers (M) | nnnn | YUCC ² YUDD ² |
| 1.2 | Identification | Message identification and sequence number (M) ³ | n nn nnn | SIGMET 5 SIGMET A3 SIGMET B10 |
| 1.3 | Validity period | Day-time groups indicating the period of validity in UTC (M) | VALID nnnnnn/nnnnnn | VALID 221215/221600 VALID 101520/101800 VALID 252000/260000 VALID 122000/130400 (6 hour validity applicable to TC or VA only) |
| 1.4 | Location indicator of MWO (M) | Location indicator of MWO originating the message with a separating hyphen (M) | nnnn- | YUDO- ² YUSO- ² |
| 1.5 | Name of the FIR/CTA or aircraft identification (M) | Location indicator and name of the FIR/CTA for which the SIGMET is issued (M) | nnnn nnnnnnnnnn FIR nnnn nnnnnnnnnn FIR/UIR nnnn nnnnnnnnnn CTA | YUCC AMSWELL FIR ² YUDD SHANLON FIR/UIR ² YUDD SHANLON FIR ² YUCC AMSWELL CTA |
| 2.1 | Phenomenon (M) ⁴ | Description of phenomenon causing the issuance of SIGMET | OBSC ⁵ TS OBSC ⁵ TSGR ⁶ EMBD ⁷ TS | OBSC TS OBSC TSGR EMBD TS EMBD TSGR |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|--|---|---|
| | | (C) | <p>EMBD⁷ TSGR⁶ FRQ⁸ TS FRQ⁸ TSGR⁶ SQL⁹ TS SQL⁹ TSGR⁶ TC nnnnnnnnnn TC NN¹⁰ SEV TURB¹¹ SEV ICE¹² SEV ICE (FZRA)¹² SEV MTW¹² HVY DS HVY SS</p> <p>VA ERUPTION PSN Nnn[nn] or Snn[nn] Ennn[nn] or Wnnn[nn] VA CLD</p> <p>VA ERUPTION MT nnnnnnnnnn PSN Nnn[nn] or Snn[nn] Ennn[nn] or Wnnn[nn] VA CLD</p> <p>VA CLD</p> <p>RDOACT CLD</p> | <p>FRQ TS FRQ TSGR SQL TS SQL TSGR TC GLORIA TC NN SEV TURB SEV ICE SEV ICE (FZRA) SEV MTW HVY DS HVY SS</p> <p>VA ERUPTION PSN N27 W017 VA CLD VA ERUPTION PSN S1200 E01730 VA CLD</p> <p>VA ERUPTION MT ASHVAL PSN S15 E073 VA CLD VA ERUPTION MT VALASH PSN N2030 E02015 VA CLD</p> <p>VA CLD</p> <p>RDOACT CLD</p> |
| 2.2 | Observed or forecast phenomenon (M) | Indication whether the information is observed and expected to continue, or forecast (M) | <p>OBS OBS AT nnnnZ FCST FCST AT nnnnZ</p> | <p>OBS AT 1210Z OBS FCST AT 1815Z FCST</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|---|--|---|
| 2.3 | Location (C) ¹⁸ | Location (referring to latitude and longitude degrees and minutes)) | <p>1) An area of the FIR defined by a polygon. The end point shall be a repeat of the start point. Minimum 4 coordinates and not normally more than 7 coordinates.</p> <p>WI²⁴ Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> <p><i>or</i></p> <p>2a) In a sector of the FIR defined relative to a specified line joining two points on the FIR boundary. (or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point).</p> <p>[N] [NE] [E] [SE] [S] [SW] [W] [NW] OF [LINE] Nnn[nn] <i>or</i> Snn[nn] Wnnn[nn] <i>or</i> Ennn[nn] - Nnn[nn] <i>or</i> Snn[nn] Wnnn[nn] <i>or</i> Ennn[nn]</p> <p><i>or</i></p> <p>2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);</p> <p>N OF Nnn[nn] AND W OF Wnnn[nn] <i>or</i> N OF Nnn[nn] AND E OF Wnnn[nn] <i>or</i> S OF Nnn[nn] AND W OF Wnnn[nn] <i>or</i> S OF Nnn[nn] AND E OF Wnnn[nn] <i>or</i> N OF Nnn[nn] AND W OF Ennn[nn] <i>or</i> N OF Nnn[nn] AND E OF Ennn[nn] <i>or</i> S OF Nnn[nn] AND W OF Ennn[nn] <i>or</i> S OF Nnn[nn] AND E OF Ennn[nn] <i>or</i></p> <p><i>or</i></p> <p>2c) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment);</p> <p>N OF Nnn[nn] <i>or</i> S OF Nnn[nn] <i>or</i></p> | <p>1) An area of the FIR defined by a polygon. The end point shall be a repeat of the start point. Minimum 4 coordinates (including the last point as a repeat of the first), and not normally more than 7 coordinates.</p> <p>WI N6030 E02550 - N6055 E02500 - N6050 E02630 - N6030 E02550</p> <p>WI N30 W067 - N32 W070 - N35 W068 - N30 W067</p> <p><i>or</i></p> <p>2a) In a sector of the FIR defined relative to a specified line joining two points on the FIR boundary (or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point).</p> <p>NE OF LINE N2515 W08700 - N2000 W08330 S OF LINE S14 E150 - S14 E155</p> <p><i>or</i></p> <p>2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);</p> <p>S OF N3200 AND E OF E02000 S OF S3215 AND W OF E10130 S OF N12 AND W OF E040 N OF N35 AND E OF E078</p> <p><i>or</i></p> <p>2c) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment);</p> <p>N OF S2230 S OF S43</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|---|--|--|
| | | | <p>N OF Snn [nn] <i>or</i> S OF Snn [nn] <i>or</i> W OF Wnnn [nn] <i>or</i> E OF Wnnn [nn] <i>or</i> W OF Ennn [nn] <i>or</i> E OF Ennn [nn]</p> <p><i>or</i></p> <p>3) At a specific point within the FIR;</p> <p>Nnn [nn] Wnnn [nn] <i>or</i> Nnn [nn] Ennn [nn] <i>or</i> Snn [nn] Wnnn [nn] <i>or</i> Snn [nn] Ennn [nn]</p> <p><i>or</i></p> <p>4) A reference to the whole FIR/CTA</p> <p>ENTIRE FIR²¹ ENTIRE CTA²¹</p> | <p>E OF E01700 E OF W005</p> <p><i>or</i></p> <p>3) At a specific point within the FIR;</p> <p>N5530 W02230 S12 E177</p> <p><i>or</i></p> <p>4) A reference to the whole FIR/CTA</p> <p>ENTIRE FIR ENTIRE CTA</p> |
| 2.4 | Level (C) ¹⁸ | Flight level or altitude and extent (C) ¹⁹ | <p>1) Generic height/range descriptors to be used when 'Location' descriptors above are used.</p> <p>FLnnn SFC/FLnnn SFC/nnnnM SFC/nnnnFT FLnnn/nnn TOP FLnnn ABV FLnnn TOP ABV FLnnn</p> <p><i>or</i>²⁰</p> <p>2) Radius from TC centre from which CB related to Tropical Cyclone ONLY may be expected.</p> <p>CB TOP FLnnn WI nnn{KM/NM} OF CENTRE CB TOP ABV FLnnn WI nnn{KM/NM} OF CENTRE</p> | <p>1) Generic height/range descriptors.</p> <p>FL180 SFC/FL070 SFC/9000FT FL050/080 FL310/450 TOP FL390 ABV FL280 TOP ABV FL100</p> <p><i>or</i>²⁰</p> <p>2) Radius from TC centre from which CB related to Tropical Cyclone ONLY may be expected.</p> <p>CB TOP FL500 WI 270KM OF CENTRE CB TOP FL500 WI 150NM OF CENTRE</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|---|---|---|
| | | | <p>CB TOP BLW FLnnn WI nnn{KM/NM} OF CENTRE</p> <p><i>or</i>²¹</p> <p>3) Zone defined by a line of specified width within which volcanic ash is expected.</p> <p>FLnnn/nnn nnKM WID LINE²² BTN Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> <p><i>or</i></p> <p>FLnnn/nnn nnNM WID LINE²² BTN Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> | <p>CB TOP ABV FL450 WI 250KM OF CENTRE CB TOP BLW FL530 WI 150NM OF CENTRE</p> <p><i>or</i>²¹</p> <p>3c) Zone defined by a line of specified width within which volcanic ash is expected.</p> <p>FL310/450 100KM WID LIN BTN S4330 E02200 - N4315 E02230 - N4230 E02300 - N4145 E02230 - N4130 E02145</p> <p><i>or</i></p> <p>FL310/450 60NM WID LIN BTN S4330 E02200 - N4315 E02230 - N4230 E02300 - N4145 E02230 - N4130 E02145</p> |
| 2.5 | Movement <i>or</i> expected movement (C) ¹⁸ | Movement <i>or</i> expected movement (direction and speed) with reference to one of the sixteen points of compass, <i>or</i> stationary (C) | <p>MOV [N] [NNE] [NE] [ENE] [E] [ESE] [SE] [SSE] [S] [SSW] [SW] [WSW] [W] [WNW] [NW] [NNW] nnKMH</p> <p><i>or</i></p> <p>MOV [N] [NNE] [NE] [ENE] [E] [ESE] [SE] [SSE] [S] [SSW] [SW] [WSW] [W] [WNW] [NW] [NNW] nnKT</p> <p><i>or</i></p> <p>STNR</p> | <p>MOV E 40KMH MOV E 20KT MOV SE STNR</p> |
| 2.6 | Changes in intensity (C) ¹⁸ | Expected changes in intensity (C) | <p>INTSF</p> <p><i>or</i></p> <p>WKN</p> <p><i>or</i></p> <p>NC</p> | <p>WKN INTSF NC</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|--|---|--|
| 2.7 | Forecast position (C) ^{18, 19, 28} | Forecast position of volcanic ash cloud or the centre of the TC or other hazardous phenomena ²⁵ at the end of the validity period of the SIGMET message (C) | <p>1a) Specific to Tropical Cyclone only.</p> <p>FCST nnnnZ TC CENTRE Nnnnn or Snnnn Ennnnn or Wnnnnn FCST nnnnZ TC CENTRE Nnn or Snn Ennn or Wnnn</p> <p>[AND]²³</p> <p>or</p> <p>2a) Specific to Volcanic Ash only: A polygon defining an ash cloud. The end point shall be a repeat of the start point. Minimum 4 coordinates and not normally more than 7 coordinates.</p> <p>FCST nnnnZ VA CLD APRX Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> <p>or</p> <p>2b) Specific to VA only: A zone, defined by a line of specified width, defining an ash cloud.</p> <p>FCST nnnnZ VA CLD APRX nnKM (nnNM) WID LINE²² BTN Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> <p>[AND]²³</p> <p>or</p> <p>2c) affecting entire FIR or CTA</p> <p>FCST nnnnZ ENTIRE FIR²¹</p> <p>or</p> <p>FCST nnnnZ ENTIRE CTA²¹</p> | <p>1a) Specific to Tropical Cyclone only.</p> <p>FCST 2200Z TC CENTRE N2740 W07345 FCST 1600Z TC CENTRE S15 W110</p> <p>or</p> <p>2a) Specific to Volcanic Ash only: A polygon defining an ash cloud. The end point shall be a repeat of the start point. Minimum 4 coordinates and not normally more than 7 coordinates.</p> <p>FCST 1700Z VA CLD APRX S15 E075 - S15 E081 - S17 E083 - S18 E079 - S15 E075</p> <p>or</p> <p>2b) Specific to VA only: A zone defined by a line of specified width, defining an ash cloud.</p> <p>FCST 1700Z VA CLD APRX 180KM WID LINE BTN S15 E075 - S15 E081 - S17 E083 - S18 E079</p> <p>FCST 1700Z VA CLD APRX 90NM WID LINE BTN S15 E075 - S15 E081 - S17 E083 - S18 E079</p> <p>or</p> <p>2c) affecting entire FIR or CTA</p> <p>FCST 1400Z ENTIRE FIR²¹</p> <p>or</p> <p>FCST 0300Z ENTIRE CTA²¹</p> <p>or</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|------------------|---|---|
| | | | <p><i>or</i></p> <p>3a) Specific to hazards other than TC or VA, an area of the FIR defined by a polygon. The end point shall be a repeat of the start point. Minimum 4 (including the last point being a repeat of the first point) coordinates, and not normally more than 7 coordinates.</p> <p>FCST nnnnZ WI²⁴ Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] [- Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn] - Nnn[nn] or Snn[nn] Wnnn[nn] or Ennn[nn]]</p> <p><i>or</i></p> <p>3b) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to specified line joining two points on the FIR boundary (or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point).</p> <p>FCST nnnnZ [N][NE][E][SE][S][SW][W][NW] OF [LINE] Nnn[nn] <i>or</i> Snn[nn] Wnnn[nn] <i>or</i> Ennn[nn] - Nnn[nn] <i>or</i> Snn[nn] Wnnn[nn] <i>or</i> Ennn[nn]</p> <p><i>or</i></p> <p>3c) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);</p> <p>FCST nnnnZ N OF Nnn[nn] AND W OF Wnnn[nn] <i>or</i> FCST nnnnZ N OF Nnn[nn] AND E OF Wnnn[nn] <i>or</i> FCST nnnnZ S OF Nnn[nn] AND W OF Wnnn[nn] <i>or</i> FCST nnnnZ S OF Nnn[nn] AND E OF Wnnn[nn] <i>or</i> FCST nnnnZ N OF Nnn[nn] AND W OF Ennn[nn] <i>or</i> FCST nnnnZ N OF Nnn[nn] AND E OF Ennn[nn] <i>or</i> FCST nnnnZ S OF Nnn[nn] AND W OF Ennn[nn] <i>or</i> FCST nnnnZ S OF Nnn[nn] AND E OF Ennn[nn] <i>or</i></p> | <p>3a) Specific to hazards other than TC or VA, an area of the FIR defined by a polygon. The end point shall be a repeat of the start point. Minimum 4 coordinates (including the last point being a repeat of the first point), and not normally more than 7 coordinates.</p> <p>FCST 1600Z WI N6030 E02550 - N6055 E02500 - N6050 E02630 - N6030 E02550</p> <p>FCST 0800Z WI N30 W067 - N32 W070 - N35 W068 - N30 W067</p> <p><i>or</i></p> <p>3b) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to specified line joining two points on the FIR boundary (or so close to the FIR boundary so as to leave no doubt that the intent is for the line to connect to the FIR boundary at that point).</p> <p>FCST 2100Z NE OF N2500 W08700 - N2000 W08300 FCST 1200Z NE OF LINE N2500 W08700 - N2000 W08300 FCST 1600Z S OF S14 E150 - S14 E155 FCST 2000Z S OF LINE S14 E150 - S14 E155</p> <p><i>or</i></p> <p>3c) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant);</p> <p>FCST 1600Z S OF N3200 AND E OF E02000 FCST 0600Z S OF S3215 AND W OF E10130 FCST 1230Z S OF N12 AND W OF E040 FCST 0300Z N OF N35 AND E OF E078</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|--|---|---|
| | | | <p><i>or</i></p> <p>3d) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment);</p> <p>FCST nnnnZ N OF Nnn [nn] <i>or</i> FCST nnnnZ S OF Nnn [nn] <i>or</i> FCST nnnnZ N OF Snn [nn] <i>or</i> FCST nnnnZ S OF Snn [nn] <i>or</i> FCST nnnnZ W OF Wnnn [nn] <i>or</i> FCST nnnnZ E OF Wnnn [nn] <i>or</i> FCST nnnnZ W OF Ennn [nn] <i>or</i> FCST nnnnZ E OF Ennn [nn]</p> <p><i>or</i></p> <p>3e) Specific to hazards other than TC or VA, at a point:</p> <p>FCST nnnnZ Nnn [nn] Wnnn [nn] <i>or</i> FCST nnnnZ Nnn [nn] Ennn [nn] <i>or</i> FCST nnnnZ Snn [nn] Wnnn [nn] <i>or</i> FCST nnnnZ Snn [nn] Ennn [nn]</p> | <p><i>or</i></p> <p>3d) Specific to hazards other than TC or VA, in a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment);</p> <p>FCST 1600Z N OF S2230 FCST 1130Z S OF S43 FCST 0800Z E OF E01700 FCST 1200Z E OF W005</p> <p><i>or</i></p> <p>3e) Specific to hazards other than TC or VA, at a point:</p> <p>FCST 0800Z N5530 W02230 FCST 1500Z S12 E177</p> |
| | Cancellation of SIGMET (C) ²⁷ | Cancellation of SIGMET referring to its identification | <p>CNL SIGMET n nnnnnn/nnnnnn</p> <p>CNL SIGMET nn nnnnnn/nnnnnn</p> <p>CNL SIGMET nnn nnnnnn/nnnnnn</p> <p><i>or</i></p> <p>CNL SIGMET n nnnnnn/nnnnnn VA MOV TO nnnn FIR²¹</p> | <p>CNL SIGMET 2 102000/110000²⁷</p> <p>CNL SIGMET 12 101200/101600²⁷</p> <p>CNL SIGMET A12 031600/032000²⁷</p> <p>CNL SIGMET 3 251030/251630 VA MOV TO YUDO FIR²⁷</p> |

| Ref No. | Element as specified in Chapter 5 and Appendix 6 | Detailed Content | Expanded symbolic - These 'expanded' symbolic representations of the various SIGMET code elements represent the interpretation of Table A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the guidelines below. | Examples. These examples of various SIGMET code elements represent the interpretation A6-1 of Annex 3. MWOs are encouraged to align their SIGMETs with the examples below. |
|---------|--|------------------|--|--|
| | | | CNL SIGMET nn nnnnnn/nnnnnn VA MOV TO nnnn FIR ²¹ CNL SIGMET nnn 251030/251430 VA MOV TO YUDO FIR ²⁷ | CNL SIGMET 06 191200/191800 VA MOV TO YUDO FIR ²⁷ CNL SIGMET B10 030600/031200 VA MOV TO YUDO FIR ²⁷ |

Table A-1: Expanded SIGMET template

Footnotes to table: (note, the number in brackets at the end of each footnote refers to the footnote reference in Table A6-1 of Annex 3 (18th Edition, July 2013).

1. See 4.1. **“Recommendation.”**— *In cases where the airspace is divided into a flight information region (FIR) and an upper flight information region (UIR), the SIGMET should be identified by the location indicator of the air traffic services unit serving the FIR. Note.— The SIGMET message applies to the whole airspace within the lateral limits of the FIR, i.e. to the FIR and to the UIR. The particular areas and/or flight levels affected by the meteorological phenomena causing the issuance of the SIGMET are given in the text of the message.”* (2)
2. Fictitious location. (3)
3. In accordance with 1.1.3 “The sequence number referred to in the template in Table A6-1 shall correspond with the number of SIGMET messages issued for the flight information region since 0001 UTC on the day concerned. The meteorological watch offices whose area of responsibility encompasses more than one FIR and/or CTA shall issue separate SIGMET messages for each FIR and/or CTA within their area of responsibility.” (4)
4. As per 1.1.4 “In accordance with the template in Table A6-1, only one of the following phenomena shall be included in a SIGMET message, using the abbreviations as indicated below [list of SIGMET phenomena follows]” (7)
5. In accordance with 4.2.1 a) “*obscured (OBSC) if it is obscured by haze or smoke or cannot be readily seen due to darkness*”. (8)
6. In accordance with 4.2.4 “*Hail (GR) should be used as a further description of the thunderstorm, as necessary*” (9)
7. In accordance with 4.2.1 b) “*embedded (EMBD) if it is embedded within cloud layers and cannot be readily recognized*” (10)
8. In accordance with 4.2.2 “An area of thunderstorms should be considered frequent (FRQ) if within that area there is little or no separation between adjacent thunderstorms with a maximum spatial coverage greater than 75 per cent of the area affected, or forecast to be affected, by the phenomenon (at a fixed time or during the period of validity)” (11)
9. In accordance with 4.2.3 “Squall line (SQL) should indicate a thunderstorm along a line with little or no space between individual clouds.” (12)
10. Used for unnamed tropical cyclones. (13)
11. In accordance with 4.2.5 and 4.2.6 “Severe turbulence (TURB) should refer only to: low-level turbulence associated with strong surface winds; rotor streaming; or turbulence whether in cloud or not in cloud (CAT). Turbulence should not be used in connection with convective clouds.” and “Turbulence shall be considered: a) severe whenever the peak value of the cube root of EDR exceeds 0.7” (14)
12. In accordance with 4.2.7 “Severe icing (ICE) should refer to icing in other than convective clouds. Freezing rain (FZRA) should refer to severe icing conditions caused by freezing rain”. (15)
13. In accordance with 4.2.8 “A mountain wave (MTW) should be considered: a) severe whenever an accompanying downdraft of 3.0 m/s (600 ft/min) or more and/or severe turbulence is observed or forecast; and b) moderate whenever an accompanying downdraft of 1.75–3.0 m/s (350–600 ft/min) and/or moderate turbulence is observed or forecast.” (16)
14. In accordance with 2.1.4. (17)
15. In accordance with 4.2.1 c). (18)
16. In accordance with 4.2.1 d). (19)

17. The use of cumulonimbus, CB, and towering cumulus, TCU, is restricted to AIRMETs in accordance with 2.1.4. (20).
18. In the case of the same phenomenon covering more than one area within the FIR, these elements can be repeated, as necessary. (21)
19. Only for SIGMET messages for volcanic ash cloud and tropical cyclones. (22)
20. Only for SIGMET messages for tropical cyclones. (23)
21. Only for SIGMET messages for volcanic ash. (24)
22. A straight line between two points drawn on a map in the Mercator projection or a straight line between two points which crosses lines of longitude at a constant angle. (25)
23. To be used for two volcanic ash clouds or two centres of tropical cyclones simultaneously affecting the FIR concerned. (26)
24. The number of coordinates should be kept to a minimum and should not normally exceed seven. (27)
25. Optionally can be used in addition to Movement or Expected Movement. (28)
26. To be used for hazardous phenomena other than volcanic ash cloud and tropical cyclones. (29)
27. End of the message (as the SIGMET/AIRMET message is being cancelled). (30)
28. The levels of the phenomena remain fixed throughout the forecast period. (31)
29. During any SIGMET test message, no other information should be included after the specified text. (N/A)

APPENDIX B

SIGMET EXAMPLES

Note. — The figures used in this appendix are intended simply to clarify the intent of the SIGMET message in abbreviated plain language, and therefore how each SIGMET should be constructed by MWOs and also interpreted by users. The figures used are not intended to give guidance on how a SIGMET in graphical format should be produced.

Examples of ‘**WS**’ SIGMET. See the sections for SIGMET for volcanic ash only (WV) and SIGMET for tropical cyclone only (WC) for examples specific to those phenomena.

Contents

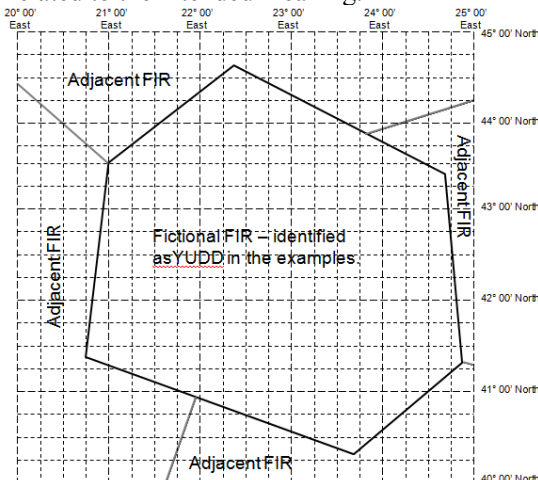
General

- 1) An area of the FIR defined by a polygon.
 Use of polygons with complex FIR boundaries.
- 2a) In a sector of the FIR defined relative to specified line joining two points on the FIR boundary
- 2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant)
- 2c) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment)
- 3) At a specific point within the FIR
- 4) Volcanic Ash SIGMET only
 Multiple areas of in SIGMET for volcanic ash
 Covering entire FIR/CTA
 Multiple areas in SIGMET for tropical cyclone
- 5) Tropical Cyclone SIGMET only

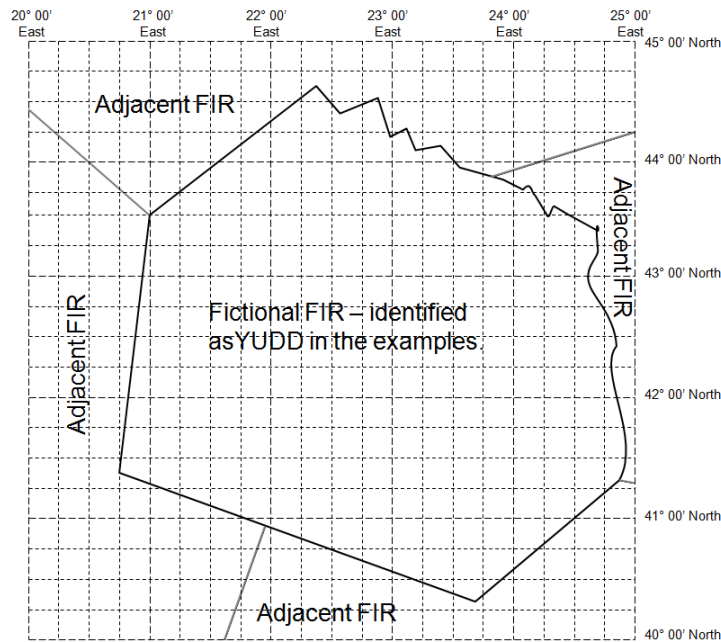
General

Explanation of fictional FIR.

In each of the examples below, a fictional FIR area is indicated, with portions of adjacent FIRs also indicated. The FIR areas are overlaid on a coordinate grid, in order that the example plain language SIGMETs can be explicitly related to the intended meaning.



For some cases, examples are given where the FIR has boundaries that are complex (country borders for example, especially when defined by rivers)



Fictional FIR is used for the examples.

Repetition of start point as last coordinate.

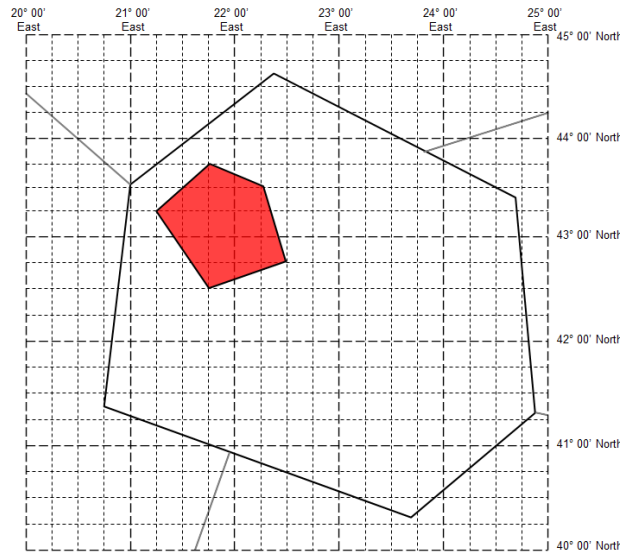
In accordance with practices and procedures laid down for other aeronautical bulletins (i.e. NOTAM), it is recommended that the last point of a polygon is a repeat of the first point of the polygon. This will ensure that the polygon has been closed, and that no points have been omitted.

'Direction' of encoding of the points of a polygon

In accordance with practices and procedures laid down for other aeronautical bulletins and international practice (e.g. BUFR encoding of WAFS significant weather (SIGWX) forecasts), it is recommended that the points of a polygon are provided in a 'clockwise' sense. This assists automated systems in determining the 'inside' of polygons.

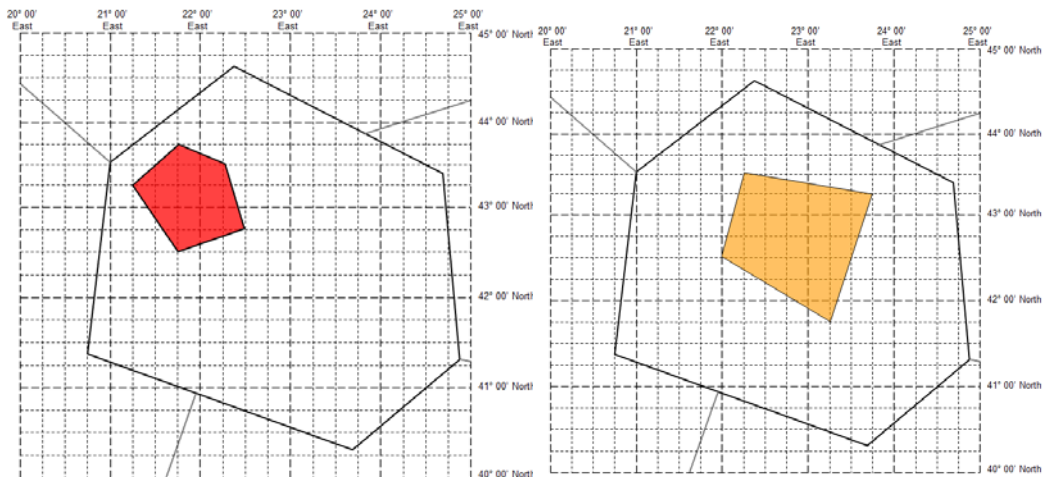
1) An area of the FIR defined by a polygon. The end point should be a repeat of the start point.

When the SIGMET does not include a 'forecast position' section.



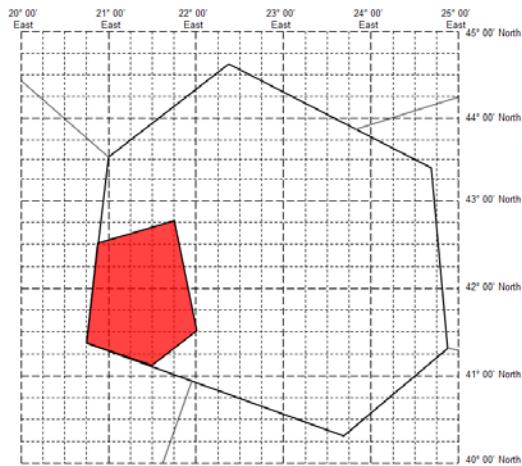
```
YUDD SIGMET 2 VALID 101200/101600 YUSO -  
YUDD SHANLON FIR/UIR SEV TURB FCST WI N4230 E02145 - N4315 E02115 -  
N4345 E02145 - N4330 E02215 - N4245 E02230 - N4230 E02145 FL250/370  
MOV ESE 20KT INTSF=
```

With an explicit forecast position:



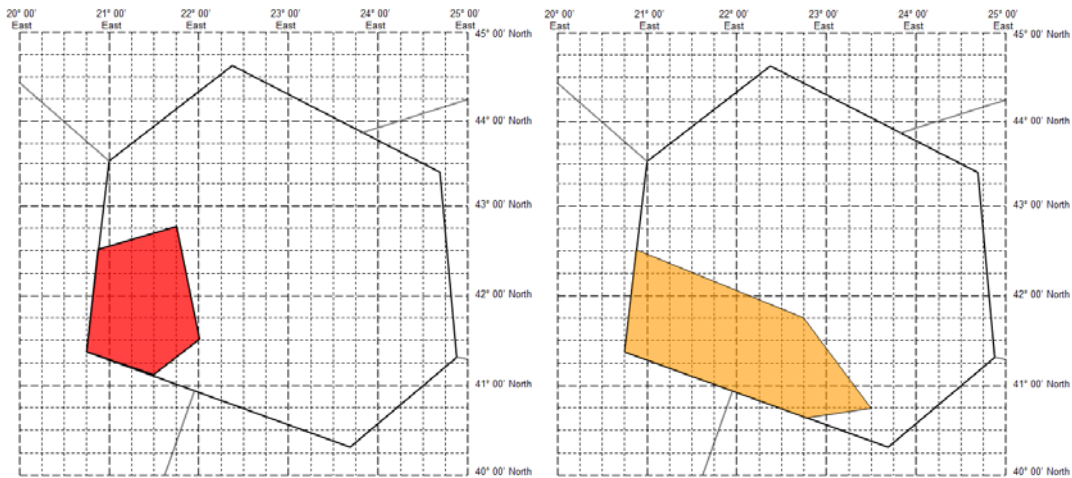
```
YUDD SIGMET 2 VALID 101200/101600 YUSO -  
YUDD SHANLON FIR/UIR SEV TURB FCST WI N4230 E02145 - N4315 E02115 -  
N4345 E02145 - N4330 E02215 - N4245 E02230 - N4230 E02145 FL250/370  
MOV ESE 20KT INTSF FCST 1600Z WI N4145 E02315 - N4230 E02200 - N4330  
E02215 - N4315 E02345 - N4145 E02315=
```


When the SIGMET does not include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST WI N4230 E02052 - N4245 E02145 -
N4130 E02200 - N4107 E02130 - N4123 E2045 - N4230 E02052 FL250/370
MOV SE 30KT WKN=

With an explicit forecast position:



YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST WI N4230 E02052 - N4245 E02145 -
N4130 E02200 - N4107 E02130 - N4123 E02045- N4230 E02052 FL250/370
MOV SE 30KT WKN FCST 1600Z WI N4230 E02052 - N4145 E02245 - N4045
E02330 - N4040 E02248 - N4123 E02045- N4230 E02052 =

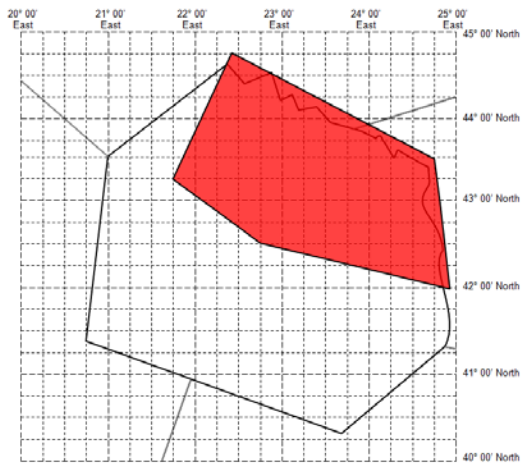
Use of polygons with complex FIR boundaries.

Annex 3 (18th Edition, July 2013) specifies that the points of a polygon '... should be kept to a minimum and should not normally exceed seven'. However, some FIR boundaries are complex, and it would be unrealistic to expect that a polygon would be defined that followed such boundaries exactly. As such, some States have determined that the polygon points be chosen in relation to the complex boundary such that the FIR boundary approximates, but is wholly encompassed by, the polygon, and

that any additional area beyond the FIR boundary be the minimum that can be reasonably and practically described. Caution should however be exercised in those instances where international aerodromes are located in close proximity to such a complex FIR boundary.

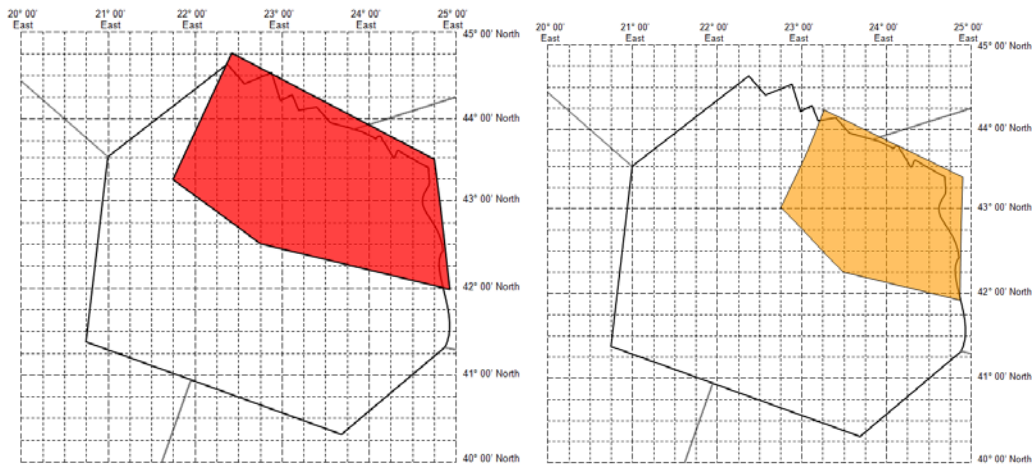
In the examples below, it would not be practical to follow the NE boundaries exactly. The point close to N4330 E02245 is obviously a 'major' turning point along the FIR boundary, but the other, numerous and complex turning points can only be approximated when constrained to seven points.

When the SIGMET does not include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST WI N4315 E02145 - N4445 E02245 -
 N4330 E02445 - N4200 E02455 - N4230 E02245- N4315 E02145 FL250/370
 MOV SE 20KT WKN=

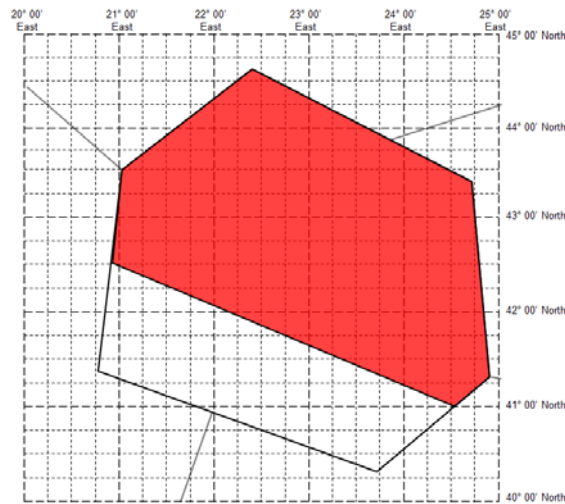
With an explicit forecast position:



YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST WI N4315 E02145 - N4445 E02245 -
 N4330 E02445 - N4200 E02455 - N4230 E02245- N4315 E02145 FL250/370
 MOV SE 20KT WKN FCST 1600Z WI N4300 E02245 - N4415 E02315 - N4322
 E02452 - N4155 E02445 - N4215 E02330- N4300 E02245=

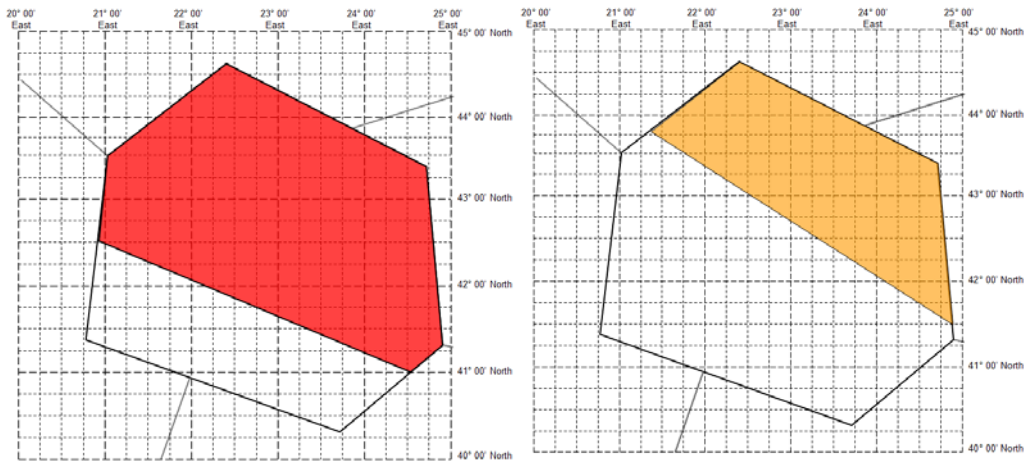
2a) In a sector of the FIR defined relative to specified line joining two points on the FIR boundary.

When the SIGMET does not include a 'forecast position' section.

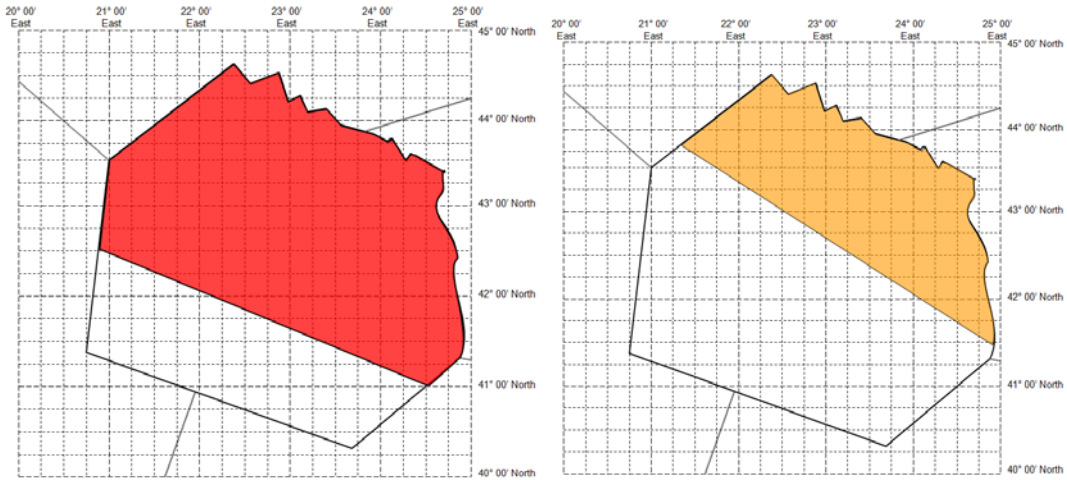


YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST NE OF LINE N4230 E02052 - N4100
E02430 FL250/370 MOV NE 15KT WKN=

With an explicit forecast position:



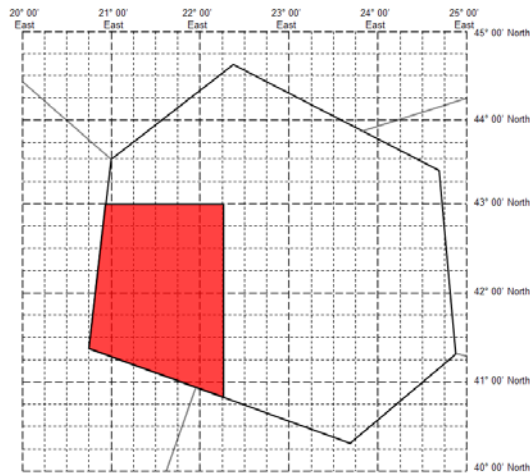
YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST NE OF LINE N4230 E02052 - N4100
E02430 FL250/370 MOV NE 15KT WKN FCST 1600Z NE OF LINE N4346 E02122 -
N4130 E02452=



YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST NE OF LINE N4230 E02052 - N4100
 E02430 FL250/370 MOV NE 15KT WKN FCST 1600Z NE OF LINE N4346 E02122 -
 N4130 E02457=

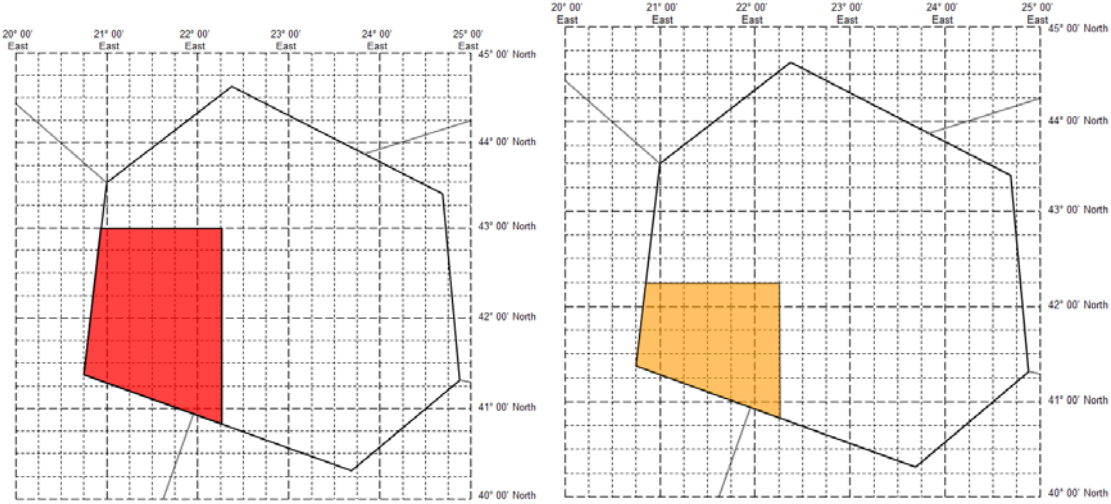
2b) In a sector of the FIR defined relative to a line of latitude and a line of longitude (effectively a quadrant)

When the SIGMET does not include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST S OF N4300 AND W OF E02215
 FL250/370 MOV S 12KT WKN=

When the SIGMET does include a 'forecast position'.

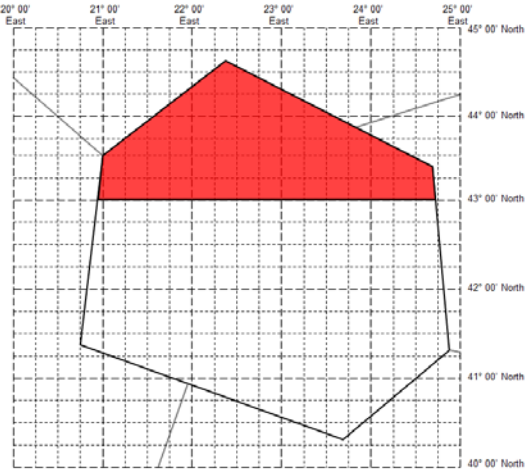


With an explicit forecast position:

YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST S OF N4300 AND W OF E02215
 FL250/370 MOV S 12KT WKN FCST 1600Z S OF 4215 AND W OF E02215=

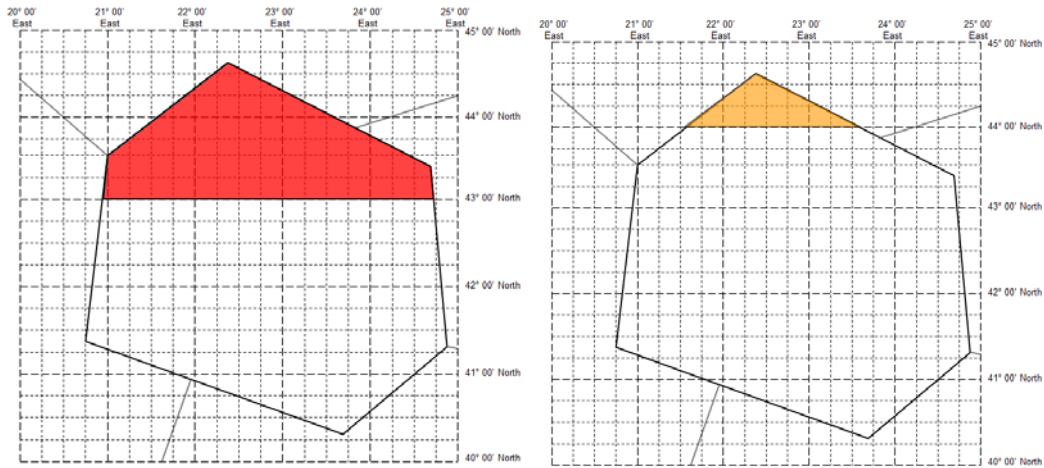
2d) In a sector of the FIR defined relative to a line of latitude or longitude (effectively a segment)

When the SIGMET does not include a 'forecast position' section.

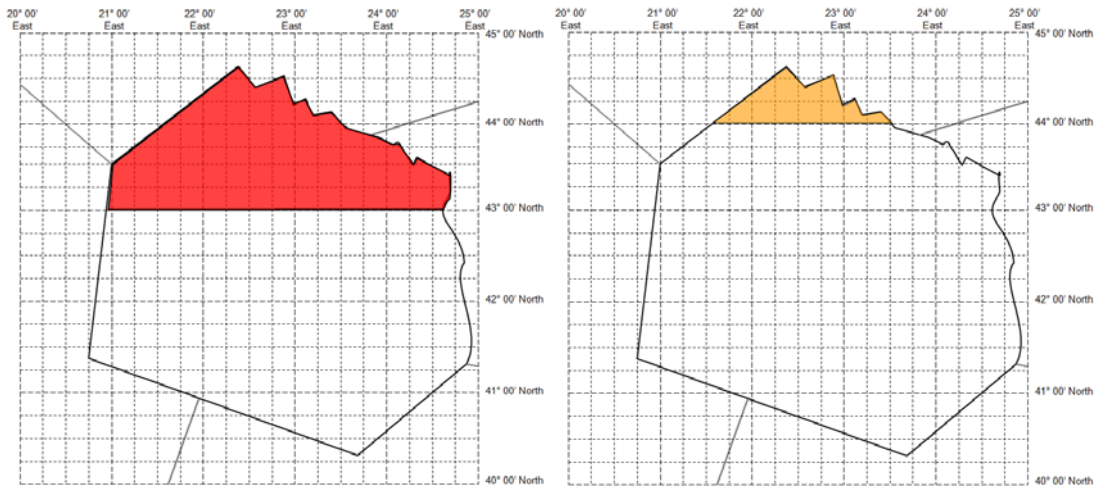


YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST N OF N43 FL250/370 MOV N 15KT WKN=

When the SIGMET does include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST N OF N43⁷ FL250/370 MOV N 15KT WKN
FCST 1600Z N OF N44=



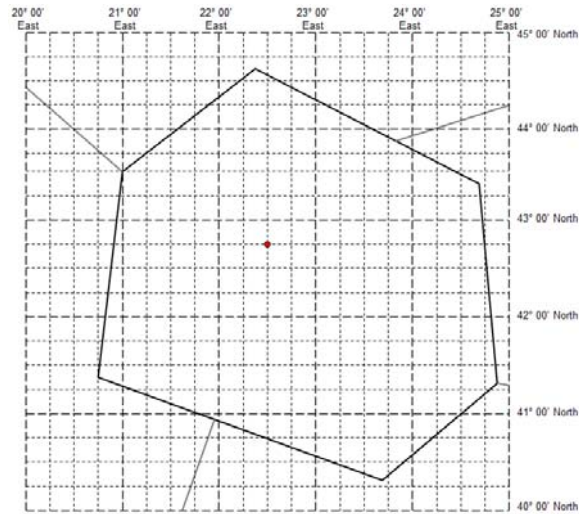
YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB FCST N OF N43⁸ FL250/370 MOV N 15KT WKN
FCST 1600Z N OF N44=

⁷ It would be equally valid to use 'N4300'.

⁸ It would be equally valid to use 'N4300'.

3) At a specific point within the FIR;

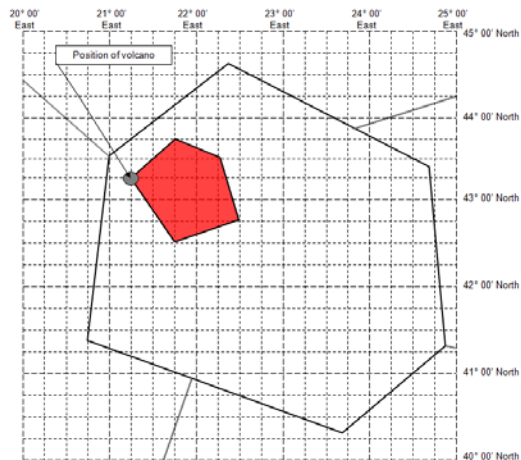
When the SIGMET does not include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR SEV TURB OBS N4245 E02230 FL250/370 STNR WKN=

4) Volcanic Ash SIGMET Only

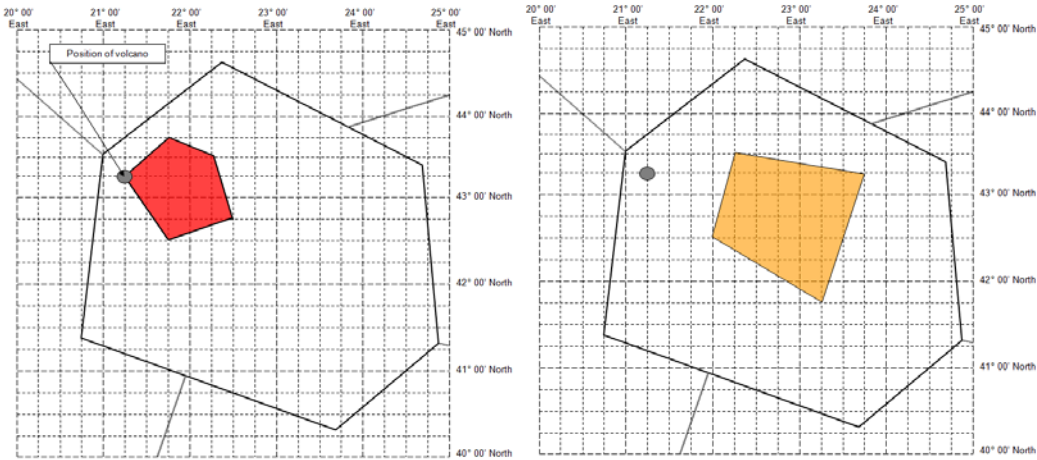
When the VA SIGMET does not include a 'forecast position' section.



YUDD SIGMET 2 VALID 101200/101600 YUSO -
YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4315 E02115 VA CLD
OBS AT 1200Z WI N4315 E02145 - N4345 E02145 - N4230 E02215 - N4245
E02230 - N4230 E02145 - N4315 E02115 FL250/370 MOV ESE 20KT NC=

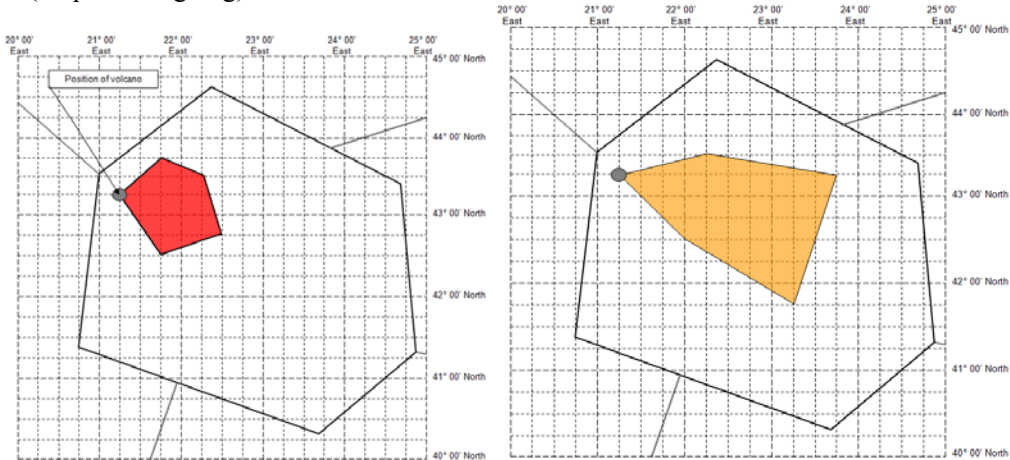
When the SIGMET does include a 'forecast position' section (no rate of movement).

For VA (eruption ceased, ash cloud persists downwind):



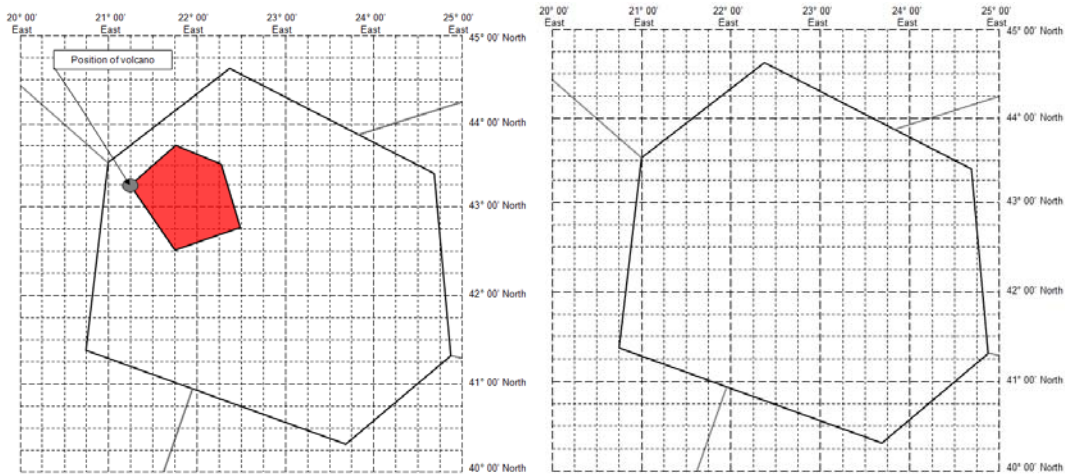
YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4315 E02115 VA CLD
 OBS AT 1200Z WI N4315 E02115 - N4345 E02145 N4330 E02215 - N4245
 E02230 - N4230 E02145 - N4315 E02115 FL250/370 MOV ESE 20KT NC FCST
 1800Z VA CLD APRX N4330 E02215 - N4315 E02345 - N4145 E02315 - N4230
 E02200 - N4330 E02215=

For VA (eruption on-going):



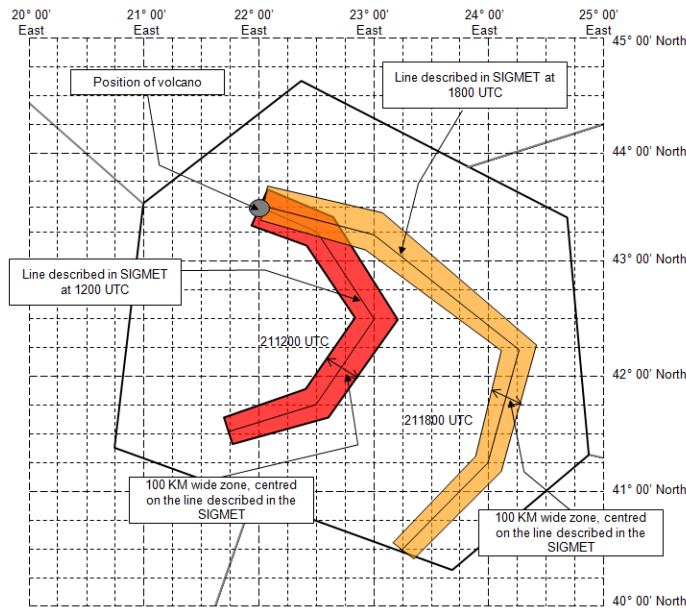
YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4315 E02115 VA CLD
 OBS AT 1200Z WI N4315 E02115 - N4245 E02145 - N4330 E02215 -- N4245
 E02230 - N4230 E02145 - N4315 E2115 FL250/370 MOV ESE 20KT NC FCST
 1800Z VA CLD APRX N4315 E02115 - N4330 E02215 - N4315 E02345 - N4145
 E02315 - N4230 E02200 - N4315 E02115=

For VA (eruption ceasing, ash dispersing):



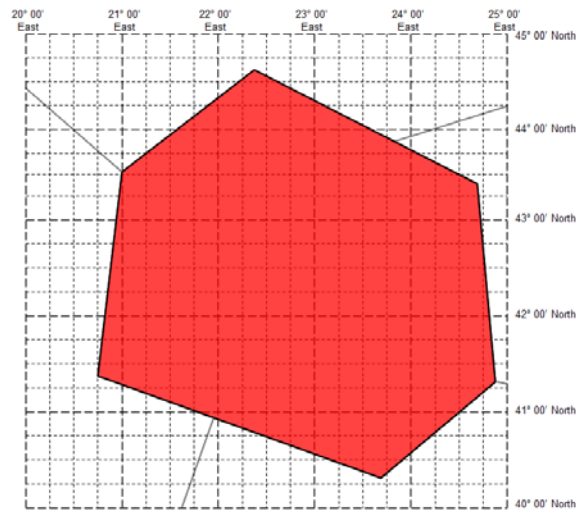
YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4315 E02115 VA CLD
 OBS AT 1200Z WI N4315 E02115 - N4345 E02145 - N4330 E02215 - N4245
 E02130 - N4230 E02145 N4315 E02115 FL250/370 MOV ESE 20KT WKN FCST
 1800Z NO VA EXP=

For VA (eruption on-going), defining the area affected as a line of specified width:



YUDD SIGMET 2 VALID 211200/211800 YUSO -
 YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4330 E02200 VA CLD
 FCST 1200Z FL310/450 100KM WID LINE BTN N4330 E02200 - N4315 E02230 -
 N4230 E02300 - N4145 E02230 - N4130 E02145 NC FCST 1800Z VA CLD APRX
 100KM WID LIN BTN N4330 E02200 - N4315 E02300 - N4215 E02415 - N4115
 E02400 - N4030 E02315=

5) Covering entire FIR (volcanic ash only).

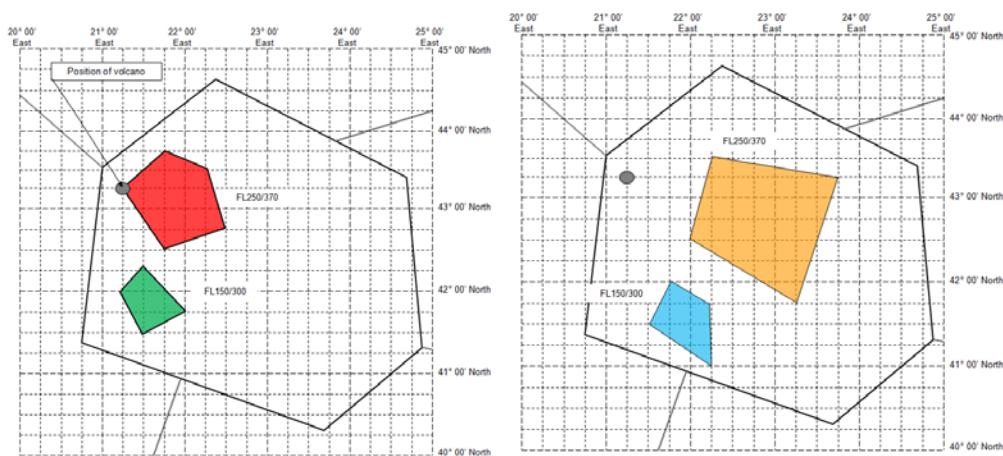


YUDD SIGMET 2 VALID 101200/101600 YUSO -
 YUDD SHANLON FIR/UIR SEV TURB FCST ENTIRE FIR FL250/370 STNR WKN=

Multiple areas in SIGMET for volcanic ash.

Strictly, the only way to include a second instance of a volcanic ash cloud in a SIGMET message is to use the 'AND' option in the 'Forecast position' section.

In the example below, two areas of volcanic ash cloud (at different levels) are forecast to move as described. The normal courier font refers to the northernmost areas of ash, and the italicised font refers to the southernmost areas of ash during the period. 'AND' is highlighted in **bold** to identify the separation of the two features.

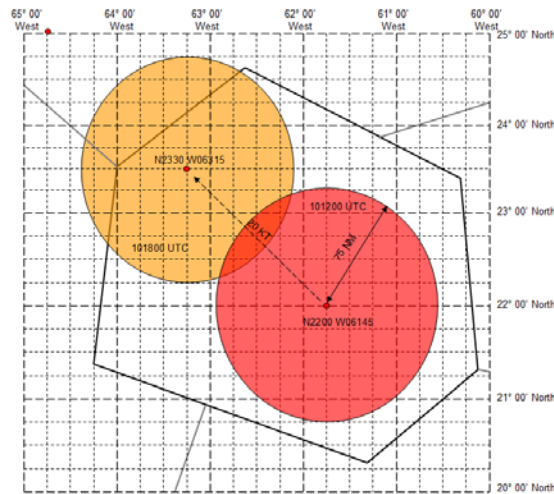


YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR VA ERUPTION MT ASHVAL PSN N4315 E02115 VA CLD
 OBS AT 1200Z WI N4315 E02115 - N4345 E02145 N4330 E02215 - N4245
 E02230 - N4230 E02145 - N4315 E02115 FL250/370 MOV ESE 20KT NC FCST
 1800Z VA CLD APRX N4330 E02215 - N4315 E02345 - N4145 E02315 - N4230
 E02200 - N4330 E02215 **AND** N4200 E02115 - N4217 E02130 - N4145 E02200
 - N4130 E02130 - N4200 E02100 FL150/300 MOV ESE 20KT NC FCST 1800Z VA

CLD APRX N4200 E02145 - N4145 E02215 - N4100 E02215 - N4130 E02130 - N4200 E02145=

The above only works if there are two instances of ash at the start and end of the period. If the number of ash areas is different at the start and end, it is recommended that separate SIGMETs be issued as necessary.

6) Tropical Cyclone SIGMET Only

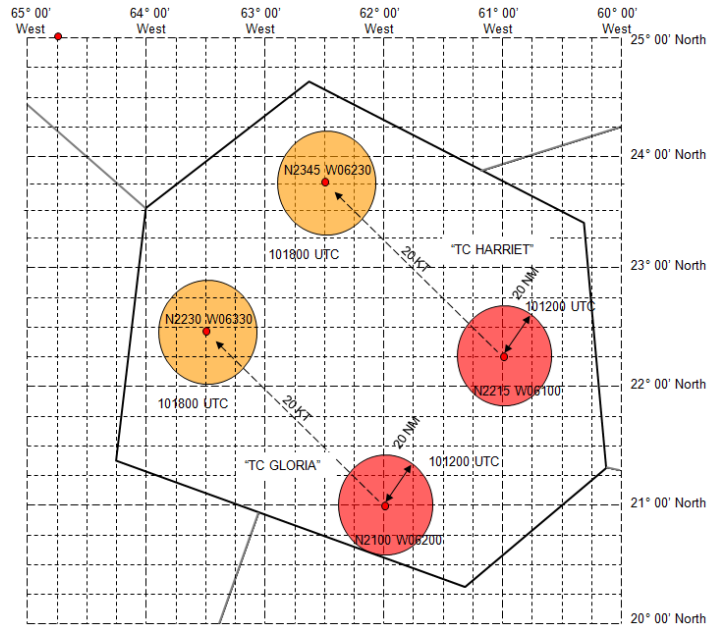


YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR TC GLORIA FCST AT 1200Z N2200 W06145 CB TOP
 FL500 WI 75NM OF CENTRE MOV NW 20KT WKN FCST 1800Z TC CENTRE N2330
 W06315=

Multiple areas in SIGMET for tropical cyclone.

Strictly, the only way to include a second instance of a tropical cyclone in a SIGMET is to use the 'AND' option in the 'Forecast position' section.

The example below demonstrates how two separate TCs, and the CB within a specified radius of those TCs, can be described. The normal courier font refers to TC Gloria, and the italicised font refers to TC Harriet. 'AND' is highlighted in **bold** to identify the separation between information for the two features.



YUDD SIGMET 2 VALID 101200/101800 YUSO -
 YUDD SHANLON FIR/UIR TC GLORIA FCST AT 1200Z N2100 W06200 CB TOP
 FL500 WI 20NM OF CENTRE MOV NW 20KT WKN FCST 1800Z TC CENTRE N2230
 W06330 **AND** TC HARRIET FCST AT 1200Z N2215 W06100 CB TOP FL400 WI 20NM
 OF CENTRE MOV NW 20KT WKN FCST 1800Z TC CENTRE N2345 W06230=

APPENDIX C

SIGMET TEST PROCEDURES

CHAPTER 1 — REGIONAL SIGMET TEST PROCEDURES

1. Introduction

1.1. The Meteorology Divisional Meeting (2002) formulated Recommendation 1/12 b), *Implementation of SIGMET requirements*, which called, *inter alia*, for the relevant planning and implementation regional groups (PIRGs) to conduct periodic tests of the issuance and reception of SIGMET messages, especially those for volcanic ash.

1.2. This document describes the procedures for conducting regional SIGMET tests as described in this document. The test procedures encompass all the three types of SIGMET, as follows:

- SIGMET for volcanic ash (WV SIGMET);
- SIGMET for tropical cyclone (WC SIGMET); and
- SIGMET for other weather phenomena (WS SIGMET).

1.3. The requirements for dissemination of SIGMET are specified in Annex 3, Appendix 6, 1.2 and in this guide <<Insert page reference>>.

1.4. Tropical cyclone and volcanic ash cloud SIGMETs will be referred to hereafter as **WC** SIGMET (due to the **T₁T₂** section of the WMO AHL being set to **WC**) and **WV** SIGMET (due to the **T₁T₂** section of the WMO AHL being set to **WV**) respectively. All other SIGMET types will be referred to by **WS** (due to the **T₁T₂** section of the WMO AHL being set to **WS**).

2. Purpose and scope of regional SIGMET tests

2.1. The purpose of the regional SIGMET tests is to check the awareness of participating MWOs of the ICAO requirements for the issuance of SIGMET and the compliance of the States' procedures for preparation and dissemination of SIGMET bulletins with the relevant ICAO Standards and Recommended Practices (SARPs) and regional procedures.

2.2. Note, an MWO is at liberty to issue SIGMET test messages for local reasons (i.e. testing of local systems/routing etc.). Whilst such tests may not involve other MWOs or agencies directly, it is recommended that the general principles of this guide be followed with regard to local, ad hoc testing.

2.3. Hereafter, references to 'SIGMET tests' or 'tests' should be understood to refer to regional SIGMET tests.

2.4. The scope of the tests is to check also the interaction (where appropriate, depending on regional requirements) between the tropical cyclone advisory centres (TCAC) and volcanic ash advisory centres (VAAC), and the MWOs in their areas of responsibility. Therefore, where the issuance of **WC** and **WV** SIGMET is being tested, the TEST SIGMET messages initiated by the MWO should normally be triggered by a test advisory issued by the respective TCAC or VAAC.

2.5. The regional OPMET data banks (RODB) will monitor the dissemination by filing all TEST SIGMETs and advisories and the corresponding reception times. The monitoring results for **WC**, **WV** and **WS** SIGMET will be provided in the form of summaries to the SIGMET test focal points given in section 3.4.1.3 with a copy to the Regional Office concerned

2.6. A consolidated summary report will be prepared by both the SIGMET test focal points and submitted to the ICAO regional office concerned. The report will include recommendations for improvement of the SIGMET exchange and availability. The results of the tests should be reported to the appropriate regional OPMET bulletin exchange/data management group and MET Sub-group meetings.

2.7. Participating States, for which discrepancies of the procedures or other findings are identified by the tests, will be advised by the ICAO Regional Office and requested to take necessary corrective action.

3. SIGMET test procedures

3.1. Procedures for WC and WV SIGMET tests

3.1.1. Participating units

3.1.1.1. **Tropical Cyclone Advisory Centres (TCAC):**

<<Insert TCACs as necessary>>

3.1.1.2. **Volcanic Ash Advisory Centres (VAAC):**

<<Insert VAACs as necessary>>

3.1.1.3. **Regional OPMET Data Banks (RODB):**

<<Insert RODBs as necessary>>

3.1.1.4. **Meteorological Watch Offices (MWO):**

<<Insert MWOs as necessary>>

3.1.2. WV/WC SIGMET test messages

3.1.2.1. On the specified date for the test <<Time (UTC) to be agreed appropriate to Region>> the participating VAAC and TCAC should issue a TEST VA or TC advisory. The structure of the TEST advisories should follow the standard format given in Annex 3 with indication that it is a test message as shown on pages <<XX-5>>.

3.1.2.2. MWOs, upon receipt of the TEST VA or TC advisory, should issue a TEST SIGMET for volcanic ash (**WV**) or tropical cyclone (**WC**), respectively, and send it to all participating RODBs. The WMO AHL, the first line of the SIGMET, and the FIR reference in the second line of the SIGMET should be valid entries. The remainder of the body of the message should contain only the specified text informing recipients in plain language that the message is a test. TEST SIGMETs should normally have short validity periods (10 minutes), but where appropriate TEST SIGMET may be issued with validity periods up to the maximum allowed (4 hours for **WS**, 6 hours for **WC** and **WV**).

3.1.2.3. If the MWO does not receive the TEST VA or TCA advisory within 30 minutes of the commencement time of the test then they should still issue a TEST SIGMET indicating that the VAA or TCA was not received. See <<XX-6>> for an example of the test message.

3.1.2.4. To avoid over-writing of a valid SIGMET, a TEST SIGMET for VA or TC should not be sent in the case where there is a valid SIGMET of the same type for the MWO's area of responsibility. However, in this case the responsible MWO should notify the WV/WC SIGMET test focal point as given in 3.4.1.3 so that they can be excluded from the analysis.

3.2. Procedures for WS SIGMET tests

Note. — The WS SIGMET is initiated by the MWO at the designated time in 3.2.2. It is not initiated by an advisory as in the WC and WV SIGMET tests.

3.2.1. Participating units

Each Regional Office should develop its own list of participating units, using the template below:

3.2.1.1. **Regional OPMET Data Banks (RODB):**

<<Insert RODBs as necessary>>

3.2.1.2. **Meteorological Watch Offices (MWO):**

<<Insert MWOs as necessary>>

3.2.2. WS SIGMET Test Message

3.2.2.1. The MWOs should issue a TEST SIGMET during the 10-minute period between <<Time (UTC) to be agreed appropriate to Region>>.

3.2.2.2. The WMO AHL, the first line of the SIGMET, and the FIR reference in the second line of the SIGMET should be valid. The remainder of the body of the message should contain only the specified text informing recipients in plain language that the message is a test. TEST SIGMETs should normally have short validity periods (10 minutes), but where appropriate TEST SIGMET may be issued with validity periods up to the maximum allowed (4 hours for **WS**, 6 hours for **WC** and **WV**).

3.3. Common procedures

3.3.1. Special procedure to avoid overwriting of a valid WV/WC/WS SIGMET

3.3.1.1. It is vital to ensure that TEST SIGMET is unique so that it is not confused with operational SIGMET and avoid overwriting a valid operational SIGMET in an automated system. In order to prevent this it is suggested that:

3.3.1.2. Test SIGMETs will use the next normally available sequence number for test SIGMET messages or the first available sequence number of any pre-defined letter assigned to test SIGMETs for those States identifying SIGMETs using an alphanumerical sequence number (ex: T1 or Z99)

For example, a SIGMET test is scheduled for 0200 UTC on the 29th. The TEST SIGMET is issued as follows:

```
WSAU01 YBRF 290200
YBBB SIGMET Z99 VALID 290200/290210 YBRF-
YBBB BRISBANE FIR TEST SIGMET PLEASE DISREGARD=
```

3.3.2. The test date and time

3.3.2.1. ICAO Regional Office will set a date and time for each SIGMET test after consultation with the participating VAACs, TCACs and RODBs. The information about the agreed date and time will be sent to all States concerned by a State letter and copied to the States' SIGMET Tests Focal Points.

3.3.2.2. Tests for different types of SIGMET should preferably be conducted on separate dates.

3.3.2.3. SIGMET tests for **WC**, **WV** and **WS** should be conducted at least yearly.

3.3.3. Dissemination of test SIGMETs and advisories

3.3.3.1. All TEST TC/VA advisories should be sent by the TCACs and VAACs to the participating units, as specified in the Regional Air Navigation Plan. The relevant AFTN addresses should be identified as part of the Region specific documentation.

3.3.3.2. All TEST SIGMETs should be sent by the MWOs to the participating units, as specified in the Regional Air Navigation Plan identified by each Regional Office. The relevant AFTN addresses should be identified as part of the Region specific documentation.

3.3.3.3. RODBs that are nominated as IROGs will relay the test bulletins to their corresponding IROG.

3.3.3.4. SIGMET tests should be terminated within 2 hours of the test start time. Exceptionally, where the test requires SIGMETs to be valid for up to 4 hours, then tests may be extended to a maximum of 4 hours for WS SIGMET and 6 hours for WC and WV SIGMET.

3.3.4. Coordination with the ATS units

3.3.4.1. MWOs should inform the associated ATS units of the forthcoming SIGMET tests by a suitable advanced notice.

3.4. **Processing of the test messages and results**

3.4.1.1. The RODBs should file all incoming TEST advisories and SIGMETs and perform an analysis of the availability, timeliness of arrival and the correctness of the WMO bulletin headings. A SIGMET TEST Summary Table, as shown on page <<XX-7>> of this guide, should be prepared by each RODB and sent to the regional SIGMET test focal point given in section 3.4.3, with a copy to the ICAO Regional Office.

3.4.1.2. The SIGMET test focal points should prepare the final report of the test and present to the ICAO Regional Office. A summary report should be submitted to the next regional OPMET bulletin exchange/data management group and MET Sub-group meetings.

3.4.1.3. The current SIGMET test focal points for the <<Insert region>> Region are as follows:

<<Insert region>> **Region**
<<To be completed as necessary>>

SIGMET TEST PROCEDURES

Format of TEST Advisories and SIGMETs

1. Format of TEST Volcanic Ash Advisory

VA ADVISORY
DTG: YYYMMDD/0200Z
VAAC: <<NAME OF VAAC>>
VOLCANO: TEST
PSN: UNKNOWN
AREA: <<NAME OF VAAC>> VAAC AREA
SUMMIT ELEV: UNKNOWN
ADVISORY NR: YYYY/nn
INFO SOURCE: NIL
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: NIL
OBS VA DTG: DD/GGggZ
OBS VA CLD: ASH NOT IDENTIFIABLE FROM SATELLITE DATA
FCST VA CLD +6 HR: DD/0800Z SFC/FL600 NO ASH EXP
FCST VA CLD +12 HR: DD/1400Z SFC/FL600 NO ASH EXP
FCST VA CLD +18 HR: DD/2000Z SFC/FL600 NO ASH EXP
RMK: THIS IS A TEST VA ADVISORY. MWO SHOULD NOW ISSUE A TEST
SIGMET FOR VA,. PLEASE REFER TO THE LETTER FROM <<REGION>>
REGIONAL OFFICE DATED xxxxxxxxxxxx.
NXT ADVISORY: NO FURTHER ADVISORIES=

2. Format of TEST Tropical Cyclone Advisory

TC ADVISORY
DTG: YYYMMDD/0200Z
TCAC: <<NAME OF TCAC>>
TC: TEST
NR: nn (actual number)
PSN: NIL
MOV: NIL
C: NIL
MAX WIND: NIL
FCST PSN +06HR: NIL
FCST MAX WIND +06HR: NIL
FCST PSN +12HR: NIL
FCST MAX WIND +12HR: NIL
FCST PSN +18HR: NIL
FCST MAX WIND +18HR: NIL
FCST PSN +24HR: NIL
FCST MAX WIND +24HR: NIL
RMK: THIS IS A TEST TC ADVISORY. MWO SHOULD NOW ISSUE A TEST
SIGMET FOR TC. PLEASE REFER TO THE LETTER FROM <<REGION>>
REGIONAL OFFICE DATED xxxxxxxxxxxx.
NXT MSG: NIL=

3. Format of TEST SIGMET for Volcanic Ash

```
WVXXii CCCC YYGGgg  
CCCC SIGMET Z99 VALID YYGGgg/YYGGgg CCCC-  
CCCC <<NAME>> FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST VA ADVISORY NUMBER xx RECEIVED AT YYGGggZ=
```

or

```
WVXXii CCCC YYGGgg  
CCCC SIGMET Z99 VALID YYGGgg/YYGGgg CCCC-  
CCCC <<NAME>> FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST VA ADVISORY NOT RECEIVED=
```

Example:

```
WVJP31 RJTD 170205  
RJJJ SIGMET Z99 VALID 170205/170215 RJTD-  
RJJJ FUKUOKA FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST VA ADVISORY NUMBER 1 RECEIVED AT 170200Z=
```

```
WVJP31 RJTD 170205  
RJJJ SIGMET Z99 VALID 170205/170215 RJTD-  
RJJJ FUKUOKA FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST VA ADVISORY NOT RECEIVED=
```

4. Format of TEST SIGMET for Tropical Cyclone

```
WCXXii CCCC YYGGgg  
CCCC SIGMET Z99 VALID YYGGgg/YYGGgg CCCC-  
CCCC <<NAME>> FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST TC ADVISORY NUMBER xx RECEIVED AT YYGGggZ=
```

```
WCXXii CCCC YYGGgg  
CCCC SIGMET Z99 VALID YYGGgg/YYGGgg CCCC-  
CCCC <<NAME>> FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST TC ADVISORY NOT RECEIVED=
```

Example:

```
WCJP31 RJTD 100205  
RJJJ SIGMET Z99 VALID 100205/100215 RJTD-  
RJJJ FUKUOKA FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.  
TEST TC ADVISORY NUMBER 1 RECEIVER AT 180200Z=
```

```
WCJP31 RJTD 100205  
RJJJ SIGMET Z99 VALID 100205/100215 RJTD-  
RJJJ FUKUOKA FIR THIS IS A TEST SIGMET, PLEASE DISREGARD.
```

TEST TC ADVISORY NOT RECEIVED=

5. Format of TEST SIGMET for other weather phenomena

```
WSXXii CCCC YYGGgg  
CCCC SIGMET Z99 VALID YYGGgg/YYGGgg CCCC-  
CCCC <<NAME>> FIR THIS IS A TEST SIGMET, PLEASE DISREGARD=
```

Example:

```
WSJP31 RJTD 240205  
RJJJ SIGMET Z99 VALID 240205/240215 RJTD-  
RJJJ FUKUOKA FIR THIS IS A TEST SIGMET, PLEASE DISREGARD=
```

CHAPTER 2 — SAMPLE TABLE TO USED BY REGIONAL OPMET DATA BANKS

Name of RODB Tokyo
Date of Test 2011/11/17
Target (VA or TC) VA

VA Advisories (FV)

| <i>TTAAii</i> | <i>CCCC</i> | <i>YYGGgg</i> | <i>Received Time(UTC)</i> | <i>Comments/Remarks</i> |
|---------------|-------------|---------------|---------------------------|-------------------------|
| FVAK23 | PAWU | 170159 | 01:59:29 | |
| FVAU01 | ADRM | 170201 | 02:01:53 | |
| FVFE01 | RJTD | 170200 | 02:00:09 | |
| FVPS01 | NZKL | 170207 | 02:08:27 | |
| FVXX02 | LFPW | 170202 | 02:02:41 | |
| FVXX25 | KNES | 170200 | 02:02:01 | |

VA SIGMET (WV)

| <i>TTAAii</i> | <i>CCCC</i> | <i>YYGGgg</i> | <i>MWO</i> | <i>FIR</i> | <i>Received Time(UTC)</i> | <i>Comments/Remarks</i> |
|---------------|-------------|---------------|------------|------------|---------------------------|-------------------------|
| WVAK01 | PAWU | 170200 | PAWU | PAZA | 02:00:11 | |
| WVAU01 | ADRM | 170201 | YDRM | YBBB | 02:02:04 | |
| WVCI31 | RCTP | 170205 | RCTP | RCAA | 02:04:58 | |
| WVCI33 | ZBAA | 170205 | ZBAA | ZBPE | 02:05:26 | |
| WVCI34 | ZSSS | 170205 | ZSSS | ZSHA | 02:02:34 | |
| WVCI35 | ZJHK | 170201 | ZJHK | ZJSA | 02:03:34 | |
| WVCI36 | ZUUU | 170205 | ZUUU | ZPKM | 02:11:04 | |
| WVCI37 | ZLXY | 170205 | ZLXY | ZLHW | 02:07:44 | |
| WVCI38 | ZYTX | 170205 | ZYTX | ZYSH | 02:01:50 | |
| WVCI39 | ZWWW | 170202 | ZWWW | ZWUQ | 02:02:40 | |
| WVCI45 | ZHHH | 170204 | ZHHH | ZHWH | 02:08:52 | |
| WVFI01 | NFFN | 170000 | NFFN | NFFF | 02:15:46 | |
| WVIN31 | VOMM | 170201 | VOMM | VOMF | 02:09:57 | |
| WVJP31 | RJTD | 170205 | RJTD | RJJJ | 02:06:24 | |
| WVKP31 | ZUUU | 170206 | ZUUU | VDPP | 02:12:23 | |
| WVLA31 | VLVT | 170200 | VLVT | VLVT | 02:01:03 | |
| WVMS31 | WMKK | 170205 | WMKK | WBFC | 02:04:28 | |

| | | | | | |
|--------|------|--------|------|------|----------|
| WVPA01 | PHFO | 170201 | PHFO | KZAK | 02:02:09 |
| WVPH31 | RPLL | 170210 | RPLL | RPHI | 02:08:43 |
| WVPA01 | KKCI | 170200 | KKCI | KZAK | 02:00:11 |
| WVRA31 | RUCH | 170205 | RUCH | UIAA | 02:08:01 |
| WVRA31 | RUHB | 170206 | RUHB | UHHH | 02:07:57 |
| WVRA31 | RUMG | 170205 | RUMG | UHMM | 02:08:59 |
| WVRA31 | RUPV | 170200 | RUPV | UHMP | 02:09:13 |
| WVRA31 | RUSH | 170205 | RUSH | UHSS | 02:04:22 |
| WVRA31 | RUVV | 170202 | RUVV | UHWW | 02:03:13 |
| WVRA32 | RUPV | 170200 | RUPV | UHMA | 02:06:01 |
| WVRA32 | RUYK | 170207 | RUYK | UELL | 02:07:28 |
| WVRA33 | RUHB | 170202 | RUHB | UHBB | 02:02:49 |
| WVSR20 | WSSS | 170205 | WSSS | WSJC | 02:05:38 |
| WVSS20 | VHHH | 170202 | VHHH | VHHK | 02:03:05 |
| WVTH31 | VTBS | 170211 | VTBS | VTBB | 02:13:53 |
| WVVS31 | VVGL | 170200 | VVGL | VVNB | 02:05:06 |
| WVVS31 | VVGL | 170208 | VVGL | VVTS | 02:14:38 |

— END —

APPENDIX D

SIGMET examples (TS, SEV TURB, HVY DS, HVY SS)

ISOL EMBD TS

WSKW31 OKBK 03~~0800~~0900
OKBK SIGMET 1 VALID 030900/031300 OKBK-
OKAC KUWAIT FIR ~~ISOL~~ EMBD TS ~~FCST AND~~ OBS AT 0850Z N OF
N30 TOP FL300 MOV E 15KT NC (~~WKN INTSF~~) =

CANCELATION SIGMET

WSKW31 OKBK 031030
OKBK SIGMET 2 VALID 031030/031300 OKBK-
OKAC KUWAIT FIR CNL SIGMET 1 ~~VALID~~ 030900/031300 NC =

SEV TURB

WSKW31 OKBK 030800
OKBK SIGMET 1 VALID 030900/031300 OKBK-
OKAC KUWAIT FIR SEV TURB FCST AT 0850Z N OF N30 FL300/340
MOV E 15KT NC =

HVY DS

WSKW31 OKBK 03~~0800~~0900
OKBK SIGMET 1 VALID 030900/031300 OKBK-
OKAC KUWAIT FIR HVY DS ~~FCST AND~~ OBS AT 0850Z N OF N30
MOV SE 30KT NC =

CANCELATION SIGMET

WSKW31 OKBK 031030
OKBK SIGMET 2 VALID 031030/031300 OKBK-
OKAC KUWAIT FIR CNL SIGMET 1 ~~VALID~~ 030900/031300 NC =

HVY SS

WSKW31 OKBK 030800

OKBK SIGMET 1 VALID 030900/031300 OKBK-

OKAC KUWAIT FIR HVY SS FCST AT 0900Z ~~AND OBS~~ N OF N30 MOV
SE 30KT NC =

CANCELATION SIGMET

WSKW31 OKBK 031030

OKBK SIGMET 2 VALID 031030/031300 OKBK-

OKAC KUWAIT FIR CNL SIGMET 1 ~~VALID~~-030900/031300 NC =

APPENDIX E

Key Performance Indicators supporting B0-MET – Meteorological information supporting enhanced operational efficiency and safety

Applicability: States

| Metrics | Key Performance | Targets | Action | Remarks |
|---------------------------------|--|---|--|--|
| 1- WAFS | Number of States providing forecasts from WAFC London to users as per Annex 3 | xx% implementation | Inform States of deficiency and assist in acquiring access to SADIS | |
| 2 – OPMET at aerodromes | Number of aerodromes providing OPMET as per requirements in MID FASID Table MET 1A | METAR and TAF as per requirements in MID FASID Table MET 1A available from xx% of aerodromes in Region | ROC monitor -> corrective action by States -> monitor and report | Consider global requirement against FASID Table MET 2A from SADIS monitoring |
| 3 – Meteorological Watch Office | Number of MWOs providing SIGMET as per requirements in MID FASID Table MET 1B | SIGMET from MWOs listed in MID FASID Table MET 1B provided by xx% of MWOs SIGMET test participation by MWOs listed in MID FASID Table MET 1B provided by xx% of MWOs | ROC monitor -> corrective action by States -> monitor and report | |
| 4- QMS | Number of States that have implemented QMS | QMS (MET) is implemented in xx% of States in Region | Reported by States -> implementation plan -> solicit update by States and report | |

| WMO-AA | ROC | MWO | FVXX01 LFPW | FVXX01 EGRR | WVAJ31 UBBS (UBBB) | WVBU31 LBSM (LBSR) | WVBX31 EBBR (EBBU) | WVBY31 UMMS (UMMV) | WVCR31 LEMM (GCCC) | WVCY31 LCLK (LCCC) | WVCZ31 LKPW (LKAA) | WVDL31 EDZF (EDGG) | WVDL31 EDZH (EDWW) | WVDL31 EDZM (EDMM) |
|--------------------------|--------|----------|----------------------|---------------------|---------------------|--------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|
| UK | EGGG | EGGY | 05.09.2013 09:44:46 | | 05.09.2013 10:05:15 | NIL | 05.09.2013 10:00:02 | 05.09.2013 10:00:12 | 05.09.2013 09:58:27 | 05.09.2013 10:01:09 | 05.09.2013 10:00:13 | 05.09.2013 10:00:2 | 05.09.2013 10:05:39 | 05.09.2013 09:57:53 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 9:44:59 | 10:00:37/S | 10:15:52/S | NIL | 10:00:22/S | 10:00:38/S | 9:58:37/S | 10:02:06/S | 10:00:41/S | 10:00:43/S | 10:06:07/S | 9:58:14/S |
| BX | EGGG | EBBR | 09:44/A | 10:00/A | 10:00/A | NIL | 10:00/A | 09:57/A | 10:00/A | 10:00/A | 09:47/A | 10:00/A | 10:05/A | 09:57/A |
| DN | EGGG | EKCH | 0944A | 1000A | 1015A | NIL | 1000A | 1000A | 0958A | 1001A | 1000A | 1000A | 1001A | 0958A |
| IE | EGGG | EIDB | 09:47/G | 10:02/G | 10:08/G | NIL | 10:01/A | 10:01/A | 09:59/A | 10:04/G | 10:03/G | 10:03/G | 10:08/G | 10:00/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | not rccvd | 10:00:00 | 10:00:00 | NIL | 10:00:00 | 9:57:00 | 10:00:00 | 10:00:00 | 9:47:00 | 10:00:00 | 10:00:00 | 9:57:00 |
| LT | EGGG | EYVI | 09:46/G | 10:01/G | 10:08/G | NIL | 10:00/G | 10:00/G | 09:59/G | 10:01/G | 10:00/G | 10:01/G | 10:06/G | 09:58/G |
| LV | EGGG | EVRA | 09:45/X | 10:01/X | 10:07/X | NIL | 10:00/G | 10:00/G | 09:58/G | 10:02/G | 10:00/G | 10:00/G | 10:06/G | 09:58/X |
| LV | EGGG | EVRRITNX | 09:33/S | 10:00/S | 10:15/A | NIL | 10:00/A | 10:00/A | 9:58/A | 10:01/A | 10:00/A | 10:00/A | 10:05/A | 9:57/A |
| NO | EGGG | ENMI | 0944/A | 1001/A | 1015/A | NIL | 1000/A | 1000/A | 1000/A | 1001/A | 1000/A | 1001/A | 1005/A | 0958/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | 0944A | 1000A | | | | | | | | | | |
| EO | EGGG | EEMH | 09:44/G+not rccvd/A | 10:00/G+not rccvd/A | 10:15/G+A | NIL | 10:00/G+A | 09:59/G+A | 09:58/G+A | 10:01/G+A | 10:00/G+A | 10:00/G+A | 10:05/A+10:06/G | 09:57/G+A |
| FR | LFPW | LFPW | | 10:00/A+S | 10:05/A+S | NIL | 10:00/A+S | 10:00/A+S | 09:58/A+S | 10:01/A+S | 10:00/A+S | 10:00/A+S | 10:05/A+S | 09:57/A+S |
| SP/CR | LFPW | LEMM | 09:44/ A+G | 10:00 AM | 10:05/ A+G | NIL | 10:00 /A+G | 10:00/ A+G | | 10:02 /A+G | 10:00/ A+G | 10:00/ A+G | 10:06/ A+G+X | 09:58/ A+G+X |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1000/A | 0950/A | 1015/G | NIL | 1000/A/G | 1000/G | 0958/A | 1001/A | 1000/G | 1000/G/A | 1005/A/G | 0957/G/A |
| DL | LOWM | EDDF | 0944/A+0946/G | 1000/A | 1015/G+A | NIL | 1000/A+1001/G | 1000/A+G | 0958/A+0959/G | 1001/A+1002/G | 1000/A+1001/G | | | |
| TU | LOWM | LTAC | 09:44/G | 10:00/G | 10:15/G | NIL | 10:00/S | 10:00/G | 09:58/G | 10:01/G | 10:00/G | 10:00/G | 10:05/G | 09:57/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:44/G | 10:01/G | 10:15/G | NIL | 10:00/G | 10:00/G | 09:58/G | 10:01/G | 10:00/G | 10:00/G | 10:05/G | 09:57/G |
| RO | LOWM | LROM | 09:44/A | 10:00/A | 10:15/A | NIL | 10:00/A | 10:00/A | 09:58/A | 10:01/A | 10:00/A | 10:00/A | 10:05/A | 09:57/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 09:44/A,S | 10:00/S,A | 10:15/S | NIL | 10:00/S | 10:00/G,S | 09:58/S | 10:01/S | 10:00/S | 10:00/S | 10:05/S | 09:58/S |
| SQ | LOWM | LZIB | 09:45:13/G | 10:01:11/G | 10:15:53/G | NIL | 10:00:34/G | 10:00:45/G | 09:58:54/G | 10:01:44/G | 10:00:46/G | 10:00:48/G | 10:06:11/G | 09:58:25/G |
| RM | LOWM | LUKK | 9:44 | 10:00 | | NIL | | 10:00 | | | 10:00 | 10:00 | 10:01 | 9:57 |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:00/G | 10:00/G | 10:15/G | NIL | 10:30/G | 10:30/G | 09:58/G | 10:01/G | 10:04/G | 10:34/G | 10:35/G | 09:58/G |
| GR | LOWM | LGAT | 09:44/A/S | 10:00/A/S | 10:15/A/S/X | NIL | 10:00/A/S/X | 10:00/A/S/X | 09:58/A/S/X | 10:01/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:05/A/S/X | 09:57/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 09:47/A | 10:03/A | 10:09/A | NIL | 10:03/A | 10:03/A | 10:06/A | | 10:03/A | 10:00/A | 10:09/A | 10:00/A |
| BY | LOWM | UMMS | 09:45/A | 10:01/A | 10:16/A | NIL | 10:00/A | | 09:58/A | 10:01/A | 10:00/A | 10:00/A | 10:06/A | 09:58/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 09:45/G | 10:01/G | 10:15/G | NIL | 10:00/G | 09:57/G | 09:58/G | 10:01/G | 10:00/G | 10:00/G | 10:06/G | 09:58/G |
| RA/RS | LOWM | UWOO | not rccvd | not rccvd | 10:16/G | NIL | not rccvd | 09:59/G | 09:59/G | not rccvd | 10:00/G | 10:00/G | 10:06/G | 09:58/G |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | 09:45/A | 10:01/G | 10:28/B | NIL | 10:11/B | 10:00+10:01/G | 09:58/A | 10:11/B | 10:00/G | 10:11/B | 10:06/S | 10:09/B |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 09:44/A | 10:00/A | 10:08/A | NIL | 10:00/A | 10:00/A | 09:58/A | 10:01/A | 10:00/A | 10:00/A | 10:05/A | 09:57/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | 0944A | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 09:44/A+G 09:52/X | 10:00/G+X | 10:06/G 10:13/X | NIL | 10:00/A+G 10:07/X | 10:00/G 10:07/X | 09:58/G 10:05/X | 10:02/G 10:08/X | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:06/G 10:13/X | 09:58/G 10:05/X |
| WMO-AA | Centre | MWO | FVXX01 LFPW | FVXX01 EGRR | WVAJ31 UBBS (UBBB) | WVBU31 LBSM (LBSR) | WVBX31 EBBR (EBBU) | WVBY31 UMMS (UMMV) | WVCR31 LEMM (GCCC) | WVCY31 LCLK (LCCC) | WVCZ31 LKPW (LKAA) | WVDL31 EDZF (EDGG) | WVDL31 EDZH (EDWW) | WVDL31 EDZM (EDMM) |

| WMO-AA | ROC | MWO | WVDL32 EDZF (EDUU) | WVDL32 EDZH (EDYY) | WVDN31 EKCH (EKDK) | WVEO31 EETN (EETT) | WVFI31 EFHK (EFIN) | WVFR31 LFPW (LFFF) | WVFR32 LFPW (LFBB) | WVFR33 LFPW (LFEE) | WVFR34 LFPW (LFMM) | WVFR35 LFPW (LFRR) | WVGG31 UGTB (UGGG) | WVGL31 BGSF (BGGL) |
|--------------------------|--------|----------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------------|--------------------|
| UK | EGGG | EGGY | 05.09.2013 10:01:17 | 05.09.2013 10:06:08 | 05.09.2013 09:47:07 | 05.09.2013 10:00: | 05.09.2013 10:01: | 05.09.2013 09:54:50 | 05.09.2013 09:54:52 | 05.09.2013 09:54:50 | 05.09.2013 09:54:54 | 05.09.2013 09:54:50 | NIL | NIL |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:02:07/S | 10:06:29/S | 9:47:29/S | 10:00:39/S | 10:02:32/S | 9:55:04/S | 9:55:22/S | 9:55:04/S | 9:55:05/S | 9:55:03/S | NIL | NIL |
| BX | EGGG | EBBR | 10:00/A | 10:05/A | 09:46/A | 10:00/A | 10:00/A | 09:54/A | 09:54/A | 09:54/A | 09:54/A | 09:54/A | 10:00/A - UGTBYMYX | NIL |
| DN | EGGG | EKCH | 1001A | 1001A | | 1000A | 1001A | 0954A | 0954A | 0954A | 0954A | 0954A | NIL | 0956A |
| IE | EGGG | EIDB | 10:04/G | 10:09/G | 09:50/G | 10:03/G | 10:04/G | 09:57/G | 09:57/G | 09:57/G | 09:58/G | 09:57/G | NIL | NIL |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 9:46:00 | 10:00:00 | 10:00:00 | 9:54:00 | 54:00.00 | 9:54:00 | 9:54:00 | 9:54:00 | | |
| LT | EGGG | EYVI | 10:02/G | 10:07/G | 09:48/G | 10:00/G | 10:02/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | NIL | NIL |
| LV | EGGG | EVRA | 10:02/G | 10:07/G | 09:47/X | 10:00/G | 10:02/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | NIL | NIL |
| LV | EGGG | EVRRITNX | 10:01/A | 10:06/A | 9:47/A | 10:00/A | 10:02/A | 9:54/A | 9:54/A | 9:54/A | 9:55/A | 9:54/A | NIL | NIL |
| NO | EGGG | ENMI | 1001/A | 1006/A | 0947/A | 1000/A | 1001/A | 0954/A | 0955/A | 0954/A | 0955/A | 0954/A | NIL | NIL |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:01/G+A | 10:05/A+10:06/G | 09:47/G+A | 10:00/G+A | 10:01/G+A | 09:54/G+A | 09:54/G+A | 09:54/G+A | 09:54/G+09:55/A | 09:54/G+A | NIL | NIL |
| FR | LFPW | LFPW | 10:01/A+S | 10:01/A+S | 09:47/A+S | 10:00/A+S | 10:01/A+S | | | | | | NIL | NIL |
| SP/CR | LFPW | LEMM | 10:00/ A+G | 10:06/ A+G+X | 09:47/ G | 10:00/ A+G | 10:01/ A+G | 09:56/ X | 09:56/ X | 09:56/ X | 09:56/ X | 09:56/ X | NIL | NIL |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1001/A/G | 1006/G:1006/A | 0947/A/G | 1000/A/G | 1001/A/G | 0954/A/G | 0954/A/G | 0954/A/G | 0954/A/G | 0954/A/G | NIL | NIL |
| DL | LOWM | EDDF | | | 0947/A+0948/G | 1000/A+1001/G | 1001/A+1002/G | 0955/A+0956/G | 0955/A+0956/G | 0955/A+0956/G | 0955/A+0956/G | 0955/A+0956/G | NIL | NIL |
| TU | LOWM | LTAC | 10:01/G | 10:06/G | 09:47/G | 10:00/S | 10:02/S | 09:54/G | 09:54/G | 09:54/G | 09:54/G | 09:54/G | NIL | NIL |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:01/G | 10:06/G | 09:47/G | 10:00/G | 10:02/G | 09:54/G | 09:54/G | 09:54/G | 09:54/G | 09:54/G | NIL | NIL |
| RO | LOWM | LROM | 10:01/A | 10:06/A | 09:47/A | 10:00/A | 10:01/A | 09:54/A | 09:54/A | 09:54/A | 09:54/A | 09:54/A | NIL | NIL |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:01/S | 10:06/S | 09:47/S | 10:00/S | 10:02/S | 09:54/S | 09:55/S | 09:54/S | 09:55/S | 09:54/S | 10:01/G | NIL |
| SQ | LOWM | LZIB | 10:02:00/G | 10:06:35/G | 09:47:35/G | 10:00:47/G | 10:02:35/G | 09:55:26/G | 09:55:18/G | 09:55:17/G | 09:55:20/G | 09:55:16/G | NIL | NIL |
| RM | LOWM | LUKK | 10:01 | 10:01 | | | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:01/G | 10:06/G | 09:47/G | 10:00/G | 10:02/G | 09:54/G | 09:54/G | 09:55/G | 09:55/G | 09:55/G | NIL | NIL |
| GR | LOWM | LGAT | 10:01/A/S/X | 10:06/A/S/X | 09:47/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 09:54/A/S/X | 09:54/A/S/X | 09:54/A/S/X | 09:54/A/S/X | 09:54/A/S/X | NIL | NIL |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:04/A | 10:09/A | 09:49/A | 10:03/A | 10:04/A | 09:57/A | 09:57/A | 09:57/A | 09:57/A | 09:57/A | 8:35/A/Current for UTTB F | NIL |
| BY | LOWM | UMMS | 10:01/A | 10:06/A | 09:47/A | 10:00/A | 10:02/A | 09:54/A | 09:55/A | 09:54/A | 09:55/A | 09:54/A | 10:01/A | 10:01/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:01/G | 10:06/G | 09:47/G | 10:00/G | 10:02/G | 09:54/G | 09:55/G | 0954/G | 09:55/G | 09:55/G | 10:01/A | NIL |
| RA/RS | LOWM | UWOO | 10:01/G | not rccvd | 09:47/G | not rccvd | 10:02/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | 09:55/G | NIL | NIL |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | 10:11/B | 10:06/S | 10:09/B | 10:00/G | 10:02/G | 09:55/S | 09:55/S | 09:55/S | 09:55/S | 09:55/S | NIL | NIL |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:01/A | 10:06/A | 09:47/A | 10:00/A | 10:02/A | 09:54/A | 09:55/A | 09:54/A | 09:54/A | 09:54/A | NIL | NIL |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | NIL |
| RJTD | | | 10:01/G 10:08/X | 10:06/G 10:13/X | 09:48/G 09:54/X | 10:01/G 10:07/X | 10:02/G 10:08/X | 09:55/G 10:02/X | 09:55/G 10:02/X | 09:55/G 10:02/X | 09:56/G 10:02/X | 09:55/G 10:01/X | NIL | NIL |
| WMO-AA | Centre | MWO | WVDL32 EDZF (EDUU) | WVDL32 EDZH (EDYY) | WVDN31 EKCH (EKDK) | WVEO31 EETN (EETT) | WVFI31 EFHK (EFIN) | WVFR31 LFPW (LFFF) | WVFR32 LFPW (LFBB) | WVFR33 LFPW (LFEE) | WVFR34 LFPW (LFMM) | WVFR35 LFPW (LFRR) | WVGG31 UGTB (UGGG) | WVGL31 BGSF (BGGL) |

| WMO-AA | ROC | MWO | WVGR31 LGAT (LGGG) | WVHU31 LHBM (LHCC) | WVIE31 EIDB (EISN) | WVIL31 BICC (BIRD) | WVIS31 LLBG (LLLL) | WVIY31 LIIB (LIMM) | WVIY32 LIIB (LIRR) | WVIY33 LIIB (LIBB) | WVKG41 UAFM (UAFM) | WVKZ31 UAAA (UAAA) | WVKZ31 UACC (UACC) | WVKZ31 UAI (UAI) | WVKZ31 UATT (UATT) |
|--------------------------|--------|----------|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|------------------|---------------------|
| UK | EGGG | EGGY | 05.09.2013 09:54 | 05.09.2013 10:00 | 05.09.2013 10:00 | NIL | NIL | 05.09.2013 09:56 | 05.09.2013 09:56 | 05.09.2013 09:56 | NIL | 05.09.2013 10:00:54 | NIL | NIL | 05.09.2013 10:01:14 |
| SADIS | | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 9:56:16/S | 10:00:22/S | 10:00:43/S | NIL | NIL | 9:56:59/S | 9:56:59/S | 9:56:59/S | NIL | 10:01:23/S | NIL | NIL | 10:02:06/S |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | 10:00/A | NIL | NIL | 10:00/A | 10:00/A | 10:00/A | NIL | 10:04/A | NIL | NIL | 09:59/A |
| DN | EGGG | EKCH | 0956A | 1000A | 1000A | NIL | NIL | 0956A | 0956A | 0956A | NIL | 1001A | NIL | NIL | 1001A |
| IE | EGGG | EIDB | 09:58/G | 10:03/G | | NIL | NIL | 09:57/A | 09:57/A | 09:57/A | NIL | 05:17/A | NIL | NIL | 10:03/A |
| IL | EGGG | BICC | | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 10:00:00 | NIL | NIL | 10:00:00 | 10:00:00 | 10:00:00 | NIL | 10:04:00 | NIL | NIL | 9:59:00 |
| LT | EGGG | EYVI | 09:56/G | 10:00/G | 10:00/G | NIL | NIL | 09:57/G | 09:57/G | 09:57/G | NIL | 10:01/G | NIL | NIL | 10:01/G |
| LV | EGGG | EVRA | 09:56/G | 10:00/G | 10:00/G | NIL | NIL | 09:57/G | 09:57/G | 09:57/G | NIL | 10:02/G | NIL | NIL | 10:02/G |
| LV | EGGG | EVRRITNX | 9:56/A | 10:00/A | 10:00/A | NIL | NIL | 9:56/A | 9:56/A | 9:56/A | NIL | 10:01/A | NIL | NIL | 10:01/A |
| NO | EGGG | ENMI | 0956/A | 1000/A | 1001/A | NIL | NIL | 0957/A | 0957/A | 0957/A | NIL | 1001/A | NIL | NIL | not rccvd |
| SN | EGGG | ESWI | | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | 1000A | NIL | | | | | | | | | |
| EO | EGGG | EEMH | 09:56/G+A | 10:00/G+A | 10:00/G+A | NIL | NIL | 09:56/A+10:00/G | 09:56/G+A | 09:56/G+A | NIL | 10:01/G+A | NIL | NIL | 10:01/G+A |
| FR | LFPW | LFPW | 09:55/A+S | 10:00/A+S | 10:00/A+S | NIL | NIL | 09:56/A+S | 09:56/A+S | 09:56/A+S | NIL | 10:00/A+S | NIL | NIL | 10:06/S |
| SP/CR | LFPW | LEMM | 09:56/ G | 10:00/ A+G | 10:00/ A+G | NIL | NIL | 10:15/ G | 10:10/ G | 10:16/ G | NIL | 10:01 /A+G | NIL | NIL | 10:06/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| OS | LOWM | LOWM | 0955/A/G | 1000/G | 1000/A/G | NIL | NIL | 0956/A/G | 0956/A | 0956/A/G | NIL | 1000/A/G | NIL | 1001/A | 1001/A |
| DL | LOWM | EDDF | 0956/A+G | 1000/A+1001/G | 1000/A+1001/G | NIL | NIL | 0957/A+G | 0957/A+G | 0957/A+G | NIL | 1001/A+1002/G | NIL | NIL | not rccvd |
| TU | LOWM | LTAC | 09:55/G | 10:00/G | 10:00/S | NIL | NIL | 09:56/G | 09:56/G | 09:56/G | NIL | 10:00/G | NIL | NIL | 10:01/S |
| SW | LOWM | LSSW | | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:55/G | | 10:00/G | NIL | NIL | 09:56/G | 09:56/G | 09:56/G | NIL | 10:01/G | NIL | NIL | not rccvd |
| RO | LOWM | LROM | 09:55/A | 10:00/A | 10:00/A | NIL | NIL | 09:56/A | 09:56/A | 09:56/A | NIL | 10:00/A | NIL | NIL | 10:01/A |
| BU | LOWM | LBSF | | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | | |
| PL | LOWM | EPWA | NIL | 10:00/S | 10:00/S | NIL | NIL | 09:56/S | 09:56/S | 09:56/S | NIL | 10:01/S | NIL | NIL | 10:01/S |
| SQ | LOWM | LZIB | 09:56:26/G | 10:00:31/G | 10:00:50/G | NIL | NIL | 09:57:18/G | 09:57:18/G | 09:57:19/G | NIL | 10:01:27/G | NIL | NIL | 10:06:57/S |
| RM | LOWM | LUKK | 9:56 | 10:00 | | | | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | | |
| YG | LOWM | LYBM | 09:56/G | 10:00/G | 10:00/G | NIL | NIL | 10:03/G | 10:15/G | 10:16/G | NIL | 10:01/G | NIL | NIL | 10:01/G |
| GR | LOWM | LGAT | | 10:00/A/S/X | 10:00/A/S/X | NIL | NIL | 09:56/A/S/X | 09:56/A/S/X | 09:56/A/S/X | NIL | 10:01/A/S/X | NIL | NIL | 10:01/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | | |
| CY | LOWM | LCLK | 09:58/A | 10:02/A | 10:03/A | NIL | NIL | 09:59/A | 09:59/A | 09:59/A | NIL | 10:04/A | NIL | NIL | 10:09/A |
| BY | LOWM | UMMS | 09:56/A | 10:00/A | 10:00/A | NIL | NIL | 09:57/A | 09:57/A | 09:57/A | NIL | 10:00A | NIL | NIL | 10:01/A |
| IS | LOWM | LLBG | | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 09:56/G | 10:00/G | 10:00/G | NIL | NIL | 09:57/G | 09:57/G | 09:57/G | NIL | 10:00/A | NL | NIL | 10:01/A |
| RA/RS | LOWM | UWOO | not rccvd | not rccvd | not rccvd | NIL | NIL | 09:57/G | 09:57/G | 09:57/G | NIL | not rccvd | NIL | NIL | not rccvd |
| Reception only via SADIS | | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | | |
| GOOY | | | 09:57/G | 10:11/B | 10:01/G | NIL | NIL | 09:57/G | 09:57/G | 09:57/G | NIL | 10:11/B | NIL | NIL | 10:11/B |
| FAPR | | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | | |
| WSSS | | | 09:56/A | 10:00/A | 10:00/A | NIL | NIL | 09:56/A | 09:56/A | 09:56/X | NIL | 10:01/A | NIL | NIL | 10:01/A |
| YBBN | | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | NIL | NIL | not rccvd | not rccvd | not rccvd | NIL | not rccvd | NIL | NIL | not rccvd |
| RJTD | | | 09:56/G 10:03/X | 10:00/G 10:07/X | 10:00/A+G 10:07/X | NIL | NIL | 09:57/G 10:04/X | 09:57/G 10:04/X | 10:04/X | NIL | not rccvd | NIL | NIL | not rccvd |
| WMO-AA | Centre | MWO | WVGR31 LGAT (LGGG) | WVHU31 LHBM (LHCC) | WVIE31 EIDB (EISN) | WVIL31 BICC (BIRD) | WVIS31 LLBG (LLLL) | WVIY31 LIIB (LIMM) | WVIY32 LIIB (LIRR) | WVIY33 LIIB (LIBB) | WVKG41 UAFM (UAFM) | WVKZ31 UAAA (UAAA) | WVKZ31 UACC (UACC) | WVKZ31 UAI (UAI) | WVKZ31 UATT (UATT) |

| WMO-AA | ROC | MWO | WVLJ31 LJLJ (LJLA) | WVLT31 EYVI (EYVL) | WVLV31 EVRA (EVRR) | WVMC31 GMMC (GMMM) | WVMJ31 LWSK (LWSS) | WVMP31 LMMM (LMMM) | WVNL31 EHDB (EHAA) | WVNO31 ENMI (ATSU=ENOS FIR=ENOR) | WVNO32 ENMI (ATSU=ENSV FIR=ENOR) | WVNO34 ENMI (ATSU=ENBD FIR=ENOR) | WVNO35 ENMI (ATSU=ENBD FIR=ENOR) | WVNO36 ENMI (ENO) |
|--------------------------|--------|----------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------|
| UK | EGGG | EGGY | 05.09.2013 10:00 | 05.09.2013 10:00 | 05.09.2013 10:01:00 | 05.09.2013 10:00:07 | 05.09.2013 10:10:42 | NIL | 05.09.2013 10:00:53 | 05.09.2013 10:05:54 | 05.09.2013 10:30:54 | 05.09.2013 10:30:54 | 05.09.2013 10:05:54 | 05.09.2013 10:09:28 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:00:55/S | 10:00:38/S | 10:00:24/S | 10:00:22/S | 10:11:07/S | NIL | | 10:30:30/S | 10:31:56/S | 10:31:47/S | 10:06:11/S | 10:01:10/S |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | 10:00/A | 09:59/A | 10:00/A | NIL | 10:00/A | 10:04/A | 10:30/A | 10:30/A | 10:04/A | 10:08/A |
| DN | EGGG | EKCH | 1000A | 1000A | 1001A | 1000A | 1010A | NIL | 1000A | 1005A | 1030A | 1030A | 1005A | 1009A |
| IE | EGGG | EIDB | 10:03/G | 10:03/G | 10:04/G | 10:02/G | 10:13/G | NIL | 10:03/G | 10:08/G | 10:32/A | 10:32/A | 10:08/G | 10:12/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 10:00:00 | 9:59:00 | 10:00:00 | NIL | 10:00:00 | 10:04:00 | 10:30:00 | 10:04:00 | 10:05:00 | 10:08:00 |
| LT | EGGG | EYVI | 10:00/G | | 10:01/G | 10:00/G | 10:12/G | NIL | 10:01/G | 10:06/G | 10:31/G | 10:31/G | 10:06/G | 10:10/G |
| LV | EGGG | EVRA | 10:00/G | 10:00/A | | 10:00/G | 10:11/G | NIL | 10:02/G | 10:06/G | 10:31/G | 10:31/G | 10:06/G | 10:10/X |
| LV | EGGG | EVRRITNX | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:10/A | NIL | 10:00/A | 10:06/A | 10:31 | 10:31 | 10:05/A | 10:09/A |
| NO | EGGG | ENMI | 1001/A | 1000/A | 1001/A | 1000/A | 1010/A | NIL | 1001/A | | | | | |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:00/G+A | 10:00/G+A | 10:01/G+A | 10:00/G+A | 10:10/A+10:11/G | NIL | 10:00/G+A | 10:05/G+10:06/A | 10:30/G+10:31/A | 10:30/G+10:31/A | 10:05/G+A | 10:09/G+A |
| FR | LFPW | LFPW | 10:00/A+S | 10:00/A+S | 10:01/A+S | 10:06/A+S | 10:10/A+S | NIL | 10:00/A+S | 10:05/A+S | 10:30/A+S | 10:30/A+S | 10:05/A+S | 10:09/A+S |
| SP/CR | LFPW | LEMM | 10:00/ A+G | 10:00/ A+G | 10:01/A+G | 10:00/A+G | 10:00/ G | NIL | 10:00/ A+G | 10:06/ A+G+X | 10:30/ A | 10:31/ A+G+X | 10:09/ A+G | 10:09/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1000/G | 1000/A/G | 1001/A/G | 1000/A/G | 1010/A/G | NIL | 1000/A/G | 1005/A/G | 1030/A/G | 1030/A/G | 1005/A/G | 1009/A/G |
| DL | LOWM | EDDF | 1000/A+1001/G | 1000/A+1001/G | 1001/A+1002/G | 1000/A+1001/G | 1010/A+1011/G | NIL | 1001/A+G | 1006/A+G | 1031/A+G | 1031/A+G | 1006/A+G | 1009/A+1010/G |
| TU | LOWM | LTAC | 10:00/G | 10:00/G | 10:01/G | 10:00/S | 10:10/G | NIL | 10:00/G | 10:05/G | 10:30/G | 10:30/G | 10:05/G | 10:09/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:00/G | 10:00/G | 10:01/G | 10:00/G | 10:10/G | NIL | 10:01/G | 10:05/G | 10:30/G | 10:30/G | 10:05/G | 10:09/G |
| RO | LOWM | LROM | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:10/A | NIL | 10:00/A | 10:05/A | 10:30/A | 10:30/A | 10:05/A | 10:09/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:00/S | 10:00/S | 10:01/S | 10:00/S | 10:10/S | NIL | 10:00/S | 10:06/S | 10:31/S | 10:31/S | 10:06/S | 10:09/S |
| SQ | LOWM | LZIB | 10:00:50/G | 10:00:47/G | 10:01:33/G | 10:00:34/G | 10:11:09/G | NIL | 10:01:23/G | 10:06:30/G | 10:31:23/G | 10:31:23/G | 10:06:24/G | 10:09:57/G |
| RM | LOWM | LUKK | | 10:00 | 10:01 | | 10:10 | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:34/G | 10:00/G | 10:01/G | 10:00/G | 10:10/G | NIL | 10:00/G | 10:05/G | 10:30/G | 10:30/G | 10:35/G | 10:09/G |
| GR | LOWM | LGAT | 10:00/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 10:00/A/S/X | 10:00/A/S/X | NIL | 10:00/A/S/X | 10:05/A/S/X | 10:30/A/S/X | 10:30/A/S/X | 10:05/A/S/X | 10:09/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:03/A | 10:03/A | 10:04/A | 10:03/A | 10:14/A | NIL | 10:04/A | 10:09/A | 10:34/A | 10:34/A | 10:09/A | 10:12/A/Curr |
| BY | LOWM | UMMS | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:11/A | NIL | 10:01/A | 10:06/A | 10:31/A | 10:31/A | 10:06/A | 10:09/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:00/G | 10:00/G | 10:01/G | 10:00/G | 10:11/G | NIL | 10:01/G | 10:06/G | 10:31/G | 10:31/G | 10:06/G | 10:09/G |
| RA/RS | LOWM | UWOO | not rccvd | 10:00/G | 10:01/G | not rccvd | 10:11/G | NIL | 10:01/G | not rccvd | 10:31/G | 10:31/G | 10:06/G | 10:10/G |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | 10:11/B | 10:11/B | 10:11/B | 10:00/A | 10:11/G | NIL | 10:11/B | 10:06/S | 10:31/G | 10:31/G | 10:06/S | 10:09/S |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:10/A | NIL | 10:01/A | 10:06/A | 10:30/A | 10:31/A | 10:06/A | 10:09/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:00/G 10:07/X | 10:01/G 10:07/X | 10:02/G 10:08/X | 10:00/G 10:07/X | 10:11/G 10:25/X | NIL | 10:05/G 10:08/X | 10:06/G 10:13/X | 10:31/G 10:38/X | 10:31/G 10:38/X | 10:06/G 10:13/X | 10:09/G 10:24/X |
| WMO-AA | Centre | MWO | WVLJ31 LJLJ (LJLA) | WVLT31 EYVI (EYVL) | WVLV31 EVRA (EVRR) | WVMC31 GMMC (GMMM) | WVMJ31 LWSK (LWSS) | WVMP31 LMMM (LMMM) | WVNL31 EHDB (EHAA) | WVNO31 ENMI (ATSU=ENOS FIR=ENOR) | WVNO32 ENMI (ATSU=ENSV FIR=ENOR) | WVNO34 ENMI (ATSU=ENBD FIR=ENOR) | WVNO35 ENMI (ATSU=ENBD FIR=ENOR) | WVNO36 ENMI (ENO) |

| WMO-AA | ROC | MWO | WVNT21 EGRR (EGGX) | WVNT32 LPMG (LPPO) | WVOS31 LOWW (LOVV) | WVPL31 EPWA (EPWW) | WVPO31 LPMG (LPCC) | WVQB31 LDZM (LQSB) | WVQB32 LYBM (LQSB) | WVRA31 RUCH (UIAA) | WVRA31 RUEK (USSS) | WVRA31 RUHB (UHBB) | WVRA31 RUIR (UIII) | WVRA31 RUMG (UHMM) |
|--------------------------|--------|----------|----------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|----------------------------|--------------------|--------------------|--------------------|
| UK | EGGG | EGGY | | 05.09.2013 10:00:2 | 05.09.2013 10:00:09 | 05.09.2013 09:59:52 | 05.09.2013 10:00:14 | 05.09.2013 10:03:33 | 05.09.2013 09:58:00 | NIL | 05.09.2013 10:02:2 | NIL | NIL | NIL |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:03:05/S | 10:00:55/S | 10:00:37/S | 10:00:07/S | 10:00:55/S | 10:18:39/S | 9:58:16/S | NIL | 10:03:01/S | NIL | NIL | NIL |
| BX | EGGG | EBBR | 10:02/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | NIL | 10:01/A | NIL | NIL | NIL |
| DN | EGGG | EKCH | 1002A | 1000A | 1000A | 0959A | 1000A | 1003A | 0958A | NIL | 1002A | NIL | NIL | NIL |
| IE | EGGG | EIDB | 10:04/G | 10:01/A | 10:03/G | 10:00/A | 10:01/A | 10:06/G | 10:00/G | NIL | 10:05/G | NIL | NIL | NIL |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:02:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | NIL | 10:00:00 | NIL | NIL | NIL |
| LT | EGGG | EYVI | 10:02/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:05/G | 09:58/G | NIL | 10:02/G | NIL | NIL | NIL |
| LV | EGGG | EVRA | 10:03/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:04/X+10:19/X | 09:58/X | NIL | 10:03/X | NIL | NIL | NIL |
| LV | EGGG | EVRRITNX | 10:02/A | 10:00/A | 10:00/A | 9:59/A | 10:00/A | 10:03/A | 9:58/A | NIL | 10:02/A | NIL | NIL | NIL |
| NO | EGGG | ENMI | 1002/A | 1001/A | 1000/A | 1000/A | 1000/A | 1003/A | 0958/A | NIL | 1002/A | NIL | NIL | NIL |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:02/A+not recvd/G | 10:00/G+A | 10:00/G+A | 09:59/G+A | 10:00/G+A | 10:03/G+10:18/A | 09:58/G+A | NIL | 10:02/G+A | NIL | NIL | NIL |
| FR | LFPW | LFPW | 10:02/A+S | 10:00/A+S | 10:00/A+S | 09:59/A+S | 09:59/A+S | 10:03/A+S | 09:58/A+S | NIL | 10:02/A+S | NIL | NIL | NIL |
| SP/CR | LFPW | LEMM | 10:02/ A+G | 10:00/ A+G | 10:00/ A+G | 10:00/ G | 10:00/ A+G | 10:03/ A+G | 09:58/ A+G | NIL | 10:02/ A+G | NIL | NIL | NIL |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1002/A/G | 1000/A/G | 1000/G | 0959/G | 1000/A/G | 1003/A/G | 0957/G | NIL | 1002/G | NIL | NIL | NIL |
| DL | LOWM | EDDF | 1003/G | 1000/A+G | 1000/A+1001/G | 0959/G+A | 1000/A+1001/G | 1003/A+1004/G | 0958/A+G | NIL | 1002/A+G | NIL | NIL | NIL |
| TU | LOWM | LTAC | 10:02/S | 10:00/G | 10:00/G | 09:59/G | 10:00/G | 10:03/G | 09:58/S | NIL | 10:02/G | NIL | NIL | NIL |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | not rccvd | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:03/G | 09:58/G | NIL | 10:02/G | NIL | NIL | NIL |
| RO | LOWM | LROM | 10:02/A | 10:00/A | 10:00/A | 09:59/A | 10:00/A | 10:03/A | 09:57/A | NIL | 10:02 | NIL | NIL | NIL |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:02/S | 10:00/S | 10:00/S | | 10:00/S | 10:03/S | 09:58/S | NIL | 10:02/S | NIL | NIL | NIL |
| SQ | LOWM | LZIB | 10:07:05/G | 10:00:57/G | 10:00:40/G | 10:00:21/G | 10:00:46/G | 10:03:59/G | 09:58:26/G | NIL | 10:02:53/G | NIL | NIL | NIL |
| RM | LOWM | LUKK | | | 10:00 | 9:59 | | 10:03 | 9:58 | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:02/G | 10:00/G | 10:01/G | 09:59/G | 10:00/G | 10:03/G | 09:58/G | NIL | 10:02/G | NIL | NIL | NIL |
| GR | LOWM | LGAT | 10:02/S/X | 10:00/A/S/X | 10:00/A/S/X | 09:59/A/S/X | 10:00/A/S/X | 10:03/A/S/X | 09:58/A/S/X | NIL | 10:02/A/S | NIL | NIL | NIL |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:05/A | 10:03/A | 10:03/A | 10:02/A | 10:03/A | 10:06/A | 10:00/A | NIL | 10:05/A | NIL | NIL | NIL |
| BY | LOWM | UMMS | 10:03/A | 10:02/A | 10:00/A | 09:59/A | 10:00/A | 10:04/A | 09:58/A | NIL | 10:01/A | NIL | NIL | NIL |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:03/G | 10:01/G | 10:00/G | 09:59/G | 10:00/G | 10:04/G | 09:58/G | NIL | 10:01/G | NIL | NIL | NIL |
| RA/RS | LOWM | UWOO | not rccvd | not rccvd | not rccvd | 09:59/G | not rccvd | 10:04/G | 09:58/G | NIL | not rccvd | NIL | NIL | NIL |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | 10:03/G | 10:01/G | 10:11/B | 10:11/B | 10:11/B | 10:04+10:19/G | 09:59/G | NIL | 10:02/G | NIL | NIL | NIL |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:02/A | 10:00/A | 10:00/A | 09:59/A | 10:00/A | 10:03/A | 09:58/A | NIL | 10:02/A | NIL | NIL | NIL |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | 1007A | NIL | NIL | NIL |
| RJTD | | | 10:02/A+G 10:10/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:07/X | 10:04/G 10:26/X | 09:58/G 10:05/X | NIL | 10:02/G+10:03/A 10:10/X | NIL | NIL | NIL |
| WMO-AA | Centre | MWO | WVNT21 EGRR (EGGX) | WVNT32 LPMG (LPPO) | WVOS31 LOWW (LOVV) | WVPL31 EPWA (EPWW) | WVPO31 LPMG (LPCC) | WVQB31 LDZM (LQSB) | WVQB32 LYBM (LQSB) | WVRA31 RUCH (UIAA) | WVRA31 RUEK (USSS) | WVRA31 RUHB (UHBB) | WVRA31 RUIR (UIII) | WVRA31 RUMG (UHMM) |

| WMO-AA | ROC | MWO | WVRA31 RUPK (UHPP) | WVRA31 RUUF (UWUU) | WVRA31 RUYK (UEEE) | WVRA32 RUEK (USPP) | WVRA32 RUYK (UELL) | WVRA33 RUEK (USCC) | WVRA38 RUYK (UEST) | WVRH31 LDZM (LDZO) | WVRM31 LUKK (LUUU) | WVRO31 LROM (LRBB) | WVRS31 RUAA (ULAA) | WVRS31 RUKG (UMKK) |
|--------------------------|--------|----------|--------------------|----------------------------|--------------------|----------------------------|--------------------|----------------------------|--------------------|---------------------|---------------------|---------------------|----------------------------|----------------------------|
| UK | EGGG | EGGY | NIL | 05.09.2013 10:01:16 | NIL | 05.09.2013 10:01:16 | NIL | 05.09.2013 10:00:12 | NIL | 05.09.2013 10:02:43 | 05.09.2013 10:00:37 | 05.09.2013 10:00:35 | 05.09.2013 10:00:11 | 05.09.2013 10:01:11 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | NIL | 10:02:09/S | NIL | 10:02:08/S | NIL | 10:00:39/S | NIL | 10:03:05/S | 10:01:07/S | 10:01:07/S | 10:00:40/S | 10:02:10/S |
| BX | EGGG | EBBR | NIL | 10:00/A | NIL | 10:00/A | NIL | 10:00/A | NIL | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| DN | EGGG | EKCH | NIL | 1001A | NIL | 1001A | NIL | 1000A | NIL | 1002A | 1000A | 1000A | 1000A | 1001A |
| IE | EGGG | EIDB | NIL | 10:02/G | NIL | 10:02/G | NIL | 10:01/A | NIL | 10:05/G | 10:03/G | 10:03/G | 10:01/A | 10:03/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | NIL | 10:00:00 | NIL | 10:00:00 | NIL | 10:00:00 | NIL | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | NIL | 10:01/G | NIL | 10:01/G | NIL | 10:00/G | NIL | 10:03/G | 10:01/G | 10:01/G | 10:00/G | 10:01/G |
| LV | EGGG | EVRA | NIL | 10:02/G | NIL | 10:02/G | NIL | 10:00/G | NIL | 10:03/G+10:16/X | 10:01/X | 10:00/G | 10:00/G | 10:02/G |
| LV | EGGG | EVRRITNX | NIL | 10:01/A | NIL | 10:01/A | NIL | 10:00/A | NIL | 10:02/A | 10:00/A | 10:00/A | 10:00/A | 10:01/A |
| NO | EGGG | ENMI | NIL | 1001/A | NIL | 1001/A | NIL | 1001/A | NIL | 1002/A | 1001/A | 1001/A | 1000/A | 1001/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | NIL | 10:01/G+A | NIL | 10:01/G+A | NIL | 10:00/G+A | NIL | 10:02/G+A | 10:00/G+not recvd/A | 10:00/G+A | 10:00/G+A | 10:01/G+A |
| FR | LFPW | LFPW | NIL | 10:01/A+S | NIL | 10:01/A+S | NIL | 10:00/A+S | NIL | 10:02/A+S | 10:00/A+S | 10:00/A+S | 10:00/A+S | 10:00/A+S |
| SP/CR | LFPW | LEMM | NIL | 10:01/ A+G | NIL | 10:01/ A+G | NIL | 10:00/ A+G | NIL | 10:02/ A+G | 10:00/ A+G | 10:00/ A+G | 10:00/ A+G | 10:01/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | NIL | 1001/G | NIL | 1001/G | NIL | 1000/G | NIL | 1002/A/G | 1000/A/G | 1000/A/G | 1000/G | 1001/G |
| DL | LOWM | EDDF | NIL | 1001/A+G | NIL | 1001/A+G | NIL | 1000/A+G | NIL | 1002/A+1004/G | 1000/A+1001/G | 1000/A+1001/G | 1000/A+G | 1001/A+G |
| TU | LOWM | LTAC | NIL | 10:01/G | NIL | 10:01/G | NIL | 10:00/G | NIL | 10:15/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | NIL | 10:01/G | NIL | 10:01/G | NIL | 10:00/G | NIL | 10:02/G | 10:00/G | 10:00/G | 10:00/G | 10:01/G |
| RO | LOWM | LROM | NIL | 10:01/A | NIL | 10:01/A | NIL | 10:00/A | NIL | 10:02/A | 10:00/A | | 10:00/A | 10:01/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | NIL | 10:01/S | NIL | 10:01/S | NIL | 10:00/S | NIL | 10:02/S | 10:00/S | 10:00/S | 10:00/S | 10:01/S |
| SQ | LOWM | LZIB | NIL | 10:02:00/G | NIL | 10:02:00/G | NIL | 10:00:19/G | NIL | 10:03:11/G | 10:01:04/G | 10:01:03/G | 10:00:46/G | 10:02:00/G |
| RM | LOWM | LUKK | | | | | | | | 10:02 | | 10:00 | | 10:01 |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | NIL | 10:01/G | NIL | 10:01/G | NIL | 10:00/G | NIL | 10:02/G | 10:00/G | 10:01/G | 10:00/G | 10:01/G |
| GR | LOWM | LGAT | NIL | 10:01/A/S | NIL | 10:01/A/S | NIL | 10:00/A/S | NIL | 10:02/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:01/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | NIL | 10:04/A | NIL | 10:04/A | NIL | 10:03/A | NIL | 10:05/A | 10:03/A | 10:03/A | 10:03/A | 10:04/A |
| BY | LOWM | UMMS | NIL | 10:00/A | NIL | 10:00/A | NIL | 09:59/A | NIL | 10:03/A | 10:01/A | 10:01/A | 09:59/A | 10:00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | NIL | 10:00/G | NIL | 10:00/G | NIL | 09:59/G | NIL | 10:03/G | 10:01/G | 10:01/G | 09:59/G | 10:00/G |
| RA/RS | LOWM | UWOO | NIL | not rccvd | NIL | not rccvd | NIL | not rccvd | NIL | not rccvd | not rccvd | not rccvd | 10:00/G | 10:00/G |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | NIL | 10:02/G | NIL | 10:02/G | NIL | 10:00/G | NIL | 10:03+10:16/G | 10:11/B | 10:11/B | 10:00/G | 10:02/G |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | NIL | 10:01/A | NIL | 10:01/A | NIL | 10:00/A | NIL | 10:02/A | 10:00/A | 10:00/A | 10:00/A | 10:01/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | NIL | 1006A | NIL | 1005A | NIL | 1003A | NIL | not rccvd | not rccvd | not rccvd | 1003A | 1006A |
| RJTD | | | NIL | 10:00/G+10:02/A 10:07/X | NIL | 10:00/G+10:02/A 10:07/X | NIL | 10:00/G+10:01/A 10:07/X | NIL | 10:03/G 10:10/X | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:00/G+10:01/A 10:07/X | 10:00/G+10:02/A 10:07/X |
| WMO-AA | Centre | MWO | WVRA31 RUPK (UHPP) | WVRA31 RUUF (UWUU) | WVRA31 RUYK (UEEE) | WVRA32 RUEK (USPP) | WVRA32 RUYK (UELL) | WVRA33 RUEK (USCC) | WVRA38 RUYK (UEST) | WVRH31 LDZM (LDZO) | WVRM31 LUKK (LUUU) | WVRO31 LROM (LRBB) | WVRS31 RUAA (ULAA) | WVRS31 RUKG (UMKK) |

| WMO-AA | ROC | MWO | WVRS31 RUKZ (UWKD) | WVRS31 RUMA (UUWV) | WVRS31 RUMU (ULMM) | WVRS31 RUNN (USKK) | WVRS31 RURD (URRV) | WVRS31 RUSM (UWWW) | WVRS31 RUSP (ULLL) | WVRS32 RUAA (UUYY) | WVRS32 RUSM (UWOO) | WVRS33RUAA (ULKK) | WVRS34 RUAA (ULWW) | WVRS37 RUAA (ULAM) |
|--------------------------|--------|----------|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| UK SADIS | EGGG | EGGY | NIL | 05.09.2013 10:00:12 | 05.09.2013 10:01:11 | 05.09.2013 10:01:11 | 05.09.2013 10:01:16 | 05.09.2013 10:00:11 | 05.09.2013 10:01:11 | 05.09.2013 10:01:15 | 05.09.2013 10:00:12 | 05.09.2013 10:03:21 | 05.09.2013 10:01:14 | 05.09.2013 10:00:13 |
| NL | EGGG | EHDB | NIL | 10:00:39/S | 10:02:10/S | 10:02:10/S | 10:02:09/S | 10:00:37/S | 10:02:08/S | 10:02:07/S | 10:00:40/S | 10:03:47/S | 10:02:07/S | 10:00:41/S |
| BX | EGGG | EBBR | NIL | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| DN | EGGG | EKCH | NIL | 1000A | 1001A | 1001A | 1001A | 1000A | 1001A | 1001A | 1000A | 1003A | 1001A | 1000A |
| IE | EGGG | EIDB | NIL | 10:01/A | 10:03/A | 10:03/G | 10:02/G | 10:01/A | 10:02/G | 10:02/G | 10:01/A | 10:06/G | 10:02/G | 10:01/A |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | NIL | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | NIL | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:00/G | 10:01/G | 10:01/G | 10:00/G | 10:03/G | 10:01/G | 10:00/G |
| LV | EGGG | EVRA | NIL | 10:00/G | 10:01/X | 10:02/G | 10:02/G | 10:00/G | 10:02/G | 10:02/G | 10:00/G | 10:04/G | 10:02/G | 10:00/G |
| LV | EGGG | EVRRITNX | NIL | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 10:01/A | 10:01/A | 10:00/A | 10:03/A | 10:01/A | 10:00/A |
| NO | EGGG | ENMI | NIL | 1000/A | 1001/A | 1001/A | 1001/A | 1000/A | 1001/A | 1001/A | 1000/A | 1003/A | 1001/A | 1000/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | NIL | 10:00/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:00/G+A | 10:01/G+A | 10:00/G+10:01/A | 10:00/G+A | 10:03/G+A | 10:01/G+A | 10:00/G+A |
| FR | LFPW | LFPW | NIL | 10:00/A+S | 10:00/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:00/A+S | 10:03/A+S | 10:01/A+S | 10:00/A+S |
| SP/CR | LFPW | LEMM | NIL | 10:00/ A+G | 10:00/ A+G | 10:01/ A+G | 10:01/ A+G | 10:00/ A+G | 10:01/ A+G | 10:01/ A+G | 10:00/ A+G | 10:03/ A+G | 10:01/ A+G | 10:00/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | NIL | 1000/G | 1001/G | 1001/G | 1001/G | 1000/G | 1001/G | 1001/G | 1000/G | 1003/G | 1001/G | 1000/G |
| DL | LOWM | EDDF | NIL | 1000/A+G | 1001/A+G | 1001/A+G | 1001/A+G | 1000/A+G | 1001/A+G | 1001/A+G | 1000/A+G | 1003/A+G | 1001/A+G | 1000/A+G |
| TU | LOWM | LTAC | NIL | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:00/G | 10:01/G | 10:01/G | 10:00/G | 10:03/G | 10:01/G | 10:00/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | NIL | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:00/G | 10:01/G | 10:01/G | 10:00/G | 10:03/G | 10:01/G | 10:00/G |
| RO | LOWM | LROM | NIL | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 10:01/A | 10:01/A | 10:00/A | 10:03/A | 10:01/A | 10:00/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | NIL | 10:00/S | 10:01/S | 10:01/S | 10:01/S | 10:00/S | 10:01/S | 10:01/S | 10:00/S | 10:03/S | 10:01/S | 10:00/S |
| SQ | LOWM | LZIB | NIL | 10:00:45/G | 10:02:00/G | 10:02:00/G | 10:02:00/G | 10:00:45/G | 10:02:00/G | 10:01:59/G | 10:00:45/G | 10:03:54/G | 10:01:59/G | 10:00:46/G |
| RM | LOWM | LUKK | | 10:00 | | | 10:01 | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | NIL | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:00/G | 10:01/G | 10:01/G | 10:00/G | 10:03/G | 10:01/G | 10:00/G |
| GR | LOWM | LGAT | NIL | 10:00/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:00/A/S/X | 10:03/A/S/X | 10:01/A/S/X | 10:00/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | NIL | 10:03/A | 10:03/A | 10:04/A | 10:04/A | 10:03/A | 10:04/A | 10:04/A | 10:03/A | 10:06/A | 10:04/A | 10:03/A |
| BY | LOWM | UMMS | NIL | 09.59/A | 10.00/A | 10.00/A | 10.00/A | 09.59/A | 10.00/A | 10.00/A | 09.59/A | 10.03/A | 10.00/A | 10.00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | NIL | 09:59/G | 10:00/G | 10:00/G | 10:00/G | 09:59/G | 10:00/G | 10:00/G | 09:59/G | 10:03/G | 10:00/G | 10:00/G |
| RA/RS | LOWM | UWOO | NIL | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 09:59/G | 10:00/G | 10:00/G | not rcvcd | 10:03/G | 10:00/G | 10:00/G |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | NIL | 10:00/G | 10:01/G | 10:02/G | 10:02/G | 10:00/G | 10:02/G | 10:01/G | 10:00/G | 10:04/G | 10:01/G | 10:00/G |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | NIL | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 10:01/A | 10:01/A | 10:00/A | 10:03/A | 10:01/A | 10:00/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | NIL | 1003A | 1006A | 1006A | 1005A | 1002A | 1005A | 1005A | 1003A | 1008A | 1005A | 1003A |
| RJTD | | | NIL | 10:00/G+10:01/A 10:07/X | 10:01/G+10:02/A 10:08/X | 10:00/G+10:02/A 10:07/X | 10:00/G+10:02/A 10:07/X | 10:00/G+10:01/A 10:07/X | 10:00/G+10:02/A 10:07/X | 10:00/G+10:02/A 10:07/X | 10:00/G+10:01/A 10:07/X | 10:03/G+10:04/A 10:10/X | 10:00/G+10:02/A 10:07/X | 10:00/G+10:01/A 10:07/X |
| WMO-AA | Centre | MWO | WVRS31 RUKZ (UWKD) | WVRS31 RUMA (UUWV) | WVRS31 RUMU (ULMM) | WVRS31 RUNN (USKK) | WVRS31 RURD (URRV) | WVRS31 RUSM (UWWW) | WVRS31 RUSP (ULLL) | WVRS32 RUAA (UUYY) | WVRS32 RUSM (UWOO) | WVRS33RUAA (ULKK) | WVRS34 RUAA (ULWW) | WVRS37 RUAA (ULAM) |

| WMO-AA | ROC | MWO | WVSN31 ESWI (ESAA) | WVSP31 LEMM (LECM) | WVSP32 LEMM (LECB) | WVSN31 LZIB (LZBB) | WVSW31 LSSW (LSAS) | WVTU31 LTAC (LTAA) | WVTU31 LTBA (LTBB) | WVUK31 EGRR (EGTT) | WVUK32 EGJJ (EGJJ) | WVUK33 EGRR (EGPX) | WVUR31 UKBV (UKBV) | WVUR32 UKLV (UKLV) |
|--------------------------|--------|----------|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|---------------------|----------------------------|--------------------|----------------------------|---------------------|--------------------|
| UK SADIS | EGGG | EGGY | NIL | 05.09.2013 10:03:19 | 05.09.2013 10:03:40 | 05.09.2013 10:00: | 05.09.2013 09:58:58 | 05.09.2013 09:58:0 | 05.09.2013 10:02:11 | | | | 05.09.2013 10:01:03 | 05.09.2013 09:59:5 |
| NL | EGGG | EHDB | NIL | 10:03:41/S | 10:04:09/S | 10:00:42/S | 9:59:10/S | 9:58:16/S | 10:02:45/S | 10:03:04/S | NIL | 10:03:04/S | 10:01:23/S | 10:00:07/S |
| BX | EGGG | EBBR | NIL | 10:00/A | 10:00/A | 10:00/A | 09:43/A | 10:00/A | 10:00/A | 10:01/A | NIL | 10:01/A | 10:00/A | 10:00/A |
| DN | EGGG | EKCH | NIL | 1003A | 1003A | 1000A | 0959A | 0958A | 1002A | 1002A | NIL | 1002A | 1001A | 1000A |
| IE | EGGG | EIDB | NIL | 10:06/G | 10:06/G | 10:03/G | 10:02/G | 10:01/G | 10:05/G | 10:04/G | NIL | 10:04/G | 10:03/A | 10:01/A |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | NIL | 10:00:00 | 10:00:00 | 10:00:00 | 9:43:00 | 10:00:00 | 10:00:00 | 10:01:00 | NIL | 10:01:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | NIL | 10:03/G | 10:03/G | 10:00/G | 09:59/G | 09:58/G | 10:02/G | 10:02/G | NIL | 10:02/G | 10:01/G | 10:00/G |
| LV | EGGG | EVRA | NIL | 10:04/G | 10:04/G | 10:00/G | 09:59/G | 09:58/G | 10:03/X | 10:03/X | NIL | 10:03/X | 10:02/G | 10:00/G |
| LV | EGGG | EVRRITNX | NIL | 10:03/A | 10:03/A | 10:00/A | 9:59/A | 9:58/A | 10:02/A | 10:02/A | NIL | 10:02/A | 10:01/A | 9:59/A |
| NO | EGGG | ENMI | NIL | 1003/A | 1003/A | 1000/A | 1000/A | 0958/A | 1002/A | 1002/A | NIL | 1002/A | 1001/A | 1000/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | NIL | | | | | | | 1002A | NIL | 1002A | | |
| EO | EGGG | EEMH | NIL | 10:03/G+A | 10:03/G+A | 10:00/G+A | 09:59/G+A | 09:58/G+A | 10:02/G+A | 10:02/G+A | NIL | 10:02/G+A | 10:01/G+A | 09:59/G+10:00/A |
| FR | LFPW | LFPW | NIL | 10:03/A+S | 10:03/A+S | 10:00/A+S | 09:59/A+S | 09:58/A+S | 10:02/A+S | 10:02/A+S | NIL | 10:02/A+S | 10:01/A+S | 09:59/A+S |
| SP/CR | LFPW | LEMM | NIL | | | 10:00/ A+G | 10:00/ G | 09:59/ X | 10:02/ A+G+X | 10:02/ A+G | NIL | 10:02/ A+G | 10:01/ A+G | 10:00/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| OS | LOWM | LOWM | NIL | 1003/A/G | 1003/A/G | 1000/G | 0958/A/G | 0958/G | 1002/G | 1002/A/G | NIL | 1002/A/G | 1001/A/G | 0959/A/G |
| DL | LOWM | EDDF | NIL | 1003/A+1004/G | 1003/A+1004/G | 1000/A+1001/G | 0959/A+1000/G | 0958/A+/G | 1002/A+/G | 1003/G | NIL | 1003/G | 1001/A+1002/G | 1000/A+1001/G |
| TU | LOWM | LTAC | NIL | 10:03/G | 10:03/G | 10:00/G | 09:58/G | | | 10:02/G | NIL | 10:02/S | 10:01/G | 09:59/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | NIL | 10:03/G | 10:03/G | 10:00/G | 09:58/G | 09:58/G | 10:02/G | not rccvd | NIL | not rccvd | 10:01/G | 10:00/G |
| RO | LOWM | LROM | NIL | 10:03/A | 10:03/A | 10:00/A | 09:58/A | 09:58/A | 10:02/A | 10:02/A | NIL | 10:02/A | 10:01/A | 09:59/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | NIL | 10:03/S | 10:03/S | 10:00/S | 09:59/S | 09:58/S | 10:02/S | 10:02/S | NIL | 10:02/S | 10:01/S | 09:59/S |
| SQ | LOWM | LZIB | NIL | 10:03:45/G | 10:04:06/G | 10:00:12/G | 09:59:25/G | 09:58:35/G | 10:02:46/G | 10:07:05/S | NIL | 10:07:05/S | 10:01:30/G | 10:00:22/G |
| RM | LOWM | LUKK | | | | 10:00 | | 9:58 | 10:02 | | | | 10:01 | 9:59 |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | NIL | 10:03/G | 10:03/G | 10:00/G | 09:59/G | 09:58/G | 10:02/G | 10:02/G | NIL | 10:02/G | 10:01/G | 09:59/G |
| GR | LOWM | LGAT | NIL | 10:03/A/S/X | 10:03/A/S/X | 10:00/A/S/X | 09:58/A/S/X | 09:58/A/S/X | 10:02/A/S/X | 10:02/S/X | NIL | 10:02/S/X | 10:01/A/S/X | 09:59/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | NIL | 10:06/A | 10:06/A | 10:03/A | 10:01/A | 10:01/A | 10:05/A | 10:05/A | NIL | 10:05/A | 10:04/A | not rccvd |
| BY | LOWM | UMMS | NIL | 10:03/A | 10:04/A | 10:00/A | 09:59/A | 09:58/A | 10:02/A | 10:02/A | NIL | 10:02/A | 10:01/A | 10:00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | NIL | 10:03/G | 10:04/G | 10:00/G | 09:59/G | 09:58/G | 10:02/G | 10:02/G | NIL | 10:02/G | 10:01/G | 10:00/G |
| RA/RS | LOWM | UWOO | NIL | 10:03/G | 10:04/G | not rccvd | not rccvd | not rccvd | not rccvd | 10:01/G | NIL | 10:01/G | 10:01/G | 10:00/G |
| Reception only via SADIS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | | | NIL | 10:03/A | 10:03/A | 10:11/B | 10:10/B | 10:09/B | 10:09/B | 10:02/G | NIL | 10:02/G | 10:01/G | 10:00/G |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | NIL | 10:03/A | 10:03/A | 10:00/A | 09:59/A | 09:58/A | 10:02/A | 10:02/A | NIL | 10:02/A | 10:01/A | 10:00/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd |
| RJTD | | | NIL | 10:03/G 10:10/X | 10:03/G 10:10/X | 10:00/G 10:07/X | 10:00/G 10:06/X | 09:59/G 10:06/X | 10:02/G 10:10/X | 10:01/G+10:02/A 10:08/X | NIL | 10:01/G+10:02/A 10:10/X | 10:01/G 10:08/X | 10:00/G 10:07/X |
| WMO-AA | Centre | MWO | WVSN31 ESWI (ESAA) | WVSP31 LEMM (LECM) | WVSP32 LEMM (LECB) | WVSN31 LZIB (LZBB) | WVSW31 LSSW (LSAS) | WVTU31 LTAC (LTAA) | WVTU31 LTBA (LTBB) | WVUK31 EGRR (EGTT) | WVUK32 EGJJ (EGJJ) | WVUK33 EGRR (EGPX) | WVUR31 UKBV (UKBV) | WVUR32 UKLV (UKLV) |

| WMO-AA | ROC | MWO | WVUR33 UKOV (UKOV) | WVUR34 UKFV (UKFV) | WVUR35 UKDV (UKDV) | WVUZ31 UTSS (UTS) | WVUZ31 UTTR (UTTR) | WVYG31 LYBM (LYBA) | | PFXD01 EGRR | | WVEG31 HECA (HECC) | WVJD01 OJAM (OJAM) | | WVAB31 LATI (LAAA) |
|--------------------------|--------|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|---------------------|--|-----------------------|--|--|--------------------|
| UK SADIS | EGGG | EGGY | 05.09.2013 10:00:29 | 05.09.2013 10:00:31 | 05.09.2013 10:02:21 | 05.09.2013 10:01:48 | 05.09.2013 10:00:51 | 05.09.2013 10:14:24 | | 05.09.2013 10:00:48 | | 05.09.2013 09:57:57 | NIL | | |
| NL | EGGG | EHDB | 10:00:55/S | 10:00:56/S | 10:02:59/S | not rccvd | 10:01:21/S | 10:14:49/S | | 10:29:22/S | | 09:58:15/S | NIL | | 10:04:26/S |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | 10:00/A | not rccvd | 10:00/A | 10:00/A | | | | 10:00/A | NIL | | |
| DN | EGGG | EKCH | 1000A | 1000A | 1002A | 1001A | 1000A | 0959A | | | | 0958A | NIL | | |
| IE | EGGG | EIDB | 10:01/A | 10:01/A | 10:05/G | 10:05/G | 10:03/G | 10:17/G | | ? | | 10:00/G | NIL | | |
| IL | EGGG | BICC | | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | | | | 10:00:00 | NIL | | |
| LT | EGGG | EYVI | 10:00/G | 10:00/G | 10:02/G | (UTSR) 10:02/G | 10:01/G | 10:15/G | | 10:02/G | | 09:58/G | NIL | | 10:05/G |
| LV | EGGG | EVRA | 10:00/G | 10:00/G | 10:03/X | 10:02/X | 10:02/G | 10:15/X | | 10:01/X | | 09:58/X+09:59/X+10:05 | NIL | | |
| LV | EGGG | EVRRITNX | 10:00/A | 10:00/A | 10:02/A | not rccvd | 10:00/A | 10:14/A | | 10:00/S | | 9:58/A | NIL | | |
| NO | EGGG | ENMI | 1001/A | 1001/A | 1002/A | 1003/X | 1001/A | 1014/A | | not received | | 0958/A | NIL | | 1005/X |
| SN | EGGG | ESWI | | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:00/G+A | 10:00/G+A | 10:02/G+A | 10:02/G+not rccvd/A | 10:00/G+A | 10:14/G+A | | NIL | | 09:58/G+A | NIL | | |
| FR | LFPW | LFPW | 10:00/A+S | 10:00/A+S | 10:02/A+S | 10:01/A+S | 10:00/A+S | 10:14/A+S | | 10:06/S | | 09:58/A+S | 10:06/S | | |
| SP/CR | LFPW | LEMM | 10:00/ A+G | 10:00/ A+G | 10:02/ A+G | 10:01/ A+G | 10:00/ A+G | 10:14/ A+G | | 10:00/ G | | 09:58/ A+G | NIL | | 10:04/ X |
| IY | LFPW | LIIB | | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1000/A/G | 1000/A/G | 1002/A/G | 1001/A/G | 1000/A/G | 1011/G:1014/G | | | | 0957/A | NIL | | 1003/A:1004/G |
| DL | LOWM | EDDF | 1000/A+1001/G | 1000/A+1001/G | 1002/A+1003/G | 1001/G | 1000/A+1002/G | 1014/A+1015/G | | 0944/G | | 0958/A+0959/G | NIL | | |
| TU | LOWM | LTAC | 10:00/G | 10:00/G | 10:02/G | 10:01/G | 10:00/G | 10:14/G | | 10:00/S | | 09:57/G | NIL | | |
| SW | LOWM | LSSW | | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:00/G | 10:00/G | 10:02/G | 10:02/G | 10:01/G | 10:14/G | | Not rccvd | | 09:57/G | NIL | | 10:04/G |
| RO | LOWM | LROM | 10:00/A | 10:00/A | 10:02/A | 10:01/A | 10:00/A | 10:14/A | | not rccvd | | 09:57/A | NIL | | |
| BU | LOWM | LBSF | | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:00/S | 10:00/S | 10:02/S | 10:02/G | 10:00/S | 10:19/S | | 10:00/S | | 10:04/S | NIL | | |
| SQ | LOWM | LZIB | 10:00:57/G | 10:00:58/G | 10:02:53/G | 10:02:35/G | 10:01:18/G | 10:14:50/G | | 10:01:22/X | | 09:58:25/G | NIL | | |
| RM | LOWM | LUKK | 10:00 | 10:00 | 10:02 | | | 9:14 | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:00/G | 10:00/G | 10:02/G | 10:00/G | 10:00/G | 10:11/G | | | | 10:04/G | NIL | | |
| GR | LOWM | LGAT | 10:00/A/S/X | 10:00/A/S/X | 10:02/A/S/X | 10:01/A/X | 10:00/A/S/X | 10:14/A/S/X | | NO RQ | | 09:57/A/S/X | NIL | | 10:04/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:03/A | 10:03/A | 10:05/A | 0:04/A For UTSR Fil | 10:04/A | 10:23/A | | - | | 10:00/A | NIL | | |
| BY | LOWM | UMMS | 10:01/A | 10:01/A | 10:02/A | 10:02/A | 10:02/A | 10:13/A | | Not rccvd | | 09:59/a | NIL | | 10:04/A |
| IS | LOWM | LLBG | | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:01/G | 10:01/G | 10:02/G | 10:02/G | 10:01/G | 10:12/G | | 10:00/G | | 09:58/G | NIL | | |
| RA/RS | LOWM | UWOO | 10:00/G | not rccvd | 10:02/G | not rccvd | not rccvd | 10:13/G | | not rccvd | | not rccvd | NIL | | |
| Reception only via SADIS | | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | | |
| GOOY | | | 10:01/G | 10:01/G | 10:02/G | not rccvd | 10:11/B | 10:28/B | | | | | NIL | | 10:23/B |
| FAPR | | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | | |
| WSSS | | | 10:00/A | 10:00/A | 10:02/A | not rccvd | 10:01/A | 10:14/A | | 10:00/X | | 09:58/A | 09:50/G (for WSJA01 OJAM 051000) | | |
| YBBN | | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | | | | 1004A | NIL | | |
| RJTD | | | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:02/G 10:10/X | 10:02/G | 10:01/G | 10:13/G 10:25/X | | 10:00/G | | 09:58/G 10:05/X | NIL | | |
| WMO-AA | Centre | MWO | WVUR33 UKOV (UKOV) | WVUR34 UKFV (UKFV) | WVUR35 UKDV (UKDV) | WVUZ31 UTSS (UTSD) | WVUZ31 UTTR (UTTR) | WVYG31 LYBM (LYBA) | | PFXD01 EGRR | | WVEG31 HECA (HECC) | WVJD01 OJAM (OJAM) | | WVRS32 RUAU (UUYU) |

| WMO-AA | ROC | MWO | WVBN31 OBBI (OBBI) | WVIY31 LIMM (LIMM) | WVIY32 LIMM (LIRR) | WVIY33LIMM (LIBB) |
|--------------------------|--------|---------|--------------------|--------------------|--------------------|-------------------|
| UK | EGGG | EGGY | | | | |
| SADIS | | | | | | |
| NL | EGGG | EHDB | | | | |
| BX | EGGG | EBBR | | | | |
| DN | EGGG | EKCH | | | | |
| IE | EGGG | EIDB | | | | |
| IL | EGGG | BICC | | | | |
| FI | EGGG | EFHK | | | | |
| LT | EGGG | EYVI | | 10:15/G | 10:16/G | 10:16/G |
| LV | EGGG | EVRA | | | | |
| LV | EGGG | EVRITNX | | | | |
| NO | EGGG | ENMI | | | | |
| SN | EGGG | ESWI | | | | |
| GL | EGGG | BGSF | | | | |
| EO | EGGG | EEMH | | | | |
| FR | LFPW | LFPW | | | | |
| SP/CR | LFPW | LEMM | | | | |
| IY | LFPW | LIIB | | | | |
| IY | LFPW | LIMM | | | | |
| MC | LFPW | GMMC | | | | |
| MP | LFPW | LMMM | | | | |
| OS | LOWM | LOWM | 0959/A | 1014/G | 1015/G | 1015/G:1028/G |
| DL | LOWM | EDDF | | | | |
| TU | LOWM | LTAC | | | | |
| SW | LOWM | LSSW | | | | |
| CZ | LOWM | LKPR | | | | |
| HU | LOWM | LHBM | | 10:14/G | 10:15/G | |
| RO | LOWM | LROM | | | | |
| BU | LOWM | LBSF | | | | |
| LJ | LOWM | LJLJ | | | | |
| MJ | LOWM | LQSW | | | | |
| PL | LOWM | EPWA | | | | |
| SQ | LOWM | LZIB | | 10:15:04/G | 10:15:39/G | 10:17:27/G |
| RM | LOWM | LUKK | | | | |
| RH | LOWM | LDZA | | | | |
| YG | LOWM | LYBM | | | | |
| GR | LOWM | LGAT | | | | |
| AB | LOWM | LATI | | | | |
| CY | LOWM | LCLK | | | | |
| BY | LOWM | UMMS | 10.09/A | 10.15/A | 10.16/A | |
| IS | LOWM | LLBG | | | | |
| RA/RS | LOWM | RUMS | | | | |
| RA/RS | LOWM | UWOO | | 10:16/G | | |
| Reception only via SADIS | | | | | | |
| MP | LFPW | LMMM | | | | |
| PO/AZ | LFPW | LPMG | | | | |
| MID-region | | | | | | |
| OM | LOWM | OOMS | | | | |
| AFI-region | | | | | | |
| HKNC GTS | | | | | | |
| HKJK SADIS | | | | | | |
| GOOY | | | 10:09/S | | | |
| FAPR | | | | | | |
| ASIA/PAC-region | | | | | | |
| WSSS | | | | | | |
| YBBN | | | | | | |
| VTBB | | | | | | |
| RJTD | | | | | | |
| WMO-AA | Centre | MWO | WVRS32 RUAA (UUY) | WVRS32 RUAA (UUY) | WVRS32 RUAA (UUY) | |

APPENDIX F-2

**DATA MANAGEMENT GROUP (DMG)
TENTH MEETING**

(Copenhagen, 22nd – 24th October 2013)

(*SIGMET Monitoring*)
(Presented by Austria)

1. Introduction

The SIGMET Monitoring Exercise took place on the 4th September 2013 and was followed by a Volcanic Ash SIGMET Monitoring on the 5th September 2013.

As usual centres have been invited to participate two weeks before the monitoring date.

On the 4th September 2013 98 WS-Test-Bulletins have been sent. 4 actual SIGMET have been captured. 4 WS-Test-Bulletins have been received from the MID-region plus one actual SIGMET.

On the 5th September 2013, 2 FV- and 82 WV-TEST-Bulletins have been sent. One state in the MID-region also sent a test message.

Results for both monitoring exercises have been received from 28 EUR-centres and from the RODBs Singapore, Tokyo and Bangkok as well as from RODB Dakar.

The detailed results can be found as **Attachment A** (WS-Monitoring) and **Attachment B** (FV/WV-Monitoring) to this paper.

The latest results can also be found on the [DMG-website](#), together with the past ones.

2. Analysing the results

Some SIGMET messages have been received with a wrong header. Not all centres picked those up in the monitoring results. Those bulletins can be found in the following table:

| Correct header | Wrong Header |
|--------------------|-----------------------------|
| WSAB31 LATI (LATI) | WSAB31 LATI (LAAA) |
| WSNO36 ENMI (ENOR) | WSNO36 ENMI (ENOB) |
| WSRA32 RUOM (USTT) | WSRA32 RUOM (USTR) |
| WSUZ31 UTSS (UTSD) | WSUZ31 UTSS (UTSR) |
| | |
| WVNO36 ENMI (ENOR) | WVNO36 ENMI (ENOB) |
| WVUZ31 UTSS (UTSD) | WVUZ31 UTSS (UTSR) |

2.1 *Crosscheck with EUR DOC 014*

One of the tasks, when analysing the results, is to cross-check the received headers and FIRs with the ones listed in **EUR SIGMET and AIRMET Guide, APPENDIX B**. The following deficiencies have been identified:

WS/WVAB31 LATI:

The correct FIR-CCCC seems to be LAAA as this has also been used in actual SIGMET bulletins monitored during the last months. So the FIR-CCCC in DOC 014 has to be updated.

WVAB31 LATI is presently not in DOC 014 and has to be incorporated

WSKY31 UAFM:

This header was used in the latest version of the EXCEL-files. There was no test- or current bulletin received during the monitoring period, but some have been received during the actual year. The header used for those messages are in accordance with DOC 014 (WS/WVKG41 UAFM). This has already been updated in the actual results.

WS/WVNO36 ENMI (ENOR):

The correct FIR-CCCC is ENOB. In DOC 014 the header WSNO36 ENVN (ENOR) is indicated. Additionally to the monitoring exercise also actual SIGMET bulletins have been found during the last months. So the DOC 014 has to be updated. The EXCEL sheet will be updated as well.

WS/WVRA31 RUPV (UHMP):

Has been withdrawn by Moscow via METNO on the 07.02.2013. DOC 014 has to be updated

WS/WVRA32 RUPV (UHMA):

Has been withdrawn by Moscow via METNO on the 07.02.2013. DOC 014 has to be updated

WS/WVRA33 RUPV (UHMI):

Has been withdrawn by Moscow via METNO on the 07.02.2013. DOC 014 has to be updated

WSRA33 RUNW (UNBB):

Has been withdrawn by Moscow via METNO on the 07.02.2013. DOC 014 has to be updated

WS/WVRA33 RUOM (USHH):

Has been withdrawn by Moscow via METNO on the 24.03.2013. DOC 014 has to be updated

WS/WVRS33 RUSM (UWPP):

Has been withdrawn by Moscow via METNO on the 20.09.2012. DOC 014 has to be updated

WS/WVRA32 RUOM (USTT):

Has been withdrawn by Moscow via METNO on the 24.05.2012. DOC 014 has to be updated

WSRA35 RUOM (USRR):

Has been withdrawn by Moscow via METNO on the 24.03.2013. DOC 014 has to be updated

WS/WVRS32 RUSP (ULOL):

Has been withdrawn by Moscow via METNO on the 24.03.2013. DOC 014 has to be updated

WS/WVRS36 RUAA (UUYW):

Has been withdrawn by Moscow via METNO on the 24.03.2013. DOC 014 has to be updated

WSUZ31 UTSS (UTSS):

The correct FIR-CCCC seems to be UTSR as this has also been used in actual SIGMET bulletins monitored the last months. So DOC 014 has to be updated.

WVUZ31 UTSS:

Should be moved one line below in DOC 014

2.2 Routing issues

Only a few routing problems have been identified within the EUR-region. Most of those bulletins marked as “not received” have missed due to two main reasons:

- The bulletin header was slightly different compared to the one listed in the EXCEL-file
- The bulletin has not been routed further on by LOWM, but got deleted there

Finland:

The results have been rechecked by Finland, but two bulletins were not received:

WSRS31 RUMU
FVXX01 LFPW

UK is asked to check the routing for both.

Norway:

The results have been rechecked by Norway, but one bulletin was not received:

WVKZ31 UATT (UATT)

UK is asked to check the routing.

Vienna:

Although operators have been informed about the SIGMET-monitoring, test messages have been deleted.

Due to the above reason, some of the SIGMET messages of the Vienna AoR and most of the Test-messages from the MID-region have not been seen by most of the EUR-centres.

ASIA/PAC:

In regard to the results for Bangkok, this information has to be forwarded on to ASIA/PAC so they are able to sort out probable routing issues. Singapore has received all SIGMET-bulletins exchanged during the monitoring period. So it is proven that the data is correctly sent by EGGY.

3. Changes for the next monitoring exercise

The monitoring exercise once again proofed that the routing of SIGMET-messages within the EUR-region is nearly perfect. Due to that reason the group is asked whether there is still the need to have 2 monitoring exercises per year or whether it is enough to have just one. The second monitoring period could be used to perform a SIGMET-monitoring only for the MID-region. If the MID-region is willing to use this opportunity, the EUR-SIGMET focal point would be happy to perform such an exercise in close co-ordination with a member of that region.

Of course the EXCEL-sheets will be updated to reflect the actual situation and bulletin headers.

4. Conclusion

The group is invited to discuss the content of this paper.

| WMO-AA | Centre | MWO | WSAB31 LATI (LAAA) | WSAJ31 UBBB (UBBB) | WSAZ31 LPMG (LPPO) | WSBU31 LBSM (LBSR) | WSBX31 EBBR (EBBU) | WSBY31 UMMS (UMMV) | WSCR31 LEMM (GCCC) | WSCY31 LCLK (LCCC) | WSCZ31 LKPW (LKAA) | WSDL31 EDZF (EDGG) | WSDL31 EDZH (EDWW) | WSDL31 EDZM (EDMM) | WSDL32 EDZF (EDUU) |
|------------------------------|--------|----------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| UK | EGGG | EGGY | 04.09.2013 10:02: | 04.09.2013 10:15:4 | 04.09.2013 10:02: | NIL | 04.09.2013 10:00: | 04.09.2013 10:01:4 | 04.09.2013 10:03:40 | 04.09.2013 09:59: | 04.09.2013 10:01:2 | 04.09.2013 09:58: | 04.09.2013 10:03: | 04.09.2013 10:01: | 04.09.2013 09:59: |
| SADIS | | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:02:51/S | 10:15:57/S | 10:03:08/S | NIL | 10:00:35/S | 10:02:28/S | 10:04:04/S | 9:59:48/S | 10:01:38/S | 9:58:59/S | 10:03:51/S | 10:01:50/S | 9:59:49/S |
| BX | EGGG | EBBR | 10:00/A | 09:58/A | 10:03/A | NIL | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 09:58/A | 10:03/A | 10:00/A | 09:59/A |
| DN | EGGG | EKMI | not rccvd | 1015A | 1002A | NIL | 1002A | 1001A | 1003A | 0959A | 1001A | 0958A | 1003A | 1001A | 0959A |
| IE | EGGG | EIDB | not rccvd | 10:18/G | 10:05/G | NIL | 10:01/A | 10:03/G | 10:06/G | 10:03/G | 10:04/G | 10:02/G | 10:06/G | 10:03/G | 10:03/G |
| IL | EGGG | BICC | | | | | | | | | | | | | |
| FI | EGGG | EFHK | not rccvd | 9:58 | 10:03:00 | NIL | 10:00:00 | 10:00:00 | 10:00 | 10:00 | 10:00 | 9:55 | 10:03 | 10:00 | 9:59 |
| LT | EGGG | EYVI | 10:04/G | 10:16/G | 10:03/G | NIL | 10:01/G | 10:02/G | 10:04/G | 09:59/G | 10:02/G | 09:59/G | 10:05/G | 10:02/G | 10:01/G |
| LV | EGGG | EVRA | 10:03/X | 10:16/G | 10:03/G | NIL | 10:00/X | 10:02/X | 10:04/G | 10:00/G | 10:02/G | 10:00/X | 10:04/G | 10:02/G | 10:00/X |
| LV | EGGG | EVRRITNX | 10:02/A | 10:15/A | 10:02/A | NIL | 10:00/A | 10:01/A | 10:03/A | 9:59/A | 10:01/A | 9:58/A | 10:03/A | 10:01/A | 9:59/A |
| NO | EGGG | ENMI | 1002/A | 1015/A | 1002/A | NIL | 1000/A | 1002/A | 1003/A | 0959/A | 1001/A | 0958/A | 1003/A | 1001/A | 1000/A |
| SN | EGGG | ESWI | | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | | |
| EO | EGGG | EEMH | 0:24/G+not rccvd/ | 10:15/G+A | 10:02/G+A | NIL | 10:00/G+A | 10:01/G+A | 10:03/G+A | 09:59/G+A | 10:01/G+A | 09:58/G+A | 10:03/G+A | 10:01/G+A | 09:59/A+10:00/G |
| FR | LFPW | LFPW | 10:10/A+S | 10:21/A+S | 10:020/A+S+G | NIL | 09:59/A+S | 10:01/ S+A+G | 10:03/A+G+S | 10:10/A+S | 10:10/A+S | 09:58/A+S | 10:03/A+S | 10:01/A+S | 09:59/A+S |
| SP/CR | LFPW | LEMM | 10:02/ A+G | 10:15/A | 10:02/ A+G | NIL | 10:00/ A+G | 10:00/A | | 09:59/ A+G | 10:01/ A+G | 09:58/ G | 10:03/ A+G | 10:01/ A+G | 09:59/ X |
| IY | LFPW | LIIB | | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1002/A | 1001/A | 1002/A | NIL | 1000/A | 1001/A | 1003/A | 0959/A | 1001/G | 0958/G/A | 1003/G/A | 1001/A/G | 0959/G/A |
| DL | LOWM | EDDF | 1002/A+1004/G | 1015/A+1016/G | 1002/A+1003/G | NIL | 1000/A+1001/G | 1001/G+A | 1003/A+1004/G | 0959/A+1000/G | 1001/A+1002/G | | | | |
| TU | LOWM | LTAC | 10:02/G | 10:15/G | 10:02/G | NIL | 10:00/S | 10:01/G | 10:01/G | 09:59/G | 10:01/G | 09:58/G | 10:03/G | 10:01/G | 09:59/G |
| SW | LOWM | LSSW | | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:02/G | 10:15/G | 10:03/G | NIL | 10:00/G | 10:02/G | 10:03/G | 09:59/G | 10:01/G | 09:58/G | 10:03/G | 10:01/G | 10:00/G |
| RO | LOWM | LROM | 10:02/A | 10:15/A | 10:02 | NIL | 10:00/A | 10:01/A | 10:03/A | 09:59/A | 10:01/A | 09:58/A | 10:03/A | 10:01/A | 09:59/A |
| BU | LOWM | LBSF | | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:02/S | 10:15/S | 10:02/S | NIL | 10:00/S | 10:01/S | 10:03/S | 09:59/S | 10:01/S | 09:59/S | 10:03/S | 10:01/S | 09:59/S |
| SQ | LOWM | LZIB | 10:09:53/S | 10:16:18/G | 10:03:19/G | NIL | 10:00:37/G | 10:02:18/G | 10:04:07/G | 09:59:53/G | 10:02:16/G | 09:59:08/G | 10:03:53/G | 10:01:39/G | 10:00:09/G |
| RM | LOWM | LUKK | 10:02 | | | NIL | | 10:01 | | | 10:01 | 9:58 | 10:03 | 10:01 | 9:59 |
| RH | LOWM | LDZA | | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:02/G | 10:15/G | 10:03/G | NIL | 10:00/G | 10:01/G | 10:03/G | 09:59/G | 10:01/G | 10:00/G | 10:03/G | 10:04/G | 10:00/G |
| QB | LOWM | LQBK | | | | | | | | | | | | | |
| GR | LOWM | LGAT | 10:02/A/S/X | 10:15/A/S/X | 10:02/A/S/X | NIL | 10:00/A/S/X | 10:01/A/S/X | 10:03/A/S/X | 09:59/A/S/X | 10:01/A/S/X | 09:58/A/S/X | 10:03/A/S/X | 10:01/A/S/X | 09:59/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:05/A | 10:18/A | 10:05/A | NIL | 10:02/A | 10:03/A | 10:07/A | | 10:04/A | 10:01/A | 10:07/A | 10:04/A | 10:02/A |
| BY | LOWM | UMMS | 10:02/A | 10:16/A | 10:02/A | NIL | 10:00/A | | 10:04/A | 09:59/A | 10:00/A | 09:59/A | 10:03/A | 10:01/A | 10:00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:02/G | 10:16/G | 10:02/G | NIL | 10:00/G | 10:00/G | 10:04/G | 09:59/G | 10:00/G | 09:59/G | 10:03/G | 10:01/G | 10:00/G |
| RA/RS | LOWM | UWOO | not rccvd | 10:16/G | 10:03/G | NIL | 10:00/G | 10:00/G | 10:04/G | 10:00/G | 10:01/G | 09:59/G | 10:03/G | 10:01/G | 10:00/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 10:01/G+S | 10:25/S+A | 10:20/S+A | NIL | 09:59/G+S | 10:01/G+S | 10:03/A+G+S | 09:59/G+S | 10:01/G+S | 10:20/S | 10:03/G+S | 10:00/G+S | 09:59/G+S |
| FAPR | | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | | |
| WSSS | | | 10:02/A | 10:15/A | 10:02/A | NIL | 10:00/A | 10:02/A | 10:03/A | 09:59/A | 10:01/A | 09:58/A | 10:03/A | 10:01/A | 09:59/A |
| YBBN | | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:09/X | 10:16/G 10:23/X | 10:03/G 10:09/X | NIL | 10:00/A+G 10:07/X | 10:01/G 10:08/X | 10:04/G | 10:00/G 10:06/X | 10:02/G 10:08/X | 09:59/G 10:08/X | 10:04/G 10:10/X | 10:01/G 10:08/X | 10:00/G 10:06/X |
| WMO-AA | Centre | MWO | WSAB31 LATI (LAAA) | WSAJ31 UBBB (UBBB) | WSAZ31 LPMG (LPPO) | WSBU31 LBSM (LBSR) | WSBX31 EBBR (EBBU) | WSBY31 UMMS (UMMV) | WSCR31 LEMM (GCCC) | WSCY31 LCLK (LCCC) | WSCZ31 LKPW (LKAA) | WSDL31 EDZF (EDGG) | WSDL31 EDZH (EDWW) | WSDL31 EDZM (EDMM) | WSDL32 EDZF (EDUU) |

| WMO-AA | Centre | MWO | WSDL32 EDZH (EDYY) | WSDN31 EKCH (EKDK) | WSEE31 UDYZ (UDDD) | WSEO31 EETN (EETT) | WSFI31 EFHK (EFIN) | WSFR31 LFPW (LFFF) | WSFR32 LFPW (LFBB) | WSFR33 LFPW (LFEE) | WSFR34 LFPW (LFMM) | WSFR35 LFPW (LFRR) | WSGG31 UGTB (UGGG) | WSGL31 BGSF (BGGL) |
|------------------------------|--------|---------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------------------|
| UK | EGGG | EGGY | 04.09.2013 10:04 | 04.09.2013 09:55:09 | NIL | 04.09.2013 10:00 | 04.09.2013 10:00 | 04.09.2013 10:01:21 | 04.09.2013 10:01:22 | 04.09.2013 10:01:21 | 04.09.2013 10:01 | 04.09.2013 10:01:20 | 04.09.2013 10:00:50 | 04.09.2013 10:28:50 A/Current |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:04:33/S | 9:55:32/S | NIL | 10:00:37/S | 10:00:36/S | 10:01:35/S | 10:01:36/S | 10:01:36/S | 10:01:37/S | 10:01:35/S | 10:00:56/S | 10:29:11/cur/S |
| BX | EGGG | EBBR | 10:04/A | 09:55/A | NIL | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 08:22/A/current |
| DN | EGGG | EKMI | 1004A | | NIL | 1000A | 1000A | 1001A | 1001A | 1001A | 1001A | 1001A | 1000A | NIL |
| IE | EGGG | EIDB | 10:06/G | 09:59/G | NIL | 10:03/G | 10:03/G | 10:04/G | 10:04/G | 10:04/G | 10:04/G | 10:04/G | 10:03/G | NIL |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:04 | 9:55 | 10:00 | 10:00 | 10:00:00 | 10:00 | 10:00 | 10:00 | 10:00 | 10:00 | 10:00:00 | 8:23:00 |
| LT | EGGG | EYVI | 10:05/G | 09:55/G | NIL | 10:01/G | 10:01/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | (UGTB) 10:02/G | 10:30/G/current |
| LV | EGGG | EVRA | 10:05/G | 09:55/G | NIL | 10:00/X | 10:00/X | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:29/G/current |
| LV | EGGG | EVRITNX | 10:04/A | 9:55/A | NIL | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 10:28//current |
| NO | EGGG | ENMI | 1004/A | 0955/A | NIL | 1000/A | 1000/A | 1001/A | 1001/A | 1001/A | 1001/A | 1001/A | 1000/A | 1028/A/current |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | 0955/A | | | | | | | | | | |
| EO | EGGG | EEMH | 10:04/G+A | 09:55/G+A | NIL | 10:00/G+A | 10:00/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:00/A+10:01/G | G+A/current |
| FR | LFPW | LFPW | 10:04/A+S | 10:02/A+S | NIL | 10:10/A+S | 10:10/A+S | | | | | | 10:10/A+S | 10:36/A+S cur |
| SP/CR | LFPW | LEMM | 10:04/ A+G | 09:55/ A+G | 09:57/ A+G | 10:00/ A+G | 10:00/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:00/A | 08:23/A+G/current |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1004/G/A | 0955/A | NIL | 1000/A | 1000/A | 1001/A | 1001/A | 1001/A | 1001/A | 1001/A | 1000/A | 1028/A |
| DL | LOWM | EDDF | | 0955/A+0956/G | NIL | 1000/A+1001/G | 1000/A+1001/G | 1001/A+1002/G | 1001/A+1002/G | 1001/A+1002/G | 1001/A+1002/G | 1001/A+1002/G | 1000/A+1002/G | A/current+0824/G/c |
| TU | LOWM | LTAC | 10:04/G | 09:55/S | NIL | 10:00/S | 10:00/S | 10:00/S | 10:01/S | 10:01/S | 10:05/S | 10:01/S | 10:00/G | 10:28/G/current |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:04/G | 09:55/G | NIL | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 08:23/G/current |
| RO | LOWM | LROM | 10:04/A | 09:55/A | NIL | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | 10:28/current |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:04/S | 09:55/S | NIL | 10:00/S | 10:00/S | 10:01/S | 10:01/S | 10:01/S | 10:01/S | 10:01/S | 10:00/S | 10:29/S/current |
| SQ | LOWM | LZIB | 10:04:41/G | 09:55:38/G | NIL | 10:00:48/G | 10:00:48/G | 10:02:17/G | 10:02:17/G | 10:02:17/G | 10:02:17/G | 10:02:16/G | 10:01:31/G | 10:29:57/G |
| RM | LOWM | LUKK | 10:04 | | NIL | | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:04/G | 10:00/G | NIL | 10:00/G | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G | 08:22/G/Current |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 10:04/A/S/X | 09:55/A/S/X | NIL | 10:00/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:00/A/S/X | A/S/X/CURRENT |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:07/A | 09:58/A | NIL | 10:02/A | 10:02/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A | 10:03/A | 10:31/A/Current |
| BY | LOWM | UMMS | 10:04/A | 09:55/A | NIL | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:00/A | A/current |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:04/G | 09:55/G | NIL | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:00/A | 10:23/G/current |
| RA/RS | LOWM | UWOO | 10:04/G | 09:55/G | NIL | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G | 10:01/G | 10:01/G | NIL |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 10:03/G+S | 09:54/G+S | NIL | 10:00/G+S | 10:00/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:00/G+10:01/S | NIL |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:04/A | 09:55/A | NIL | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:28/A/Current |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:04/G 10:20/X | 09:56/G 10:02/X | NIL | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:02/G 10:08/X | 10:01/G 10:07/X | 08:30/X/current |
| WMO-AA | Centre | MWO | WSDL32 EDZH (EDYY) | WSDN31 EKCH (EKDK) | WSEE31 UDYZ (UDDD) | WSEO31 EETN (EETT) | WSFI31 EFHK (EFIN) | WSFR31 LFPW (LFFF) | WSFR32 LFPW (LFBB) | WSFR33 LFPW (LFEE) | WSFR34 LFPW (LFMM) | WSFR35 LFPW (LFRR) | WSGG31 UGTB (UGGG) | WSGL31 BGSF (BGGL) |

| WMO-AA | Centre | MWO | WSGR31 LGAT (LGGG) | WSHU31 LHBM (LHCC) | WSIE31 EIDB (EISN) | WSIL31 BICC (BIRD) | WSIS31 LLBG (LLLL) | WSIY31 LIIB (LIMM) | WSIY32 LIIB (LIRR) | WSIY33 LIIB (LIBB) | WSKG41 UAFM (UAFM) | WSKZ31 UAAA (UAAA) | WSKZ31 UACC (UACC) | WSKZ31 UAII (UAII) | WSKZ31 UATT (UATT) | |
|------------------------------|--------|----------|--|--------------------|----------------------|------------------------------------|--------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| UK | EGGG | EGGY | 04.09.2013 09:55:5 04.09.2013 10:00:12 04.09.2013 10:02: A/Current | | | | NIL | 04.09.2013 10:0 04.09.2013 10:0C 04.09.2013 10:00 | | | NIL | 04.09.2013 10:01:5 | NIL | NIL | NIL | 04.09.2013 10:00:3 |
| SADIS | | | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 9:56:24/S | 10:00:37/S | 10:02:52/S | 09:28:09/cur/S | NIL | 10:01:17/S | 10:01:18/S | 10:01:18/S | NIL | 10:02:32/S | NIL | NIL | 10:07:41/S | |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | 10:00/A | 09:21/A/current | NIL | 10:00/A | 10:00/A | 10:00/A | NIL | 10:04/A | NIL | NIL | 09:59/A | |
| DN | EGGG | EKMI | 0956A | 1000A | 1002A | 0924/C | NIL | 1000A | 1000A | 1000A | NIL | 1002A | NIL | NIL | 1000A | |
| IE | EGGG | EIDB | 09:59/G | 10:03/G | | NIL | NIL | 10:02/A | 10:02/A | 10:02/A | NIL | 10:05/G | NIL | NIL | 10:01/A | |
| IL | EGGG | BICC | | | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 10:00:00 | 9:26:00 | NIL | 10:00:00 | 10:00:00 | 10:00:00 | NIL | 10:04:00 | NIL | NIL | 10:05:00 | |
| LT | EGGG | EYVI | 09:56/G | 10:01/G | 10:03/G | 09:28/G/current | NIL | 10:01/G | 10:01/G | 10:01/G | NIL | 10:03/G | NIL | NIL | 10:01/G | |
| LV | EGGG | EVRA | 09:56/X | 10:00/X | 10:03/x+10:07/g | 09:28/G | NIL | 10:02/X | 10:02/X | 10:02/X | NIL | 10:02/X | NIL | NIL | 10:01/G+10:07/G | |
| LV | EGGG | EVRRITNX | 9:56/A | 10:00/A | 10:02/A | 9:27/A/current | NIL | 10:00/A | 10:00/A | 10:00/A | NIL | 10:02/A | NIL | NIL | 10:00/A | |
| NO | EGGG | ENMI | 0956/A | 1000/A | 1007/A | 0927/A/current | NIL | 1000/A | 1000/A | 1001/A | NIL | 1002/A | NIL | NIL | 1002/A | |
| SN | EGGG | ESWI | | | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | 1000A | 09:21/A/current | | | | | | | | | | |
| EO | EGGG | EEMH | 09:56/G+A | 10:00/G+A | 10:02/G+A | G+A/current | NIL | 10:00/G+A | 10:00/G+A | 10:00/G+A | NIL | 10:02/G+A | NIL | NIL | 10:00/G+A | |
| FR | LFPW | LFPW | 10:02/A+S | 10:10/A+S | 10:02/A+S | 09:35/A+S cur | NIL | 10:01/A+S+G | 10:01/A+S+G | 10:01/A+S+G | NIL | 10:10/A+S | NIL | NIL | 09:59/S | |
| SP/CR | LFPW | LEMM | 09:56/ A+G | 10:00/ A+G | 10:02/ A+G | 0924/A+G/curre | NIL | 10:00/A | 10:00/A | 10:00/A | NIL | 10:02/ A+G | NIL | NIL | 10:10/ A+G | |
| IY | LFPW | LIIB | | | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | | | |
| OS | LOWM | LOWM | 0955/A | 1000/G | 1002/A | 0924/A/curr | NIL | 1000/A | 1000/A | 1000/A/G | NIL | 1001/A | NIL | NIL | 01/G:1005/A:1007 | |
| DL | LOWM | EDDF | 0956/A+0957/G | 1000/A+1001/G | 1002/A+1003/G | current+0925/G/d | NIL | 1000/A+1002/G | 1000/A+1002/G | 1001/A+1002/G | NIL | 1002/A+1003/G | NIL | NIL | 1010/G | |
| TU | LOWM | LTAC | 09:55/G | 10:00/S | 10:02/G | 09:26/S/current | NIL | 10:00/G | 10:00/G | 10:00/G | NIL | 10:02/S | NIL | NIL | 10:00/S | |
| SW | LOWM | LSSW | | | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:55/G | | 10:02/G | 09:24/G/current | NIL | 10:01/G | 10:01/G | 10:01/G | NIL | 10:02/G | NIL | NIL | not rccvd | |
| RO | LOWM | LROM | 09:55/A | 10:00/A | 10:02/A | 09:24/current | NIL | 10:00/A | 10:00/A | 10:00/A | NIL | 10:01 | NIL | NIL | 10:15/A | |
| BU | LOWM | LBSF | | | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | | | |
| PL | LOWM | EPWA | 09:56/S | 10:00/S | 10:07/S | 09:27/S/current | NIL | 10:00/S | 10:00/S | 10:00/S | NIL | 10:07/S | NIL | NIL | 10:07/S | |
| SQ | LOWM | LZIB | 09:56:25/G | 10:00:38/G | 10:03:01/G | 09:28:17/G | NIL | 10:01:31/G | 10:01:31/G | 10:01:32/G | NIL | 10:02:37/G | NIL | NIL | 10:08:23/S | |
| RM | LOWM | LUKK | 9:56 | 10:00 | | | | | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | | | |
| YG | LOWM | LYBM | 09:55/G | 10:00/G | 10:02/G | 09:24/G/Current | NIL | 10:00/G | 10:00/G | 10:00/G | NIL | 10:02/G | NIL | NIL | 10:07/G | |
| QB | LOWM | LQBK | | | | | | | | | | | | | | |
| GR | LOWM | LGAT | | 10:00/A/S/X | 10:02/A/S/X | A/S/X/CURRENT | NIL | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | NIL | 10:02/A/S/X | NIL | NIL | 10:00/S/X | |
| AB | LOWM | LATI | | | | | | | | | | | | | | |
| CY | LOWM | LCLK | 09:58/A | 10:02/A | 10:10/A | 09:30/A/Current | NIL | 10:03/A | 10:03/A | 10:03/A | NIL | 10:04/A | 10:04/A | NIL | 10:13/A | |
| BY | LOWM | UMMS | 09:56/A | 10:00/A | 10:02/A | A/current | NIL | 10:00/A | 10:00/A | 10:01/A | NIL | 10:01/A | NIL | NIL | 10:00/A | |
| IS | LOWM | LLBG | | | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 09:56/G | 10:00/G | 10:02/G | 09:21/G/current | NIL | 10:00/G | 10:00/G | 10:01/G | NIL | 10:01/A | NIL | NIL | 09:59/A | |
| RA/RS | LOWM | UWOO | 09:56/G | 10:00/G | 10:02/G | NIL | NIL | 10:01/G | 10:01/G | 10:01/G | NIL | 10:02/G | NIL | NIL | 10:00/G | |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 09:55/G+S | 10:00/G+S | 10:07/G+S | NIL | NIL | 10:0/G+S | 10:0/G+S | 10:0/G+S | NIL | 10:02/G+S | 10:00/A | NIL | 10:00/G+S | |
| FAPR | | | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | | | |
| WSSS | | | 09:56/A | 10:00/A | 10:02/A | 09:24/A/Current | NIL | 10:01/A | 10:01/A | 10:01/A | NIL | 10:02/A | NIL | NIL | 10:00/A | |
| YBBN | | | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | NIL | not rccvd | NIL | NIL | not rccvd | |
| RJTD | | | 09:56/G 10:03/X | 10:00/G 10:07/X | 10:02/A+G 10:09/X | 09:25/G/current 09:31/X/current | NIL | 10:01/G 10:08/X | 10:01/G 10:08/X | 10:01/G 10:08/X | NIL | 10:02/G 10:09/X | NIL | NIL | 10:01/G 10:07/X | |
| WMO-AA | Centre | MWO | WSGR31 LGAT (LGGG) | WSHU31 LHBM (LHCC) | WSIE31 EIDB (EISN) | WSIL31 BICC (BIRD) | WSIS31 LLBG (LLLL) | WSIY31 LIIB (LIMM) | WSIY32 LIIB (LIRR) | WSIY33 LIIB (LIBB) | WSKG41 UAFM (UAFM) | WSKZ31 UAAA (UAAA) | WSKZ31 UACC (UACC) | WSKZ31 UAII (UAII) | WSKZ31 UATT (UATT) | |

| WMO-AA | Centre | MWO | WSLJ31 LJJLJ (LJLA) | WSLT31 EYVI (EYVL) | WSLV31 EVRA (EVRR) | WSMC31 GMMC (GMMM) | WSMJ31 LWSK (LWSS) | WSMP31 LMMM (LMMM) | WSNL31 EHDB (EHAA) | WSNO31 ENMI (ATSU=ENOS FIR=ENOR) | WSNO32 ENMI (ATSU=ENSV FIR=ENOR) | WSNO34 ENMI (ATSU=ENBD FIR=ENOR) | WSNO35 ENMI (ATSU=ENBD FIR=ENOR) | WSNO36 ENMI (ENOB) |
|------------------------------|--------|----------|---|--------------------|--------------------|----------------------|--------------------|------------------------------------|--------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------|
| UK | EGGG | EGGY | 04.09.2013 10:00:10 04.09.2013 10:00:04 04.09.2013 10:00:04 04.09.2013 10:00:47 04.09.2013 10:45:26 04.09.2013 09:11:08 A/Current 04.09.2013 10:00:05 04.09.2013 10:02:12 04.09.2013 09:59:00 04.09.2013 09:59:04 04.09.2013 10:23:50 04.09.2013 10:01:01 | | | | | | | | | | | |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:00:36/S | 10:00:33/S | 10:01:16/S | 10:01:16/S | 10:45:47/S | 09:11:36/cur/S | | 10:02:37/S | 9:59:23/S | 9:59:26/S | 10:24:18/S | 10:01:36/S |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 09:10/A/current | 10:00/A | 10:01/A | 09:58/A | 09:58/A | 10:23/A | 10:00/A |
| DN | EGGG | EKMI | 1000A | 1000A | 1000A | 1000A | 1045A | 1000A | 1001A | 1002A | 0959A | 0959A | 1023A | 1001A |
| IE | EGGG | EIDB | 10:03/G | 10:03/G | 10:03/G | 10:03/G | 10:49/G | 09:15/G/current | 10:03/G | 10:05/G | 10:00/A | 10:00/A | 10:24/A | 10:03/A |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | 10:00:00 | 8:00:00 | 10:45:00 | 9:11:00 | 10:00:00 | 10:01:00 | 9:58:00 | 9:58:00 | 10:24:00 | 10:00:00 |
| LT | EGGG | EYVI | 10:01/G | | 10:01/G | 10:01/G | 10:47/G | 09:12/G/current | 10:02/G | 10:03/G | 09:59/G | 09:59/G | 10:25/G | (ENOB)10:02/G |
| LV | EGGG | EVRA | 10:00/X | 10:00/A | | 10:02/X | 10:46/X | 09:11/G/current | 10:02/X | 10:03/X | 10:00/X | 10:00/X | 10:24/X | 10:02/G |
| LV | EGGG | EVRRITNX | 10:00/A | 10:00/A | | 10:00/A | 10:45/A | 9:10/A/current | 10:01/A | 10:02/A | 9:59/A | 9:59/A | 10:24/A | 10:01/A |
| NO | EGGG | ENMI | 1000/A | 1000/A | 1000/A | 1000/A | 1045/A | 0911/A/current | 1001/A | | | | | |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:00/G+A | 10:00/G+A | 10:00/G+A | 10:00/G+A | 10:45/A+10:46/G | G+A/current | 10:01/G+A | 10:02/G+A | 09:59/G+A | 09:59/G+A | 10:23/G+A | 10:01/G+A |
| FR | LFPW | LFPW | 10:10/A+S | 10:10/A+S | 10:10/A+S | 10:00/A+S | 10:50/A+S | 09:11/A+S cur | 10:01/G+S+A | 10:10/A+S | 10:10/A+S | 10:10/A+S | 10:30/A+S | 10:10/A+S |
| SP/CR | LFPW | LEMM | 10:00/ A+G | 10:00/ A+G | 10:00/A | 10:00/ A | 10:45/ A+G | 09:11/ A+G/current | 10:01/ A+G | 10:02/ A+G | 09:59/ A+G | 09:59/ A+G | 10:23/ A+G | 10:01/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1000/G | 1000/A | 1000/A | 1000/A | 0958/A:1045/A | 0911/A/curr | 1000/A | 1002/A | 0959/A | 0959/A | 1023/A | 1001/A |
| DL | LOWM | EDDF | 1000/A+1001/G | 1000/A+1001/G | 1000/A+1001/G | /A/current+0801/G/cu | 1045/A+1046/G | /A/current+0912/G/cu | 1001/A+1002/G | 1002/A+1003/G | 0959/A+1000/G | 0959/A+1000/G | 1024/A+1025/G | 1001/A+1002/G |
| TU | LOWM | LTAC | 10:00/S | 10:00/G | 10:00/G | 10:00/G | 10:45/G | 09:11/G | 10:01/G | 10:02/S | 09:59/G | 09:59/G | 10:23/G | not rccvd |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:45/G | 09:11/G/current | 10:01/G | 10:02/G | 09:59/G | 09:59/G | 10:24/G | 10:01/G |
| RO | LOWM | LROM | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:45/A | 09:11/current | 10:00/A | 10:02/A | 09:59/A | 09:59/A | 10:23/A | 10:01/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:00/S | 10:00/S | 10:00/S | 10:00/S | 10:45/S | 09:11/S/current | 10:01/S | 10:02/S | 09:59/S | 09:59/S | 10:24/S | not rccvd |
| SQ | LOWM | LZIB | 10:00:37/G | 10:00:37/G | 10:01:31/G | 10:01:31/G | 10:46:04/G | 09:11:35/G | 10:01:32/G | 10:02:47/G | 09:59:32/G | 09:59:33/G | 10:24:58/G | 10:02:17/G |
| RM | LOWM | LUKK | | 10:00 | 10:00 | | 10:45 | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:00/G | 10:00/G | 10:00/G | 10:01/G | 10:45/G | 09:10/G/Current | 10:01/G | 10:02/G | 10:00/G | 10:00/G | 10:23/G | 10:34/G |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:45/A/S/X | A/S/X/CURRENT | 10:01/A/S/X | 10:02/A/S/X | 09:59/A/S/X | 09:59/A/S/X | 10:23/A/S/X | 10:01/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:02/A | 10:02/A | 10:03/A | 10:03/A | 10:48/A | 09:13/A/Current | 10:03/A | 10:05/A | 10:01/A | 10:01/A | 10:26/A | 10:04/A |
| BY | LOWM | UMMS | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:45/A | A/current | 10:01/ | 10:02/A | 09:59/A | 09:54/A | 10:24/A | 10:01/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:45/G | 09:11/G/current | 10:01/G | 10:02/G | 09:59/G | 09:59/G | 10:24/G | 10:02/G |
| RA/RS | LOWM | UWOO | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:46/G | NIL | 10:01/G | 10:02/G | 10:00/G | 10:00/G | 10:14/G | 10:01/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 09:59/G+S | 09:59/G+S | 10:00/G+S | 10:00/A | 10:45/G+S | NIL | 10:00/G+S | 10:01/G+S | 10:20/S+A | 10:20/S+A | 10:23/G+S | 10:01/G+S |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:00/A | 10:00/A | 10:01/A | 10:01/A | 10:45/A | 09:11/A/Current | 10:01/A | 10:02/A | 09:59/A | 09:59/A | 10:24/A | 10:01/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:45/G 10:52/X | 09:12/G/current 09:18/X/current | 10:01/G 10:08/X | 10:03/G 10:08/X | 10:00/G 10:06/X | 10:00/G 10:06/X | 10:25/G 10:31/X | 10:02/G 10:08/X |
| WMO-AA | Centre | MWO | WSLJ31 LJJLJ (LJLA) | WSLT31 EYVI (EYVL) | WSLV31 EVRA (EVRR) | WSMC31 GMMC (GMMM) | WSMJ31 LWSK (LWSS) | WSMP31 LMMM (LMMM) | WSNL31 EHDB (EHAA) | WSNO31 ENMI (ATSU=ENOS FIR=ENOR) | WSNO32 ENMI (ATSU=ENSV FIR=ENOR) | WSNO34 ENMI (ATSU=ENBD FIR=ENOR) | WSNO35 ENMI (ATSU=ENBD FIR=ENOR) | WSNO36 ENMI (ENOR) |

| WMO-AA | Centre | MWO | WSNT21 EGRR (EGGX) | WSOS31 LOWW (LOVV) | WSPL31 EPWA (EPWW) | WSPO31 LPMG (LPPC) | WSQB31 LDZM (LQSB) | WSQB32 LYBM (LQSB) | WSRA31 RUCH (UIAA) | WSRA31 RUEK (USSS) | WSRA31 RUHB (UHHH) | WSRA31 RUIR (UIII) | WSRA31 RUKR (UNKL) | WSRA31 RUMG (UHMM) |
|------------------------------|--------|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| UK | EGGG | EGGY | 04.09.2013 10:01:04 | 04.09.2013 10:00:24 | 04.09.2013 10:01:20 | 04.09.2013 10:01:58 | 04.09.2013 10:00:08 | not rccvd | NIL | 04.09.2013 10:02:32 | 04.09.2013 10:01:00 | 04.09.2013 10:01:00 | 04.09.2013 10:01:00 | 04.09.2013 10:02:30 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 9:59:37/S | 10:00:55/S | 10:01:34/S | 10:02:32/S | 10:00:36/S | not rccvd | NIL | 10:02:56/S | 10:01:47/S | 10:01:46/S | 10:01:49/S | 10:02:55/S |
| BX | EGGG | EBBR | 09:58/A | 10:00/A | 10:00/A | 10:02/A | 10:00/A | not rccvd | NIL | 10:03/A | 09:59/A | 10:00/A | 10:00/A | 10:01/A |
| DN | EGGG | EKMI | 0959A | 1000A | 1001A | 1002A | 1000A | not rccvd | NIL | 1002A | 1001A | 1001A | 1001A | 1002A |
| IE | EGGG | EIDB | 10:00/A | 10:03/G | 10:03/A | 10:04/G | 10:03/G | 10:03/G | NIL | 10:05/G | 10:03/G | 10:03/G | 10:03/G | 10:05/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 9:59:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | not rccvd | 8:39:00 | 10:03:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:01:00 |
| LT | EGGG | EYVI | 09:59/G | 10:01/G | 10:01/G | 10:03/G | 10:01/G | 10:01/G | NIL | 10:03/G | 10:02/G | 10:02/G | 10:02/G | 10:03/G |
| LV | EGGG | EVRA | 10:00/X | 10:01/G | 10:01/G | 10:02/X | 10:00/X | 10:01/G | | 10:03/X | | | 10:02/G | |
| LV | EGGG | EVRRITNX | 9:59/A | 10:00/A | 10:01/A | 10:02/A | 10:00/A | not rccvd | NIL | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:02/A |
| NO | EGGG | ENMI | 0959/A | 1000/A | 1001/A | 1002/A | 1000/A | 1000/X | NIL | 1002/A | 1001/A | 1001/A | 1002/A | 1002/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 09:59/G+A | 10:00/G+A | 09:59/G+10:01/A | 10:02/G+A | 10:00/G+A | 10:00/G+not rccvd/A | NIL | 10:02/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:02/G+A |
| FR | LFPW | LFPW | 09:59/G+S+A | 10:10/A+S | 10:10/A+S | 10:10/A+S+G | 10:10/A+S | not rccvd | NIL | 10:02/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:02/A+S |
| SP/CR | LFPW | LEMM | 09:59/ A+G | 10:00/ A+G | 10:01/ A+G | 10:01/ A+G | 10:00/ A+G | not rccvd | NIL | 10:02/ A+G | 10:01/A+G | 10:01/A+G | 10:01/ A+G | 10:02/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 0959/A | 1000/G | 1001/G | 1001/A | 1000/A | 0959/G:1034/G | NIL | 1002/G | 1001/G/curr | 1001/G | 1001/G | 1002/G |
| DL | LOWM | EDDF | 0959/A+1000/G | 1000/A+1001/G | 0959/G+1001/A | 1002/A+/G | 1000/A+1002/G | 1000/G | NIL | 1002/A+1003/G | Acurrent+0837/G/d | 1001/A+/G | 51/G/current+1001 | 1002/A+1003/G |
| TU | LOWM | LTAC | 09:59/S | 10:00/G | 10:00/G | 10:02/S | 10:00/S | 10:01/G | NIL | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:59/G | 10:00/G | 10:01/G | 10:02/G | 10:00/G | not rccvd | NIL | 10:02/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G |
| RO | LOWM | LROM | 09:59/A | 10:00/A | 10:01/A | 10:01/A | 10:00/A | not rccvd | NIL | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:02/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 09:59/S | 10:00/S | 10:02/S | 10:02/S | 10:00/S | not rccvd | NIL | 10:02/S | 10:01/S | 10:01/G | 10:01/G | 10:02/S |
| SQ | LOWM | LZIB | 09:59:52/G | 10:00:58/G | 10:02:16/G | 10:02:37/G | 10:00:35/G | 10:02:10/X | NIL | 10:03:02/G | 10:02:16/G | 10:02:16/G | 10:02:17/G | 10:03:01/G |
| RM | LOWM | LUKK | | 10:00 | 10:01 | | 10:00 | 10:00 | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:00/G | 10:00/G | 10:01/G | 10:02/G | 10:00/G | 10:00/G | NIL | 10:02/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 09:59/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 10:02/A/S/X | 10:00/A/S/X | 10:02/A/S/X | NIL | 10:02/A/S | 10:01/A/S | 10:01/A/S | 10:01/A/S | 10:02/A/S |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:01/A | 10:02/A | 10:04/A | 10:04/A | 10:02/A | 10:02/A | NIL | 10:05/A | 10:04/A | 10:04/A | 10:04/A | 10:05/A |
| BY | LOWM | UMMS | 09:59/A | 10:00/A | 10:00/A | 10:02/A | 10:00/A | not rccvd | NIL | 10:02/A | 10:00/A | 10:00/A | 09:50/A | 10:01/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 09:59/G | 10:00/G | 10:00/G | 10:02/G | 10:00/G | 10:00/G | NIL | 10:01/G | 10:00/G | 10:00/G | 10:00/G | 10:01/G |
| RA/RS | LOWM | UWOO | 10:00/G | 10:01/G | 10:00 | 10:02/G | 10:00/G | not rccvd | NIL | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:01/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 09:59/G+S | 10:00/G+S | 10:01/G+S | 10:20/S+A | 10:00/G+S | not rccvd | 10:01/A | 10:20/S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:20/S+A |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 09:59/A | 10:00/A | 10:01/A | 10:02/A | 10:00/A | 10:04/X | NIL | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:02/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 09:58/G 10:05/X | 10:01/G 10:07/X | 10:00/G 10:07/X | 10:02/G 10:09/X | 10:00/G 10:07/X | 10:00/G 10:07/X | NIL | 10:02/G 10:09/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:08/X | 10:01/G 10:09/X |
| WMO-AA | Centre | MWO | WSNT21 EGRR (EGGX) | WSOS31 LOWW (LOVV) | WSPL31 EPWA (EPWW) | WSPO31 LPMG (LPPC) | WSQB31 LDZM (LQSB) | WSQB32 LYBM (LQSB) | WSRA31 RUCH (UIAA) | WSRA31 RUEK (USSS) | WSRA31 RUHB (UHHH) | WSRA31 RUIR (UIII) | WSRA31 RUKR (UNKL) | WSRA31 RUMG (UHMM) |

| WMO-AA | Centre | MWO | WSRA31 RUNW (UNNT) | WSRA31 RUOM (UNOO) | WSRA31 RUPK (UHPP) | WSRA31 RUUF (UWUU) | WSRA31 RUYK (UEEE) | WSRA32 RUAM (USDK) | WSRA32 RUEK (USPP) | WSRA32 RUKR (UOOO) | WSRA32 RUOM (USTT) | WSRA32 RUYK (UELL) | WSRA33 RUEK (USCC) | WSRA33 RUYK (UERR) | WSRA34 RUOM (USDS) |
|------------------------------|--------|----------|-------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| UK | EGGG | EGGY | 04.09.2013 09:07:26 A/Current | 04.09.2013 10:01:20 | 04.09.2013 10:01:04 | 04.09.2013 10:01:20 | 04.09.2013 10:01:20 | not rccvd | 04.09.2013 10:01:20 | 04.09.2013 10:02:04 | 04.09.2013 10:01:20 | 04.09.2013 10:01:20 | 04.09.2013 10:01:20 | 04.09.2013 10:01:20 | 04.09.2013 10:01:20 |
| SADIS | | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 09:08:44/cur/S | 10:01:48/S | 10:02:08/S | 10:01:43/S | 10:01:48/S | not rccvd | 10:01:44/S | 10:02:55/S | not rccvd | 10:01:45/S | 10:01:42/S | 10:01:46/S | 10:02:07/S |
| BX | EGGG | EBBR | 09:06/A/current | 09:58/A | 10:00/A | 10:00/A | 10:00/A | not rccvd | 10:00/A | 10:01/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| DN | EGGG | EKMI | 0907/C | 0958A | 1001A | 1001A | 1001A | not rccvd | 1001A | 1002A | 1000A | 1001A | 1001A | 1001A | 1001A |
| IE | EGGG | EIDB | 10:03/G | 10:03/G | 10:03/G | 10:03/A | 10:03/G | 10:03/G | 10:03/A | 10:05/G | 10:03/G | 10:03/G | 10:03/A | 10:03/G | 10:03/G |
| IL | EGGG | BICC | | | | | | | | | | | | | |
| FI | EGGG | EFHK | 9:07:00 | 9:58:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:01:00 | 10:01:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:03/G | (USTR) 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G |
| LV | EGGG | EVRA | | 10:02/G | | | | | | | 10:02/G | 10:02/G | | 10:02/G | 10:02/G |
| LV | EGGG | EVRRITNX | 9:07/A/current | 10:01/A | 10:01/A | 10:01/A | 10:01/A | not rccvd | 10:01/A | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A |
| NO | EGGG | ENMI | 0907/A/current | 1001/A | 1002/A | 1001/A | 1001/A | not rccvd | 1001/A | 1002/A | 1002/A | 1001/A | 1001/A | 1001/A | 1002/A |
| SN | EGGG | ESWI | | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:01/G+not rccvd/A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+not rccvd/A | 10:01/G+A | 10:02/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A |
| FR | LFPW | LFPW | 09:11/A+S cur | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | not rccvd | 10:01/A+S | 10:02/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S |
| SP/CR | LFPW | LEMM | 09:07/ A+G/current | 10:01/ A+G | 10:01A+G | 10:01/ A+G | 10:01/ A+G | not rccvd | 10:01/ A+G | 10:02/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | | |
| OS | LOWM | LOWM | 0907/G:1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1002/G | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G |
| DL | LOWM | EDDF | 07/G/current+/A/curr | 1001/A+G | 1001/A+G | 1001/A+G | 1001/A+G | 1001/G | 1001/A+G | 1002/A+1003/G | 1001/A+G | 1001/A+G | 1001/A+G | 1001/A+G | 1001/G+A |
| TU | LOWM | LTAC | 10:03/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:03/G | 10:01/G | 10:02/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G |
| SW | LOWM | LSSW | | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:07/G/current | 10:01/G | 10:01/G | 10:01/G | 10:01/G | not rccvd | 10:01/G | 10:02/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G |
| RO | LOWM | LROM | 09:07/current | 10:01/A | 10:01/A | 10:01/A | 10:01/A | not rccvd | 10:01/A | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A |
| BU | LOWM | LBSF | | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:01/G | 10:01/G | 10:01/S | 10:01/S | 10:01/S | 10:01/G | 10:01/S | 10:02/S | 10:01/S | 10:01/S | 10:01/S | 10:01/S | 10:01/S |
| SQ | LOWM | LZIB | 09:07:53/G | 10:02:16/G | 10:02:17/G | 10:02:16/G | 10:02:16/G | 10:03:10/X | 10:02:16/G | 10:03:01/G | 10:02:17/G | 10:02:16/G | 10:02:16/G | 10:02:16/G | 10:02:17/G |
| RM | LOWM | LUKK | | | | | | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | | |
| YG | LOWM | LYBM | NIL | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:02/G | 10:01/G | 10:34/G | 10:01/G | 10:01/G | 10:01/G |
| QB | LOWM | LQBK | | | | | | | | | | | | | |
| GR | LOWM | LGAT | A/S/CURRENT | 10:01/A/S | 10:01/A/S | 10:01/A/S | 10:01/A/S | not rccvd | 10:01/A/S | 10:02/A/S | 10:01/A/S | 10:01/A/S | 10:01/A/S | 10:01/A/S | 10:01/A/S |
| AB | LOWM | LATI | | | | | | | | | | | | | |
| CY | LOWM | LCLK | 09:10/A/Current | 10:04/A | 10:04/A | 10:04/A | 10:04/A | not rccvd | 10:04/A | 10:05/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A |
| BY | LOWM | UMMS | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:00/A | 10:01/A | 10:00/A | 10:01/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/2 |
| IS | LOWM | LLBG | | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:00/G | 10:00/G | 10:01/G | 10:00/X | 10:00/G | 10:01/G | 10:00/G | 10:01/G | 10:00/G | 10:00/G | 10:00/X | 10:00/G | 10:00/G |
| RA/RS | LOWM | UWOO | 10:00/G | 10:00/G | 10:01/G | 10:00/G | 10:00/G | 10:01/G | 10:00/G | 10:02/G | 10:00/G | 10:00/G | not rccvd | 10:00/G | 10:00/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | NIL | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G | 10:20/S+A | 10:01/S+A | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S |
| FAPR | | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | | |
| WSSS | | | 10:04/X | 10:01/A | 10:02/A | 10:01/A | 10:01/A | not rccvd | 10:01/A | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:02/A |
| YBBN | | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:08/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G | 10:00/G 10:08/X | 10:02/G 10:09/X | 10:01/G 10:08/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:08/X |
| WMO-AA | Centre | MWO | WSRA31 RUNW (UNNT) | WSRA31 RUOM (UNOO) | WSRA31 RUPK (UHPP) | WSRA31 RUUF (UWUU) | WSRA31 RUYK (UEEE) | WSRA32 RUAM (USDK) | WSRA32 RUEK (USPP) | WSRA32 RUKR (UOOO) | WSRA32 RUOM (USTT) | WSRA32 RUYK (UELL) | WSRA33 RUEK (USCC) | WSRA33 RUYK (UERR) | WSRA34 RUOM (USDS) |

| WMO-AA | Centre | MWO | WSRA37 RUOM (USDD) | WSRA38 RUYK (UEST) | WSRA39 RUYK (UEVV) | WSRH31 LDZM (LDZO) | WSRM31 LUKK (LUUU) | WSRO31 LROM (LRBB) | WSRS31 RUAA (ULAA) | WSRS31 RUKG (UMKK) | WSRS31 RUKZ (UWKD) | WSRS31 RUMA (UUWV) | WSRS31 RUMU (ULMM) | WSRS31 RUNN (USKK) |
|------------------------------|--------|----------|--------------------|--------------------|---------------------|--------------------|---------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| UK | EGGG | EGGY | 04.09.2013 10:01:2 | 04.09.2013 10:01:2 | not rccvd | 04.09.2013 10:00:1 | 04.09.2013 10:00:3 | 04.09.2013 10:01:02 | not rccvd | NIL | NIL | 04.09.2013 10:01:1 | 04.09.2013 10:01:1 | 04.09.2013 10:01:2 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:02:08/S | 10:02:08/S | not rccvd | 10:00:35/S | 10:01:04/S | 10:01:50/S | not rccvd | NIL | NIL | 10:01:35/S | 10:01:43/S | 10:01:47/S |
| BX | EGGG | EBBR | 10:00/A | 10:00/A | not rccvd | 10:00/A | 10:00/A | 10:00/A | not rccvd | NIL | NIL | 10:01/A | 10:00/A | 09:59/A |
| DN | EGGG | EKMI | 1001A | 1001A | not rccvd | 1000A | 1000A | 1001A | 1003A | NIL | NIL | 1001A | 1001A | 1001A |
| IE | EGGG | EIDB | 10:03/G | 10:03/G | 10:11/G | 10:03/G | 10:03/G | 10:03/G | 10:06/G | NIL | NIL | 10:03/A | 10:03/A | 10:03/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 10:00:00 | 10:00:00 | not rccvd | 10:00:00 | 10:00:00 | 10:01:00 | 10:00:00 | NIL | NIL | 10:00:00 | not rccvd | 9:59:00 |
| LT | EGGG | EYVI | 10:02/G | 10:02/G | 10:10/G | 10:01/G | 10:02/G | 10:02/G | 10:05/G | NIL | NIL | 10:02/G | 10:02/G | 10:02/G |
| LV | EGGG | EVRA | | 10:02/G | 10:10/G | 10:00/X | 10:01/X | 10:02/G+10:05/G | 10:05/G | NIL | NIL | 10:02/G | 10:02/G | 10:02/G |
| LV | EGGG | EVRRITNX | 10:01/A | 10:01/A | not rccvd | 10:00/A | 10:00/A | 10:01/A | 10:05/A | NIL | NIL | 10:01/A | 10:01/A | 10:01/A |
| NO | EGGG | ENMI | 1002/A | 1002/A | not rccvd | 1000/A | 1000/A | 1001/A | 1005/X | NIL | NIL | 1001/A | 1001/A | 1001/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | |
| EO | EGGG | EEMH | 10:01/G+A | 10:01/G+A | 10:09/G+not rccvd/A | 10:00/G+A | 10:01/G+not rccvd/A | 10:01/G+A | 10:04/G+not rccvd/ | NIL | NIL | 10:01/G+A | 10:01/G+A | 10:01/G+A |
| FR | LFPW | LFPW | 10:01/A+S | 10:01/A+S | not rccvd | 10:00/A+S | 10:00/A+S | 10:01/A+S | not rccvd | NIL | CUR | 10:01/A+S | 10:01/A+S | 10:01/A+S |
| SP/CR | LFPW | LEMM | 10.01/ A+G | 10:01/ A+G | not rccvd | 10:00/ A+G | 10:00/ A+G | 10:01/ A+G | 10:00/ A+G | 10:00/ A+G | 09:44/ A+G current | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1001/G | 1001/G | 1009/G | 1000/A | 1000/A/G | 1000/A | 1003/G | NIL | NIL | 1001/G | 1001/G | 1001/G |
| DL | LOWM | EDDF | 1001/G+A | 1001/G+A | 1009/G | 1000/A+1002/G | 1000/A+1002/G | /A/current+0947/G/cu | 1004/G | NIL | NIL | 1000/G+1001/A | 1001/A+G | 1001/A+G |
| TU | LOWM | LTAC | 10:01/G | 10:01/G | 10:11/G | 10:00/S | 10:00/S | 10:01/G | 10:05/X | NIL | NIL | 10:01/G | 10:01/G | 10:01/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:01/G | 10:01/G | not rccvd | 10:00/G | 10:00/G | 10:01/G | not rccvd | NIL | NIL | 10:01/G | 10:01/G | 10:01/G |
| RO | LOWM | LROM | 10:01/A | 10:01/A | not rccvd | 10:00/A | 10:00/A | | not rccvd | NIL | NIL | 10:01/A | 10:01/A | 10:01/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:01/S | 10:01/S | 10:09/G | 10:00/S | 10:00/S | 10:13/S | 10:04/G | NIL | NIL | 10:01/S | 10:01/S | 10:01/S |
| SQ | LOWM | LZIB | 10:02:17/G | 10:02:17/G | 10:11:11/X | 10:00:35/G | 10:01:13/G | 10:01:32/G | 10:06:09/X | NIL | NIL | 10:02:16/G | 10:02:16/G | 10:02:16/G |
| RM | LOWM | LUKK | | | | 10:00 | 10:00 | 10:01 | | NIL | | 10:01 | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:01/G | 10:01/G | 10:10/G | 10:00/G | 10:00/G | 10:01/G | 10:04/G | NIL | NIL | 10:00/G | 10:01/G | 10:01/G |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 10:01/A/S | 10:01/A/S | not rccvd | 10:00/A/S/X | 10:00/A/S/X | 10:01/A/S/X | 10:06/X | NIL | NIL | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:04/A | 10:04/A | 10:04/A | 10:02/A | 10:02/A | 10:08/A | 10:07/A | NIL | NIL | 10:04/A | 10:04/A | 10:04/A |
| BY | LOWM | UMMS | 10:01/A | 10:00/A | 10:08/A | 10:00/A | 10:00/A | 10:01/A | 10:03/A | NIL | NIL | 09:59/A | 10:00/A | 10:00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:01/A | 10:00/G | 10:08/G | 10:00/G | 10:00/G | 10:01/G | 10:03/G | NIL | NIL | 09:59/G | 10:00/G | 10:00/X |
| RA/RS | LOWM | UWOO | 10:01/G | 10:01/G | 10:08/G | 10:00/G | 10:01/G | 10:01/G | 10:03/G | NIL | NIL | 09:59/G | 10:00/G | 10:00/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 10:01/G+S | 10:01/G+S | 10:01/A | 10:00/G+S | 10:00/G+S | 10:00/G+S | 10:01/A | NIL | 10:01/A | 10:01/G+S | 10:01/G+S | 10:01/G+S |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:02/A | 10:02/A | 10:10/X | 10:00/A | 10:00/A | 10:01/A | 10:06/X | NIL | NIL | 10:01/A | 10:01/A | 10:01/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | NIL | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:01/G 10:08/X | 10:00/G 10:07/X | 10:08/G 10:21/X | 10:00/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:08/X | 10:04/G 10:20/X | NIL | NIL | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:00/G 10:07/X |
| WMO-AA | Centre | MWO | WSRA37 RUOM (USDD) | WSRA38 RUYK (UEST) | WSRA39 RUYK (UEVV) | WSRH31 LDZM (LDZO) | WSRM31 LUKK (LUUU) | WSRO31 LROM (LRBB) | WSRS31 RUAA (ULAA) | WSRS31 RUKG (UMKK) | WSRS31 RUKZ (UWKD) | WSRS31 RUMA (UUWV) | WSRS31 RUMU (ULMM) | WSRS31 RUNN (USKK) |

| WMO-AA | Centre | MWO | WSRS31 RURD (URRV) | WSRS31 RUSM (UWWW) | WSRS31 RUSP (ULLL) | WSRS32 RUAA (JUYY) | WSRS32 RUSM (UWOO) | WSRS33 RUAA (ULKK) | WSRS34 RUAA (ULWW) | WSRS37 RUAA (ULAM) | WSSN31 ESWI (ESAA) | WSSP31 LEMM (LECM) | WSSP32 LEMM (LECB) | WSSQ31 LZIB (LZBB) |
|------------------------------|--------|----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|
| UK | EGGG | EGGY | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:01: | 04.09.2013 10:03: | NIL | 04.09.2013 09:59:30 | 04.09.2013 09:59:57 | 04.09.2013 10:03:5 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 10:02:09/S | 10:01:38/S | 10:01:43/S | 10:01:44/S | 10:06:34/S | 10:01:48/S | 10:01:37/S | 10:04:04/S | NIL | 9:59:48/S | 10:00:22/S | 10:04:18/S |
| BX | EGGG | EBBR | 09:50/A | 10:00/A | 10:00/A | 10:00/A | 09:49/A | 10:00/A | 10:00/A | 10:00/A | NIL | 10:00/A | 10:00/A | 10:00/A |
| DN | EGGG | EKMI | 1001A | 1001A | 1001A | 1001A | 1001A | 1001A | 1001A | 1003A | NIL | 0959A | 1000A | 1004A |
| IE | EGGG | EIDB | 10:03/G | 10:03/A | 10:03/A | 10:03/A | 10:03/G | 10:03/G | 10:03/A | 10:06/G | NIL | 10:00/A | 10:01/A | 10:06/G |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 8:19:00 | 10:01:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | NIL | 10:00:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:04/G | NIL | 09:59/G | 10:01/G | 10:04/G |
| LV | EGGG | EVRA | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:02/G | 10:04/G | NIL | 10:00/G | 10:00/X | 10:04/G |
| LV | EGGG | EVRRITNX | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:00/S | NIL | 9:59/A | 10:00/A | 10:04/A |
| NO | EGGG | ENMI | 1002/A | 1001/A | 1001/A | 1001/A | 1002/A | 1002/A | 1001/A | 1003/A | NIL | 0959/A | 1000/A | 1004/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | NIL | | | |
| EO | EGGG | EEMH | 10:01/G+10:02/A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:01/G+A | 10:03/G+A | NIL | 09:59/G+A | 10:00/G+A | 10:04/G+A |
| FR | LFPW | LFPW | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:01/A+S | 10:03/A+S | NIL | 09:59/A+S+G | 09:59/A+S+G | 10:03/A+S |
| SP/CR | LFPW | LEMM | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:01/ A+G | 10:03/ A+G | NIL | | | 10:04/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1001/G | 1003/G | NIL | 0959/A | 0959/A | 1003/G |
| DL | LOWM | EDDF | 10:01/G+10:02/A | 1000/G+1001/A | 1001/A+G | 1001/A+G | 1001/A+G | 1001/A+G | 1000/G+1001/A | 1003/A+1004/G | NIL | 0959/A+1000/G | 1000/A+G | 1004/A+1005/G |
| TU | LOWM | LTAC | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:03G | NIL | 09:59/G | 09:59/G | 10:03/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:03/G | NIL | 09:59/G | 10:00/G | 10:03/G |
| RO | LOWM | LROM | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:03/A | NIL | 09:59/A | 09:59/A | 10:03/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 10:01/G | 10:01/S | 10:01/S | 10:01/S | 10:06/S | 10:01/S | 10:01/S | 10:03/S | NIL | 09:59/S | 10:00/S | 10:04/S |
| SQ | LOWM | LZIB | 10:02:17/G | 10:02:16/G | 10:02:16/G | 10:02:16/G | 10:02:16/G | 10:02:17/G | 10:02:16/G | 10:04:13/G | NIL | 09:59:58/G | 10:00:25/G | 10:03:58/G |
| RM | LOWM | LUKK | 10:01 | | | | | | | | | | | 10:04 |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 10:01/G | 10:00/G | 10:00/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:03/G | NIL | 10:00/G | 10:00/G | 10:03/G |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:01/A/S/X | 10:03/A/S/X | NIL | 09:59/A/S/X | 09:59/A/S/X | 10:03/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 10:04/A | 10:08/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A | 10:04/A | 10:07/A | 09:54/A/Current | 10:02/A | 10:02/A | 10:07/A |
| BY | LOWM | UMMS | 10:01/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 09:54/A | 10:03/A | NIL | 09:59/A | 10:00/A | 10:04/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 10:00/G | 10:00/G | 10:00/G | 10:00/X | 10:00/G | 10:00/G | 09:59/G | 10:03/G | NIL | 09:59/G | 10:00/G | 10:04/G |
| RA/RS | LOWM | UWOO | 10:01/G | 10:00/G | 10:00/G | 10:00/G | not rccvd | 10:00/G | 10:00/G | 10:03/G | NIL | 10:00/G | 10:00/G | 10:04/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:01/G+S | 10:03/G+S | NIL | 09:59/A+S | 10:00/G+A+S | 10:04/G+S |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 10:02/A | 10:01/A | 10:01/A | 10:01/A | 10:02/A | 10:01/A | 10:01/A | 10:04/A | NIL | 09:59/A | 10:00/A | 10:04/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd |
| RJTD | | | 10:01/G 10:08/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:00/G 10:07/X | 10:01/G 10:07/X | 10:00/G 10:07/X | 10:04/G 10:20/X | NIL | 09:59/G | 10:00/G | 10:04/G 10:20/X |
| WMO-AA | Centre | MWO | WSRS31 RURD (URRV) | WSRS31 RUSM (UWWW) | WSRS31 RUSP (ULLL) | WSRS32 RUAA (JUYY) | WSRS32 RUSM (UWOO) | WSRS33 RUAA (ULKK) | WSRS34 RUAA (ULWW) | WSRS37 RUAA (ULAM) | WSSN31 ESWI (ESAA) | WSSP31 LEMM (LECM) | WSSP32 LEMM (LECB) | WSSQ31 LZIB (LZBB) |

| WMO-AA | Centre | MWO | WSSW31 LSSW (LSAS) | WSTR31 RUMS (UTAA) | WSTU31 LTAC (LTAA) | WSTU31 LTBA (LTBB) | WSUK31 EGRR (EGTT) | WSUK32 EGJJ (EGJJ) | WSUK33 EGRR (EGPX) | WSUR31 UKBV (UKBV) | WSUR32 UKLV (UKLV) | WSUR33 UKOV (UKOV) | WSUR34 UKFV (UKFV) | WSUR35 UKDV (UKDV) |
|------------------------------|--------|------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| UK | EGGG | EGGY | 04.09.2013 09:56:52 | NIL | 04.09.2013 10:00:00 | 04.09.2013 10:00:00 | 04.09.2013 09:58:11 | NIL | 04.09.2013 09:58:00 | 04.09.2013 10:00:00 | 04.09.2013 10:00:00 | 04.09.2013 10:00:00 | 04.09.2013 10:00:00 | 04.09.2013 10:00:00 |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | 9:57:18/S | NIL | 10:00:53/S | 10:00:55/S | 9:58:37/S | NIL | 9:59:25/S | 10:00:54/S | 10:00:54/S | 10:00:56/S | 10:01:20/S | 10:00:53/S |
| BX | EGGG | EBBR | 09:43/A | NIL | 10:00/A | 10:00/A | 09:57/A | NIL | 09:58/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| DN | EGGG | EKMI | 0956A | NIL | 1000A | 1000A | 0958A | NIL | 0959A | 1000A | 1000A | 1000A | 1000A | 1000A |
| IE | EGGG | EIDB | 10:01/G | NIL | 10:03/G | 10:03/G | 09:59/A | NIL | 10:00/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A | 10:01/A |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | 9:43:00 | NIL | 10:06:00 | 8:02:00 | 9:57:00 | 9:58:00 | 9:36:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 | 10:00:00 |
| LT | EGGG | EYVI | 09:57/G | NIL | 10:01/G | 10:01/G | 09:58/G | NIL | 09:59/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G |
| LV | EGGG | EVRA | 09:57/G | NIL | 10:01/G | 10:01/G | 09:58/G | NIL | 09:59/X | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G |
| NO | EGGG | ENMI | 0957/A | NIL | 1000/A | 1000/A | 0958/A | NIL | 0959/A | 1000/A | 1000/A | 1000/A | 1000/A | 1000/A |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | 0958A | NIL | 0959A | | | | | |
| EO | EGGG | EEMH | 09:56/G+A | NIL | 10:00/G+A | 10:00/G+A | 09:58/G+A | NIL | 09:59/G+A | 10:00/G+A | 10:00/G+A | 10:00/G+A | 10:00/G+A | 10:00/G+A |
| FR | LFPW | LFPW | 09:6/A+S | NIL | 10:00/A+S | 10:00/A+S | 09:58/A+S+G | NIL | 09:58/A+S+G | 10:00/A+S | 10:00/A+S | 10:00/A+S | 10:00/A+S | 10:00/A+S |
| SP/CR | LFPW | LEMM | 09:59/ A+G | NIL | 10:00/ A+G | 10:00/ A+G | 09:58/ A+G | NIL | 09:58/ A+G | 10:00/ A+G | 10:00/ A+G | 10:00/ A+G | 10:00/ A+G | 10:00/ A+G |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | 0956/A | NIL | 1000/G | 1000/G | 0958/A | NIL | 0959/A | 1000/A | 1000/A | 1000/A | 1000/A | 1000/A |
| DL | LOWM | EDDF | 0957/A+G | NIL | 1000/G+A | 1000/G+A | 0958/A+0959/G | NIL | 0959/A+0959/G | 1000/A+1002/G | 1000/A+1002/G | 1000/A+1002/G | 1000/A+1002/G | 1000/A+1002/G |
| TU | LOWM | LTAC | 09:56/G | NIL | 1000/G | 1000/G | 09:58/G | NIL | 09:59/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | 09:56/G | NIL | 10:00/G | 10:00/G | 09:58/G | NIL | 09:59/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G |
| RO | LOWM | LROM | 09:56/A | NIL | 10:00/A | 10:00/A | 09:58/A | NIL | 09:59/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | 09:57/S | NIL | 10:00/S | 10:00/S | 09:58/S | NIL | 09:59/S | 10:00/S | 10:00/S | 10:00/S | 10:00/S | 10:00/S |
| SQ | LOWM | LZIB | 09:57:18/G | NIL | 10:00:49/G | 10:00:58/G | 09:58:45/G | NIL | 09:59:32/G | 10:00:58/G | 10:00:58/G | 10:01:13/G | 10:01:13/G | 10:00:49/G |
| RM | LOWM | LUKK | | | 10:00 | 10:00 | | | | 10:00 | 10:00 | 10:00 | 10:00 | 10:00 |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | 09:56./G | NIL | 10:00/G | 10:00/G | 09:58/G | NIL | 09:59/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | 09:56/A/S/X | NIL | 10:00/A/S/X | 10:00/A/S/X | 09:58/A/S/X | NIL | 09:59/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X | 10:00/A/S/X |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | 09:59/A | NIL | 10:02/A | 10:02/A | 10:01/A | NIL | 10:01/A | 10:02/A | 10:02/A | 10:02/A | 10:02/A | 10:02/A |
| BY | LOWM | UMMS | 09:57/A | NIL | 10:00/A | 10:00/A | 09:58/A | NIL | 09:59/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | 09:57/G | NIL | 10:00/G | 10:00/G | 09:58/G | NIL | 09:59/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G | 10:00/G |
| RA/RS | LOWM | UWOO | 09:57/G | NIL | 10:01/G | 10:01/G | 09:59/G | NIL | 09:59/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G | 10:01/G |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | 10:20/S+A | NIL | 10:00/S | 10:00/G+S | 10:20/S+A | NIL | 10:20/S+A | 10:00/G+S | 10:00/G+S | 10:00/G+S | 10:00/G+S | 10:00/G+S |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | 09:56/A | NIL | 10:00/A | 10:00/A | 09:58/A | NIL | 09:59/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A | 10:00/A |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | not rccvd | NIL | not rccvd | not rccvd | not rccvd | NIL | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd | not rccvd |
| RJTD | | | 09:58/G 10:04/X | NIL | 10:07/X | 10:07/X | 09:58/A+G 10:05/X | NIL | 09:58/G 09:59/A 10:05/X | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:07/X | 10:01/G 10:07/X |
| WMO-AA | Centre | MWO | WSSW31 LSSW (LSAS) | WSTR31 RUMS (UTAA) | WSTU31 LTAC (LTAA) | WSTU31 LTBA (LTBB) | WSUK31 EGRR (EGTT) | WSUK32 EGJJ (EGJJ) | WSUK33 EGRR (EGPX) | WSUR31 UKBV (UKBV) | WSUR32 UKLV (UKLV) | WSUR33 UKOV (UKOV) | WSUR34 UKFV (UKFV) | WSUR35 UKDV (UKDV) |

| WMO-AA | Centre | MWO | WSUZ31 UTNN (UTNR) | WSUZ31 UTSS (UTSD) | WSUZ31 UTTT (UTTR) | WSYG31 LYBM (LYBA) | | WSAE20 OMAA (OEJE) | WSBN31 OBBS (OBBS) | WSBN31 OBBI (OBBI) | WSEG31 HECA (HECC) | WSIQ01 ORBI (ORBB) | WSIR31 OIII (OIIX) | WSJD01 OJAM (OJAM) |
|------------------------------|--------|----------|--------------------|---------------------|---------------------|---------------------|--|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|
| UK | EGGG | EGGY | NIL | 04.09.2013 10:02:00 | 04.09.2013 10:02:00 | 04.09.2013 10:00:03 | | NIL | not rccvd | not rccvd | 04.09.2013 09:57:44 | NIL | NIL | not rccvd |
| SADIS | | | | | | | | | | | | | | |
| NL | EGGG | EHDB | NIL | NIL | 10:02:55/S | 10:00:34/s | | NIL | not rccvd | not rccvd | 9:58:05/S | NIL | NIL | not rccvd |
| BX | EGGG | EBBR | NIL | NIL | 10:00/A | 09:59/A | | NIL | not rccvd | not rccvd | not rccvd | NIL | NIL | not rccvd |
| DN | EGGG | EKMI | NIL | NIL | 1002A | 1000A | | NIL | not rccvd | not rccvd | 0957A | NIL | NIL | not rccvd |
| IE | EGGG | EIDB | NIL | NIL | 10:05/G | 10:01/A | | NIL | not rccvd | 10:02/G | 10:01/G | NIL | NIL | not rccvd |
| IL | EGGG | BICC | | | | | | | | | | | | |
| FI | EGGG | EFHK | NIL | NIL | 10:00:00 | 9:59:00 | | NIL | not rccvd | not rccvd | 10:00:00 | NIL | NIL | not rccvd |
| LT | EGGG | EYVI | NIL | (UTSR) 10:03/G | 10:03/G | 10:01/G | | NIL | (OBBI) 10:12/G | not rccvd | 09:58/G | NIL | NIL | not rccvd |
| LV | EGGG | EVRA | NIL | 10:02/X | 10:03/X | 10:00/X | | NIL | not rccvd | not rccvd | 09:59/G+10:01/G | NIL | NIL | not rccvd |
| LV | EGGG | EVRRITNX | NIL | NIL | 10:02/A | 10:00/A | | NIL | not rccvd | not rccvd | 09:57/A | NIL | NIL | not rccvd |
| NO | EGGG | ENMI | NIL | 1003/X | 1002/A | 1000/A | | NIL | not rccvd | 1010/X | 0957/A | NIL | NIL | not rccvd |
| SN | EGGG | ESWI | | | | | | | | | | | | |
| GL | EGGG | BGSF | | | | | | | | | | | | not rccvd |
| EO | EGGG | EEMH | NIL | 10:02/G+not rccvd// | 10:02/G+A | 10:00/G+A | | NIL | not rccvd | not rccvd | 09:57/G+A | NIL | NIL | not rccvd |
| FR | LFPW | LFPW | NIL | NIL | 10:02/A+S | 10:00/A+S | | NIL | not rccvd | not rccvd | 09:57/A+S | NIL | NIL | not rccvd |
| SP/CR | LFPW | LEMM | NIL | NIL | 10:02/ A+G | 10:00/ A+G | | NIL | not rccvd | not rccvd | 09:57/ A+G | NIL | NIL | not rccvd |
| IY | LFPW | LIIB | | | | | | | | | | | | |
| IY | LFPW | LIMM | | | | | | | | | | | | |
| MC | LFPW | GMMC | | | | | | | | | | | | |
| OS | LOWM | LOWM | NIL | NIL | 1002/A/G | 0959/A/G | | NIL | 1011/G | 0959/A:0959/A | 0958/A:1001/G | NIL | NIL | 0801/A:0949/A |
| DL | LOWM | EDDF | NIL | 1002/A+1003/G | 1002/A+1003/G | 1000/A+1001/G | | NIL | 1011/G | 1011/G | 0957/A+0959/G | NIL | NIL | 0802/G |
| TU | LOWM | LTAC | NIL | NIL | 10:02/G | 10:00/G | | NIL | not rccvd | not rccvd | 09:58/G | NIL | NIL | not rccvd |
| SW | LOWM | LSSW | | | | | | | | | | | | |
| CZ | LOWM | LKPR | | | | | | | | | | | | |
| HU | LOWM | LHBM | NIL | NIL | 10:02/G | 10:00/G | | NIL | not rccvd | not rccvd | 09:57/G | NIL | NIL | not rccvd |
| RO | LOWM | LROM | NIL | 10:02/A | 10:02/A | 10:00/A | | NIL | not rccvd | not rccvd | 09:57/A | NIL | NIL | not rccvd |
| BU | LOWM | LBSF | | | | | | | | | | | | |
| LJ | LOWM | LJLJ | | | | | | | | | | | | |
| MJ | LOWM | LQSW | | | | | | | | | | | | |
| PL | LOWM | EPWA | NIL | NIL | 10:02/S | 10:00/S | | NIL | not rccvd | not rccvd | 10:01/S | NIL | NIL | not rccvd |
| SQ | LOWM | LZIB | NIL | 10:02:37/G | 10:03:01/G | 10:00:30/G | | NIL | 10:13:11/X | not rccvd | 09:58:10/G | NIL | NIL | 10:13/G/current(? N |
| RM | LOWM | LUKK | NIL | | | 10:00 | | | | | | | | |
| RH | LOWM | LDZA | | | | | | | | | | | | |
| YG | LOWM | LYBM | NIL | 10:03/G | 10:02/G | 10:00/G | | NIL | not rccvd | not rccvd | 09:57/G | NIL | NIL | not rccvd |
| QB | LOWM | LQBK | | | | | | | | | | | | |
| GR | LOWM | LGAT | NIL | 10:02/A/S/X | 10:02/A/S/X | 10:00/A/S/X | | NIL | not rccvd | 09:59/A/S/X | 09:57/A/S/X | NIL | NIL | not rccvd |
| AB | LOWM | LATI | | | | | | | | | | | | |
| CY | LOWM | LCLK | NIL | 10:04/A | 10:05/A | 10:02/A | | NIL | 10:18/A | not rccvd | 10:00/A | NIL | NIL | not rccvd |
| BY | LOWM | UMMS | NIL | NIL | 10:02/A | 10:00/A | | NIL | not rccvd | not rccvd | 09:57/A | NIL | NIL | not rccvd |
| IS | LOWM | LLBG | | | | | | | | | | | | |
| AY | LOWM | UGEE | | | | | | | | | | | | |
| RA/RS | LOWM | RUMS | NIL | NIL | 10:00/G | 10:00/G | | NIL | not rccvd | not rccvd | 10:01/G | NIL | NIL | not rccvd |
| RA/RS | LOWM | UWOO | NIL | NIL | 10:03/G | 10:00/G | | NIL | not rccvd | not rccvd | 09:58/G | NIL | NIL | not rccvd |
| Reception only via SADIS/GTS | | | | | | | | | | | | | | |
| MP | LFPW | LMMM | | | | | | | | | | | | |
| PO/AZ | LFPW | LPMG | | | | | | | | | | | | |
| MID-region | | | | | | | | | | | | | | |
| OM | LOWM | OOMS | | | | | | | | | | | | |
| AFI-region | | | | | | | | | | | | | | |
| HKNC GTS | | | | | | | | | | | | | | |
| HKJK SADIS | | | | | | | | | | | | | | |
| GOOY | GOOY | GOOY | NIL | NIL | 10:20/S+A | 09:59/G+10:00/S | | NIL | 09:30/S | not rccvd | 09:57/G+S+ 10:00/G+ | NIL | NIL | not rccvd |
| FAPR | | | | | | | | | | | | | | |
| ASIA/PAC-region | | | | | | | | | | | | | | |
| WSSS | | | NIL | NIL | 10:02/A | 10:00/A | | NIL | not rccvd | 10:01/G | 09:59/A | NIL | NIL | 08:05/G |
| YBBN | | | | | | | | | | | | | | |
| VTBB | | | NIL | NIL | not rccvd | not rccvd | | NIL | not rccvd | not rccvd | 0958A | NIL | NIL | not rccvd |
| RJTD | | | NIL | 10:02/G | 10:03/G 10:09/X | 10:00/G 10:07/X | | NIL | not rccvd | 10:06/X | 10:04/X | NIL | NIL | not rccvd |
| WMO-AA | Centre | MWO | WSUZ31 UTNN (UTNR) | WSUZ31 UTSS (UTSD) | WSUZ31 UTTT (UTTR) | WSYG31 LYBM (LYBA) | | WSAE20 OMAA (OEJE) | WSBN31 OBBS (OBBS) | WSBN31 OBBI (OBBI) | WSEG31 HECA (HECC) | WSIQ01 ORBI (ORBB) | WSIR31 OIII (OIIX) | WSJD01 OJAM (OJAM) |

| WMO-AA | Centre | MWO | WSKW31 OKBK (OKAC) | WSSD20 OEJD (OEJD) | WSKZ31 UAII (UAII) | WSUZ31 UTSS (UTSR) |
|-------------------------------------|--------|----------|--------------------|-------------------------------------|--------------------|--------------------|
| UK | EGGG | EGGY | NIL | 04.09.2013 10:55:35 A/Current | | |
| SADIS | | | | | | |
| NL | EGGG | EHDB | NIL | 10:56:04/cur/S | | |
| BX | EGGG | EBBR | NIL | NIL | | |
| DN | EGGG | EKMI | NIL | 1055/C | | |
| IE | EGGG | EIDB | NIL | 10:56/A | | 10:05/G |
| IL | EGGG | BICC | | | | |
| FI | EGGG | EFHK | NIL | NIL | | |
| LT | EGGG | EYVI | NIL | 10:56/G/current | | |
| LV | EGGG | EVRA | NIL | 10:56/G/current | | |
| LV | EGGG | EVRRITNX | NIL | 10:54/A/Current | | |
| NO | EGGG | ENMI | NIL | 1055/A/current | | |
| SN | EGGG | ESWI | | | | |
| GL | EGGG | BGSF | | | | |
| EO | EGGG | EEMH | NIL | 10:55/G+A/current | | |
| FR | LFPW | LFPW | NIL | 10:55/A+S | | |
| SP/CR | LFPW | LEMM | NIL | 10:55/ A+G/current | | 08:25/A+G/current |
| IY | LFPW | LIIB | | | | |
| IY | LFPW | LIMM | | | | |
| MC | LFPW | GMMC | | | | |
| OS | LOWM | LOWM | NIL | 1055/A/curr | 1000/A | 1002/A |
| DL | LOWM | EDDF | NIL | A/current+1056/G/current | | |
| TU | LOWM | LTAC | NIL | 10:55/G/current | | |
| SW | LOWM | LSSW | | | | |
| CZ | LOWM | LKPR | | | | |
| HU | LOWM | LHBM | NIL | 10:55/G/current | | 10:02/G |
| RO | LOWM | LROM | NIL | 10:55/current | | |
| BU | LOWM | LBSF | | | | |
| LJ | LOWM | LJLJ | | | | |
| MJ | LOWM | LQSW | | | | |
| PL | LOWM | EPWA | NIL | 10:55/S/curent | | |
| SQ | LOWM | LZIB | NIL | 10:56:02/G | | |
| RM | LOWM | LUKK | | | | |
| RH | LOWM | LDZA | | | | |
| YG | LOWM | LYBM | NIL | 10:55/G/Current | | |
| QB | LOWM | LQBK | | | | |
| GR | LOWM | LGAT | NIL | A/S/X/CURRENT | | |
| AB | LOWM | LATI | | | | |
| CY | LOWM | LCLK | NIL | 10:58/A/Current | | |
| BY | LOWM | UMMS | NIL | Not recvd | | |
| IS | LOWM | LLBG | | | | |
| AY | LOWM | UGEE | | | | |
| RA/RS | LOWM | RUMS | NIL | 10:56/G/current | | |
| RA/RS | LOWM | UWOO | NIL | NIL | | |
| Reception only via SADIS/GTS | | | | | | |
| MP | LFPW | LMMM | | | | |
| PO/AZ | LFPW | LPMG | | | | |
| MID-region | | | | | | |
| OM | LOWM | OOMS | | | | |
| AFI-region | | | | | | |
| HKNC GTS | | | | | | |
| HKJK SADIS | | | | | | |
| GOOY | GOOY | GOOY | NIL | NIL | | |
| FAPR | | | | | | |
| ASIA/PAC-region | | | | | | |
| WSSS | | | NIL | 10:55/A/Current | | 10:00/G |
| YBBN | | | | | | |
| VTBB | | | NIL | not rccvd | | |
| RJTD | | | NIL | 10:55/A/current | | |
| WMO-AA | Centre | MWO | WSKW31 OKBK (OKAC) | WSSD20 OEJD (OEJD) | WSUZ31 UTSS (UTSR) | WSUZ31 UTSS (UTSR) |

APPENDIX G

**TERMS OF REFERENCE (TOR) OF
METEOROLOGY SUB-GROUP
(MET SG)**

1. Terms of Reference

1.1 The terms of reference of the MET Sub-Group are:

- a) ensure that the implementation of MET in the MID Region is coherent and compatible with developments in adjacent regions, and is in line with the Global Air Navigation Plan (GANP), the Aviation System Block Upgrades (ASBU) methodology and the MID Region Air Navigation Strategy;
- b) monitor the status of implementation of the MID Region MET-related ASBU Modules included in the MID Region Air Navigation Strategy as well as other required MET facilities and services, identify the associated difficulties and deficiencies and provide progress reports, as required;
- c) keep under review the MID Region MET performance objectives/priorities, develop action plans to achieve the agreed performance targets and propose changes to the MID Region MET plans/priorities, through the ANSIG;
- d) seek to achieve common understanding and support from all stakeholders involved in or affected by the MET developments/activities in the MID Region;
- e) provide a platform for harmonization of developments and deployments in the MET domain;
- f) monitor and review the latest MET developments that support Air Navigation and provide expert inputs for the implementation of the Air Navigation Systems related to MET based on ATM operational requirements;
- g) provide regular progress reports to the ANSIG and MIDANPIRG concerning its work programme; and
- h) review periodically its Terms of Reference and propose amendments, as necessary.

1.2 In order to meet the Terms of Reference, the MET Sub Group shall:

- a) monitor the status of implementation of the required MET facilities and services in the MID Region;
- b) provide necessary assistance and guidance to States to ensure harmonization and interoperability in line with the GANP, the MID ANP and ASBU methodology;
- c) provide necessary inputs to the MID Air Navigation Strategy through the monitoring of the agreed Key Performance Indicators related to MET;
- d) identify and review those specific deficiencies and problems that constitute major obstacles to the provision of efficient MET services, and recommend necessary remedial actions;

G-2

- e) keep under review the adequacy of ICAO SARPs requirements in the area of MET, taking into account, inter alia, changes in user requirements, the evolution of operational requirements and technological developments;
- f) develop proposals for the updating of relevant ICAO documentation related to MET, including the amendment of relevant parts of the MID ANP, as deemed necessary;
- g) monitor and review technical and operating developments in the area of MET and foster their implementation in the MID Region in a harmonized manner;
- h) foster the integrated improvement of MET services through proper training and qualification of the MET personnel; and
- i) liaise with other States providing services and/or serve as inter-regional exchange of meteorological information for international civil aviation (e.g. SADIS (U.K.), VAAC Toulouse (France), TCAC New Delhi (India), Regional OPMET Centre Vienna (Austria)).

2. COMPOSITION

2.1 The Sub-Group is composed of:

- a) MIDANPIRG Member States;
- b) World Meteorological Organization (WMO) and other concerned International and Regional Organizations as observers; and
- c) other representatives from provider States and Industry may be invited on ad hoc basis, as observers, when required.

- END -