International Civil Aviation Organization

MID OPMET Bulletin Management Group
First Meeting (MID OPMET BMG/1)

(Cairo, Egypt 18 December 2011)

Agenda Item 3: **Status of regional and inter-regional OPMET exchange**

(Interregional OPMET Gateway Vienna)

SUMMARY
This paper presents the results of an AFTN-Monitoring performed by Vienna in order to identify problems in the data exchange between MID and EUR.

1. **INTRODUCTION**

1.1 From the 28th October until the 2nd November 2011 Vienna performed an AFTN-monitoring. The intention of this monitoring was to check whether all centres are using the correct AFTN-address for sending OPMET-data to Vienna. A similar WP has already been presented at the first MET SG–meeting in June 2008.

1.2 Besides the addressing issue also some other exchange issues have been identified.

2. **DISCUSSION**

2.1 Since the first presentation of such a paper the situation has improved a lot. Only a few routing issues remain to be corrected.

Incorrect addressing

2.2 For the following bulletins the addressing has to be changed to LOZZMMID:

Bulletin Header	Originated by	Presently sent to	Remark
FTSY31 OSDI	OSDIYMYX	LOWMYBYX	Is also sent to the correct address LOZZMMID
FTYE21 OYSN	OYSNYMYX	LOWMYBYX	
SALB31 OLBA	OLBAYMYX	LOWMYMYX	

Double transmission of OPMET-data

2.3 Besides the addressing issue it was also possible to identify that several reports are received more than once in different bulletins. It might be a good idea to review the produced and exchanged bulletins in order to reduce double transmission either by deletion or, if it is used regional on bilateral basis, by stopping the dissemination to Vienna.

2.4   Another point that was identified is that several bulletins are received twice or even more often as they are received from different sources by Vienna.

2.5   All this information (double reports & bulletins) is summarize within an EXCEL file that can be found as **Appendix A** to this working paper.

Implementation of an IROG in MID-Region

2.6   Looking at the present way of sending MID-OPMET-data into the EUR Region it is obvious that there is some difference to the procedure implemented in the EUR-Region. In the EUR-region there are three Interregional OPMET-Gateways (IROG) defined which are responsible for the exchange of OPMET data between EUR and the other Regions. Toulouse is the IROG for AFI, Vienna for MID and London for the rest of the ICAO Regions.

2.7   It would be appreciated a lot if in the MID-Region a similar setup could be implemented. This would mean that all the data exchange between EUR and MID would be executed between Vienna and the (to be defined) IROG in the MID Region responsible for the EUR-OPMET data.

2.8   The advantages would be that there is a clearly defined procedure as well as defined contact points for routing changes, for requesting data as well as for investigations in case of problems.

FASID MET 2A deficiencies

2.9   Besides this AFTN-monitoring performed by only LOWM there are regular monitoring exercises taking place for the three OPMET-databases in EUR (Brussels, Toulouse & Vienna) twice a year. This monitoring is based on the requirements stated in the global FASID table MET 2A. The results showed some deficiencies for the MID Region.

>   METAR requested but not received:
>   HEAZ, HEOW, OEJB (received only for 6 out of 16 exercises), ORNI

>   FC requested but not received:
>   OEYN: but FT is received ➔ report to ICAO to update the table

>   FT requested but not received:
>   HEAZ, HEOW, OIAA (received only for 5 out of 16 exercises), ORNI,
>   ORSU, OYAD, OYRN, OYSY, OYTZ

OPMET-data presently sent to MID-Region

2.10   To round off the picture of the data exchange between MID and EUR another EXCEL-file has been produced and can be found as **Appendix B** to this working paper. This Appendix shows the AFTN-addresses in the MID-Region where IROG-Vienna is presently sending OPMET-data to. Of course also the bulletins are listed which are sent to the respective AFTN-address. There have not been any changes during the last years and so it can be assumed that the sent OPMET data is not fulfilling the needs of the named centres.

2.11   The meeting is invited to review this list and coordinate any necessary update with IROG Vienna.

3. **ACTION BY THE MEETING**

3.1   The meeting is invited to:

   a)   review the proposed actions in regard to the addressing of OPMET data from the MID- to the EUR-Region;

   b)   take appropriate actions to correct the identified problems; and

   c)   take actions to improve the coordination between the two Regions in regard to OPMET-data exchange.

APPENDIX A

TT	AAii	CCCC	Loc.Ind.	Sent to	Originator	Suggestion
FT	AR20	OEJD	OBBI	LOZZMMID	OEJDYMYX	FTAR20 OEJD is obviously a recompiled bulletin. All included reports are received within the original bulletins. It is not necessary to send this bulletin to LOWM. Furthermore it should be checked whether there is a need for it in general. Furthermore both bulletins are received more than once, sent by differnent centres. It is sufficient to receive it from only one centre.
FT	AR20	OEJD	OBBI	LOZZMMID	OLLLYPYX	
FT	BN31	OBBI	OBBI	LOZZMMID	OBBITAFS	
FT	BN31	OBBI	OBBI	LOZZMMID	OBBIYPYX	
FT	BN31	OBBI	OBBI	LOZZMMID	OLLLYPYX	FTIN90 VOMM: It seems to be a special recompilation of airports from different states. UK will be contacted for details.
FT	IN90	VOMM	OBBI	LOWMMMXX	EGGYYBYA	
FT	SD40	OEJD	OEAB	LOZZMMID	OEJDYMYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
FT	SD40	OEJD	OEAB	LOZZMMID	OLLLYPYX	
FT	BN31	OBBI	OEDF	LOZZMMID	OBBITAFS	The bulletin FTBN31 OBBI is received from three different AFTN-addresses. Receiving it from only one would be sufficient. The buleltins FTSD22 OEJD as well as FTSD31 OEJD are received from two different addresses. Receiving it from only on would be sufficient.
FT	BN31	OBBI	OEDF	LOZZMMID	OBBIYPYX	
FT	BN31	OBBI	OEDF	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OEDF	LOZZMMID	OEJDYMYX	
FT	SD22	OEJD	OEDF	LOZZMMID	OLLLYPYX	
FT	SD31	OEJD	OEDF	LOZZMMID	OEJDYMYX	The TAF for OEDF is included in all three of them!!
FT	SD31	OEJD	OEDF	LOZZMMID	OLLLYPYX	
FT	BN31	OBBI	OEDR	LOZZMMID	OBBITAFS	
FT	BN31	OBBI	OEDR	LOZZMMID	OBBIYPYX	
FT	BN31	OBBI	OEDR	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OEDR	LOZZMMID	OEJDYMYX	Same as above!
FT	SD22	OEJD	OEDR	LOZZMMID	OLLLYPYX	
FT	SD31	OEJD	OEDR	LOZZMMID	OEJDYMYX	
FT	SD31	OEJD	OEDR	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OEJN	LOZZMMID	OEJDYMYX	
FT	SD22	OEJD	OEJN	LOZZMMID	OLLLYPYX	Same as above!
FT	SD31	OEJD	OEJN	LOZZMMID	OEJDYMYX	
FT	SD31	OEJD	OEJN	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OEMA	LOZZMMID	OEJDYMYX	
FT	SD22	OEJD	OEMA	LOZZMMID	OLLLYPYX	Same as above!
FT	SD31	OEJD	OEMA	LOZZMMID	OEJDYMYX	
FT	SD31	OEJD	OEMA	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OERK	LOZZMMID	OEJDYMYX	
FT	SD22	OEJD	OERK	LOZZMMID	OLLLYPYX	Same as above!
FT	SD31	OEJD	OERK	LOZZMMID	OEJDYMYX	
FT	SD31	OEJD	OERK	LOZZMMID	OLLLYPYX	
FT	SD22	OEJD	OETF	LOZZMMID	OEJDYMYX	
FT	SD22	OEJD	OETF	LOZZMMID	OLLLYPYX	
FT	SD32	OEJD	OETF	LOZZMMID	OEJDYMYX	Same as above with different bulletins!
FT	SD40	OEJD	OETF	LOZZMMID	OEJDYMYX	
FT	SD40	OEJD	OETF	LOZZMMID	OLLLYPYX	
FT	IR31	OIII	OIAW	LOZZMMID	OIIIYPYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
FT	IR31	OIII	OIAW	LOZZMMID	OLLLYPYX	
FT	IR32	OIII	OIBK	LOZZMMID	OIIIYPYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
FT	IR32	OIII	OIBK	LOZZMMID	OLLLYPYX	
FT	IR33	OIII	OIZC	LOZZMMID	OIIIYPYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
FT	IR33	OIII	OIZC	LOZZMMID	OLLLYPYX	
FT	JD31	OJAI	OJAI	LOZZMMID	OJAMYMYX	The TAF for OJAI is received in three different bulletins. The bulletin FTME31 is available as compilation from OEJD and OLBA.
FT	ME31	OEJD	OJAI	LOZZMMID	OEJDYMYX	
FT	ME31	OLBA	OJAI	LOZZMMID	OLBAYZYX	
FT	JD31	OJAI	OJAM	LOZZMMID	OJAMYMYX	
FT	ME31	OEJD	OJAM	LOZZMMID	OEJDYMYX	Same as above!
FT	ME31	OLBA	OJAM	LOZZMMID	OLBAYZYX	
FT	JD31	OJAI	OJAQ	LOZZMMID	OJAMYMYX	
FT	ME31	OEJD	OJAQ	LOZZMMID	OEJDYMYX	Same as above!
FT	ME31	OLBA	OJAQ	LOZZMMID	OLBAYZYX	
FT	AR20	OEJD	OKBK	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OKBK	LOZZMMID	OLLLYPYX	
FT	BN31	OBBI	OKBK	LOZZMMID	OBBITAFS	The TAF for OKBK is included in three different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	BN31	OBBI	OKBK	LOZZMMID	OBBIYPYX	
FT	BN31	OBBI	OKBK	LOZZMMID	OLLLYPYX	
FT	IN90	VOMM	OKBK	LOWMMMXX	EGGYYBYA	
FT	KW21	OKBK	OKBK	LOZZMMID	OLLLYPYX	
FT	LB31	OLBA	OLBA	LOZZMMID	OLBAYMYX	
FT	ME31	OEJD	OLBA	LOZZMMID	OEJDYMYX	The TAF for OLBA is received in three different bulletins. The bulletin FTME31 is available as compilation from OEJD and OLBA.
FT	ME31	OLBA	OLBA	LOZZMMID	OLBAYZYX	
FT	AR20	OEJD	OMAA	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OMAA	LOZZMMID	OLLLYPYX	
FT	BN32	OBBI	OMAA	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMAA	LOZZMMID	OBBIYPYX	The TAF for OMAA is included in three different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	BN32	OBBI	OMAA	LOZZMMID	OLLLYPYX	
FT	ER32	OMAE	OMAA	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMAA	LOZZMMID	OMAEYPYX	

FT	ER32	OMAE	OMAA	LOZZMMID	OMAEYYPY	
FT	IN90	VOMM	OMAA	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OMAD	LOZZMMID	OEJDYMYX	
FT	BN32	OBBI	OMAD	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMAD	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMAD	LOZZMMID	OLLLYPYX	The TAF for OMAD is included in three different bulletins from the MID region sent from different addresses.
FT	ER32	OMAE	OMAD	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMAD	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMAD	LOZZMMID	OMAEYYPY	
FT	BN32	OBBI	OMAL	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMAL	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMAL	LOZZMMID	OLLLYPYX	The TAF for OMAL is included in two different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	ER32	OMAE	OMAL	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMAL	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMAL	LOZZMMID	OMAEYYPY	
FT	IN90	VOMM	OMAL	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OMDB	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OMDB	LOZZMMID	OLLLYPYX	
FT	BN32	OBBI	OMDB	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMDB	LOZZMMID	OBBIYPYX	The TAF for OMDB is included in three different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	BN32	OBBI	OMDB	LOZZMMID	OLLLYPYX	
FT	ER32	OMAE	OMDB	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMDB	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMDB	LOZZMMID	OMAEYYPY	
FT	IN90	VOMM	OMDB	LOWMMMXX	EGGYYBYA	
FT	BN32	OBBI	OMDW	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMDW	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMDW	LOZZMMID	OLLLYPYX	The TAF for OBBI is included in two different bulletins from the MID region sent from different addresses.
FT	ER32	OMAE	OMDW	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMDW	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMDW	LOZZMMID	OMAEYYPY	
FT	BN32	OBBI	OMFJ	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMFJ	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMFJ	LOZZMMID	OLLLYPYX	The TAF for OMFJ is included in two different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	ER32	OMAE	OMFJ	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMFJ	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMFJ	LOZZMMID	OMAEYYPY	
FT	IN90	VOMM	OMFJ	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OMRK	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OMRK	LOZZMMID	OLLLYPYX	
FT	BN32	OBBI	OMRK	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMRK	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMRK	LOZZMMID	OLLLYPYX	The TAF for OMRK is included in three different bulletins from the MID region sent from different addresses.
FT	ER32	OMAE	OMRK	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMRK	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMRK	LOZZMMID	OMAEYYPY	
FT	AR20	OEJD	OMSJ	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OMSJ	LOZZMMID	OLLLYPYX	
FT	BN32	OBBI	OMSJ	LOZZMMID	OBBITAFS	
FT	BN32	OBBI	OMSJ	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OMSJ	LOZZMMID	OLLLYPYX	The TAF for OMSJ is included in three different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	ER32	OMAE	OMSJ	LOZZMMID	OMAEYFYX	
FT	ER32	OMAE	OMSJ	LOZZMMID	OMAEYPYX	
FT	ER32	OMAE	OMSJ	LOZZMMID	OMAEYYPY	
FT	IN90	VOMM	OMSJ	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OOMS	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OOMS	LOZZMMID	OLLLYPYX	
FT	BN32	OBBI	OOMS	LOZZMMID	OBBITAFS	The TAF for OOMS is included in two different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	BN32	OBBI	OOMS	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OOMS	LOZZMMID	OLLLYPYX	
FT	IN90	VOMM	OOMS	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OOSA	LOZZMMID	OEJDYMYX	
FT	AR20	OEJD	OOSA	LOZZMMID	OLLLYPYX	The TAF for OEJD is included in two different bulletins from the MID region sent from different addresses.
FT	BN32	OBBI	OOSA	LOZZMMID	OBBIYPYX	
FT	BN32	OBBI	OOSA	LOZZMMID	OLLLYPYX	
FT	ME31	OEJD	OSAP	LOZZMMID	OEJDYMYX	
FT	ME31	OLBA	OSAP	LOZZMMID	OLBAYZYX	The TAF for OSAP is included in three different bulletins from the MID region sent from different addresses.
FT	SY31	OSDI	OSAP	LOZZMMID	OSDIYMYX	
FT	SY31	OSDI	OSAP	LOWMYBYX	OSDIYMYX	
FT	ME31	OEJD	OSDI	LOZZMMID	OEJDYMYX	
FT	ME31	OLBA	OSDI	LOZZMMID	OLBAYZYX	The TAF for OSDI is included in three different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	SY31	OSDI	OSDI	LOZZMMID	OSDIYMYX	

FT	SY31	OSDI	OSDI	LOWMYBYX	OSDIYMYX	
FT	ME31	OEJD	OSLK	LOZZMMID	OEJDYMYX	The TAF for OSLK is included in two different bulletins from the MID region sent from different addresses.
FT	ME31	OLBA	OSLK	LOZZMMID	OLBAYZYX	
FT	SY31	OSDI	OSLK	LOZZMMID	OSDIYMYX	
FT	SY31	OSDI	OSLK	LOWMYBYX	OSDIYMYX	
FT	AR20	OEJD	OTBD	LOZZMMID	OEJDYMYX	The TAF for OTBD is included in two different bulletins from the MID region sent from different addresses and in one compilation done by VOMM.
FT	AR20	OEJD	OTBD	LOZZMMID	OLLLYPYX	
FT	BN31	OBBI	OTBD	LOZZMMID	OBBITAFS	
FT	BN31	OBBI	OTBD	LOZZMMID	OBBIYPYX	
FT	BN31	OBBI	OTBD	LOZZMMID	OLLLYPYX	
FT	IN90	VOMM	OTBD	LOWMMMXX	EGGYYBYA	
FT	AR20	OEJD	OYAA	LOZZMMID	OEJDYMYX	The TAF for OYAA is included in two different bulletins from the MID region sent from different addresses.
FT	AR20	OEJD	OYAA	LOZZMMID	OLLLYPYX	
FT	YE21	OYSN	OYAA	LOZZMMID	OLLLYPYX	
FT	YE21	OYSN	OYAA	LOWMYBYX	OYSNYMYX	
FT	YE21	OYSN	OYHD	LOZZMMID	OLLLYPYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
FT	YE21	OYSN	OYHD	LOWMYBYX	OYSNYMYX	
FT	AR20	OEJD	OYSN	LOZZMMID	OEJDYMYX	The TAF for OKBK is included in three different bulletins from the MID region sent from different addresses.
FT	AR20	OEJD	OYSN	LOZZMMID	OLLLYPYX	
FT	SD31	OEJD	OYSN	LOZZMMID	OEJDYMYX	
FT	SD31	OEJD	OYSN	LOZZMMID	OLLLYPYX	
FT	YE21	OYSN	OYSN	LOZZMMID	OLLLYPYX	
FT	YE21	OYSN	OYSN	LOWMYBYX	OYSNYMYX	
SA	BN31	OBBI	OBBI	LOZZMMID	OBBIYRYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
SA	BN31	OBBI	OBBI	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OEAB	LOZZMMID	OEJDYMYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
SA	SD20	OEJD	OEAB	LOZZMMID	OLLLYPYX	
SA	BN31	OBBI	OEDF	LOZZMMID	OBBIYRYX	The METAR for OEDF is included in three different bulletins from the MID region sent from different addresses.
SA	BN31	OBBI	OEDF	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OEDF	LOZZMMID	OEJDYMYX	
SA	SD20	OEJD	OEDF	LOZZMMID	OLLLYPYX	
SA	SD31	OEJD	OEDF	LOZZMMID	OEJDYMYX	
SA	SD31	OEJD	OEDF	LOZZMMID	OLLLYPYX	
SA	BN31	OBBI	OEDR	LOZZMMID	OBBIYRYX	The METAR for OEDR is included in three different bulletins from the MID region sent from different addresses.
SA	BN31	OBBI	OEDR	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OEDR	LOZZMMID	OEJDYMYX	
SA	SD20	OEJD	OEDR	LOZZMMID	OLLLYPYX	
SA	SD31	OEJD	OEDR	LOZZMMID	OEJDYMYX	
SA	SD31	OEJD	OEDR	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OEJN	LOZZMMID	OEJDYMYX	The METAR for OEJN is included in two different bulletins from the MID region sent from different addresses.
SA	SD20	OEJD	OEJN	LOZZMMID	OLLLYPYX	
SA	SD31	OEJD	OEJN	LOZZMMID	OEJDYMYX	
SA	SD31	OEJD	OEJN	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OEMA	LOZZMMID	OEJDYMYX	The METAR for OEMA is included in two different bulletins from the MID region sent from different addresses.
SA	SD20	OEJD	OEMA	LOZZMMID	OLLLYPYX	
SA	SD31	OEJD	OEMA	LOZZMMID	OEJDYMYX	
SA	SD31	OEJD	OEMA	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OERK	LOZZMMID	OEJDYMYX	The METAR for OERK is included in two different bulletins from the MID region sent from different addresses.
SA	SD20	OEJD	OERK	LOZZMMID	OLLLYPYX	
SA	SD31	OEJD	OERK	LOZZMMID	OEJDYMYX	
SA	SD31	OEJD	OERK	LOZZMMID	OLLLYPYX	
SA	SD20	OEJD	OETF	LOZZMMID	OEJDYMYX	The METAR for OETF is included in two different bulletins from the MID region sent from different addresses.
SA	SD20	OEJD	OETF	LOZZMMID	OLLLYPYX	
SA	SD32	OEJD	OETF	LOZZMMID	OEJDYMYX	
SA	SD32	OEJD	OETF	LOZZMMID	OLLLYPYX	
SA	JD20	OJAM	OJAI	LOWMMMXX	EDZWYMYX	The METAR for OJAI is included in **four** different bulletins from the MID region sent from different addresses.
SA	JD31	OJAI	OJAI	LOZZMMID	OJAMYMYX	
SA	ME31	OEJD	OJAI	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAI	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAI	LOZZMMID	OLBAYZYX	
SA	JD20	OJAM	OJAM	LOWMMMXX	EDZWYMYX	The METAR for OJAM is included in **four** different bulletins from the MID region sent from different addresses.
SA	JD31	OJAI	OJAM	LOZZMMID	OJAMYMYX	
SA	ME31	OEJD	OJAM	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAM	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAM	LOZZMMID	OLBAYZYX	
SA	JD20	OJAM	OJAQ	LOWMMMXX	EDZWYMYX	The METAR for OJAQ is included in **four** different bulletins from the MID region sent from different addresses.
SA	JD31	OJAI	OJAQ	LOZZMMID	OJAMYMYX	
SA	ME31	OEJD	OJAQ	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAQ	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OJAQ	LOZZMMID	OLBAYZYX	
SA	BN31	OBBI	OKBK	LOZZMMID	OBBIYRYX	The METAR for OKBK is included in two different bulletins from the MID region sent from different addresses.
SA	BN31	OBBI	OKBK	LOZZMMID	OLLLYPYX	

SA	KW31	OKBK	OKBK	LOZZMMID	OLLLYPYX	
SA	LB31	OLBA	OLBA	LOWMYMYX	OLBAYMYX	
SA	ME31	OEJD	OLBA	LOZZMMID	OEJDYMYX	The METAR for OLBA is included in three different bulletins from the MID region sent from different addresses.
SA	ME31	OLBA	OLBA	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OLBA	LOZZMMID	OLBAYZYX	
SA	BN32	OBBI	OMAA	LOZZMMID	OBBIYRYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
SA	BN32	OBBI	OMAA	LOZZMMID	OLLLYPYX	
SA	BN32	OBBI	OOMS	LOZZMMID	OBBIYRYX	The METAR for OOMS is included in two different bulletins from the MID region sent from different addresses.
SA	BN32	OBBI	OOMS	LOZZMMID	OLLLYPYX	
SA	OM20	OOMS	OOMS	LOZZMMID	OLLLYPYX	
SA	BN32	OBBI	OOSA	LOZZMMID	OBBIYRYX	The METAR for OOSA is included in two different bulletins from the MID region sent from different addresses.
SA	BN32	OBBI	OOSA	LOZZMMID	OLLLYPYX	
SA	OM20	OOMS	OOSA	LOZZMMID	OLLLYPYX	
SA	ME31	OEJD	OSAP	LOZZMMID	OEJDYMYX	The METAR for OSAP is included in three different bulletins from the MID region sent from different addresses.
SA	ME31	OLBA	OSAP	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OSAP	LOZZMMID	OLBAYZYX	
SA	SY31	OSDI	OSAP	LOZZMMID	OSDIYMYX	
SA	ME31	OEJD	OSDI	LOZZMMID	OEJDYMYX	The METAR for OSDI is included in three different bulletins from the MID region sent from different addresses.
SA	ME31	OLBA	OSDI	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OSDI	LOZZMMID	OLBAYZYX	
SA	SY31	OSDI	OSDI	LOZZMMID	OSDIYMYX	
SA	ME31	OEJD	OSLK	LOZZMMID	OEJDYMYX	The METAR for OSLK is included in three different bulletins from the MID region sent from different addresses.
SA	ME31	OLBA	OSLK	LOZZMMID	OEJDYMYX	
SA	ME31	OLBA	OSLK	LOZZMMID	OLBAYZYX	
SA	SY31	OSDI	OSLK	LOZZMMID	OSDIYMYX	
SA	BN31	OBBI	OTBD	LOZZMMID	OBBIYRYX	The bulletin is received more than once, sent by different centres. It is sufficient to receive it from only one centre.
SA	BN31	OBBI	OTBD	LOZZMMID	OLLLYPYX	
SA	YE20	OYAA	OYAA	LOWMMMXX	EDZWYMYX	Two different bulletins are issued with the same content. One with only the TAF for the respective aerodrome. The second one is the compilation. Both bulletins are not addressed to Vienna but are received from Germany. According to an info from Germany they receive the bulletins via Madrid.
SA	YE20	OYSC	OYAA	LOWMMMXX	EDZWYMYX	
SA	YE20	OYAG	OYAG	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYAG	LOWMMMXX	EDZWYMYX	
SA	YE20	OYAS	OYAS	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYAS	LOWMMMXX	EDZWYMYX	
SA	YE20	OYAT	OYAT	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYAT	LOWMMMXX	EDZWYMYX	
SA	YE20	OYHD	OYHD	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYHD	LOWMMMXX	EDZWYMYX	
SA	YE20	OYMB	OYMB	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYMB	LOWMMMXX	EDZWYMYX	
SA	YE20	OYRN	OYRN	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYRN	LOWMMMXX	EDZWYMYX	
SA	SD31	OEJD	OYSN	LOZZMMID	OEJDYMYX	Two different bulletins are issued with the same content. One with only the TAF for the respective aerodrome. The second one is the compilation. Both bulletins are not addressed to Vienna but are received from Germany. According to an info from Germany they receive the bulletins via Madrid. Furthermore the report is included in the compilation SASD31 OEJD. This is not necessary.
SA	SD31	OEJD	OYSN	LOZZMMID	OLLLYPYX	
SA	YE20	OYSC	OYSN	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSN	OYSN	LOWMMMXX	EDZWYMYX	
SA	YE20	OYAA	OYSQ	LOWMMMXX	EDZWYMYX	Two different bulletins are issued with the same content. One with only the TAF for the respective aerodrome. The second one is the compilation. Both bulletins are not addressed to Vienna but are received from Germany. According to an info from Germany they receive the bulletins via Madrid.
SA	YE20	OYSC	OYSQ	LOWMMMXX	EDZWYMYX	
SA	YE20	LOWM	OYSY	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYSY	LOWMMMXX	EDZWYMYX	
SA	YE20	LOWM	OYTZ	LOWMMMXX	EDZWYMYX	
SA	YE20	OYSC	OYTZ	LOWMMMXX	EDZWYMYX	

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''**APPENDIX B**

OBZZYPYX	OEJDYPYX	OPKCYMYX	OPZZYPYX	OKBKYMYX
FCFR22 LFPW	FCFR22 LFPW	FCTRA31 RUMS	FCAJ31 UBBB	FCFR22 LFPW
FCFR23 LFPW	FCFR23 LFPW	FTAJ31 UBBB	FCBY31 UMMM	FCFR23 LFPW
FCFR24 LFPW	FCFR24 LFPW	FTBX31 EBBR	FCBY31 UMMN	FCFR24 LFPW
FTBU31 LBSM	FTBU31 LBSM		FCEE31 LOWM	FTBU31 LBSM
FTBX31 EBBR	FTBX31 EBBR		FCFR22 LFPW	FTBX31 EBBR
FTCY31 LCLK	FTCY31 LCLK		FCFR23 LFPW	FTCY31 LCLK
FTCZ31 LKPW	FTCZ31 LKPW		FCFR24 LFPW	FTCZ31 LKPW
FTDN31 EKCH	FTDN31 EKCH		FCGG31 UGTB	FTDN31 EKCH
FTEU31 BKPR	FTEU31 BKPR		FCKZ31 RUMS	FTEU31 BKPR
FTEW32 LEMM	FTEW32 LEMM		FCRA31 RUMS	FTEW32 LEMM
FTFI31 EFHK	FTFI31 EFHK		FCRA32 RUMS	FTFI31 EFHK
FTFR21 LFPW	FTFR21 LFPW		FCRS31 RUMS	FTFR21 LFPW
FTFR31 LFPW	FTFR31 LFPW		FCRS32 RUMS	FTFR31 LFPW
FTFR32 LFPW	FTFR32 LFPW		FCRS33 RUMS	FTFR32 LFPW
FTFR33 LFPW	FTFR33 LFPW		FCRS34 RUMS	FTFR33 LFPW
FTFR34 LFPW	FTFR34 LFPW		FCTA31 RUMS	FTFR34 LFPW
FTFR35 LFPW	FTFR35 LFPW		FCTR31 RUMS	FTFR35 LFPW
FTFR36 LFPW	FTFR36 LFPW		FCUR30 UKMS	FTFR36 LFPW
FTFR37 LFPW	FTFR37 LFPW		FCUR31 UKMS	FTFR37 LFPW
FTFR38 LFPW	FTFR38 LFPW		FCUZ31 UTTT	FTFR38 LFPW
FTFR39 LFPW	FTFR39 LFPW		FCUZ31 UTTW	FTFR39 LFPW
FTGR31 LGAT	FTGR31 LGAT		FTAJ31 UBBB	FTGR31 LGAT
FTGR32 LGAT	FTGR32 LGAT		FTAY31 RUMS	FTGR32 LGAT
FTHU31 LHBM	FTHU31 LHBM		FTBU31 LBSM	FTHU31 LHBM
FTIE31 EIDB	FTIE31 EIDB		FTBX31 EBBR	FTIE31 EIDB
FTIY31 LIIB	FTIY31 LIIB		FTBY31 UMMN	FTIY31 LIIB
FTNL31 EHDB	FTNL31 EHDB		FTCY31 LCLK	FTNL31 EHDB
FTNO31 ENMI	FTNO31 ENMI		FTCZ31 LKPW	FTNO31 ENMI
FTNO32 ENMI	FTNO32 ENMI		FTDN31 EKCH	FTNO32 ENMI
FTNO32 LOWM	FTNO32 LOWM		FTEU31 BKPR	FTNO32 LOWM
FTNO33 ENMI	FTNO33 ENMI		FTEW31 LEMM	FTNO33 ENMI
FTNO38 ENMI	FTNO38 ENMI		FTEW32 LEMM	FTNO38 ENMI
FTOS31 LOWM	FTOS31 LOWM		FTEW33 LEMM	FTOS31 LOWM
FTPL31 EPWA	FTPL31 EPWA		FTEW34 LEMM	FTPL31 EPWA
FTPO31 LPMG	FTPO31 LPMG		FTEW35 LEMM	FTPO31 LPMG
FTPO32 LPMG	FTPO32 LPMG		FTEW36 LEMM	FTPO32 LPMG
FTPO33 LPMG	FTPO33 LPMG		FTEW37 LEMM	FTPO33 LPMG
FTRH31 LDZM	FTRH31 LDZM		FTEW38 LEMM	FTRH31 LDZM
FTRO31 LROM	FTRO31 LROM		FTFI31 EFHK	FTRO31 LROM
FTSN31 ESWI	FTSN31 ESWI		FTFR21 LFPW	FTSN31 ESWI
FTSQ31 LZIB	FTSQ31 LZIB		FTFR31 LFPW	FTSQ31 LZIB
FTSW31 LSSW	FTSW31 LSSW		FTFR32 LFPW	FTSW31 LSSW
FTTS31 DTTA	FTTS31 DTTA		FTFR33 LFPW	FTTS31 DTTA
FTTS32 DTTA	FTTS32 DTTA		FTFR34 LFPW	FTTS32 DTTA
FTTU31 LTAA	FTTU31 LTAA		FTFR35 LFPW	FTTU31 LTAA
FTTU32 LTAA	FTTU32 LTAA		FTFR36 LFPW	FTTU32 LTAA
FTUK31 EGGY	FTUK31 EGGY		FTFR37 LFPW	FTUK31 EGGY
FTUK32 EGGY	FTUK32 EGGY		FTFR38 LFPW	FTUK32 EGGY
FTUK33 EGGY	FTUK33 EGGY		FTFR39 LFPW	FTUK33 EGGY

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FTUK34 EGGY    FTUK34 EGGY          FTGG31 UGTB    FTUK34 EGGY
FTUK35 EGGY    FTUK35 EGGY          FTGI32 EGRR    FTUK35 EGGY
FTYG31 LYBM    FTYG31 LYBM          FTGR31 LGAT    FTYG31 LYBM
SACY31 LCLK    SACY31 LCLK          FTGR32 LGAT    SACY31 LCLK
SAGR31 LGAT    SAGR31 LGAT          FTHU31 LHBM    SAGR31 LGAT
SAGR32 LGAT    SAGR32 LGAT          FTIE31 EIDB    SAGR32 LGAT
SAGR33 LGAT    SAGR33 LGAT          FTIY31 LIIB    SAGR33 LGAT
SATU31 LTAA    SATU31 LTAA          FTIY32 LIIB    SATU31 LTAA
UACY31 ////    UACY31 ////          FTKY31 RUMS    UACY31 ////
UAGR31 ////    UAGR31 ////          FTNL31 EHDB    UAGR31 ////
UARM// ////    UARM// ////          FTNO31 ENMI    UARM// ////
UATU31 LTAA    UATU31 LTAA          FTNO32 ENMI    UATU31 LTAA
WSCY// ////    WSCY// ////          FTNO32 LOWM    WSCY// ////
WSGR// ////    WSGR// ////          FTNO33 ENMI    WSGR// ////
WSTU31 LTAC    WSTU31 LTAC          FTNO38 ENMI    WSTU31 LTAC
WSTU31 LTBA    WSTU31 LTBA          FTOS31 LOWM    WSTU31 LTBA
                                    FTPL31 EPWA
                                    FTPO31 LPMG
                                    FTPO32 LPMG
                                    FTPO33 LPMG
                                    FTRA31 RUMS
                                    FTRA32 RUMS
                                    FTRA33 RUMS
                                    FTRA34 RUMS
                                    FTRA35 RUMS
                                    FTRA36 RUMS
                                    FTRA37 RUMS
                                    FTRH31 LDZM
                                    FTRO31 LROM
                                    FTRS31 RUMS
                                    FTRS32 RUMS
                                    FTRS33 RUMS
                                    FTRS34 RUMS
                                    FTRS35 RUMS
                                    FTSN31 ESWI
                                    FTSQ31 LZIB
                                    FTSW31 LSSW
                                    FTTR31 RUMS
                                    FTTS31 DTTA
                                    FTTS32 DTTA
                                    FTTU31 LTAA
                                    FTTU32 LTAA
                                    FTUK31 EGGY
                                    FTUK32 EGGY
                                    FTUK33 EGGY
                                    FTUK34 EGGY
                                    FTUK35 EGGY
                                    FTUR30 UKMS
                                    FTUR31 UKMS
                                    FTUZ31 UTTT
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FTUZ31 UTTW
FTYG31 LYBM
SAAJ31 UBBB
SAAY31 RUMS
SABY31 UMMN
SACY31 LCLK
SAEE31 LOWM
SAGG31 UGTB
SAGR31 LGAT
SAGR32 LGAT
SAGR33 LGAT
SAKY31 RUMS
SAKZ31 RUMS
SARA31 RUMS
SARA32 RUMS
SARA33 RUMS
SARA34 RUMS
SARA35 RUMS
SARA36 RUMS
SARS31 RUMS
SARS32 RUMS
SARS33 RUMS
SARS34 RUMS
SARS35 RUMS
SATR31 RUMS
SATU31 LTAA
SAUR30 UKMS
SAUR31 UKMS
SAUZ31 UTSB
SAUZ31 UTTT
SAUZ31 UTTW
SPAJ31 UBBB
SPAY31  RUMS
SPBY31 UMMN
SPGG31 UGTB
SPRA34 RUMS
SPTR// ////
SPUR30 UKMS
SPUR31 UKMS
SPUR41 ////
SPUZ31 ////
UACY31 ////
UAGR31 ////
UARM// ////
UATU31 LTAA
WSCY// ////
WSGR// ////
WSTU31 LTAC
WSTU31 LTBA
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Appendix B''B/6

OBBIYMYX	OBBIYZYX	OIZZYPYB	OIIIYPYX	OPLAYMYX
FTDN31 EKCH	FTDN31 EKCH	FCUK31 EGGY	FTBU31 LBSM	FTDL31 EDZO
FTFI31 EFHK	FTFI31 EFHK	FCUK32 EGGY	FTCZ31 LKPW	FTDL32 EDZO
FTNO31 ENMI	FTNO31 ENMI	FCUK33 EGGY	FTEU31 BKPR	FTDL33 EDZO
FTNO32 ENMI	FTNO32 ENMI	FCUK34 EGGY	FTHU31 LHBM	
FTNO33 ENMI	FTNO33 ENMI	FCUK35 EGGY	FTPL31 EPWA	
FTNO38 ENMI	FTNO38 ENMI	FCUK36 EGGY	FTRO31 LROM	
FTSN31 ESWI	FTSN31 ESWI	FTDL31 EDZO	FTSQ31 LZIB	
		FTIQ01 ORBI	FTTU31 LTAA	
		FTUK31 EGGY	FTTU32 LTAA	
		FTUK32 EGGY	FTTU33 LTAA	
		FTUK33 EGGY	FTTU34 LTAA	
		FTUK34 EGGY	FTYG31 LYBM	
		FTUK35 EGGY		
		SADL31 EDZO		
		SAIQ01 KWBC		
		SAIQ01 ORBI		
		SAUK31 EGGY		
		SAUK32 EGGY		
		SAUK33 EGGY		
		SAUK34 EGGY		
		SAUK35 EGGY		
		SAUK36 EGGY		
		SAUK37 EGGY		
		SAUK38 EGGY		
		SPUK31 EGBE		
		WSUK// ////		

OEJDYRYX	OIZZYRYR
FTIL31 BICC	SARS41 LOWM

-END-