

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**



**ASIA/PACIFIC OPMET DATA BANKS**  
**INTERFACE CONTROL DOCUMENT**

**Third Edition – 2004**  
**(Amended 03 December 2015)**

**Prepared by the ICAO Asia and Pacific Office**  
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## 1 INTRODUCTION

- 1.1 This Interface Control Document (ICD) describes the standard interrogation procedures for access to the designated Regional OPMET Databanks (RODB) in the ASIA/PAC Region. By accessing these databanks, the user implicitly acknowledges the disclaimer in paragraph 6.
- 1.2 The ICD contains details of:
- locations and AFTN addresses of the RODBs;
  - request and reply AFTN message formats; and
  - standard available meteorological products.
- 1.3 The ICD is published and maintained up-to-date by the ICAO Regional Office, Bangkok. The RODBs should notify regularly the Regional Office of any changes in the procedures or content of the respective data banks.

## 2 REGIONAL OPMET DATABANKS

### 2.1 Location

The designated RODBs in the ASIA/PAC Region are located at Bangkok, Brisbane, Nadi, Singapore and Tokyo.

### 2.2 AFTN Access Addresses

The AFTN addresses that should be used to access the RODBs are the following:

Bangkok	VTBBYZYX
Brisbane	YBBBYZYX
Nadi	NFFNYZYX
Singapore	WSSSYZYX
Tokyo	RJTDYZYX

### 2.3 OPMET Data Types

The following meteorological data types, as defined by the WMO data designator indicator, are stored and available on request from the RODBs:

TT	Message Type
SA	METAR
SP	SPECI
FC	9 HR TAF
FT	12 to 30 HR TAF
WS	SIGMET
WC	Tropical Cyclone SIGMET
WV	Volcanic Ash SIGMET

UA	Special AIREP (1)
FV	Volcanic Ash Advisory (VAA)
FK	Tropical Cyclone Advisory (TCA)

*Note (1): Not yet available in the ASIA/PAC RODBs.*

*Note (2): Further data types may be added as new requirements emerge. Only data with valid WMO abbreviated headings as defined in the WMO publication N°386 – Manual on the Global Telecommunications System, should be processed.*

*Note (3): TAFs with 9-hour period of validity (WMO data designator - FC), are no longer issued by States in the ASIA/PAC Region, but are included in the ROBEX scheme in other regions (i.e. EUR). The 9-hour TAFs are extracted from the long TAF for some aerodromes in the ASIA/PAC region for the use in HF VOLMET. Guidance on the extraction of a short TAF from a long TAF is provided in Doc 9377, Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services.*

*Note (4): Note that IATA TAF requirements in the ASIA/PAC region are for TAF validity of either 24 or 30 hours. Some States issue 12- and 18-hour TAF which don't meet requirements, but are nevertheless classified as FT for the WMO data type designator.*

### **3 REQUEST/REPLY MESSAGE FORMAT**

#### **3.1 Request messages**

3.1.1 Request messages should follow the AFTN standard telecommunication procedures as defined in Annex 10, Volume II. The text part of the messages should be as defined in this document.

*Note: The standard AFTN message start and end characters and alignment characters (SOH, STX and ETX for ITA-5 format or ZCZC and NNNN for ITA-2 format) have been omitted for clarity in the following examples.*

3.1.2 Request messages should use the AFTN priority GG.

3.1.3 The general format of the request message is as follows:

```
GG xxxxYZYX
YYGGgg yyyyyyyy
RQM/TTCCCC,(report(s)).../TTAAii, (bulletin(s))...=
RQM/TTCCCC,(report(s)).../TTAAii, (bulletin(s))...=
....
```

The meaning of the groups and symbols in the request message is as follows:

3.1.3.1 In the AFTN heading:

**GG** priority indicator

**xxxxYZYX** AFTN address of the databank  
**YYGGgg** date-time group specifying the filing time of the request message  
**yyyyyyyy** AFTN address of the originator of the request

3.1.3.2 Each data request line is composed of the following elements:

**RQM/** indicates the start of a data request line  
**TT** WMO data type identifier (as per paragraph 2.3)  
**CCCC** 4-letter location indicator (as per ICAO Doc 7910 – *Location Indicators*)  
**or**  
**AAii** bulletin identifier (WMO manual 386, table C1 for AA)  
**=** indicator of the end of a request line.

3.1.3.3 Delimiters can be used within a request line as follows:

, indicates more requests for reports or bulletins for the same data type or different data types for one location;  
 / indicates a new data type request within the same data request line.

3.1.4 The length of the request line should not exceed 69 characters including 'RQM' and the '=' signal. Up to ten request lines can be included in one AFTN request message, unless otherwise specified by the RODB (see the Restrictions paragraph in the Appendices).

### 3.1.5 Examples of request types

#### 3.1.5.1 *Request for one data type at one location*

The format of the request line to obtain one meteorological data type for one location is as follows:

**RQM/TTCCCC=**

Examples:

1. RQM/SAYSSY=
2. RQM/FCWSSS=

#### 3.1.5.2 *Request for one data type at two or more locations*

The format of the request line to obtain one MET data type for two or more locations is as follows:

**RQM/TTCCCC<sub>1</sub>,CCCC<sub>2</sub>,.....,CCCC<sub>n</sub>=**

*Note:* Up to ten locations can be included in a request line.

Examples:

1. RQM/SAYSSY,YBBN,YMML=
2. RQM/FTNZAA,NZCH=

#### 3.1.5.3 *Request for two or more data types at one location*

The format of the request line to obtain two or more MET data types for one location is as follows:

**RQM/TT<sub>1</sub>CCCC,TT<sub>2</sub>,.....,TT<sub>n</sub>=**

Examples:

1. RQM/SAYMML,FC=
2. RQM/FTNFFN,SA,WC=

#### 3.1.5.4 ***Request for different data types at different locations***

The format of the request line to obtain different MET data types for a number of locations is as follows:

**RQM/TT<sub>1</sub>CCCC,CCCC, .../TT<sub>2</sub>CCCC,CCCC,.../...../TT<sub>n</sub>CCCC,CCCC,...=**

Examples:

1. RQM/SAYSSY/FCYBBN,YMML/FTYMML=

#### 3.1.5.5 ***Request for a meteorological bulletin***

The format of the request line to obtain a Meteorological Bulletin is as follows:

**RQM/TTAAii=**

Examples:

1. RQM/FTAE31=
2. RQM/SATH33=

*Note: Only one bulletin can be requested in a RQM request line. Up to six bulletins can be included in a request message*

#### 3.1.5.6 ***Other request options***

RODBs may apply other specific request formats and options, such as requesting a number of preceding messages of certain data type, which should be described in the “specific request formats” section in the Appendices for each RODB.

### 3.2 **Reply messages**

3.2.1 If the AFTN address of the originator of a request is authorised, the databank should automatically reply to the AFTN originator address given in the request message.

3.2.2 Valid requests for bulletins and/or messages should produce an answer, which should be returned in a standard WMO bulletin format embedded as text in a standard AFTN message. Each bulletin should be sent as a separate message.

3.2.3 Per valid requested bulletin or message(s) belonging to the same type and concerning valid stored messages, one or more reply bulletins should be generated. Non-valid requested groups should be replied by an appropriate *Information* or *Error* reply message.

3.2.4 In preparing the reply messages by the RODBs the following should apply:

3.2.4.1 A reply to a METAR request should consist of the latest METAR and/or SPECI reports available for the requested station.

3.2.4.2 When a request for SIGMET of any type (WS, WC or WV) is received, the reply should contain all valid WS, WV and WC SIGMETs that are available for the FIR concerned.

### 3.2.5 **Format of the reply message**

*Note:* The RODBs are currently using different formats of the reply messages, which are described in the respective Appendices. The format described below is proposed as an unified format for consideration by the RODBs. Its implementation will be further coordinated through the Meteorological Information Exchange Working Group of the MET Sub-group of APANPIRG.

3.2.5.1 The WMO abbreviated heading of a reply message will be constructed as:

**TTAAii CCCC YYGGgg**

where,

<b>TT</b>	=	is the requested data type (e.g., SA)
<b>AA</b>	=	<b>XX</b> : fixed geographical designator for database reply or as specified by the RODB
<b>ii</b>	=	<b>99</b> : fixed bulletin number for database reply or as specified by the RODB
<b>CCCC</b>	=	location indicator of the reply database (e.g. VTBB, WSSS, etc.)
<b>YYGGgg</b>	=	date-time group (DTG) depending on the original DTG of the bulletin header

*Note:* For the issuing time of TAF and the observation time of METAR the user should refer to the DTG in the reports, which might be different from the DTG in the header.

Example:

```
SAXX99 VTBB 031200
METAR CCCC 031200Z ...
METAR CCCC 031200Z
...
```

### 3.2.6 **Format of the *Information* and *Error* reply messages**

3.2.6.1 Currently the RODBs are using different formats of the “*Information and Error messages*”, which are sent to the originator of the request when the RODB is not in a

position to send back valid OPMET data. The format of these messages is specified in the Appendices for each RODB.

## 4 DATABASE MISUSE AND ABUSE

4.1 The RODBs should on a continuous basis monitor all the requests received from AFTN-users. In order to determine possible abuse or misuse of the ASIA/PAC Infrastructure (ASIA/PAC RODBs and ROBEX scheme), a detailed investigation may be performed for all frequent users. A frequent user is a user performing 100 requests or more per day, on a regular basis.

4.2 These investigations might lead to the detection of:

4.2.1 **Misuse of the DB:** the DB is not used in the way it is intended to.

A typical example of misuse would be a user requesting on a regular basis (e.g. every hour) the same reports. In case of misuse of a RODB, the ICAO Regional Office should be notified and requested contact the database user, together with its Parent RODB or ROBEX centre (or equivalent for interregional users), in order to find an alternative way to receive the required data. If a suitable solution is found to receive the data using the regular OPMET exchange procedures, but this solution is not accepted by the databank user (i.e. the misuse continues), then the RODB could decide to limit *or block* the access to the ASIA/PAC OPMET Database for this user.

4.2.2 **Abuse of the DB:** users are requesting data they are not entitled to receive or it is suspected that users use the data for commercial purposes.

In case of abuse of the RODB is suspected, the database user might be contacted by the ICAO Regional Office with a request for information on its databank use. After investigation, the RODB could decide to limit *or block* the access to the ASIA/PAC OPMET Database for this user.

## 5 ASIA/PAC OPMET DATABASE CATALOGUE

### 5.1 Basic principles

5.1.1 The ASIA/PAC OPMET Database Catalogue consists of lists of OPMET products that are required to be available in the ASIA/PAC Regional OPMET Databanks, based on the requirements stated in the ASIA/PAC ANP and additional requirements by airlines, which have been agreed with the provider States.

5.1.2 ROBEX scheme and the RODBs should ensure availability of the required OPMET information from all ASIA/PAC aerodromes included in the AOP Table of the ASIA/PAC Basic ANP (respectively, in the FASID Table MET 1A). In addition, requirements for non-AOP aerodromes have been stated by airlines to support the evolving operations, especially the long-haul and ETOP flights. These requirements are included in the SADIS User Guide, Annex 1. The ASIA/PAC OPMET Database Catalogue should include also those non-AOP aerodrome, for which the States concerned have agreed to provide the required OPMET information.

5.1.3 The ASIA/PAC OPMET Database Catalogue is provided in Appendix F (to be developed).

## **6 DISCLAIMER**

6.1 Usage of the ASIA/PAC RODBs implies that the user has taken notice of the disclaimer below, and accepts the associated consequences.

6.1.1 The lists of bulletins and stations in the ASIA/PAC OPMET Database Catalogue only consist of lists of required data. It does not mean that these data are presently received in the ASIA/PAC OPMET Database, or have been yet received.

6.1.2 The fact that there is no data found for one location and one type of message in the ASIA/PAC OPMET Database does not mean that a message has not been generated for such a location, but only means that no valid message concerning such a location and such a type of message has been received or stored by the ASIA/PAC OPMET Database.

6.1.3 The user assumes the entire risk related to its use of data.

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**APPENDIX A**  
**REGIONAL OPMET DATA BANK - BANGKOK**  
**(RODB Bangkok)**

**1. General Information**

- 1.1. Bangkok OPMET Data Bank was established since 6 August 1997. The system was developed and implemented by AEROTHAI' s engineers. The system has been continually developed to enhance its performance.

**2. Contact Information :**

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**3. AFTN address ; VTBBZYX**

**4. Data type held:**

- 4.1. Meteorological messages stored in the Bangkok data bank for direct access by users through standardized interrogation procedures are as follow:

FT	-	Aerodrome Aviation Forecasts valid up to 30 hours (TAF)
SA	-	Routine Aviation Meteorological reports (METAR)
SP	-	Special Aviation Meteorological reports (SPECI)
UA	-	Air Report
WS	-	SIGMET for other weather phenomena
WC	-	SIGMET for Tropical Cyclone
WV	-	SIGMET for Volcanic Ash
FV	-	Volcanic Ash Advisory (VAA)
FK	-	Tropical Cyclone Advisory (TCA)

**5. Restriction:**

- 5.1. One line shall be less than 69 characters including RQM designator and equal signal.
- 5.2. The request line for one message shall not exceed ten locations or ten bulletins. It shall be started by "RQM" and ended by "=" in each line
- 5.3. Up to ten request lines per message are accepted
- 5.4. Up to two data types of request per message are accepted

**6. Response:**

- 6.1. Request message follow the format will be reply automatically
- 6.2. Format request message error would have message return
- 6.3. A request message which is not available in data bank will reply "NIL" =  
Example: METAR VTSS NIL=

**7. Interrogation Procedures:**

- 7.1. Message address and format used for request message
- 7.2. The ICAO location indicators shall be used
- 7.3. The messages shall be addressed to **VTBBYZYX** with priority "GG" "FF" or "DD"

**8. Details of data request line:**

RQM/	=	Indicates the start of a data request line
/	=	Indicates a new data type request within the same data request line.
,	=	Indicates more requests for reports or bulletins for the same data type
TT	=	WMO data type identifier
CCCC	=	4-letter location indicator
AAii	=	Bulletin identifier
=	=	An equal sign indicates the end or RQM line.

## 9. Examples of request formats are given below:

	Example
<p>1. <b>Request for only one data type at one location</b></p> <p>RQM/TTCCC=</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK</p>	RQM/SAVTCC=
<p>2. <b>Request for only one data type at two or more location but not more than ten</b></p> <p>RQM/TTCCC1,CCCC2,...CCCC10=</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK</p>	RQM/FTVTBU,VTSS.VTSP,VVNB,VVDN,VTCC,VLVT,VYMD,VTBD,VTBS=
<p>3. <b>Request for only one Meteorological Bulletin</b></p> <p>RQM/TTAAii=</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK</p>	RQM/FTTH33=
<p>4. <b>Request for two or more Meteorological Bulletin but not more than ten</b></p> <p>RQM/TTAAii,TTAAii =</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK</p>	RQM/SAAE31,SATH31,SATH32,SATH33= RQM/FTAE31,FTAE32,FTTH31,FTTH32 FTTH33=
<p>5. <b>Request for one location but specific date time group in WMO line</b></p> <p>RQM/TTCCDDDDDD=</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK</p>	RQM/SAVTBD210330=
<p>6. <b>Request for one Meteorological Bulletin but specific date time group in WMO line</b></p> <p>RQM/TTAAiiDDDDDD=</p> <p>Type available : FT,SA,SP,WS,WV,WC,FV,FK,UA</p>	RQM/SAAE31210330=

**RODB Bangkok - OPMET Data Catalogue:****METAR and TAFOR Bulletins****ASIA/PACIFIC REGION****AUSTRALIA**

TTAAii	Originator	Location (CCCC) or FIR
SAAU31	YBBN	YBBN, YMML, YPAD, YPDN, YPPH, YSSY
SAAU32	YBBN	YBRK, YBRM, YMAV, YMHB, YMLT, YPKG, YPPD, YSCB, YSNF, YWLM, YBAS, YBCS, YPLM, YPTN, YBTL, YBCG, YPXM, YPCC, YCFS, YLHI
SAAU33	YBBN	YSDU, YPWR, YPEA, YSRI, YPJT, YHID, YSTW, YGEL, YAMB
SAAU34	YBBN	YBHM, YBMA
SAAU35	YBBN	YCIN, YFRT, YPKU, YPGV
FTAU31	YBBN	YBBN, YMML, YPAD, YPDN, YPPH, YSSY
FTAU32	YBBN	YBAS, YBCG, YBCS, YBTL, YMAV, YPKG, YPLM, YPTN, YSCB, YBRM, YPXM, YPCC, YMHB, YMLT, YSNF, YPPD, YBRK, YWLM, YCFS, YLHI
FTAU33	YBBN	YHID, YPEA, YPJT, YPWR, YSDU, YSRI, YSTW, YGEL, YAMB
FTAU34	YBBN	YBHM, YBMA
FTAU35	YBBN	YCIN, YFRT, YPKU, YPGV
FTNG31	YBBN	AGGH, ANYN, AYPY
FTTM31	YBBN	WPDL

**BANGLADESH**

TTAAii	Originator	Location (CCCC) or FIR
SABW31	VGEG	VGEG
SABW31	VGHS	VGHS
FTBW31	VGEG	VGEG
FTBW31	VGHS	VGHS

**CHINA**

TTAAii	Originator	Location (CCCC) or FIR
SACI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWSH, ZWWW, ZYTL, ZYTX
SACI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM, ZSFZ, ZSNB, ZSQD, ZUGY, ZUUU
SACI41	ZBBB	ZBHH, ZGHA, ZHCC, ZHHH, ZJHK, ZJSY, ZLLL, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB

SACI74	ZSQZ	ZSQZ
FTCI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWSH ZWWW, ZYTL, ZYTX
FTCI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM, ZSFZ, ZSNB, ZSQD, ZUGY, ZUUU
FTCI41	ZBBB	ZBHH, ZGHA, ZHCC, ZHHH, ZJHK, ZJSY, ZLLL, ZMUB, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB
FTCI74	ZSQZ	ZSQZ

**FIJI**

TTAAii	Originator	Location (CCCC) or FIR
SAPS31	NFFN	NCRG, NFFN, NGFU, NGTA, NIUE, PLCH, NSTU, NTAA, NWWW, NSFA, NFNA
SAPS32	NFFN	NFTF, NFTL, NFTV, NLWW, NVSS, NVVV
FTPS31	NFFN	NCRG, NFFN, NFNA, NFTF, NGTA, NIUE, NLWW, NSFA, NSTU, NTAA, NWWW, PLCH

**HONG KONG (CHINA)**

TTAAii	Originator	Location (CCCC) or FIR
SAHK31	VHHH	RCKH, RCMQ, RCNN, RCSS, RCTP, RPLB, RPLI, RPLL, RPMD, RPMZ, RPVM, VHHH, VMMC
FTHK31	VHHH	RCKH, RCMQ, RCNN, RCSS, RCTP, RPLI, RPLL, RPMD, RPMZ, RPVM, VHHH, VMMC

**INDIA**

TTAAii	Originator	Location (CCCC) or FIR
SAIN31	VABB	VAAH, VABB, VANP, VOHS, VOHY, VOMM, VOTR, VOTV
SAIN32	VIDP	VIAR, VIDP, VIJP, VILK
SAIN33	VECC	VECC, VEPT, VGEG, VGHS, VNKT, VQPR
FTIN31	VABB	VAAH, VABB, VANP, VECC, VEPT, VIAR, VIBN, VIDP, VIJP, VILK
FTIN31	VIDP	VIAR, VIBN, VIDP, VIJP, VILK
FTIN32	VABB	VCBI, VNKT, VOVI, VOCL, VOHS, VOHY, VOMM, VOTR, VOTV, VRMM, VRMH
FTIN90	VOBL	VOBL, VOML
FTIN51	VOMM	VOBL, VOCI, VOCL, VOHS, VOMD, VOML, VOMM, VOTR, VOTV

**INDONESIA**

TTAAii	Originator	Location (CCCC) or FIR
SAID31	WIII	WAAA, WABB, WADD, WARR, WIDD, WIHH, WIII, WIMM

SAID32	WIII	WADL, WALL, WAMM, WAOO, WIBB, WIDN, WIOO, WIPP, WIPT
SAID33	WIII	WABP, WAJJ, WAKK, WALR, WAPP, WARQ, WARS, WATT
FTID31	WIII	WIII

**JAPAN**

TTAAii	Originator	Location (CCCC) or FIR
SAJP31	RJTD	RJAA, RJBB, RJGG, RJOO, RJTT, ROAH
SAJP32	RJTD	RJCC, RJCH, RJFF, RJFK, RJFO, RJFT, RJFU, RJOA, RJOB, RJOT, RJSN, RJSS
SAJP38	RJTD	RJAH, RJCB, RJCK, RJCM, RJEC, RJFC, RJFM, RJFR, RJNK, RJNS, RJNT, RJOC, RJOH, RJOK, RJOM, RJSA, RJSF, RJSK, ROIG
FTJP31	RJTD	RJAA, RJBB, RJCH, RJOO, RJSS, RJTT, ROAH
FTJP32	RJTD	RJCC, RJFF, RJFK, RJFO, RJFT, RJFU, RJGG, RJNK, RJNT, ,
FTJP38	RJTD	RJAH, RJCB, RJCK, RJCM, RJEC, RJFM, RJFR, RJNS, RJOC, RJOH, RJOK, RJOM, RJSA, RJFS, RJSK, ROIG

**REPUBLIC OF KOREA**

TTAAii	Originator	Location (CCCC) or FIR
SAKO31	RKSI	RKJB, RKNY, RKPC, RKPK, RKSI, RKSS, RKTN, RKTU
FTKO31	RKSI	RKJB, RKNY, RKPC, RKPK, RKSI, RKSS, RKTN, RKTU

**MALASIA**

TTAAii	Originator	Location (CCCC) or FIR
SAMS31	WMKK	WBGG, WBKK, WBSB, WMKK, WMKP, WSSL, WSSS
SAMS32	WMKK	WBGG, WBKK, WMKJ, WMKK, WMKP, WMSA
SAMS33	WMKK	WMAU, WMBA, WMKA, WMKB, WMKC, WMKD, WMKI, WMKL, WMKM, WMKN
SAMS38	WMKK	WBGB, WBGR, WBSG, WBKL, WBKS, WBKW, WMKD, WMKL, WMKM
FTMS40	WMKK	WBGB, WBGR, WBSG, WBKL, WBKS, WBKW, WMKL, WMKM

**NEW ZEALAND**

TTAAii	Originator	Location (CCCC) or FIR
SANZ31	NZKL	NZAA, NZCH, NZWN
FTNZ31	NZKL	NZAA, NZCH, NZWN

**PAKISTAN**

TTAAii	Originator	Location (CCCC) or FIR
SAPK31	OPKC	OPGD, OPKC, OPLA, OPNH, OPPS, OPRN, OPSK
FTPK31	OPKC	OPGD, OPKC, OPLA, OPNH, OPPS, OPRN, OPSK

**SINGAPORE**

TTAAii	Originator	Location (CCCC) or FIR
SASR31	WSSS	WSSS
FTSR31	WSSS	WAAA, WABB, WADD, WARR, WIHH, WIMM, WSAP, WSSL, WSSS
FTSR32	WSSS	WMKJ, WMKK, WMKL, WMKM, WMKP, WMSA
FTSR33	WSSS	WBGB, WBGG, WBGR, WBGS, WBKK, WBKL, WBKS, WBKW, WBSB

**SRI LANKA**

TTAAii	Originator	Location (CCCC) or FIR
SASB31	VCCC	VCBI

**THAILAND**

TTAAii	Originator	Location (CCCC) or FIR
SAAE31	VTBB	VDPP, VDSR, VLVT, VTBD, VTBS, VTBU, VTCC, VTSP, VTSS, VYMD, VYYY
SAAE32	VTBB	VLLB, VLLN, VLPS, VLSK
SAAE33	VTBB	VVTS, VVNB, VVDN, VVPB, VVCR, VVCT, VVPQ
SATH31	VTBB	VTCH, VTCL, VTCN, VTCP, VTCT, VTPH, VTPO, VTPP
SATH32	VTBB	VTSB, VTSC, VTSE, VTSG, VTSH, VTSM, VTSR, VTST
SATH33	VTBB	VTBO, VTUD, VTUI, VTUK, VTUL, VTUO, VTUQ, VTUU, VTUV, VTUW
SATH41	VTBB	VTPB, VTPM, VTSE, VTSK, VTUJ
FTAE31	VTBB	VTBD, VTBS, VTBU, VTCC, VTCT, VTSG, VTSP, VTSS, VTUU
FTAE32	VTBB	VDPP, VDSR, VGHS, VYYY, VYMD
FTAE33	VTBB	VLVT, VLLB, VLLN, VLSK, VLPS
FTAE34	VTBB	VVTS, VVNB, VVDN, VVPB, VVCR, VVCT, VVPQ
FTTH31	VTBB	VTCH, VTCL, VTCN, VTCP, VTPB, VTPM, VTPO, VTPP, VTPT, VTPH
FTTH32	VTBB	VTSB, VTSC, VTSE, VTSE, VTSH, VTSK, VTSM, VTSR, VTST
FTTH33	VTBB	VTUD, VTUI, VTUJ, VTUK, VTUL, VTUO, VTUQ, VTUV, VTUW, VTBO

**MIDDLE EAST REGION****BAHRAIN**

TTAAii	Originator	Location (CCCC) or FIR
SABN31	OBBI	OBBI, OEDF, OEDR, OKBK, OTBD, OTHH

SABN32	OBBI	OMAA, OMAD, OMAL, OMDB, OMDW, OMFJ, OMRK, OMSJ, OOMS, OOSA
FTBN31	OBBI	OBBI, OEDF, OEDR, OKBK, OTBD, OTHH
FTBN32	OBBI	OMAA, OMAD, OMAL, OMDB, OMDW, OMFJ, OMRK, OMSJ, OOMS, OOSA

**CYPRUS**

TTAAii	Originator	Location (CCCC) or FIR
FTCY31	LCLK	LCLK, LCNC, LCPH

**IRAN (ISLAMIC REPUBLIC OF)**

TTAAii	Originator	Location (CCCC) or FIR
SAIR31	OIII	OIAW, OIFM, OIII, OIKB, OIKK, OIMM, OISS, OITT, OIZH
SAIR32	OIII	OIAA, OIBK, OICC, OIGG, OIIE, OITR, OIYY
SAIR33	OIII	OIBB, OIBP, OICK, OICS, OIHH, OINZ, OITL, OIZC, OISR
SAIR34	OIII	OIAM, OICI, OIKQ, OINN, OINR, OISL, OISY, OITZ, OIAG
SAIR35	OIII	OIBJ, OIBS, OIHR, OIKM, OIKR, OING, OIZB, OIZI, OIAD
SAIR36	OIII	OIBA, OIBV, OIFS, OIIP, OIMB, OIMN, OIMT, OIZJ, OIMS
SAIR37	OIII	OIBQ, OIIK, OIMC, OIMD, OIMQ, OITK, OITM, OIBL, OINE
FTIR31	OIII	OIAW, OIFM, OIII, OIKB, OIKK, OIMM, OISS, OITT, OIZH
FTIR32	OIII	OIAA, OIBK, OIIE, OITR

**LEBANON**

TTAAii	Originator	Location (CCCC) or FIR
SAME31	OLBA	OJAI, OJAM, OJAQ, OLBA, OSAP, OSDI, OSLK
FTME31	OLBA	OJAI, OJAM, OJAQ, OLBA, OSDI, OSLK

**SAUDI ARABIA**

TTAAii	Originator	Location (CCCC) or FIR
SASD20	OEJD	OEAB, OEAH, OEAO, OEBA, OEBH, OEDF, OEDM, OEDR, OEGN, OEGS, OEGT, OEHL, OEJN, OEKJ, OEKK, OEKM, OEMA, OEMK, OENG, OEPA, OERF, OERK, OERR, OERY, OESH, OESK, OETB, OETF, OETR, OEWD, OEWJ, OEYN
SASD31	OEJD	OEDF, OEDR, OEJN, OEMA, OERK, OERY, OYAA, OYSN
SAAR20	OEJD	OBBI, OKBK, OMAA, OMAD, OMAL, OMDB, OMFJ, OMRK, OMJJ OOPR, OOKB, OOMS, OOSA, OOSH, OOSQ, OOSR, OOTH, OOYB, OTB, OTHH
FTAR20	OEJD	OBBI, OKBK, OMAA, OMAD, OMDB, OMRK, OMSJ, OOMS, OOSA, OTBD, OYAA, OYSN, OOB, OOKB, OOSH, OOSQ, OOSR, OOTH, OOYB
FTSD22	OEJD	OEDF, OEDR, OEJN, OEMA, OERK

FTSD31	OEJD	OEDF, OEJN, OEMA, OERK, OYAA, OYSN, OEDR
FTSD40	OEJD	OEAB, OEAH, OEBA, OEBH, OEGN, OEGS, OEGT, OEHL, OEKJ, OEKM, OENG, OEPA, OERF, OERR, OERY, OESH, OESK, OETB, OETF, OETR, OEWD, OEWJ, OEYN

### OTHERS REGION

#### SOUTH AFRICA

TTAAii	Originator	Location (CCCC) or FIR
SAAP31	FAPR	FACT, FAEL, FAGG, FAKM, FAKN, FALE, FAOR
SAAP32	FAPR	FALM, FAMM, FAPN, FAPP, FAUT
SAAP33	FAPR	FAPE, FAUP, FAWB, FAWK, FBSK, FBFT, FBKE, FBMN
SAAP34	FAPR	FBSP, FVBU, FVCZ, FVFA, FVHA, FVKB, FVMV, FVWN
SAAP35	FAPR	FDMS, FLHN, FLKK, FLSK, FWCL
SAAP36	FAPR	FQBR, FQQL
SAAP37	FAPR	FAPR, FYGF, FYKT, FYOA, FYWB, FYWE, FYWH
FTAP32	FAPR	FACT, FALE, FBSK, FWKI, FVHA, FAGG, FAOR, FYWH
FTAP39	FAPR	FALA, FALE, FAPE, FAUP

#### MOZAMBIQUE

TTAAii	Originator	Location (CCCC) or FIR
FTMZ31	FQMA	FQMA, FQBR, FQNP, FQTT, FQLC, FQPB, FQQL, FQCH, FQVL, FQIN

#### ETHIOPIA

TTAAii	Originator	Location (CCCC) or FIR
FTEA31	HAAB	HAAB, HADR

#### AUSTRIA

TTAAii	Originator	Location (CCCC) or FIR
FTOS31	LOWM	LOWW
FTOS32	LOWM	LOWI, LOWK, LOWS, LOWL, LOWG

#### BELGIUM

TTAAii	Originator	Location (CCCC) or FIR
FTBX31	EBBR	EBBR, EBLG, EBOS, ELLX, EBCI

#### DENMARK

TTAAii	Originator	Location (CCCC) or FIR
FTDN31	EKCH	EKAH, EKBI, EKCH, EKYT

#### FRANCE

TTAAii	Originator	Location (CCCC) or FIR
FTFR31	LFPW	LFLI, LFMN, LFPG, LFPO

FTFR32	LFPW	LFQQ, LFPW, LFRB, LFRS
FTFR33	LFPW	LFBD, LFBO, LFLX, LFML
FTFR34	LFPW	LFBH, LFBI, LFBL, LFBP, LFBT, LFBZ, LFLB

**GERMANY**

TTAAii	Originator	Location (CCCC) or FIR
FTDL31	EDZO	EDDF, EDDH, EDDK, EDDL, EDDM
FTDL32	EDZO	EDDB, EDDC, EDDG, EDDN, EDDP, EDDS, EDDT, EDDV, EDDW
FTDL33	EDZO	EDDE, EDDR, EDFH, EDLP, EDLW, EDNY, EDOP, EDLV, EDRZ, EDSB

**GREECE**

TTAAii	Originator	Location (CCCC) or FIR
FTGR31	LGAT	LGAV, LGEL, LGKR, LGTS
FTGR32	LGAT	LGIR, LGKO, LGRP, LGSA

**HUNGARY**

TTAAii	Originator	Location (CCCC) or FIR
FTHU31	LHBM	LHBP, LHPA

**IRELAND**

TTAAii	Originator	Location (CCCC) or FIR
FTIE31	EIDB	EICK, EIDW, EIKN, EINN

**ITALY**

TTAAii	Originator	Location (CCCC) or FIR
FTIY31	LIIB	LIEE, LIMC, LIME, LIMF, LIMJ, LIML, LIMP, LIRA, LIRF, LIRN, LIRP, LIEO, LIRQ
FTIY32	LIIB	LIBD, LIBP, LICA, LICC, LICJ, LIEA, LIPB, LIPE, LIPK, LIPO, LIPQ, LIPY, LIPZ
FTIY33	LIIB	LIBR, LICR, LIMZ, LIPH
FTIY36	LIIB	LIBC, LIBF, LIRZ
FTIY37	LIIB	LICD
FTIY40	LIIB	LIBD, LIBP, LIBR, LICA, LICR, LICC, LICJ, LIEA, LIMC, LIME, LIMF, LIMJ, LIML, LIPH, LIPE, LIPK, LIPZ, LIRA, LIRF, LIRN, LIRP

**LIBYAN ARAB JAMAHIRIYA**

TTAAii	Originator	Location (CCCC) or FIR
FTLY31	HLMC	HLLM
FTMP31	LMMM	HLLB, HLLT, LMML

**NETHERLANDS**

TTAAii	Originator	Location (CCCC) or FIR
FTNL31	EHDB	EHAM, EHBK, EHGG, EHRD

**SPAIN**

TTAAii	Originator	Location (CCCC) or FIR
FTSP31	LEMM	LEBL, LEMD, LEMG, LEPA, LEVC
FTSP32	LEMM	LEAS, LECO, LEGR, LEPP, LEXJ
FTSP33	LEMM	LEAL, LEGE, LEST, LEVX, LEZG
FTSP34	LEMM	LEBB, LEGH, LEJR, LELC, LESO, LEVT
FTSP35	LEMM	LEBZ, LESA, LETO, LEVD
FTSP37	LEMM	LEDA, LEHC, LELL, LESU
FTSP38	LEMM	GEML

**SWITZERLAND**

TTAAii	Originator	Location (CCCC) or FIR
FTSW31	LSSW	LSGG, LSZH
<b>FTSW39</b>	<b>LSSW</b>	<b>LSMA, LSMD, LSME, LSMM, LSMT</b>

**UNITED KINGDOM**

TTAAii	Originator	Location (CCCC) or FIR
FTUK31	EGGY	EGCC, EGKK, EGLL, EGSS
FTUK32	EGGY	EGGP, EGNT, EGMN, EGNX
FTUK33	EGGY	EGBB, EGFS, EGGD, EGGW
FTUK34	EGGY	EGVN, EGWU
FTUK35	EGGY	EGAA, EGDP, EGPF, EGPH, EGPK

\*\*\*\*\* End \*\*\*\*\*

**APPENDIX B****REGIONAL OPMET DATA BANK – BRISBANE  
(RODB Brisbane)****1. General Information**

- 1.1 Direct access to the Brisbane OPMET data bank for automatic response for a request is only possible by using the AFTN address **YBBBYZYX**.

Example: **GG YBBBYZYX**  
200700 VHHHYMYX  
RQM/SAYBBN,YSSY,YMML=

- 1.2 A request made to the data bank for a message which is not available in the data bank will receive a **NIL=** reply from the data bank.

Example: GG VHHHYMYX  
200716 YBBBYZYX  
YBBN **NIL=**  
YPDN **NIL=**  
YPAD **NIL=**

- 1.3 A request made to the data bank which contains a wrong format or CCCC will receive an **ERR=** reply from the data bank.

Example: GG VHHHYMYX  
200726 YBBBYZYX  
TAF YBSY **ERR=**

**2. Contact Information**

For clarification or assistance, please contact the following office:

**Canberra NOTAM Office**

Airservices Australia

GPO Box 367

Canberra City

ACT 2601

Tel: +61 (2) 62685063

Fax: +61 (2) 62685044

e-mail: [nof@airservicesaustralia.com](mailto:nof@airservicesaustralia.com)

### 3. Restrictions

1) One request line shall be less than 69 characters including RQM designator and an '=' signal

2) Each request shall be started by 'RQM' and ended by '='. Only one request line per message is accepted.

Example:  
GG YBBBYZYX  
210507 NFFNYZYX  
**RQM/SAYBBN,YBCS,YBCG=**

3) Up to three data types of request per line are accepted

Example:  
RQM/FTYPPDN,SA,SP=

4) Only one bulletin in each RQM is accepted

Example:  
RQM/FTAU31=

### 4. Specific Procedures

1) Request for bulletins and reports can be made together by single message

Example:  
RQM/SAVHHH,ZGGG/FTHK31/SPNFFN=

2) Special request format for WS, WC, and WV,

Example:

RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, ..., C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>=  
RQM/T<sub>1</sub>T<sub>2</sub>CCCC, C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>/T<sub>1</sub>T<sub>2</sub>CCCC/ T<sub>1</sub>T<sub>2</sub>  
CCCC=

RQM/WSRCTP,VHHK=  
RQM/WCRJTG=  
RQM/WVNZZO=  
RQM/WSWSJC/WCVHHK/WVRJTG=

(Where T<sub>1</sub>T<sub>2</sub> is WS, WC or WV and CCCC is the **FIR** indicator)

### 5. Examples of request formats

#### 1) Request for one data type at one aerodrome

RQM/T<sub>1</sub>T<sub>2</sub>CCCC=

RQM/FTYPPDN=

#### 2) Request for one data type at two or more aerodromes

RQM/T<sub>1</sub>T<sub>2</sub>CCCC,C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>,.....,C<sub>n</sub>C<sub>n</sub>C<sub>n</sub>C<sub>n</sub>=

RQM/SAYBBN,YMML,YPAD=  
RQM/FTYPPH,YSSY,YBCG=

#### 3) Request for TAF bulletins

RQM/T<sub>1</sub>T<sub>2</sub>,A<sub>1</sub>A<sub>1</sub>ii=

RQM/FTAU31=-

**5) Request for two or more data types at one aerodrome**RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, T<sub>1</sub>T<sub>2</sub>,..... T<sub>1</sub>T<sub>2</sub>=

RQM/FTYBCS,SA,SP=

**6) Request for two or three data types at more than one aerodrome**RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>/ T<sub>1</sub>T<sub>2</sub> A<sub>1</sub>A<sub>1</sub>, A<sub>1</sub>A<sub>1</sub>ii/ T<sub>1</sub>T<sub>2</sub>  
CCCC=RQM/SAYBBN,YPAD/FCAU31/SP  
YBCG=**6. RODB Brisbane – OPMET Data Catalogue***Legend*

TTAAii	First group of the WMO Abbreviated Heading of the bulletin
CCCC	Second group of the WMO Abbreviated Heading of the bulletin – ICAO location indicator of the originator (bulletin compiling centre, aerodrome meteorological office or MWO)
Locations	List of the aerodromes included in the bulletin for the METAR and TAF bulletins

**ASIAPACIFIC REGION****Australia**

TTAAii	CCCC	Locations
FTAU31	YBBN	YPAD, YBBN, YPDN, YMML, YPPH, YSSY
FTAU32	YBBN	YBAS, YBCG, YBCS, YBRK, YBRM, YBTL, YCFS, YLHI, YMAV, YMH, YMLT, YPCC, YPKG, YPLM, YPPD, YPTN, YPXM, YSCB, YSNF, YWLM
FTAU33	YBBN	YAMB, YGEL, YHID, YPEA, YPJT, YPWR, YSRI, YSTW, YSDU
FTAU34	YBBN	YBHM, YBMA
FTAU35	YBBN	YCIN, YFRT, YPKU, YPGV
SAAU31	YBBN	YSSY, YMML, YBBN, YPAD, YPDN, YPPH
SAAU32	YBBN	YSCB, YBCG, YMAV, YBRK, YPKG, YPPD, YBRM, YSNF, YWLM, YMLT, YMH, YBAS, YBCS, YPLM, YPTN, YBTL, YPXM, YPCC, YCFS, YLHI
SAAU33	YBBN	YSDU, YPWR, YPEA, YSRI, YPJT, YHID, YSTW, YGEL, YAMB
SAAU34	YBBN	YBHM, YBMA
SAAU35	YBBN	YCIN, YFRT, YPKU, YPGV
WSAU21	YBBN	YBBB, YMMM

**China**

TTAAii	CCCC	Locations
FTCI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWWW, ZYTL, ZYTX, ZWSH
FTCI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM, ZSQD, ZUUU
FTCI41	ZBBB	ZBHH, ZGHA, ZHHH, ZJHK, ZJSY, ZLLL, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB, ZHCC
SACI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWWW, ZYTL, ZYTX, ZWSH
SACI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM,

SACI41	ZBBB	ZSQD, ZUUU ZBHH, ZGHA, ZHHH, ZJHK, ZJSY, ZLLL, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB, ZHCC
<b>Timor Leste</b>		
TTAAii	CCCC	Locations
FTTM31	YBBN	WPDL
<b>FIJI</b>		
TTAAii	CCCC	Locations
FTPS31	NFFN	NFFN, NWWW, NSTU, NCRG, PLCH, NGTA, NIUE, NSFA, NFTF, NFTV, NVVV, NVSS, NFNA, NLWW, NSAP, NGFU
SAPS31	NFFN	NCRG, NFFN, NGFU, NGTA, NIUE, PLCH, NFNA
SAPS32	NFFN	NFTF, NFTL, NFTV, NLWW, NSMA, NVVV, NSFA, NVSS
<b>Hong Kong</b>		
TTAAii	CCCC	Locations
FTHK31	VHHH	VHHH, RCTP, RCKH, RCSS, VMMC, RPLL, RPVM, RPLB, RPMZ, RPLI, RPMZ
SAHK31	VHHH	VHHH, RCTP, RCKH, RCSS, VMMC, RPLL, RPVM, RPMZ, RPLB, RPLI, RPMZ
<b>India</b>		
TTAAii	CCCC	Locations
FTIN31	VABB	VAAH, VABB, VANP, VECC, VEPT, VIAR, VIBN, VIDP, VIJP, VILK
FTIN32	VABB	VCBI, VNKT, VOCI, VOCL, VOHY, VOMM, VOTR, VOTV, VRMM
SAIN31	VABB	VAAH, VABB, VANP, VOHY, VOMM, VOTR, VOTV, VQPR
SAIN33	VECC	VECC, VEPT, VGEG, VGZR, VNKT
SAIN32	VIDP	VIDP, VILK, VIAR, VIBN, VIJP
<b>Indonesia</b>		
TTAAii	CCCC	Locations
SAID31	WIII	WIII, WIHH, WIMM, WAAA, WADD, WARR, WABB, WIDD
SAID32	WIII	WIPT, WIPP, WIBB, WAOO, WALL, WAMM, WIDN, WIOO, WADA, WIMG
SAID33	WIII	WARS, WABP, WAJJ, WAKK, WAPP, WICT, WATT, WALR
<b>Japan</b>		
TTAAii	CCCC	Locations
FTJP31	RJTD	RJAA, RJBB, RJTT, RJOO, ROAH, RJCH, RJSS
FTJP32	RJTD	RJFF, RJGG, RJCC, RJFK, RJSN, RJFU, RJFT, RJOA, RJOB, RJOT, RJFO, RJNT, RJNK
SAJP31	RJTD	RJAA, RJBB, RJTT, RJOO, ROAH, RJGG
SAJP32	RJTD	RJFF, RJCC, RJFK, RJFU, RJCH, RJOT, RJOA, RJFT, RJSN, RJFO, RJOB, RJSS
<b>Korea</b>		
TTAAii	CCCC	Locations
FTKO31	RKSI	RKSI, RKSS, RKPC, RKPK, RKTU, RKNY, RKTN, RKJB
SAKO31	RKSI	RKSI, RKSS, RKPC, RKPK, RKTU, RKNY, RKTN, RKJB
<b>Malaysia</b>		
TTAAii	CCCC	Locations
SAMS31	WMKK	WBGG, WBKK, WBSB, WMKK, WMKP, WSSL, WSSS
SAMS38	WMKK	WBGB, WBGR, WBGS, WBKL, WBKS, WBKW, WMKD, WMKL, WMKM
<b>New Zealand</b>		

TTAAii	CCCC	Locations
FTNZ31	NZKL	NZAA, NZWN, NZCH
SANZ31	NZKL	NZAA, NZWN, NZCH
<b>Pakistan</b>		
TTAAii	CCCC	Locations
FTP31	OPKC	OPKC, OPKN, OPLA, OPNH, OPPS, OPGD
SAP31	OPKC	OPKC, OPLA, OPNH, OPRN, OPGD, OPPS
<b>Papua New Guinea</b>		
TTAAii	CCCC	Locations
FTNG31	YBBN	AYPY, AUUU, AGGH
SANG31	YBBN	AYPY, AYWK, AYVN, AYNZ, AYM, AYGN, AYMO, AGGH
<b>Singapore</b>		
TTAAii	CCCC	Locations
FTSR31	WSSS	WSSS, WSAP, WAAA, WABB, WADD, WARR, WIHH, WIII, WIMM, WSSL
FTSR32	WSSS	WMKJ, WMKK, WMKL, WMKM, WMKP, WMSA
FTSR33	WSSS	WBSB, WBGB, WGG, WBGR, WBS, WBKL, WBKS, WBKW
<b>Sri Lanka</b>		
TTAAii	CCCC	Locations
SASB31	VCCC	VCBI, VRMM
<b>Thailand</b>		
TTAAii	CCCC	Locations
FTAE31	VTBB	VTBS, VTBD, VTBU, VTCC, VTSS, VTSP, VGZR, VLV
FTAE32	VTBB	VDPP, VVTS, VVNB, VVDN, VYYY, VYMD, VDSR
FTTH31	VTBB	VTCT, VTCL, VTCN, VTCP, VTCH, VTPM, VTPP, VTPT, VTPO, VTPB
FTTH32	VTBB	VTBS, VTSM, VTSC, VTSK, VTST, VTSF, VTSG, VTSE, VTSH, VTSR
FTTH33	VTBB	VTUU, VTUD, VTUI, VTUJ, VTUK, VTUL, VTUO, VTUQ, VTUV, VTUW
SAAE31	VTBB	VTBS, VTBD, VTCC, VTBU, VTSS, VTSP, VLV, VYYY, VVTS, VVNB, VDPP, VVDN, VYMD, VDSR
SATH31	VTBB	VTPB, VTCT, VTCL, VTCN, VTCP, VTCH, VTPH, VTPM, VTPP, VTPO
SATH32	VTBB	VTBS, VTSM, VTSC, VTSK, VTST, VTSR, VTSG, VTSF, VTSE, VTSH
SATH33	VTBB	VTUD, VTUI, VTUK, VTUU, VTUL, VTUO, VTUW, VTUQ, VTUV, VTUJ, VTBO
<b>OTHER REGIONS</b>		
<b>Bahrain</b>		
TTAAii	CCCC	Locations
FTBN31	OBBI	OBBI, OEDR, OTBD, OKBK
FTBN32	OBBI	OMAA, OMAL, OMDB, OMSJ, OMRK, OMFJ, OOMS, OOSA
SABN31	OBBI	OBBI, OEDF, OEDR, OTBD, OKBK, OOSA
SABN32	OBBI	OMAA, OMAL, OMDB, OMFJ, OMRK, OMSJ, OOMS
<b>Eastern Mediterranean</b>		
TTAAii	CCCC	Locations
FTME31	OLBA	OLBA, OSDI, OJAM, OJAI, ORBI, ORMM
SALB31	OLBA	OLBA, OSDI, OJAM, OJAI
<b>Iran</b>		

TTAAii	CCCC	Locations
FTIR31	OIII	OIII, OIFM, OISS, OIZH, OIKB, OIMM, OIAW, OITT, OIKK
SAIR31	OIII	OIII, OIFM, OISS, OIZH, OIKB, OIMM, OIAW, OITT, OIKK
SAIR32	OIII	OAKB, OAKN
<b>Iraq</b>		
TTAAii	CCCC	Locations
SAAW31	ORBS	ORBI, ORMM
<b>Saudi Arabia</b>		
TTAAii	CCCC	Locations
FTSD31	OEJD	OEJN, OEMA, OERK, OEDR, OYSN, OYAA
SADS31	OEJD	OEDF, OEDR, OEJN, OEMA, OERK, OERY, OYSN

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**APPENDIX C****NADI DATA BANK**

*Note: The content of Appendix C has not been updated in this edition due to lack of information*

**General:** Requests for inclusion in the list of authorized users for the NADI Data Bank should be sent to NFFNYZYX.

**AFTN address:** NFFNYZYX

**MET data types held:**

FT TAF (Validity 12 to 30 hrs)  
FC TAF (Validity 9 hrs)  
WS SIGMET (Includes WC and WV data types)

**Restrictions:**

- a) Only one RQM line can be used in an AFTN request message.
- b) Bulletins are not available.

**Response:** The response from the system will contain the requested MET data or bulletin if available.

System messages may be generated as follows:

- a) If the message text commences with 'RQM/' but the format is incorrect, the response to the query will be '+ERR='.
- b) The message 'ACCESS TO DATA BANK NOT AUTHORISED' will be generated by the system in response to queries from locations whose addressee indicator is not found in the list of authorised users of the data bank.
- c) In response to a valid request, if no data is found the response will be '+NIL'. If some data is missing, only the available data will be included in the response.

**Data bank catalogue:**

TAFs available from the NADI Data Bank are listed below:

**South Pacific (FC data type)**

NFFN	Nada/Fiji
NCRG	Avarua/Rarotonga Intl
NFNA	Nausori Intl
NFTF	Tongatapu/Fua'Amotu Intl Tonga
NIUE	Alofi/Niue Intl
NLWW	Wallis/Hififo

*Note: TAFs with 9-hour period of validity (WMO data designator - FC), are no longer issued by States in the ASIA/PAC Region, but are included in the ROBEX scheme in other regions (i.e. EUR). The 9-hour TAFs are extracted from the long TAF for some aerodromes in the ASIA/PAC region for the use in HF VOLMET. Guidance on the extraction of a short TAF from a long TAF is provided in Doc 9377, Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services.*

**South Pacific (FT data type)**

NFFN	Nadi/Fiji
NSTU	Pagopago Intl/Tutuila
NWWW	Noumea/LaTontouta
NTAA	Tahiti/Faaa, Archipel de La
NTTO	Hao/Archipel Des Tuamotu
NVSS	Santo/Pekoa
NVVV	Port Vila/Bauerfield
NVVK	Lenakel
NGTA	Tarawa/Bonriki Intl
AYPY	Port Moresby

**Australia**

YBAS	Alice Springs
YBBN	Brisbane
YBCS	Cairns
YBTL	Townsville
YMML	Melbourne
YPAD	Adelaide
YPDN	Darwin
YPLM	Learmonth
YPPH	Perth
YSSY	Sydney

**New Zealand**

NZAA	Auckland Intl
NZCH	Christchurch Intl
NZWN	Wellington Intl

**North Pacific**

PJON	Johnston/Johnston Atoll
PKMJ	Marshall Islands/Intl Majuro
PWAK	Wake island Airfield
PTSA	Kosrae Kosrae island
PHTO	Hilo/Intl Hilo
PHNL	Honolulu Intl

**China**

RCKH	Gaoxiong
RCTP	Taipei/City/Taipei Intl
VHHH	Hong Kong

**Japan**

RJAA	Tokyo/New Tokyo Intl
RJCC	Saporo/New Chitose
RJFF	Fukuoka
RJFO	Oita
RJFU	Nagasaki
RJNN	Nagoya
RJNT	Toyama
RJOA	Hiroshima
RJOB	Okayama
RJOO	Osaka Intl
RJSS	Sendai
RJTT	Tokyo Intl
ROAH	Naha

**Philippines**

RPMM	Manila/Intl
RPMT	Lapu-Lapu/Mactan Intl

**Indonesia**

WIII	Jakarta/Soekarno Hatta Intl
WIIH	Jakarta/Halimperdanakusuma
WRRR	Bali Intl/Ngurah Rai
WRSJ	Surabaya/Juanda

**Singapore/Malaysia**

WMKJ	Johor Bahru
WMKP	Penang
WSAP	Paya lebar (RSAF)
WSSS	Singapore Changi

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## APPENDIX D

REGIONAL OPMET DATA BANK – SINGAPORE  
(RODB Singapore)

## 1. General Information

1.1 Direct access: AFTN address **WSSSYZYX**

The general format of the request messages is as follows:

Example: **GG WSSSYZYX**  
200700 WBSBYMYX  
RQM/SAWSSS,WMKK,WIII= (A request for reports)

**GG WSSSYZYX**  
200700 WBSBYMYX  
RQM/FTSR31, HK31= (A request for bulletins)

## 1.2. Meteorological Data types held:

SA	METAR
SP	SPECI
FT	TAF
WS	SIGMET
WC	SIGMET, Tropical Cyclone
WV	SIGMET, Volcanic Ash
FK	Advisory for TC
FV	Advisory for VA

## 1.3. DB Response

## 1.3.1 Reply Message

The WMO abbreviated heading of a reply message will be as follows:

**TTSR99 WSSS YYGGgg** (TT is the requested data type, e.g. FT)

Example:

GG WIDDYMYF  
220908 WSSSYZYX  
FTXX99 WSSS 220900  
TAF WMKK 220900Z 2212/2312 01007KT 9999 FEW017CB SCT140  
BKN280=

GG CYKFXNSA  
220915 WSSSYZYX  
SAXX99 WSSS 220900  
METAR WAAA 220900Z 09003KT 040V160 7000 SCT019 28/25 Q1010=  
METAR WALL 220900Z 07010KT 9999 FEW018CB 30/27 Q1009 RMK  
CB TO N=

1.3.2 A request made to the data bank for a message which is not available in the data bank will receive a **CCCC NIL** reply.

Example:

GG LFPWYZYX  
220906 WSSSYZYX  
ZZXX99 WSSS 220906  
RQM/FTVOBG  
TAF VOBG NIL=

1.3.3 A request made to the data bank which contains a wrong format or CCCC will receive **CCCC Unknown** message from the data bank.

Example:

GG WBSBYMYX  
220912 WSSSYZYX  
ZZXX99 WSSS 220912  
RQM/FTWSSA  
TAF WSSA UNKNOWN=

## 2. Contact Information

For clarification or requires any assistance, please contact the following officer:

**Ms. CHUA Guat Mui**  
 Chief Technical Officer  
 Weather Services Department  
 Meteorological Service Singapore  
 Singapore Changi Airport Post Office  
 P.O. Box 8, Singapore 918141

Tel: +65 65422861  
 Fax: +65 65425026  
 e-mail: [chua\\_gaut\\_mui@nea.gov.sg](mailto:chua_gaut_mui@nea.gov.sg)

## 3. Restrictions

1) One request line shall be less than 69 characters including RQM designator and an '=' signal	
2) Each request shall be started by 'RQM' and ended by '='. Only one request line per message is accepted.	Example: GG WSSSYZYX 210507 RCTPYMYX RQM/SAWSAP,WMKJ,WMKL=
3) Up to three data types of request per line are accepted	Example: RQM/FTEGLL,SA,SP=
4) Only three bulletins in each RQM line is accepted	Example: RQM/FTDL31,DN31,CI32=

#### 4. Specific Procedures

<p>1) Request for bulletins and for reports could be made together by single message</p>	<p>Example: RQM/SAVHHH,ZGGG/FTSR31/SPWSSS=</p>
<p>2) Special request format for WS, WC, and WV, RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, ..., C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>= RQM/T<sub>1</sub>T<sub>2</sub>CCCC, C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>/T<sub>1</sub>T<sub>2</sub>CCCC/ T<sub>1</sub>T<sub>2</sub> CCCC= (Where T<sub>1</sub>T<sub>2</sub> is WS, WC or WV and CCCC is the FIR indicator)  RQM/WSXXXX= RQM/WCXXXX= RQM/WVXXXX= (Where XXXX is a dummy FIR Indicator)  RQM/ T<sub>1</sub>T<sub>2</sub>,AA,.....,A<sub>1</sub>A<sub>1</sub>= (Where A<sub>1</sub>A<sub>1</sub> or A<sub>1</sub>A<sub>1</sub>ii is the bulletin identifier or country designator)</p>	<p>Example:  RQM/WSRCAA,VHHK= RQM/WCRJJJ= RQM/WVNZZC= RQM/WSWSJC/WCVHHK/WVRJJJ=  RQM/WSWSJC= RQM/WCVHHK= RQM/WVNZZC=  RQM/WSJP,CI31=</p>
<p>3) Special request format for FK and FV bulletins: RQM/ T<sub>1</sub>T<sub>2</sub>,AA,.....,A<sub>1</sub>A<sub>1</sub>= (Where T<sub>1</sub>T<sub>2</sub> is FK or FV and AA or A<sub>1</sub>A<sub>1</sub> is the bulletin identifier or country designator)  RQM/FVXXXX= RQM/FKXXXX= (Where XXXX is a dummy Location Indicator)</p>	<p>Example:  RQM/FKIO= RQM/FVAU01=  RQM/FVRJTD= RQM/FKVIDP=</p>

**5. Examples of request formats**

Various RQM formats for SA, SP, FC and FT	Example
1) Request for one data type at one aerodrome  RQM/T <sub>1</sub> T <sub>2</sub> CCCC=	RQM/FTEDDF=
2) Request for one data type at two or more aerodromes  RQM/T <sub>1</sub> T <sub>2</sub> CCCC,C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> ,.....,C <sub>n</sub> C <sub>n</sub> C <sub>n</sub> C <sub>n</sub> =	RQM/SAWSSS,WMKK,WIII= RQM/FTVHHH,RCTP,RCKH=
3) Request for TAF bulletins  RQM/T <sub>1</sub> T <sub>2</sub> A <sub>1</sub> A <sub>1</sub> ,.....,A <sub>1</sub> A <sub>1</sub> ii=	RQM/FTDL31,IN=
4) Other request options for SA bulletin  RQM/T <sub>1</sub> T <sub>2</sub> CCCCn= (where n is the number of preceding messages required, n<=3)  RQM/T <sub>1</sub> T <sub>2</sub> CCCCn, C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> =  (where n is the number of preceding messages required, n<=3)  RQM/T <sub>1</sub> T <sub>2</sub> CCCC,GGgg,.....,GGgg=  (where T <sub>1</sub> T <sub>2</sub> is SA and GGgg is the standard time of observation)  RQM/T <sub>1</sub> T <sub>2</sub> XXGGgg,CCCC,.....,C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> = (where T <sub>1</sub> T <sub>2</sub> is SA and GGgg is the standard time of observation)	RQM/SAVHHH2=  RQM/SAWMKK3,WSSS=  RQM/SAVVTS,0200,0130=  RQM/SAXX0200,WMKK,VHHH,WSSS,WIIIH=

<p>5) Request for two or more data types at one aerodrome</p> <p>RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, T<sub>1</sub>T<sub>2</sub>, T<sub>1</sub>T<sub>2</sub>=</p>	<p>RQM/FTVHHH,SA,FT=</p>
<p>6) Request for two or three data types at more aerodromes</p> <p>RQM/ T<sub>1</sub>T<sub>2</sub>CCCC, C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>C<sub>1</sub>/ T<sub>1</sub>T<sub>2</sub> A<sub>1</sub>A<sub>1</sub>, A<sub>1</sub>A<sub>1</sub>ii/ T<sub>1</sub>T<sub>2</sub> CCCC=</p>	<p>RQM/SAVHHH,ZGGG/FTSR31/SPWSSS=</p>

## RODB Singapore – OPMET Data Catalogue

### Legend

TTAAii	First group of the WMO Abbreviated Heading of the bulletin
CCCC	Second group of the WMO Abbreviated Heading of the bulletin – ICAO location indicator of the originator (bulletin compiling centre, aerodrome meteorological office or MWO)
Stations or FIR	List of the aerodromes included in the bulletin for the METAR and TAF bulletins or the FIR for the SIGMET bulletins (if known).

### ASIA/PACIFIC REGION

#### AUSTRALIA

TTAAii	CCCC	STATIONS or FIR
FTAU31	YBBN	YPAD,YBBN,YPDN,YMML,YPPH,YSSY
FTAU32	YBBN	YBAS,YMAV,YBCS,YSCB,YPKG,YPLM,YPTN,YBTL,YBCG, YBRM, YPXM, YPCC, YMHB, YMLT, YSNF, YPPD, YBRK, YWLM, YCFS, YLHI
FTAU33	YBBN	YSDU, YPEA, YSRI, YPWR,YPJT,YHID,YSTW, YGEL, YAMB
FTAU34	YBBN	YBHM,YBMA
FTAU35	YBBN	YFRT,YCIN, YPKU, YPGV
FTTM31	YBBN	WPDL
SAAU31	YBBN	YSSY,YMML,YBBN,YPAD,YPDN,YPPH
SAAU32	YBBN	YMAV,YBRK,YPKG,YPPD,YBRM,YSNF, YWLM,YMLT,YMHB, YBAS, YBCS, YPLM, YPTN, YBTL, YPXM, YPCC, YCFS, YLHI
SAAU33	YBBN	YSDU, YPWR, YPEA, YSRI, YPJT, YHID, YSTW, YGEL, YAMB
SAAU34	YBBN	YBHM, YBMA
SAAU35	YBBN	YCIN, YFRT, YPKU, YPGV
FKAU01	ADRM	N/A
FKAU02	ADRM	N/A
FKAU03	ADRM	N/A
FKAU04	ADRM	N/A
FKAU05	ADRM	N/A
FVAU01	ADRM	N/A
FVAU02	ADRM	N/A
WCAU01	ABRF	YBBB,YMMM
WCAU01	ADRM	YBBB, YMMM
WCAU01	APRF	YBBB, YMMM
WSAU21	ABCS	YBBB
WSAU21	ABRF	YBBB, YMMM
WSAU21	ADRM	YBBB, YMMM
WSAU21	AMHF	YMMM
WSAU21	AMMC	YBBB, YMMM
WSAU21	AMRF	YBBB, YMMM
WSAU21	APRF	YBBB, YMMM
WSAU21	APRM	YMMM
WSAU21	ASRF	YBBB, YMMM

WVAU01      ADRM      YBBB, YMMM

**BANGLADESH**

TTAAii      CCCC      STATIONS or FIR  
 FTBW31      VGHS      VGHS  
 FTBW31      VGEG      VGEG  
 WSBW20      VGHS      VGFR

**BRUNEI DARUSSALAM**

TTAAii      CCCC      STATIONS or FIR  
 FTBD31      WBSB      WBSB  
 SABD31      WBSB      WBSB

**CAMBODIA**

TTAAii      CCCC      STATIONS or FIR  
 FTAE32      VDPP      VDPP, VDSR  
 SAAE31      VDPP      VDPP  
 SAAE31      VDSR      VDSR

**CHINA**

TTAAii      CCCC      STATIONS or FIR  
 FTCI31      ZBBB      ZBAA,ZBSJ,ZBTJ,ZBYN,ZGGG,ZSHC,ZSPD,ZSSS,ZWSH,ZWWW,  
 ZYTL,ZYTX  
 FTCI32      ZBBB      ZGKL,ZGNN,ZGOW,ZGSZ,ZLXY,ZMUB,ZPPP,ZSAM,ZSFZ,ZSNB,  
 ZSQD,ZUUU, ZUGY  
 FTCI41      ZBBB      ZBHH,ZGHA,ZHCC,ZHHH,ZJHK,ZJSY,ZLLL,ZSNJ,ZSOF,ZUCK,  
 ZYCC,ZYHB  
 SACI31      ZBBB      ZBAA,ZBSJ,ZBTJ,ZBYN,ZGGG,ZSHC,ZSPD,ZSSS,ZWSH,ZWWW,  
 ZYTL,ZYTX  
 SACI32      ZBBB      ZGKL,ZGNN,ZGOW,ZGSZ,ZLXY,ZMUB,ZPPP,ZSAM,ZSFZ,ZSNB,ZSQD,  
 ZUUU, ZUGY  
 SACI41      ZBBB      ZBHH,ZGHA,ZHCC,ZHHH,ZJHK,ZJSY,ZLLL,ZSNJ,ZSOF,ZUCK,  
 ZYCC,ZYHB  
 WSCI33      ZBAA      ZBPE  
 WSCI34      ZSSS      ZSHA  
 WSCI35      ZGGG      ZGZU  
 WSCI35      ZJHK      ZJSA  
 WSCI36      ZUUU      ZPKM  
 WSCI37      ZLXY      ZLHW  
 WSCI38      ZYTX      ZYSH  
 WSCI39      ZWWW      ZWUQ  
 WSCI45      ZHHH      ZHWH

**FIJI**

TTAAii      CCCC      STATIONS or FIR  
 FKPS01      NFFN      N/A  
 FTSP31      NFFN      NFFN,NCRG,NFNA,NFTF,NGTA,NIUE,NLWW,NSFA,NSTU,  
 NTAA,NWWW,PLCH

SAPS31	NFFN	NFFN,NCRG,NFNA,NGFU,NGTA,NIUE,NSFA,NSTU,NTAA,NWWW PLCH
SAPS32	NFFN	NFTF,NFTL,NFTV,NLWW,NVSS,NVVV

WSFJ01	NFFN	NFFF
WSFJ02	NFFN	NFFF
WSFJ03	NFFN	NFFF

**FRENCH POLYNESIA**

TTAAii	CCCC	STATIONS or FIR
FTPF21	NTAA	NTAA
SAPF20	NTAA	NTAA
WSPF21	NTAA	NTTT
WCPF21	NTAA	NTTT
WVPF21	NTAA	NTTT

**HAWAII (U.S)**

TTAAii	CCCC	STATIONS or FIR
FTPA31	PHFO	NSTU, PHJH, PHJR, PHKO, PHLI, PHMK, PHNL, PHNY, PHOG, PHTO, PMDY
WCPA01	PHFO	KZAK
WSPA01	PHFO	KZAK
WVPA01	PHFO	KZAK

**HONG KONG**

TTAAii	CCCC	STATIONS or FIR
FTHK31	VHHH	VHHH,RCTP,RCKH,RCSS,VMMC,RPLL,RPVM,RPMD,RPLB,RPLI, RPMZ
SAHK31	VHHH	VHHH,RCTP,RCKH,RCSS,VMMC,RPLL,RPVM,RPMD,RPLB,RPLI, RPMZ
WSSS20	VHHH	VHHK
WCSS20	VHHH	VHHK
WVSS20	VHHH	VHHK

**INDIA**

TTAAii	CCCC	STATIONS or FIR
FTIN31	VABB	VAAH,VABB,VANP,VECC,VEPT,VIAR,VIBN,VIDP,VIJP,VILK
FTIN32	VABB	VCBI,VNKT,VOCI,VOCL,VOHS,VOHY,VOMM,VOTR,VOTV,VRMM
FTIN31	VIDP	VIDP,VILK,VIJP,VIAR,VIBN
FTIN90	VOBL	VOBL,VOML
FTIN90	VOTV	VOTV,VOCI,VOCL

SAIN31	VABB	VAAH,VABB,VANP,VOHS,VOMM,VOHY,VOTR,VOTV
SAIN32	VIDP	VIDP,VILK,VIAR,VIBN,VIJP
SAIN33	VECC	VECC,VEPT,VGEG,VGHS,VNKT, VQPR
WSIN90	VABB	VABF
WSIN90	VECC	VECF
WSIN31	VECC	VECF
WSIN31	VOMM	VOMF

WSIN90	VIDP	VIDF
WCIN31	VABB	VABF
WCIN31	VECC	VECF
WCIN31	VIDP	VIDF
WCIN31	VOMM	VOMF
FKIN20	VIDP	
FKIN21	VIDP	

**INDONESIA**

TTAAii	CCCC	STATIONS or FIR
FTAE32	WIMM	WIMM
FTID31	WIII	WIII
FTID31	WIHH	WIHH
FTID31	WADD	WADD
FTID31	WARR	WARR
FTID31	WAAA	WAAA,WAMH,WAMG,WAMI,WAMP,WAMW,WAWM,WAWT,WAWJ, WAWP,WAWW,WAWB,WAPC,WAPI
FTID31	WABB	WABB,WAJJ,WABP,WAKK,WABI,WABO,WAJW,WAJJ,WABT,WAKT
FTID32	WIPP	WIPP
SAID31	WIII	WADD,WAAA,WIMM,WIII,WIHH,WABB,WARR,WIDD
SAID32	WIII	WIPT,WADL,WIOO,WALL,WAMM,WIBB,WIDN,WIPP,WAOO
SAID33	WIII	WARQ,WABP,WAJJ,WAKK,WAPP,WARS,WATT,WALR
WSID20	WIII	WIIF

**JAPAN**

TTAAii	CCCC	STATIONS or FIR
FTJP31	RJTD	RJAA,RJBB,RJTT,RJOO,ROAH,RJCH,RJSS
FTJP32	RJTD	RJFF,RJGG,RJCC,RJFK,RJSN,RJFU,RJFT,RJOA,RJOB,RJOT, RJFO,RJNT,RJNK
SAJP31	RJTD	RJAA,RJBB,RJTT,RJOO,ROAH,RJGG
SAJP32	RJTD	RJFF,RJCC,RJFK,RJSN,RJFT,RJFU,RJCH,RJSS,RJOA,RJOB, RJOT,RJFO
WCJP31	RJTD	RJJJ
WSJP31	RJTD	RJJJ
WVJP31	RJTD	RJJJ
FKPQ30	RJTD	N/A
FKPQ31	RJTD	N/A
FVFE01	RJTD	N/A

**KOREA, REPUBLIC OF**

TTAAii	CCCC	STATIONS or FIR
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FTKO31	RKSI	RKSI,RKSS,RKPC,RKPK,RKTU,RKTN,RKJB,RKNY
SAKO31	RKSI	RKSI,RKSS,RKPC,RKPK,RKTU,RKTN,RKJB,RKNY
WCKO31	RKSI	RKRR
WSKO31	RKSI	RKRR
WVKO31	RKSI	RKRR

**MALAYSIA**

TTAAii	CCCC	STATIONS or FIR
FTMS31	WMKK	WMKJ,WMKK,WMKP,WMSA
FTMS32	WMKK	WBGG,WBKK
FTMS40	WMKK	WBGB,WBGR,WBGS,WBKL,WBKS,WBKW,WMKL,WMKM
FTMS41	WMKK	WMAP,WMBT,WMKA,WMKC,WMKE,WMKI,WMKN,WMPA
FTMS42	WMKK	WMKB
FTMS43	WMKK	WMKD
SAMS31	WMKK	WBGG,WBKK,WBSB,WMKK,WMKP,WSSS,WSSL (Half-hourly reports)
SAMS32	WMKK	WBGG,WBKK,WMKJ,WMKK,WMKP,WMSA (Hourly reports)
SAMS33	WMKK	WMAU,W MBA,WMKA,WMKB,WMKC,WMKD,WMKI,WMKL,WMKM, WMKN,WMKE (Hourly reports)
SAMS34	WMKK	WBGB,WBGR,WBGS,WBGY,WBKL,WBKS,WBKT,WBKW (Hourly reports)
SAMS38	WMKK	WBGB,WBGR,WBGS,WBKL,WBKS,WBKW,WMKD,WMKL,WMKM
WCMS31	WMKK	WBFC, WMFC
WSMS31	WMKK	WBFC, WMFC
WVMS31	WMKK	WBFC, WMFC

**MALDIVES**

TTAAii	CCCC	STATIONS or FIR
FTMV31	VRMM	VRMM,VRMG
WSMV31	VRMM	VRMF

**MARIANA Is. (U.S.)**

TTAAii	CCCC	STATIONS or FIR
FTPQ31	PGUM	PGUM, PGSN, PGRO, PTKK, PKMJ, PGWT, PTRO, PTYA, PTPN, PTSA, PKWA
SAGM31	PGUM	PGUM

**MONGOLIA**

TTAAii	CCCC	STATIONS or FIR
FTMO31	ZMUB	ZMUB
SAMO31	ZMUB	ZMUB
WSMO31	ZMUB	ZMUB

**NEW ZEALAND**

TTAAii	CCCC	STATIONS or FIR
FTNZ31	NZKL	NZAA, NZWN, NZCH
SANZ31	NZKL	NZAA, NZWN, NZCH
WCNZ21	NZKL	NZZC
WSNZ21	NZKL	NZZC
WVNZ21	NZKL	NZZC

**PAKISTAN**

TTAAii	CCCC	STATIONS or FIR
FTPK31	OPKC	OPKC,OPLA,OPNH,OPRN,OPPS,OPGD,OPSK
SAPK31	OPKC	OPKC,OPRN,OPLA,OPNH,OPGD,OPPS,OPSK

**PAPUA NEW GUINEA**

TTAAii	CCCC	STATIONS or FIR
FTNG31	YBBN	AYPY, ANYN, AGGH
SANG31	YBBN	AYPY,AYWK,AYVN,AYNZ,AYMH,AYGN,AYMO,AGGH

**PHILIPPINES**

TTAAii	CCCC	STATIONS or FIR
FTPH	RPLL	RPLL,RPLB,RPLC,RPLI,RPVM,RPMD,RPMZ,RPVD,RPV RPMR
SAPH	RPLC	RPLC
WCPH31	RPLL	RPHI

**RUSSIAN FEDERATION**

TTAAii	CCCC	STATIONS or FIR
FTAY31	RUMS	UDSG,UDYZ
FTKY31	RUMS	UCFM,UCFO
FTKZ31	RUMS	UAKK,UACC,UATT,UAAA
FTRA31	RUMS	UEEE
FTRA32	RUMS	UHMH,UHMM,UHPP,UHMA
FTRA33	RUMS	UIAA,UIBB,UIII,UIUU
FTRA34	RUMS	UNAA,UNBB,UNKL,UNNT,UNOO
FTRA35	RUMS	UHSS,UHWW,UHBB
FTRA36	RUMS	USCC,USNN,UWUU,UNEE
FTRA37	RUMS	USHH,USRR,USSS,USTR
FTRS31	RUMS	ULLI,UWGG
FTRS32	RUMS	URKK,URMM,URRR,URKA,URSS
FTRS33	RUMS	UDD,UEEE,UUWW,UUDL,UUBW
FTRS34	RUMS	USPP,UWKD,UWKE
FTRS35	RUMS	UWLW,UWOO,UWWW
FTUZ31	UTTW	UTTT,UTNN,UTSS,UTFN,UTST,UTNU,UTSB,UTSA
SAAY31	RUMS	UDSG,UDYZ
SAKY31	RUMS	UCFM,UCFO
SAKZ31	RUMS	UAAA,UAKK,UAOO,UARR,UATE,UAAU,UACC,UATG,UATT
SARA31	RUMS	UEEE
SARA32	RUMS	UHMH,UHMA,UHMM,UHPP,UHSS,UHWW,UHBB,UHMD
SARA33	RUMS	UIAA,UIBB,UIII,UIUU
SARA34	RUMS	UNAA,UNBB,UNEE,UNKL,UNNT,UNOO,USHH,USTR,UNTT
SARA35	RUMS	USCM
SARA36	RUMS	USCC,USRR,USSS,UWUU,USNN
SATA31	RUMS	UTDD,UTDL
WSRA31	RUPK	UHPP
WVRA31	RUHB	UHMH
WVRA31	RUIR	UIII

WVRA31	RUSH	UHSS
WVRA31	RUVV	UHWV
WVRA31	RUPK	UHPP
WVRA31	RUCH	UIAA
WVRA31	RUMG	UHMM
WVRA32	RUHB	UHNN
WVRA32	RUJK	UELL
WVRA33	RUHB	UHBB
WVRA31	RUHB	UHSH
WSRA31	RUHB	UHSH

**SINGAPORE**

TTAAii	CCCC	STATIONS or FIR
FTSR31	WSSS	WSSS,WSAP,WSSL,WAAA,WABB,WADD,WARR,WIHH,WIII,WIMM
FTSR32	WSSS	WMKJ,WMKK,WMKP,WMSA,WMKL,WMKM
FTSR33	WSSS	WBSB,WBGG,WBKK,WBGB,WBGR,WBGS,WBKL,WBKS,WBKW
SASR31	WSSL	WSSL
SASR31	WSSS	WSSS
WCSR20	WSSS	WSJC
WSSR20	WSSS	WSJC
WVSR20	WSSS	WSJC

**SRI LANKA**

TTAAii	CCCC	STATIONS or FIR
FTSB31	VCBI	VCBI
SASB31	VCCC	VCBI,VRMM,VCRI
WSSB31	VCBI	VCCC
FTSB31	VCRI	VCRI
SASB31	VCRI	VCRI

**THAILAND**

TTAAii	CCCC	STATIONS or FIR
FTAE31	VTBB	VTBS,VTBD,VTBU,VTCC,VTSS,VTSP,VTCT,VTSG,VTUU
FTAE32	VTBB	VDPP,VDSR,VYYY,VYMD,VGHS
FTAE33	VTBB	VLLB,VLLN,VLPS,VLSK,VLVT
FTAE34	VTBB	VVTS,VVNB,VVDN,VVPB,VVCR,VVCT,VVPQ
FTTH31	VTBB	VTCL,VTGN,VTCP,VTM,VTM,VTPT,VTPO,VTPB,VTCH,VTM
FTTH32	VTBB	VTM,VTSM,VTSC,VTM,VTST,VTM,VTM,VTM,VTM
FTTH33	VTBB	VTUD,VTUI,VTUK,VTUL,VTUO,VTUW,VTUQ,VTUV,VTUJ,VTBO
SAAE31	VTBB	VTBS,VTBD,VTCC,VTBU,VTSS,VTSP,VLVT,VYMD,VYYY,VDPP,VDSR
SAAE32	VTBB	VLLB,VLLN,VLPS,VLSK
SAAE33	VTBB	VVTS,VVNB,VVDN,VVPB,VVCR,VVCT,VVPQ
SATH31	VTBB	VTCT,VTGN,VTCP,VTCH,VTM,VTM,VTM,VTM
SATH32	VTBB	VTM,VTM,VTM,VTM,VTM,VTM,VTM,VTM
SATH33	VTBB	VTUD,VTUI,VTUK,VTUU,VTUL,VTUO,VTUW,VTUQ,VTUV,VTBO
SATH41	VTBB	VTM,VTM,VTM,VTM
WCTH31	VTBS	VTBB
WSTH31	VTBS	VTBB

WVTH31 VTBS VTBB

**VIET NAM, SOCIALIST REPUBLIC OF**

TTAAii CCCC STATIONS or FIR  
 WCVS31 VVGL VVNB,VVTS  
 WSVS31 VVGL VVNB,VVTS  
 WVVS31 VVGL VVNB,VVTS

**SOUTH PACIFIC ASIA**

TTAAii CCCC STATIONS or FIR  
 SAFJ31 NFFN NFFN  
 WCPS21 NZKL NZZO  
 WSPS21 NZKL NZZO  
 WVPS31 NZKL NZZO  
 FVPS01 NZKL N/A

**PACIFIC AREA**

TTAAii CCCC STATIONS or FIR  
 FTPA31 PHFO PHLI,PHNL,PHJR,PHMK,PHNY,PHJH,PHOG,PHTO,PHKO,PMDY,  
 NSTU  
 SAPA31 KWBC AGGG,AGGH,ANAU,AYPY,PGNT,PGRO,PGSN,PGUA,PGUM,PGWT,  
 PHJH,PHJR,PHMK,PJON,PKMJ,PKMR,PKWA,PLCH,PMDY,PTKK,  
 PTKR,PTPN,PTRO,PTSA,PTTP,PTYA,PWAK

**OTHERS REGION****EASTERN AND SOUTHERN AFRICAN REGION****MAURITIUS**

TTAAii CCCC STATIONS or FIR  
 FTMA31 FIMP FIMP,FIMR  
 SAMA20 FIMP FIMP

**SEYCHELLES**

TTAAii CCCC STATIONS or FIR  
 FTSC31 FSIA FSIA

**SOUTH AFRICA**

TTAAii CCCC STATIONS or FIR  
 FTZA31 FAPR FABL,FACT,FQBR,FQMA,FVHA,FAPE,FALE,FAOR,FLKK,FYWH  
 FTZA32 FAPR FALA, FAUP,FVBU,FYKT,FYWB,FYWH,FAGG,FWCL,FWKI  
 SAZA31 FAPR FABL,FACT,FAEL,FAGG,,FAKN,FALA,FAPE,FAPN,FAPP,FAUP,FAMM,  
 FALE,FALW,FAOR

**EUROPEAN AND NORTH ATLANTIC REGION****AZERBAIJAN**

TTAAii	CCCC	STATIONS or FIR
FTAJ31	UBBB	UBBB,UBBL
SAAJ31	UBBB	UBBB,UBBG,UBBN,UBBL,UBBY,UBBQ

**AUSTRIA**

TTAAii	CCCC	STATIONS or FIR
FTOS31	LOWM	LOWW
FTOS32	LOWM	LOWS,LOWI,LOWK,LOWL,LOWG
FTOS33	LOWM	LOAV,LOAN,LOIH

**BELGIUM, LUXEMBURG**

TTAAii	CCCC	STATIONS or FIR
FTBX31	EBBR	EBBR,ELLX,EBOS,EBLG
SABX31	EBBR	EBAW,EBBR,EBCI,EBLG,EBOS,ELLX

**CZECH REPUBLIC**

TTAAii	CCCC	STATIONS or FIR
FTCZ31	LKPW	LKPR,LKMT,LKTB,LKKV
SACZ31	LKPW	LKPR,LKMT,LKTB,LKKV

**DENMARK**

TTAAii	CCCC	STATIONS or FIR
FTDN31	EKCH	EKCH,EKBI,EKYT,EKAH
SADN31	EKCH	EKCH,EKBI,EKYT,EKRK,EKAH,EKEB,EKRN
SADN32	EKCH	EKVJ,EKSB,EKSN,EKVD,EKOD
SADN33	EKCH	EKKA,EKSP
SADN34	EKCH	EKGF,EKHR,EKHA,EKHD,EKTE,EKGC,EKAV,EKHN
FTDN33	EKCH	EKKA,EKSP

**FINLAND**

TTAAii	CCCC	STATIONS or FIR
FTFI31	EFHK	EFHK,EFTU,EFTP,EFKU,EFJY,EFVA,EFOU,EFRO
SAFI31	EFHK	EFHK,EFJY,EFKU,EFOU,EFRO,EFTP,EFTU,EFVA
SAFI32	EFHK	EFHA,EFHF,EFKA,EFKK,EFMA,EFPO,EFSI
SAFI33	EFHK	EFJO,EFLP,EFMI,EFUT,EFVR,EFSA
SAFI34	EFHK	EFET,EFIV,EFKE,EFKI,EFKS,EFKT

**FRANCE**

TTAAii	CCCC	STATIONS or FIR
FTFR31	LFPW	LFLL,LFMN,LFPG,LFPO
FTFR32	LFPW	LFRB,LFRS,LFQQ
FTFR33	LFPW	LFBD,LFBO,LFML,LFLX
FTFR34	LFPW	LFBH,LFBI,LFBL,LFBP,LFBT,FBZ,LFLB
FTFR35	LFPW	LFKB,LFKC,LFKF,LFKJ,LFLC,LFMP,LFMV
FTFR36	LFPW	LFCR,LFLS,LFLY,LFMT,LFMU,LFLP,LFTW
FTFR37	LFPW	LFJL,LFOB,LFOH,LFOK,LFOP,LFSN,LFPB
FTFR38	LFPW	LFRD,LFRN,LFRO,LFRZ,LFSB,LFST
FTFR39	LFPW	LFMI,LFMK,LFTH,LFMH,LFSD
SAFR31	LFPW	LFLL,LFMN,LFPG,LFPO,LFRB,LFQQ,LFRS
SAFR32	LFPW	LFBD,LFBH,LFBI,LFBL,LFBO,LFBP,LFBZ,LFLB,LFLX,LFML,LFBT,LFCK
SAFR33	LFPW	LFKB,LFKF,LFKJ,LFMP,LFSL,LFKC,LFLC,LFMV
SAFR34	LFPW	LFCR,LFJL,LFLP,LFLS,LFLY,LFMU,LFSN,LFOB,LFOH,LFOK,LFOP,LFPB, LFMT,LFQA,LFQB
SAFR35	LFPW	LFMI,LFMK,LFRD,LFRN,LFRO,LFRZ,LFSB,LFST,LFTH,LFOV,LFRI,LFRM,LFRV
SAFR36	LFPW	LFBA,LFBE,LFGJ,LFJR,LFMD,LFMH,LFPN,LFRC,LFRG,LFRK,LFOT
SAFR37	LFPW	LFAQ,LFLN,LFPM,LFRH,LFRQ,LFRT,LFSD,LFTW ,LFAT,LFPT,LFBU

**GERMANY**

TTAAii	CCCC	STATIONS or FIR
FTDL31	EDZO	EDDF,EDDH,EDDK,EDDM,EDDL
FTDL32	EDZO	EDDB,EDDC,EDDP,EDDT,EDDV,EDDW
FTDL33	EDZO	EDDE,EDDR,EDFH,,EDDG,EDDN,EDDS
FTDL34	EDZO	EDLP,EDLV,EDLW,EDNY,EDOP,EDRZ,EDSB
SADL31	EDZO	EDDF,EDDH,EDDK,EDDL,EDDM,EDDN,EDDS,EDDT,EDDV
SADL32	EDZO	EDDB,EDDC,EDDE,EDDG,EDDP,EDDR,EDDW
SADL33	EDZO	EDFE,EDFH,EDFM,EDLV,EDVK
SADL34	EDZO	EDGS,EDLN,EDLP,EDLW,EDMA,EDNY,EDQM,EDRZ,EDSB,EDHL, EDAC,EDBC
SADL35	EDZO	EDHI,EDMO,EDOP,EDTD,EDVE,EDAH,EDHK,EDJA,EDTL,EDTY,EDXW
SADL36	EDZO	ETNL,ETMN,ETSI

**GREECE**

TTAAii	CCCC	STATIONS or FIR
FTGR31	LGAT	LGAV,LGEL,LGTS,LGKR
FTGR32	LGAT	LGIR,LGSA,LGKO,LGRP
SAGR31	LGAT	LGAD,LGAV,LGIR,LGKL,LGKO,LGKR,LGLM,LGRP,LGSM,LGTS, LGSA
SAGR32	LGAT	LGAL,LGEL,LGKV,LGMT,LGPZ,LGRX,LGSK,LGSR,LGZA,LGIO
SAGR33	LGAT	LGHI,LGKC,LGKF,LGKP,LGKZ,LGMK,LGNX,LGPA,LGSO,LGBL
WSGR31	LGAT	LGGG

**IRELAND**

TTAAii	CCCC	STATIONS or FIR
FTIE31	EIDB	EINN,EIDW,EICK,EIKN
SAIE31	EIDB	EIDW,EINN,EICK,EIKN
SAIE32	EIDB	EICM,EIDL,EIKY,EIME,EISG,EIWF

**ITALY**

TTAAii	CCCC	STATIONS or FIR
FTIY31	LIIB	LIMC,LIME,LIMF,LIMJ,LIML,LIRF,LIRN,LIRP,LIRA,LIEE,LIEO,LIRQ
FTIY32	LIIB	LICC,LICJ,LIPE,LIPZ,LIBD,LIBP,LICA,LIEA,LIPK,LIPO,LIPQ,LIPY
SAIY31	LIIB	LIEA,LIEE,LIEO,LIMC,LIME,LIMF,LIMJ,LIML,LIRA,LIRF, LIRN,LIRP,LIRQ
SAIY32	LIIB	LIBD,LIBR,LICC,LICJ,LIPB,LIPE,LIPH,LIPK,LIPQ,LIPR, LIPX,LIPZ
SAIY33	LIIB	LIMA,LIMG,LIMP,LIMS,LIMW,LIMZ
SAIY34	LIIB	LIPC,LIPF,LIPO,LIPY
SAIY35	LIIB	LIQN,LIQW,LIRG,LIRH,LIRL,LIRM,LIRS,LIRU,LIRV
SAIY36	LIIB	LIBC,LIBF,LIBG,LIBP,LIRI,LIRJ,LIRZ
SAIY37	LIIB	LICA,LICD,LICG,LICR,LICT
WSIY31	LIIB	LIMM
WSIY32	LIIB	LIRR
WSIY33	LIIB	LIBB
WVIY32	LIIB	LIRR

**NETHERLANDS**

TTAAii	CCCC	STATIONS or FIR
FTNL31	EHDB	EHAM,EHBK,EHGG,EHRD
SANL31	EHDB	EHAM,EHBK,EHGG,EHRD
SANL32	EHDB	EHEH,EHKD
SANL33	EHDB	EHAK,EHDV,EHFD,EHFZ,EHJA,EHJR,EHKV,EHMA,EHMG,EHQE,EHSA, EHSC,EHPG
FTNL32	EHDB	EHEH
WSNL31	EHDB	EHAA

**NORWAY**

TTAAii	CCCC	STATIONS or FIR
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FTNO31	ENMI	ENBR,ENGM,ENVA,ENZV
FTNO32	ENMI	ENAN,ENBO,ENDU,ENOL
FTNO33	ENMI	ENNA,ENSB,ENTC
FTNO38	ENMI	ENGC,ENOA
SANO31	ENMI	ENAN,ENBR,ENBO,ENDU,ENGM,ENOL,ENVA,ENZV
SANO32	ENMI	ENAL,ENCN,ENHD,ENRO,ENRY,ENSB,ENTC,ENTO
SANO33	ENMI	ENAT,ENBL,ENEV,ENFL,ENKB,ENKR,ENML,ENNA
SANO34	ENMI	ENBN,ENBV,ENFG,ENHF,ENRA,ENSH
SANO35	ENMI	ENMS,ENRM,ENRS,ENSK,ENSO,ENST,ENVD
SANO36	ENMI	ENBS,ENHK,ENHV,ENLK,ENMH,ENNK,ENNM
SANO37	ENMI	ENNO,ENOV,ENSD,ENSG,ENSN,ENSR,ENSS
SANO38	ENMI	ENDR,ENEK,ENGC,ENHE,ENOA,ENSL,ENFB,ENSF
SANO39	ENMI	ENNE,ENQR,ENSE,ENQC,ENQA,ENHM,ENVH,ENLA
WSNO31	ENMI	ENOS
WSNO36	ENMI	ENOB

**POLAND**

TTAAii	CCCC	STATIONS or FIR
FTPL31	EPWA	EPGD,EPKK,EPPO,EPRZ,EPWA,EPLL
SAPL31	EPWA	EPWA,EPGD,EPKK,EPPO,EPRZ,EPLL
SAPL32	EPWA	EPKT,EPLB,EPSC,EPWR,EPBY,EPZG,EPMO

**PORTUGAL**

TTAAii	CCCC	STATIONS or FIR
FTPO31	LPMG	LPSS,LPPT
FTPO32	LPMG	LPLA,LPPD
FTPO33	LPMG	LPFR,LPMA,LPPR,LPBJ
FTPO34	LPMG	LPAZ
SAPO31	LPMG	LPFR,LPMA,LPPR,LPSS,LPPT,LPBJ
SAPO32	LPMG	LPAZ,LPLA,LPPD,LPHR,LPFL

**SPAIN**

TTAAii	CCCC	STATIONS or FIR
FTSP31	LEMM	LEBL,LEMD,LEMG,LEPA,LEVC
FTSP32	LEMM	LEAS,LECO,LEGR,LEXJ,LEPP
FTSP33	LEMM	LEAL,LEGE,LEST,LEZG,LEVX
FTSP34	LEMM	LEBB,LEJR,LELC,LESO,LEVT
FTSP35	LEMM	LETO,LEBZ,LEVD
FTSP36	LEMM	LEAM,LEIB,LEMH,LEMS,LEZL
FTSP37	LEMM	LEDA,LEHC,LELL
SASP31	LEMM	LEMD,LEBL,LEPA,LEZL,LEMG,LEVC,LEAL,LEIB,LEVX
SASP32	LEMM	LEAS,LEBB,LECO,LEGE,LEST,LEZG,LESO,LEVT,LEMS,LEMH, LEAM,LEGR
SASP33	LEMM	LEVD,LEVS,LESA
SASP34	LEMM	LEJR,LELL,LEPP,LEXJ,LEDA



FTUK31	EGGY	EGCC,EGKK,EGLL,EGSS
FTUK32	EGGY	EGGP,EGNT,EGNX,EGNM
FTUK33	EGGY	EGBB,EGFF,EGGD,EGGW
FTUK34	EGGY	EGVN,EGWU
FTUK35	EGGY	EGAA,EGPD,EGPF,EGPH,EGPK
SAUK31	EGGY	EGBB,EGCC,EGKK,EGLL,EGPF,EGPH,EGPK,EGSS
SAUK32	EGGY	EGAA,EGAC,EGFF,EGGW,EGLC,EGNM,EGNX,EGPD
SAUK33	EGGY	EGGD,EGGP,EGHI,EGNS,EGNT,EGNV,EGPB
SAUK34	EGGY	EGHE,EGHK,EGHQ,EGJA,EGJB,EGJJ,EGTE
SAUK35	EGGY	EGHH,EGKA,EGKB,EGLF,EGMC,EGMD,EGMH,EGTC
SAUK36	EGGY	EGBE,EGBJ,EGCN,EGSC,EGSH,EGVN,EGWU,EGSD
SAUK37	EGGY	EGAE,EGNC,EGNH,EGNJ,EGNR,EGPE,EGPI,EGPN,EGNO
SAUK38	EGGY	EGEC,EGPA,EGPC,EGPL,EGPM,EGPO,EGPU,EGEO
SAUK39	EGGY	EGUN
WSUK31	EGRR	EGTT
WSUK33	EGRR	EGPX

**YUGOSLAVIA (SERBIA AND MONTENEGRO)**

TTAAii	CCCC	STATIONS or FIR
FTYG31	LYBM	LYBE,LYBT,LYKV,LYNI,LYPG,LYPR,LYTV,LYUZ,LYVR
SAYG31	LYBM	LYBE,LYBT,LYKV,LYNI,LYPG,LYTV,LYUZ,LYVR,LYPR
WSYG31	LYBM	LYBA

**EASTERN EUROPE**

TTAAii	CCCC	STATIONS or FIR
FTKZ31	RUMS	UAAA,UACC,UATT,UAKK
SAEE31	LOWM	UACK,UACP,UAI,UAADD,UASK,UASP,UAOO,UAKD
SAKZ31	RUMS	UAAA,UACC,UAKK,UAOO,UARR,UATE,UATG,UATT,UAAU
WSTR31	RUMS	UTAA

**MIDDLE EAST REGION****BAHRAIN**

TTAAii	CCCC	STATIONS or FIR
FTBN31	OBBI	OBBI,OEDF,OEDR,OTBD,OKBK
FTBN32	OBBI	OMAA,OMAD,OMAL,OMDB,OMDW,OMFJ,OMRK,OMSJ,OOMS,OOSA
SABN31	OBBI	OBBI,OEDF,OEDR,OTBD,OKBK
SABN32	OBBI	OMAA,OMAD,OMAL,OMDB,OMDW,OMFJ,OMRK,OMSJ,OOMS,OOSA

**CYPRUS**

TTAAii	CCCC	STATIONS or FIR
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FTCY31	LCLK	LCLK,LCPH,LCNC
SACY31	LCLK	LCLK,LCPH,LCNC

**EGYPT**

TTAAii	CCCC	STATIONS or FIR
FTEG31	HECA	HEAX,HECA,HELX,HESN,HEBL,HEAT,HESG,HETB,HEMA
FTEG32	HECA	HEGN,HESH,HEAR,HESC,HEBA,HEMM,HEAL,HEPS
SAEG31	HECA	HECA
SAEG32	HECA	HEMM,HEAX,HEAL,HELX,HESN,HEAR,HEGN,HEPS,HETB,HESH,HEAT, HEBA,HEBL,HESC,HESG,HEMA
WSEG31	HECA	HECC

**IRAN, ISLAMIC REPUBLIC OF**

TTAAii	CCCC	STATIONS or FIR
FTIR31	OIII	OIII,OIFM,OISS,OIKB,OIAW,OIMM,OIZH,OITT,OIKK
FTIR32	OIII	OIIE,OITR,OIBK,OIAA
FTIR33	OIII	OIZC
SAIR31	OIII	OIAW,OIFM,OIII,OIKB,OIKK,OIMM,OISS,OITT,OIZH
SAIR32	OIII	OIAA,OIBK,OICC,OIGG,OIIE,OITR,OIYY,OAKB,OAKN
SAIR33	OIII	OIBB,OIBP,OICK,OICS,OIHH,OINZ,OITL,OIZC,OISR
SAIR34	OIII	OIAG,OIAM,OICI,OIKQ,OINN,OINR,OISL,OISY,OITZ
SAIR35	OIII	OIAD,OIBJ,OIBS,OIHR,OIKM,OIKR,OING,OIZB,OIZI
SAIR36	OIII	OIBA,OIBV,OIFS,OIIP,OIMB,OIMN,OIMS,OIMT,OIZJ
SAIR37	OIII	OIBQ,OIHK,OIMC,OIMD,OIMQ,OITK,OITM,OIBL,OINE
WSIR31	OIII	OIIX

**LEBANON**

TTAAii	CCCC	STATIONS or FIR
FTME31	OLBA	OJAI,OJAM,OJAQ,OLBA,ORMM,OASP,OSDI,OSLK
SAME31	OLBA	OJAI,OJAM,OJAQ,OLBA,OSAP,OSDI,OSLK

**SAUDI ARABIA**

TTAAii	CCCC	STATIONS or FIR
FTSD31	OEJD	OEDF,OEDR,OEJN,OEMA,OERK,OYSN,OYAA
FTSD32	OEJD	OETF
FTSD22	OEJD	OEJN,OEMA,OERK,OEDF,OEDR
FTSD40	OEJD	OEAB,OEBA,OE BH,OE GN,OE KM,OE NG,OE WD,OE SH,OE TF,OE YN, OE WJ,OE AH,OE GS,OE GT,OE HL,OE PA,OE RY,OE KK,OE RF,OE RR, OE KJ,OE DM,OE SK,OE TB,OE TR,OE JB
SASD31	OEJD	OEDF,OEDR,OEJN,OEMA,OERK,OYSN,OYAA
SASD32	OEJD	OETF
WSSD20	OEJD	OEJD

**SYRIAN ARAB REPUBLIC**

TTAAii	CCCC	STATIONS or FIR
SASY31	OSDI	OSDI,OSLK,OSKL

**NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN REGION****HAWAIIAN ISLANDS**

TTAAii	CCCC	STATIONS or FIR
SAPA31	KWBC	AGGG,AGGH,ANAU,AYPY,PGNT,PGRO,PGSN,PGUA,PGUM,PGWT, PHJH,PHJR,PHMK,PJON,PKMJ,PKMR,PKWA,PLCH,PMDY,PTKK, PTKR,PTPN,PTRO,PTSA,PTTP,PTYA,PKWA
SAHW31	KWBC	PBKH,PHJR,PHKO,PHLI,PHNL,PHOG,PHTO,PNGF

**UNITED STATES OF AMERICA**

TTAAii	CCCC	STATIONS or FIR
FTUS31	KWBC	KABQ,KBMG,KBNA,KEWR,KIND,KJAX,KJFK,KLGA,KMCO,KOAK,KSFO,KSTL, KSWF,KTEB,KTPA,KBGR,KCLE,KFLL,KMIA,KONT,KPBI,KPIT,KSAN,KSEA,KCLT, KDTW,KMSY,KORF,KPHF,KPHL,KBOS,KIAH,KMCI,KMTH,KOKC,KPHX,KRDU, KLIT,KMEM,KBHM,KCHS,KDEN,KDFW,KATL,KBWI,KIAD,KLAS,KCVG,KMSP, KORD,KLAX
SAUS31	KWBC	KABQ,KATL,KBGR,KBHM,KBNA,KBOS,KBWI,KCHS,KCLE,KCLT,KCVG,KDEN, KDFW,KDTW,KEWR,KFLL,KIAD,KIAH,KIND,KJAX,KJFK,KLAS,KLAX,KLGA, KLGK,KLIT,KLOU,KMCI,KMCO,KMEM,KMIA,KMSP,KMSY,KOAK,KOKC,KONT, KORD,KORF,KPBI,KPHF,KPHL,KPHX,KPIT,KRDU,KSAN,KSEA,KSFO,KSTL, KSWF,KTEB,KTPA
FTUS71 SAUS71	KWBC	Eastern US  KABE,KACK,KACY,KAGC,KAGS,KAKR,KALB,KAND,KAOO,KAPG,KART,KAVL, KAVP,KBAF,KBDL,KBDR,KBED,KBFD,KBGM,KBGR,KBKL,KBKW,KBOS,KBTV, KBUF,KBVY,KBWI,KCAE,KCAK,KCAR,KCEF,KCHO,KCHS,KCKB,KCLE,KCLT, KCMH,KCRW,KCVG,KDAN,KDAY,KDCA,KDUJ,KECG,KEKN,KELM,KERI,KEWB, KEWN,KEWR,KFAY,KFLO,KFRG,KFVE,KGFL,KGON,KGSO,KGSP,KHFD,KHKY, KHPN,KHTS,KHVN,KHYA,KIAD,KIAG,KILG,KILM,KINT,KIPT,KISP,KJFK,KJST, KLBE,KLCK,KLEB,KLGA,KLUK,KLWM,KLYH,KMDT,KMFD,KMGW,KMHT,KMIV, KMMU,KMRB,KMSS,KMTN,KMYR,KNKT,KOQU,KORF,KORH,KPHF,KPHL,KPIT, KPKB,KPOU,KPQI,KPSM,KPVD,KPWM,KRDG,KRDU,KRIC,KROA,KROC, KRWI,KSAV,KSBY,KSCH,KSLK,KSWF,KSYP,KTEB,KTOL,KTTN,KWRI,KYNG,KZZV

FTUS72 SAUS72	KWBC	Southern US	KABI,KABQ,KABY,KAET,KAEX,KAFW,KAHN,KALI,KAMA,KANB,KAPF,KATL,KAUS,KBFM,KBHM,KBNA,KBPT,KBQK,KBRO,KBTR,KCEW,KCHA,KCLL,KCNM,KCRP,KCSG,KCSV,KDAB,KDAL,KDFW,KDHN,KDLF,KDMN,KELP,KESF,KEYW,KFLL,KFSM,KFTW,KFTY,KGGG,KGLS,KGNV,KGPT,KGUP,KGWO,KHOT,KHOU,KHRL,KHRO,KHSV,KIAH,KINK,KJAN,KJAX,KJBR,KLBB,KLCH,KLFT,KLIT,KLRD,KLRU,KMAF,KMCN,KMCO,KMEI,KMEM,KMFE,KMGM,KMIA,KMKL,KMLB,KMLC,KMLU,KMOB,KMSL,KMSY,KNEW,KNGP,KOKC, KPBI, KPDK, KPIE, KPNS, KROW, KRSW, KSAT, KSFB, KSHV, KSJT, KSRQ, KSSI, KTCC, KTCL, KTCS, KTLH, KTPA, KTRI, KTUL, KTUP, KTXK, KTYR, KTYS, KVCT, KVL D, KVRB, TIST, TISX, TJBQ, TJMZ, TJPS, TJSJ, TKPK, TNCM
FTUS73 SAUS73	KWBC	Central US	KABR,KALN,KALO,KAPN,KASE,KATY,KAXN,KAZO,KBDE,KBFF,KBIS,KBJC,KBKF,KBRL,KBTL,KCGI,KCID,KCIU,KCMI,KCMX,KCOS,KCOU,KCPR,KCYS,KDDC,KDEC,KDEN,KDET,KDLH,KDSM,KDTW,KEAU,KEGE,KELO,KEVV,KFAR,KFNT,KFSD,KFWA,KGCK,KGFK,KGJT,KGRB,KGRI,KGRR,KGY Y,KHIB,KHON,KHUF,KHUT,KICT,KIKK,KIND,KINL,KIRK,KJAC,KJLN,KJMS,KJXN,KLAN,KLAR,KLBF,KLBL,KLEX,KLNK,KLOU,KLOZ,KLSE,KMBS,KMCI,KMDW,KMHK,KMKC,KMKE,KMKG,KMLI,KMOT,KMSN,KMSP,KOFF,KOMA,KORD,KOSH,KOTM,KOWB,KPAH,KPIA,KPIR,KPLN,KPTK,KPUB,KRAP,KRFD,KRKS,KRST,KSAW,KSBN,KSDF,KSDM,KSGF,KSLN,KSPI,KSTC,KSTJ,KSTL,KSTP,KSUS,KSUX,KTVC,KUIN,KWRL,KYIP
FTUS74 SAUS74	KWBC	Western US	KACV,KALW,KBFI,KBFL,KBIL,KBKE,KB LI,KBOI,KBTM,KBUR,KBYI,KBZN,KCDC,KCEC,KCLM,KCTB,KEKO,KEUG,KFAT,KFLG,KGCN,KGEG,KGGW,KGTF,KHLN,KHQM,KIDA,KIWA,KLAS,KLAX,KLGB,KLMT,KLVM,KMFR,KMLS,KMRY,KMSO,KMYV,KNTD,KOAK,KOGD,KOLM,KONT,KOTH,KPAE,KPDX,KPHX,KPIH,KPMD,KPRB,KPRC,KPSP,KRBL,KRDD,KRDM,KRNO,KRNT,KSAC,KSAN,KSBA,KSBD,KSBP,KSCK,KSEA,KSFF,KSFO,KSHR,KSJC,KSLC,KSMF,KSMX,KSNA,KSNS,KTIW,KTUS,KTVL,KTWF,KUKI,KYKM
FTUS75 SAUS75	KWBC	Pacific US/Alaska	PABR,PABT,PACV,PADL,PADU,PAEN,PAGA,PAGK,PAGY,PAIL,PAKN,PAKT,PASC,PASI,PATA,PAUN,PAVD,PHJH,PHMK,PMDY,PGUA,PGUM,PAEI,PAPG,PASN,PHLI,PANC,PABI,PABE,PAMC,PAOM,PAOR,PAOT,PAPG,PATK,PAYA,PAGS,PAHO,PAJN,PHNY,PHOG,PHTO,PAFB,PADK,PATC,PGRO,PHNL,PWAK,PABA,PACZ,PADK,PAEH,PAEI,PAFA,PAGS,PALU,PANT

**APPENDIX E**  
**REGIONAL OPMET DATA BANK – TOKYO**  
**(RODB Tokyo)**

**1. General Information**

1.1 **AFTN Address:** RJTDZYX

1.2 **MET data types held:**

SA	METAR
SP	SPECI
FC/FT	TAF (validity = 9 hr/ 12 to 30 hr)
WS	SIGMET
WC	Tropical Cyclone SIGMET
WV	Volcanic Ash SIGMET
FV	Volcanic Ash Advisory
FK	Tropical Cyclone Advisory
UA	AIREP

Note:

- a) A request message for METAR will be replied with the latest METAR and/or SPECI reports for the requested station.
- b) A request message for SIGMET (WS, WC or WV) will be replied with all valid SIGMETs (WS, WC and WV) for the CCCC or AAii specified.
- c) In a request message for FK or FV bulletins, a dummy station indicator, e.g. XXXX, can be used for CCCC.

1.3 **Restriction:**

The restrictions on a request message are given in paragraph 3.2.3

1.4 **Response:**

- a) The format of a reply message is shown in paragraph 3.3 with some examples.
- b) An error message will be replied when a request message does not meet conditions described in paragraph 3.2.3.

**2. Contact Information**

For any assistance in accessing the data bank, please contact the following officer:

Mr. Takatoshi MATSUMOTO  
 Senior Scientific Officer  
 Information and Telecommunication Division, Forecast Department  
 Japan Meteorological Agency  
 1-3-4 Otemachi, Chiyoda-ku  
 Tokyo 100-8122  
 Tel: + 81 (3) 3218 3825  
 Fax: +81 (3) 3211 8404  
 e-mail: tmatsumoto@met.kishou.go.jp

**3. Practical Procedures:**

3.1 Aviation weather reports available upon request

3.1.1. Reports

A requestor can retrieve the latest reports during the past 2, 8 and 14 hours for the reports SA/SP, WS/WC/WV and FC/FT, respectively.

## 3.1.2. Bulletins

Requestor can retrieve the latest bulletins that are currently distributed or exchanged through AFTN at RODB Tokyo during the past 24 hours (see data bank catalogue).

## 3.2 Request message

## 3.2.1 Format of request messages for reports

A request line format for reports is as follows. These are classified into two types as Type I and Type II. They are different in respect of a limit to the number of data types and locations that can be requested (see paragraph 3.2.2).

Type I:

RQM/TTCCCC=

RQM/TTCCCC<sub>1</sub>,CCCC<sub>2</sub>,CCCC<sub>3</sub>,...,CCCC<sub>n</sub>=

RQM/TT<sub>1</sub>CCCC<sub>1</sub>/TT<sub>2</sub>CCCC<sub>2</sub>/.../TT<sub>n</sub>CCCC<sub>n</sub>=

Type II:

RQM/TT<sub>1</sub>CCCC,TT<sub>2</sub>,...,TT<sub>n</sub>=

Note: The identifier TT indicates a data type as being shown in paragraph 1.1. The CCCC is a location indicator.

## 3.2.2 A request line format for bulletins is as follows;

RQM/TTAAii=

RQM/TTAAii CCCC=

RQM/TTAAii CCCC YYGGgg (BBB)=

Note: The YYGGgg is an international date-time group. The indicator BBB has one of the following forms as defined below:

RRx - for delayed routine meteorological reports;

CCx - for corrections to previously relayed reports;

AAx - for amendments to processed information;

Pxx - for segmenting a large set of information into several bulletins;

## 3.2.3 Restrictions for the request message

- a) The designator "RQM" and "=" shall be included at the beginning and the end of each individual request line, respectively.
- b) A request line shall be composed of one line.
- c) Length of a request line shall not exceed 69 characters including the designator "RQM" and "=".
- d) Up to ten requests lines can be included in one request message.
- e) In case of Type I described above (see paragraph 3.2.1), up to three data types and ten locations can be included in single request message.
- f) In case of Type II described above (see paragraph 3.2.1), up to six data types and two locations can be included in single request message.
- g) Only one bulletin can be requested by single request line.
- h) Up to six bulletins can be requested by single request message.

## 3.2.4 Examples of the data request line (see paragraph 3.2.3 on restrictions of Type I and II)

- a) A request for one data type and one location (e.g. the latest METAR at RJAA)  
RQM/SARJAA= ... (Type I)
- b) A request for one data type and plural locations (e.g. the latest METARs at RJAA, RJTT, and RJOO)  
RQM/SARJAA,RJTT,RJOO= ... (Type I)  
or  
RQM/SARJAA/SARJTT/SARJOO= ... (Type I)  
or  
RQM/SARJAA= ... (Type I)  
RQM/SARJTT=  
RQM/SARJOO=
- c) A request for plural data types and one location (e.g. the latest METAR, SPECI and TAF at RJAA)  
RQM/SARJAA/SPRJAA/FTRJAA= ... (Type I)  
or  
RQM/SARJAA= ... (Type I)  
RQM/SPRJAA=  
RQM/FTRJAA=  
or  
RQM/SARJAA,SP,FT= ... (Type II)
- d) A request for plural data types and plural locations (e.g. the latest METARs and TAFs at RJAA and RJTT)  
RQM/SARJAA,RJTT/FTRJAA,RJTT= ... (Type I)  
or  
RQM/SARJAA,RJTT= ... (Type I)  
RQM/FTRJAA,RJTT=  
or  
RQM/SARJAA,FT= ... (Type II)  
RQM/SARJTT,FT=
- e) A request for bulletins (e.g. the latest bulletins “SAJP31” and “SAJP32”)  
RQM/SAJP31=  
RQM/SAJP32=
- f) A request for bulletins with CCCC (e.g. the latest bulletin “SAJP37 RJTD”)  
RQM/SAJP37 RJTD=  
Note: The CCCC is a location indicator.
- g) A request for bulletins with YYGGgg (e.g. the above bulletin at 02:00 UTC on 19th)  
RQM/SAJP37 RJTD 190200=  
Note: The YYGGgg is an international date-time group.
- h) A request for mix both of bulletins and reports (e.g. the latest METAR at RJAA and bulletin “SAJP37 RJTD”)  
RQM/SARJAA=  
RQM/SAJP37=

## 3.3 Reply message

## 3.3.1 Format of reply messages

## a) Reply for a report request

The format is the same as the bulletin provided in accordance with *the WMO publication No.306, Manual on Codes*. A reply message has a WMO abbreviated heading line at the beginning of its message. Each individual meteorological report in a reply message is the same form as originated reports.

```
TTXX99 RJTD Y1Y1G1G1g1g1
MMMM C1C1C1C1 ...=
MMMM C2C2C2C2 ...=
```

Note: "MMMM" is a code name (e.g. METAR, TAF, etc).

## b) Reply for a bulletin request

The WMO abbreviated heading line for a requested bulletin is followed by its text as follows.

```
TTAAii CCCC YYGGgg
(Text of the requested bulletin)
```

## 3.3.2 Example of reply messages

## a) Reply to a request for the latest TAF at RJAA, RJBB and RJOO

```
FTXX99 RJTD 120200
TAF RJAA 120228Z 1203/1306 35008KT 9999 SCT020 BKN050=
TAF RJBB 120240Z 1203/1306 28012KT 9999 FEW025 SCT045=
TAF RJOO 120241Z 1203/1306 27006KT 9999 FEW025 SCT040=
```

## b) Reply to a request for the latest METAR at RJBB, RJGG and RJOO

```
SAXX99 RJTD 130000
METAR RJBB 130000Z 32007KT 9999 FEW025 05/M02 Q1022 NOSIG=
METAR RJGG 130000Z 30008KT 9999 FEW030 05/M02 Q1021=
METAR RJOO 130000Z VRB01KT 9999 FEW025 05/M01 Q1022=
```

## c) Reply to a request for the latest bulletin with WMO abbreviated heading FVFE01

```
FVFE01 RJTD 180030
VA ADVISORY

DTG: 20090318/0030Z
VAAC: TOKYO
VOLCANO: KORYAKSKY 1000-09
PSN: N5319E15841
AREA: RUSSIA
SUMMIT ELEV: 3456M
ADVISORY NR: 2009/15
INFO SOURCE: MTSAT-1R KVERT
AVIATION COLOUR CODE: NIL
ERUPTION DETAILS: POSSIBLE ERUPTION OBS AT 20090317/2159Z FL120 EXTD
NE ON SATELLITE IMAGERY.
OBS VA DTG: 17/2332Z
OBS VA CLD: UNKNOWN/FL120 N5328E15838-N5409E16048-N5345E16052-N5319E1
5845 MOV NE
FCST VA CLD +6HR: 18/0532Z SFC/FL200 N5428E16130-N5430E16230-N5329E16
229-N5300E16101-N5300E16000-N5358E15959 FL200/550 NO VA EXP
FCST VA CLD +12HR: 18/1132Z SFC/FL200 N5345E15928-N5428E16229-N5430E1
6330-N5328E16327-N5259E16200-N5300E15930 FL200/550 NO VA EXP
FCST VA CLD +18HR: 18/1732Z SFC/FL200 N5359E15829-N5430E16228-N5430E1
```

6330-N5338E16327-N5259E16130-N5300E15830 FL200/550 NO VA EXP  
 RMK: NIL  
 NXT ADVISORY: 20090318/0600Z=

### 3.3.3 Error messages

The WMO abbreviated heading line for a Error messages is followed by its text as follows.

ZZXX99 RJTD YYGGgg  
 text of the Error messages

Error messages will be issued in the following cases.

- a) No report or no bulletin to reply is found in the data bank.

FOLLOWING DATA WERE NOT RECEIVED  
 DURING PAST yy HOURS AT RJTDZYX DATA BANK  
 (Concerned location indicators or WMO abbreviated heading of bulletins)

Example 1: No latest METARs from RJSN, RJOA and RJOB are received at the data bank..

FOLLOWING DATA WERE NOT RECEIVED  
 DURING PAST 2 HOURS AT RJTDZYX DATA BANK  
 SARJSN,RJOA,RJOB=

Example 2: No latest bulletin "SAJP37" is received at the data bank.

FOLLOWING DATA WERE NOT RECEIVED  
 DURING PAST 24 HOURS AT RJTDZYX DATA BANK  
 SAJP37=

- b) Requested data type is not available.

FOLLOWING DATA ARE NOT SERVICED BY RJTDZYX DATA BANK  
 (Data types regarded as error)

Example: Wrong data type such as "SM" is used for request.

FOLLOWING DATA ARE NOT SERVICED BY RJTDZYX DATA BANK  
 RQM/SM=

- c) Some format errors are found in a request message.

REF YR REQUEST YYGGgg LLLLOOOO : FORMAT ERROR  
 (Request data line regarded as error)

Example: "RQ" instead of "RQM" is used in a request message from ABCDYMYX at 02:23 UTC 19th.

REF YR REQUEST 190223 ABCDYMYX : FORMAT ERROR  
 RQ/SARJAA=

- d) The number of data types and/or locations in a request message exceeds the limit.

REF YR REQUEST YYGGgg LLLLOOOO : REQUEST OVERFLOW  
 (Requested data types or locations which exceed the limitation)

Example: Latest 12 METARs and 3 TAFs are requested by a message from ABCDYMYX at 02:23 UTC 19th.

REF YR REQUEST 190223 ABCDYMYX : REQUEST OVERFLOW  
 RQM/SARJOA,RJOB=  
 RQM/FTRJAA,RJTT,RJOO=

## 3.4 Examples of request and reply messages

## 3.4.1 Example 1: A request is received from ABCDYMYX at 02:24 UTC 12th.

- a) The request message asks for the latest TAFs and METARs of RJAA, RJBB and RJOO as follows.

```
ZCZC
GG RJTDYZYX
120324 ABCDYMYX
RQM/FTRJAA,RJBB,RJOO=
RQM/SARJAA,RJBB,RJOO=
NNNN
```

- b) The reply messages are issued as two bulletins for TAF and METAR as follows.

```
ZCZC
GG ABCDYMYX
120325 RJTDYZYX
FTXX99 RJTD 120200
TAF RJAA 120228Z 1203/1306 35008KT 9999 SCT020 BKN050=
TAF RJBB 120240Z 1203/1306 28012KT 9999 FEW025 SCT045=
TAF RJOO 120241Z 1203/1306 27006KT 9999 FEW025 SCT040=
NNNN
```

```
ZCZC
GG ABCDYMYX
120325 RJTDYZYX
SAXX99 RJTD 120300
METAR RJAA 120300Z 02009KT 9999 BKN040 08/M03 Q1018 NOSIG=
METAR RJBB 120300Z 04012KT 9999 SCT025 10/M02 Q1018 NOSIG =
METAR RJOO 120300Z 02009KT 9999 BKN035 09/M01 Q1022=
NNNN
```

## 3.4.2 Example 2: A request is received from ABCDYMYX at 08:23 UTC 19th.

- a) The request message asks for the latest 12 METARs (exceeding the upper limit) and 3 TAFs as follows.

```
ZCZC
GG RJTDYZYX
190823 ABCDYMYX
RQM/SARJAA,RJTT,RJOO,ROAH,RJFF,RJGG=
RQM/SARJCC,RJFK,RJSN,RJFT,RJOA,RJOB=
RQM/FTRJAA,RJTT,RJOO=
NNNN
```

- b) The reply messages are issued as two bulletins for 10 METARs and an error message for remains.

```
ZCZC
GG ABCDYMYX
190825 RJTDYZYX
SAXX99 RJTD 190800
METAR RJAA 190800Z 02009KT 9999 BKN40 08/M03 Q1018 NOSIG=
METAR RJTT 190800Z 04012KT 9999 SCT025 10/M02 Q1018=
METAR RJOO 190800Z 02009KT 9999 SCT035 09/M01 Q1022=
METAR ROAH 190800Z 03013KT 9999 SCT020 7AC080 17/11 Q1021=
METAR RJFF 190800Z 04007KT 9999 SCT025 09/04 Q1024=
METAR RJGG 190800Z 32010KT 9999 SCT030 11/M06 Q1019=
METAR RJCC 190800Z 01016KT 9999 SCT025 M00/M06 Q1019=
METAR RJFK 190800Z 04009KT 9999 SCT040 11/M05 Q1022=
METAR RJSN 190800Z 15008KT 9999 SCT035 09/M01 Q1022=
METAR RJFT 190800Z VRB03KT 9999 SCT020 10/M02 Q1023=
```

```
NNNN
```

ZCZC  
 GG ABCDYMYX  
 190825 RJTDYZYX  
 ZZXX99 RJTD 190825  
 REF YR REQUEST 190823 ABCDYMYX : REQUEST OVERFLOW  
 RQM/SARJOA,RJOB=  
 RQM/FTRJAA,RJTT,RJOO=  
 NNNN

## RODB Tokyo-OPMET Data Catalogue:

### Bulletin

Bulletins available from the RODB-Tokyo are listed below.

## ASIA/PACIFIC REGION

### AUSTRALIA

TTAAii	CCCC	STATIONS or FIR
FTAU31	YBBN	YPAD, YBBN, YPDN, YMML, YPPH, YSSY
FTAU32	YBBN	YBAS, YBCG, YBCS, YBTL, YMAV, YPKG, YPLM, YPTN, YSCB, YPCC, YMHB, YMLT, YSNF, YPPD, YBRK, YWLM, YCFS, YLHI
FTAU33	YBBN	YHID, YPEA, YPJT, YPWR, YSDU, YSRI, YSTW, YGEL, YAMB
FTAU34	YBBN	YBHM, YBMA
FTAU35	YBBN	YCIN, YFRT, YPKU, YPGV
FTNG31	YBBN	AGGH, ANYN, AYPY
FTTM31	YBBN	WPDL
SAAU31	AMMC	YBAS, YBBN, YBCS, YBTL, YMML, YPAD, YPCC, YPDN, YPKU, YPLM, YPPH, YPTN, YPXM, YSSY
SAAU31	YBBN	YBBN, YMML, YPAD, YPDN, YPPH, YSSY
SAAU32	AMMC	YAMB, YBHM, YBMA, YBRK, YBRM, YCIN, YFRT, YMAV, YMHB, YMLT, YPEA, YPGV, YPKG, YPPD, YSDU, YSNF, YSRI, YWLM, YBRK, YBRM,
SAAU32	YBBN	YMAV, YMHB, YMLT, YPKG, YPPD, YSNF, YWLM, YBAS, YBCS, YPLM, YPTN, YBTL, YPXM, YPCC, YCFS, YLHI, YSCB, YBCG
SAAU33	YBBN	YSDU, YPWR, YPEA, YSRI, YPJT, YHID, YSTW, YGEL, YAMB
SAAU34	YBBN	YBHM, YBMA
SAAU35	YBBN	YCIN, YFRT, YPKU, YPGV
SANG31	YBBN	AGGH, AYM, AYMO, AYNZ, AYPY, AYVN, AYWK
FKAU01	ADRM	
FKAU02	ADRM	
FKAU03	ADRM	
FKAU04	ADRM	
FKAU05	ADRM	
FVAU01	ADRM	
FVAU02	ADRM	
WCAU01	ADRM	YBBB
WCAU01	APRF	YBBB
WSAU21	ABRF	YBBB
WSAU21	ABTL	YBBB
WSAU21	ADRM	YBBB, YMMM

WSAU21	AMHF	YMMM
WSAU21	AMMC	YBBB, YMMM
WSAU21	AMRF	YBBB
WSAU21	APRF	YBBB, YMMM
WSAU21	APRM	YMMM
WSAU21	ASRF	YBBB, YMMM
WVAU01	ADRM	YBBB, YMMM

**BANGLADESH**

TTAAii	CCCC	STATIONS or FIR
WSBW20	VGZR	VGFR

**BRUNEI DARUSSALAM**

TTAAii	CCCC	STATIONS or FIR
SABD31	WBSB	WBSB

**CAMBODIA**

TTAAii	CCCC	STATIONS or FIR
SAAE31	VDSR	VDSR

**CHINA**

TTAAii	CCCC	STATIONS or FIR
FTCI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWSH, ZWWW, ZYTL, ZYTX
FTCI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM, ZSFZ, ZSQD, ZUUU, ZSNB
FTCI41	ZBBB	ZBHH, ZGHA, ZHCC, ZHHH, ZJHK, ZJSY, ZLLL, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB
SACI31	ZBBB	ZBAA, ZBSJ, ZBTJ, ZBYN, ZGGG, ZSHC, ZSPD, ZSSS, ZWSH, ZWWW, ZYTL, ZYTX
SACI32	ZBBB	ZGKL, ZGNN, ZGOW, ZGSZ, ZLXY, ZMUB, ZPPP, ZSAM, ZSFZ, ZSQD, ZUUU, ZSNB
SACI41	ZBBB	ZBHH, ZGHA, ZHCC, ZHHH, ZJHK, ZJSY, ZLLL, ZSNJ, ZSOF, ZUCK, ZYCC, ZYHB
SACI44	ZSJN	ZSJN
WCCI31	RCTP	RCAA
WCCI33	ZBAA	ZBPE
WCCI34	ZSSS	ZSHA
WCCI35	ZGGG	ZGZU
WCCI35	ZJHK	ZJSA
WSCI31	RCTP	RCAA
WSCI33	ZBAA	ZBPE
WSCI34	ZSSS	ZSHA
WSCI35	ZGGG	ZGZU
WSCI35	ZJHK	ZJSA
WSCI36	ZPPP	ZPKM
WSCI37	ZLLL	ZLHW
WSCI37	ZLXY	ZLHW
WSCI38	ZLXY	ZYSH
WSCI39	ZWWW	ZWUQ

WSCI45	ZHHH	ZHWH
WVCI31	RCTP	RCAA
WVCI33	ZBAA	ZBPE
WVCI34	ZSSS	ZSHA
WVCI35	ZGGG	ZGZU
WVCI35	ZJHK	ZJSA
WVCI36	ZPPP	ZPKM
WVCI37	ZLLL	ZLHW
WVCI37	ZLXY	ZLHW
WVCI38	ZYTX	ZYSH
WVCI39	ZWWW	ZWUQ
WVCI45	ZHHH	ZHWH

**DEM. PEOPLE'S REP. OF KOREA**

TTAAii	CCCC	STATIONS or FIR
FTKR31	ZKPY	ZKPY
WSKR31	ZKPY	ZKKP

**FIJI**

TTAAii	CCCC	STATIONS or FIR
FTKB31	NFFN	NGTA
FTPS31	NFFN	NCRG, NFFN, NFNA, NFTF, NFTV, NGTA, NIUE, NLWW, NSFA, NTAA, NVSS, NVVV, PLCH
SAFJ31	NFFN	NFFN, NFNA
SAPS31	NFFN	NCRG, NFFN, NGFU, NIUE, NSFA, NSTU, NTAA, PLCH
SAPS32	NFFN	NFTF, NLWW, NSFA
FKPS01	NFFN	
WCFJ01	NNNF	NFFF
WVFJ01	NFFN	NFFF
WSFJ01	NFFN	NFFF

**FRENCH POLYNESIA**

TTAAii	CCCC	STATIONS or FIR
FTPF21	NTAA	NTAA
WSPF21	NTAA	NTTT
WVPF20	NTAA	NTTF

**HAWAII (U.S.)**

TTAAii	CCCC	STATIONS or FIR
FTPA31	PHFO	NSTU, PHJH, PHJR, PHKO, PHLI, PHMK, PHNL, PHNY, PHOG, PHTO, PMDY
SAHW31	PHNL	PHJR, PHNL PHTO
WCPA01	PHFO	KZOA
WSPA01	PHFO	KZOA
WVPA01	PHFO	KZOA

**HONG KONG (CHINA.)**

TTAAii	CCCC	STATIONS or FIR
FTHK31	VHHH	RCKH, RCSS, RCTP, RPLB, RPLI, RPLL, RPMD, RPMZ, RPVM, VHHH, VMMC
SAHK31	VHHH	RCKH, RCSS, RCTP, RPLB, RPLI, RPLL, RPMZ, RPVM, VHHH, VMMC, RPMD
WCSS20	VHHH	VHHK
WSSS20	VHHH	VHHK
WVSS01	VHHH	VHHK

**INDIA**

TTAAii	CCCC	STATIONS or FIR
FCIN31	VABB	VAAH, VABB, VECC, VIDP, VOCl
FTIN31	VABB	VAAH, VABB, VANP, VECC, VEPT, VIAR, VIBN, VIDP, VIJP, VILK
FTIN31	VIDP	VIAR, VIBN, VIDP, VIJP, VILK
FTIN32	VABB	VCBI, VNKT, VOCl, VOCL, VOHS, VOMM, VOTR, VOTV, VRMM
FTIN90	VAAH	VAAH, VABO, VARK
FTIN90	VIDP	VAUD, VIAR, VIBN, VIDP, VIJP, VILK
FKIN20	VIDP	
FKIN21	VIDP	
SAIN31	VABB	VAAH, VABB, VANP, VOHS, VOMM, VOTR, VOTV, VOHY
SAIN32	VIDP	VIAR, VIBN, VIDP, VIJP, VILK
SAIN33	VECC	VECC, VEPT, VEGEG, VGZR, VNKT
SAIN90	VECC	VECC
SAIN90	VIDP	VIDP
WCIN31	VECC	VECF
WCIN31	VOMM	VOMF
WCIN31	VIDF	VIDF
WCIN31	VABB	VABF
WSIN31	VOMM	VOMF
WSIN90	VABB	VABF
WVIN31	VOMM	VOMF

**INDONESIA**

TTAAii	CCCC	STATIONS or FIR
FCID31	WAAA	WAAA, WAMG, WAMH, WAMI, WAMN, WAMT, WAMW, WAPD, WAPH, WAPI, WAPL
FTID31	WAAA	WAAA
FTID31	WIII	WIII
SAID31	WIII	WAAA, WABB, WADD, WARR, WIDD, WIHH, WIII, WIMM
SAID32	WIII	WADA, WALL, WAMM, WAOO, WIBB, WIOO, WIPP, WIPT
SAID33	WIII	WAPP, WARS, WATT
WSID20	WIII	WIIZ

**JAPAN**

TTAAii	CCCC	STATIONS or FIR
FTJP31	RJTD	RJAA, RJBB, RJTT, RJOO, ROAH, RJCH, RJSS
FTJP32	RJTD	RJFF, RJGG, RJCC, RJFK, RJSN, RJFU, RJFT, RJOA, RJOB, RJOT, RJFO, RJNT, RJNK
FTJP33	RJTD	RJBB, RJOO, RJFF, RJFK, RJFU, RJFR
FTJP35	RJTD	RJAA, RJBB, RJTT, RJOO, RJGG, RJSN, RJCH, RJSA, RJSF, RJEC
FTJP36	RJTD	ROAH, RJCC, RJFK
FTJP37	RJTD	RJAA, RJBB, RJTT, RJOO, RJFF, RJGG
FTJP38	RJTD	RJSN, RJSA, RJSF, RJSK, RJOM, RJEC, RJA, RJCB, RJCK, RJCM, RJFM, RJFR, RJOC, RJOH, RJOK, ROIG
SAJP31	RJTD	RJAA, RJBB, RJTT, RJOO, ROAH, RJGG
SAJP32	RJTD	RJFF, RJCC, RJFK, RJSN, RJFT, RJFU, RJCH, RJSS, RJOA, RJOB, RJOT, RJFO
SAJP35	RJTD	RJAA, RJBB, RJTT, RJOO, RJGG, RJSN, RJCH, RJSA, RJSF
SAJP37	RJTD	RJAA, RJBB, RJTT, RJOO, ROAH, RJFF, RJGG, RJCC, RJFK, RJSN
SAJP38	RJTD	RJCK, RJCM, RJCB, RJOC, RJOH, RJOK, RJFM, ROIG, RJNK, RJNS, RJNT, RJSA, RJSF, RJOM, RJEC, RJSK, RJA, RJFR
FKPQ30	RJTD	
FKPQ31	RJTD	
FKPQ32	RJTD	
FKPQ33	RJTD	
FKPQ34	RJTD	

FKPQ35	RJTD
FVFE01	RJTD
UAFE31	RJTD
UAFE41	RJTD
UAFE51	RJTD

WCJP31	RJTD	RJJJ
WSJP31	RJTD	RJJJ
WVJP31	RJTD	RJJJ

**KOREA, REPUBLIC OF**

TTAAii	CCCC	STATIONS or FIR
FTKO31	RKSI	RKJB, RKNY, RKPC, RPKK, RKSI, RKSS, RKTN, RKTU
FTKO31	RKSL	RKJB, RKNY, RKPC, RPKK, RKSI, RKSS, RKTN, RKTU
SAKO31	RKSI	RKJB, RKNY, RKPC, RPKK, RKSI, RKSS, RKTN, RKTU
SAKO31	RKSL	RKJB, RKNY, RKPC, RPKK, RKSI, RKSS, RKTN, RKTU
WCKO31	RKSI	RKRR
WSKO31	RKSI	RKRR
WVKO31	RKSI	RKRR

**MALAYSIA**

TTAAii	CCCC	STATIONS or FIR
FTMS32	WMKK	WBGG, WBKK
FTMS40	WMKK	WBGB, WBGS, WBKL, WBKS, WBKW, WMKL, WMKM
FTMS41	WMKK	WMAP, WMBT, WMKA, WMKC, WMKE, WMKI, WMKN, WMPA,
FTMS42	WMKK	WMKB
SAMS31	WMKK	WBGG, WBKK, WBSB, WMKK, WMKP, WSSL, WSSS
SAMS32	WMKK	WBGG, WBKK, WMKJ, WMKK, WMKP, WMSA
SAMS38	WMKK	WBGB, WBGR, WBGS, WBKL, WBKS, WBKW, WMKD, WMKL, WMKM
WCMS31	WMKK	WBFC, WMFC
WSMS31	WMKK	WBFC, WMFC
WVMS31	WMKK	WBFC
WVMS31	WMKK	WMFC

**MALDIVES**

TTAAii	CCCC	STATIONS or FIR
FTMV31	VRMM	VRMMW
SMV31	VRMM	VRMF

**MARIANA Is. (U.S.)**

TTAAii	CCCC	STATIONS or FIR
FTPQ31	PGUM	PGRO, PGSN, PGUM, PGWT, PKMJ, PKWA, PTKK, PTPN, PTRO, PTSA, PTYA
SAGM31	PGUM	PGUM

**MONGOLIA**

TTAAii	CCCC	STATIONS or FIR
FCMO31	ZMUB	ZMUB
FTMO31	ZMUB	ZMUB
SAMO31	ZMUB	ZMUB
WSMO31	ZMUB	ZMUB

**MYANMAR**

TTAAii	CCCC	STATIONS or FIR
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 FTBM31 VYMD VYMD

SABM31 VYMD VYMD

**NEPAL**

TTAAii CCCC STATIONS or FIR

FTNP31 VNKT VNKT

SANP31 VNKT VNKT

**NEW ZEALAND**

TTAAii CCCC STATIONS or FIR

FTNZ31 NZKL NZAA, NZCH, NZWN

SANZ31 NZKL NZAA, NZCH, NZWN

WCPS21 NZKL NZZO

WSNZ21 NZKL NZZC

WSPS21 NZKL NZZO

WVNZ21 NZKL NZZC

WVPS21 NZKL NZZO

**PAKISTAN**

TTAAii CCCC STATIONS or FIR

FTPK31 OPKC OPGD, OPKC, OPLA, OPNH, OPSS, OPRN, OPSK

FTPK31 OPSS OPSS

FTPK31 OPRN OPRN

SAPK31 OPKC OPGD, OPKC, OPLA, OPNH, OPSS, OPRN, OPSKSAPK31 OPSS

SAPK31 OPSS

SAPK31 OPSK OPSK

SAPK31 OPLA OPLA

WSPK31 OPSS OPSS

**PHILIPPINES**

TTAAii CCCC STATIONS or FIR

SAPH31 RPLC RPLC

WCPH31 RPLL RPHI

WSPH31 RPLL RPHI

WVPH31 RPLL RPHI

**SAMOA**

TTAAii CCCC STATIONS or FIR

SAZM31 NSFA NSFA

**AMERICAN SAMOA**

TTAAii CCCC STATIONS or FIR

SAZS31 NSTU NSTU

**SINGAPORE**

TTAAii CCCC STATIONS or FIR

FTSR31 WSSS WAAA, WABB, WADD, WARR, WIHH, WIII, WIMM, WSAP, WSSL, WSSS

FTSR32 WSSS WMKJ, WMKK, WMKL, WMKM, WMKP, WMSA

FTSR33 WSSS WBGB, WBGG, WBGR, WBGS, WBKK, WBKL, WBKS, WBKW, WBSB

SASR31 WSAP WSAP

SASR31 WSSS WSSS

WCSR20 WSSS WSJC

WSSR20 WSSS WSJC

WVSR20 WSSS WSJC

**SRI LANKA**

TTAAii	CCCC	STATIONS or FIR
SASB31	VCCC	VCBI, VRMM

**THAILAND**

TTAAii	CCCC	STATIONS or FIR
FCTH31	VTBB	VTUU
FTAE31	VTBB	VTBD, VTBS, VTBU, VTCC, VTSP, VTSS, VTCT, VTSG, VTUU
FTAE32	VTBB	VDPP, VDSR, VVDN, VVNB, VVTS, VYMD, VYYY, VVPB
FTAE33	VTBB	VLLB, VLLN, VLPS, VLSK, VLVT
FTTH20	VTBB	VTCC, VTCH, VTCL, VTCN, VTCP, VTCT, VTPB, VTPM, VTPO, VTPP, VTPT, VTUD, VTUI, VTUJ, VTUK, VTUL, VTUO, VTUQ, VTUU, VTUV, VTUW
FTTH31	VTBB	VTCH, VTCL, VTCN, VTCP, VTPB, VTPM, VTPO, VTPP, VTPT
FTTH32	VTBB	VTSB, VTSC, VTSE, VTSF, VTSH, VTSK, VTSM, VTSR, VTST
FTTH33	VTBB	VTUJ, VTUO, VTUQ, VTUV
SAAE31	VTBB	VDPP, VDSR, VLVT, VTBD, VTBS, VTBU, VTCC, VTSP, VTSS, VVDN, VVNB, VVTS, VYMD, VYYY, VVPB
SATH31	VTBB	VTCH, VTCL, VTCN, VTCP, VTCT, VTPH, VTPO, VTPP
SATH32	VTBB	VTSB, VTSC, VTSF, VTSG, VTSH, VTSM, VTSR, VTST
SATH33	VTBB	VTBO, VTUD, VTUI, VTUK, VTUL, VTUO, VTUQ, VTUU, VTUV, VTUW
WCTH31	VTBS	VTBB
WSTH31	VTBS	VTBB
WVTH31	VTBS	VTBB

**VIETNAM**

TTAAii	CCCC	STATIONS or FIR
FTVS31	VVTS	VVTS
WCVS31	VVGL	VVNB
WSVS31	VVGL	VVNB, VVTS
WVVS31	VVGL	VVNB, VVTS

**OTHERS REGION****EASTERN AND SOUTHERN AFRICAN REGION****WESTERN AND CENTRAL AFRICAN REGION****COTE D'IVOIRE**

TTAAii	CCCC	STATIONS or FIR
SAIV20	DIAP	DIAP

**KENYA**

TTAAii	CCCC	STATIONS or FIR
SAEA20	HKNO	HKEL, HKJK, HKKI, HKLU, HKMO, HKMU, HKNO, HKNW

**MOZAMBIQUE**

TTAAii	CCCC	STATIONS or FIR
FCMZ31	FQMA	FQBR, FQCH, FQIN, FQLC, FQMA, FQNP, FQPB, FQQL, FQTT, FQVL
FTMZ31	FQMA	FQBR, FQCH, FQIN, FQLC, FQMA, FQNP, FQPB, FQQL, FQTT, FQVL

**NAMIBIA**

TTAAii	CCCC	STATIONS or FIR
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FTNM40	FYWW	FYWB, FYWH, FYKT
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**REUNION**

TTAAii	CCCC	STATIONS or FIR
FKIO20	FMEE	

**SEYCHELLES**

TTAAii	CCCC	STATIONS or FIR
WSSC20	FSIA	FSSS

**SOUTH AFRICA**

TTAAii	CCCC	STATIONS or FIR
FTZA31	FAPR	FQBR, FQMA
FTZA45	FAPE	FAPE
SAZA31	FAPR	FABL, FACT, FADN, FAEL, FAGG, FAJS, FAKN, FALA, FAPE, FAPP, FAUP

**TCHAD**

TTAAii	CCCC	STATIONS or FIR
SACD20	FTTJ	FTTA, FTTD, FTTJ

**ZAMBIA**

TTAAii	CCCC	STATIONS or FIR
FTZB20	FLLS	FLLS

**EUROPEAN AND NORTH ATLANTIC REGION****AUSTRIA**

TTAAii	CCCC	STATIONS or FIR
FTOS31	LOWM	LOWG, LOWL, LOWW
FTOS32	LOWM	LOWI, LOWK, LOWS
WSOS31	LOWW	LOVV

**BELARUS**

TTAAii	CCCC	STATIONS or FIR
WSBY31	UMMS	UMMV

**BELGIUM**

TTAAii	CCCC	STATIONS or FIR
FCBX31	EBBR	EBAW, EBCI
FTBX31	EBBR	EBBR, EBLG, EBOS, ELLX
SABX31	EBBR	EBAW, EBBR, EBCI, EBLG, EBOS, ELLX

**CROATIA**

TTAAii	CCCC	STATIONS or FIR
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WSQB31	LDZM	LQSB
WSRH31	LDZM	LDZO

**CYPRUS**

TTAAii	CCCC	STATIONS or FIR
FTCY31	LCLK	LCLK, LCPH
SACY31	LCLK	LCLK, LCPH
SACY31	LCPH	LCPH

**CZECH REPUBLIC**

TTAAii	CCCC	STATIONS or FIR
FTCZ31	LKPW	LKKV, LKMT, LKPR, LKTB
WSCZ31	LKPW	LKAA

**DENMARK**

TTAAii	CCCC	STATIONS or FIR
FCDN31	EKCH	EKEB, EKRK
FTDN31	EKCH	EKAH, EKBI, EKCH, EKYT
SADN31	EKCH	EKAH, EKBI, EKCH, EKEB, EKRK, EKRN, EKYT
WSDN31	EKCH	EKDK

**ESTONIA**

TTAAii	CCCC	STATIONS or FIR
WSEO31	EETN	EETT

**IRELAND**

TTAAii	CCCC	STATIONS or FIR
WSIE31	EIDB	EISN

**ITALY**

TTAAii	CCCC	STATIONS or FIR
FCIY31	LIIB	LIEA, LIEE, LIEO
FCIY32	LIIB	LIPB, LIPO, LIPQ
FTIY31	LIIB	LIMC, LIME, LIMF, LIMJ, LIML, LIRF, LIRN, LIRP
FTIY31	LIML	LIME, LIMF, LIMJ, LIML
FTIY31	LIRF	LIRF
FTIY32	LIIB	LICC, LICJ, LIPE, LIPZ
SAIY31	LIIB	LIEA, LIEO
SAIY32	LIIB	LIBD, LIBR, LICC, LICJ, LIPB, LIPE, LIPH, LIPK, LIPQ, LIPR, LIPX, LIPZ
SAIY40	LIIB	LIMG, LIMK, LIMN, LIMP, LIMS, LIMZ, LIPA, LIPB, LIPC, LIPF, LIPH, LIPI, LIPL, LIPO, LIPQ, LIPR, LIPS, LIPX, LIPY, LIVC, LIVP
SAIY41	LIIB	LIMH, LIMT, LIMU, LIMV, LIMY, LIVD, LIVE, LIVF, LIVM, LIVO, LIVR, LIVT
SAIY42	LIIB	LIBF, LIEA, LIED, LIEO, LIMA, LIQN, LIQO, LIQW, LIRE, LIRG, LIRH, LIRI, LIRK, LIRL, LIRM, LIRS, LIRT, LIRU, LIRV, LIRX, LIRZ
SAIY43	LIIB	LIBA, LIBC, LIBD, LIBG, LIBN, LIBP, LIBQ, LIBR, LIBV, LICA, LICC, LICD, LICG, LICJ, LICR, LICT, LICZ
WVIY31	LIIB	LIRR
WVIY31	LIMM	LIRR
WSIY31	LIIB	LIMM
WSIY32	LIIB	LIRR

**KYRGYATAN**

TTAAii	CCCC	STATIONS or FIR
WSRA41	UAFM	UAFM

**LATVIA**

TTAAii	CCCC	STATIONS or FIR
WSLV31	EVRA	EVRR

**MOROCCO**

TTAAii	CCCC	STATIONS or FIR
WSMC31	GMMC	GMMM

**SWITZERLAND**

TTAAii	CCCC	STATIONS or FIR
FCSW31	LSSW	LSGC, LSGS, LSZA, LSZB, LSZG, LSZR, LSZS
FTSW31	LSSW	LSGG, LSZH
SASW31	LSSW	LSGG, LSZA, LSZB, LSZH

**UNITED KINGDOM**

TTAAii	CCCC	STATIONS or FIR
FCUK31	EGGY	EGHH, EGHI, EGKA, EGKB, EGLF, EGMC
FTUK31	EGGY	EGAA, EGCC, EGKK, EGLL, EGSS
FTUK32	EGGY	EGGP, EGNT, EGNX
FTUK35	EGGY	EGAA, EGPD, EGPF, EGPH, EGPK
SAUK31	EGGY	EGKK, EGLL, EGPF, EGPH, EGPK, EGSS
WSUK31	EGRR	EGTT
WSUK33	EGRR	EGPX

**FINLAND**

TTAAii	CCCC	STATIONS or FIR
FTFI31	EFHK	EFHK, EFJY, EFKU, EFOU, EFRO, EFTP, EFTU, EFVA
WSFI31	EFHK	EFIN

**FORMER YUGOSLAV REPUBLIC OF MACEDONIA**

TTAAii	CCCC	STATIONS or FIR
WSMJ31	LWSK	LWSK, LWSS

**FRANCE**

TTAAii	CCCC	STATIONS or FIR
FCFR32	LFPW	LFOT
FTFR31	LFPW	LFLL, LFMN, LFPG, LFPO
FTFR32	LFPW	LFQQ, LFRB, LFRS
SAFR31	LFPW	LFLL
SAFR32	LFPW	LFML
WSFR31	LFPW	LFFF
WSFR32	LFPW	LFBB
WSFR33	LFPW	LFEE
WSFR34	LFPW	LFMM
WSFR35	LFPW	LFRR

**GERMANY**

TTAAii	CCCC	STATIONS or FIR
FTDL31	EDZO	EDDF, EDDH, EDDK, EDDM, EDDL
FTDL32	EDZO	EDDB, EDDC, EDDG, EDDN, EDDP, EDSS, EDDT, EDDV, EDDW
FTDL33	EDZO	EDDR, EDFH
SADL31	EDZO	EDDF, EDDH, EDDK, EDDL, EDDM, EDDN, EDSS
WSDL31	EDZM	EDMM
WSDL32	EDZF	EDUU

**GREECE**

TTAAii	CCCC	STATIONS or FIR
FCGR31	LGAT	LGAD, LGKF, LGKL
FTGR31	LGAT	LGAV, LGEL, LGKR, LGTS
SAGR31	LGAT	LGAD, LGAV, LGIR, LGKL, LGKO, LGKR, LGLM, LGRP, LGSA, LGSM, LGTS
WSGR31	LGAT	LGAG

**HUNGARY**

TTAAii	CCCC	STATIONS or FIR
FTHU31	LHBM	LHBP
SAHU31	LHBM	LHBP
WSHU31	LHBM	LHCC

**ICELAND**

TTAAii	CCCC	STATIONS or FIR
WSIL31	BICC	BIRD

**ISRAEL**

TTAAii	CCCC	STATIONS or FIR
WSIS31	LLBG	LLLL

**MALTA**

TTAAii	CCCC	STATIONS or FIR
WSMP31	LMMM	LMMM

**NETHERLANDS. KINGDOM OF THE**

TTAAii	CCCC	STATIONS or FIR
FCNL31	EHDB	EHEH
FTNL31	EHDB	EHAM, EHBK, EHGG, EHRD
SANL31	EHDB	EHAM, EHBK, EHGG, EHRD

**NORWAY**

TTAAii	CCCC	STATIONS or FIR
WSNO31	ENMI	ENOS
WSNO34	ENMI	ENBD
WSNO35	ENMI	ENBD
WSNO36	ENMI	ENOB

**POLAND**

TTAAii	CCCC	STATIONS or FIR
<b>FTPL31</b>	<b>EPWA</b>	<b>EPGD, EPKK, EPPO, EPRZ, EPWA</b>

**PORTUGAL**

TTAAii	CCCC	STATIONS or FIR
WSAZ31	LPMG	LPPO
WSPO31	LPMG	LPPC

**RUSSIAN FEDERATION**

TTAAii	CCCC	STATIONS or FIR
FCKZ31	RUMS	UARR, UATE, UATG, UAUU,
FCRA31	RUMS	UESO, UHNN, UNWW
FCRA32	RUMS	ULDD, UOII, USCM, USMU, USRK
FCRS31	RUMS	ULKK, ULOO, ULWW, UUBP, UUOB, UUOK
FCRS32	RUMS	URML, URMN, URMT, URWA, URWI
FCRS33	RUMS	UUOO, UUYH, UUYU
FCTA31	RUMS	UTDD, UTDL

FCTR31	RUMS	UTAA, UTAK, UTAM, UTAT, UTAV
FTAY31	RUMS	UDSG, UDYZ
FTKY31	RUMS	UAFM, UAFO
FTRA31	RUMS	UEEE, UEST
FTRA32	RUMS	UH HH, UHMM, UHMP, UHPP
FTRA33	RUMS	UIAA, UIBB, UIII, UIUU
FTRA34	RUMS	UNAA, UNBB, UNKL, UNNT
FTRA35	RUMS	UHSS, UHWW, UOHH, UOOO
FTRA36	RUMS	USCC, USDD, USNN, UWUU
FTRA37	RUMS	USHH, USRR, USSS, USTR
FTRS31	RUMS	ULAA, ULLI, ULMM, UWGG
FTRS33	RUMS	UDD, UUEE, UUWW
FTRS35	RUMS	UUY, UWLW, UWO, UWWW
FTTA31	RUMS	UTDD
SAAY31	RUMS	UDSG, UDYZ
SAKY31	RUMS	UAFM
SAKZ31	RUMS	UAAA, UAKK, UAOO, UARR, UATE, UAUU
SARA34	RUMS	UNAA, UNBB, UNEE, UNKL, UNNT, UNOO, UNWW, USTR
SARA36	RUMS	USCC, USMU, USRR, UWUU
SARS31	RUMS	ULMM
SARS35	RUMS	USPP, UWKD, UWKE, UWLL, UWLW, UWO, UWOR, UWPP, UWSS, UWWW
SATA31	RUMS	UTDD
WSRA31	RUPK	UHPP
WSRA31	RUEK	USSK, USSS
WSRA31	RUHB	UH HH
WSRA31	RUIR	UIII
WSRA31	RUKR	UNKL
WSRA31	RUNW	UNNT
WSRA31	RUOM	UNOO
WSRA31	RUSH	UHSS
WSRA31	RUF	USSS, UWO, UWUU, UWWW
WSRA31	RUVV	UHWW
WSRA31	RUYK	UEEE
WSRA32	RUAM	USDK
WSRA32	RUEK	USPP
WSRA32	RUKR	UOOO
WSRA32	RUOM	USTT
WSRA32	RUYK	UELL
WSRA33	RUHB	UHBB
WSRA33	RUNW	UNBB
WSRA33	RUOM	USHH
WSRA33	RUYK	UERR
WSRA37	RUYK	UESU
WSRA39	RUYK	UEVV
WSRS31	RUAA	ULAA
WSRS31	RUNN	USKK, USSK
WSRS31	RURD	URRV
WSRS31	RUSM	UWWW
WSRS31	RUSP	ULLL
WSRS32	RUAA	UUY
WSRS32	RUSM	UWO
WSRS32	RUSP	ULOL
WSRS33	RUAA	ULKK
WSRS33	RUSM	UWPP
WSRS37	RUAA	ULAM
WSTR31	RUMS	UTAA
WVRA33	RUHB	UHBB

WVRA33	RUEK	USCC
WVRA31	RUEK	USSS
WVRA31	RUOM	UNOO
WVRA31	RUCH	UIAA
WVRA31	RUIR	UIII
WVRA31	RUHB	UHHH
WVRA31	RUMG	UHMM
WVRA31	RUPK	UHPP
WVRA31	RUVV	UHWV
WVRA31	RUSH	UHSS
WVRA32	RUHB	UHNN
WVRA32	RUSH	UHSH
WVRA32	RUYK	UESO
WVRA32	RUIR	UIKK
WVRA34	RUEK	USUU
WVRA38	RUYK	UEST
WVRS31	RUAA	ULAA, URRV
WVRS31	RUMU	ULMM
WVRS31	RUNN	USKK
WVRS31	RURD	URRV
WVRS31	RUSM	UWPP, UWVV
WVRS31	RUSP	ULLL
WVRS32	RUAA	UUYU
WVRS32	RUSM	UWOO, UWPP
WVRS32	RUSP	ULOL
WVRS33	RUAA	ULKK, UWPP
WVRS33	RUSM	UWPP
WVRS34	RUAA	ULWV
WVRS36	RUAA	UUYW

**SLOVAKIA**

TTAAii	CCCC	STATIONS or FIR
FTSQ31	LZIB	LZIB
WSSQ31	LZIB	LZBB

**SLOVENIA**

TTAAii	CCCC	STATIONS or FIR
WSLJ31	LJLJ	LJLA

**SPAIN**

TTAAii	CCCC	STATIONS or FIR
WSEW31	LEMM	LECM
WSEW32	LEMM	LECB

**SWEDEN**

TTAAii	CCCC	STATIONS or FIR
FCSN31	ESWI	ESDF, ESGJ, ESGP, ESMK, ESMX, ESOK, ESOW, ESPA, ESSB, ESSD, ESSP, ESSV
FTSN31	ESWI	ESGG, ESKN, ESMS, ESSASASN31
ESMS, ESMX	ESWI	ESGG, ESGJ, ESGP, ESMK,
WSSN31	ESWI	ESAA

**TURKEY**

TTAAii	CCCC	STATIONS or FIR
FCTU34	LTAA	LTAR, LTAS, LTAW, LTBO, LTCL, LTCM, LTCN, LTCO, LTCP, LTRC

**UKRAINE**

TTAAii	CCCC	STATIONS or FIR
WSUR31	UKBV	UKBV
WSUR34	UKFF	UKFV

**UZBEKISTAN**

TTAAii	CCCC	STATIONS or FIR
FTRA10	TKUR	UTNU
SARA10	TKUR	UTNU

**MIDDLE EAST REGION****BAHARAIN**

TTAAii	CCCC	STATIONS or FIR
FTBN31	OBBI	OBBI, OEDF, OEDR, OKBK, OTBD
FTBN32	OBBI	OMAA, OMAL, OMDB, OMFJ, OMRK, OMSJ, OOMS, OOSA, OMAD, OMDW
SABN31	OBBI	OBBI, OEDF, OEDR, OKBK, OTBD
SABN32	OBBI	OMAA, OMAL, OMDB, OMFJ, OMRK, OMSJ, OOMS, OOSA, OMAD, OMDW

**EGYPT**

TTAAii	CCCC	STATIONS or FIR
FCEG31	HECA	HEAX, HEBA, HECA, HEGN, HELX, HEMA, HESH, HETB
FTEG32	HECA	HEAR, HEBA, HEGN, HEMM, HEPS, HESC, HESH
SAEG31	HECA	HECA
SAEG32	HECA	HEAX, HEBA, HEBL, HEGN, HELX, HEMA, HEMM, HEPS, HESC, HESH, HESN, HETB

**IRAN. ISLAMIC REP. OF**

TTAAii	CCCC	STATIONS or FIR
FTIR31	OIII	OIAW OIFM, OIIE, OIII, OIKB, OIKK, OIMM, OISS, OITT, OIZH
FTIR32	OIII	OIBK, OIIE, OITR
FTIR33	OIII	OIZC
SAIR31	OIII	OIAW, OIFM, OIII, OIKB, OIKK, OIMM, OISS, OITT, OIZH
SAIR32	OIII	OAKB, OIAA, OIBK, OICC, OIGG, OIIE, OITR, OIYY
SAIR33	OIII	OIBB, OIBL, OIBP, OICK, OICS, OIHH, OINZ, OITL, OIZC
SAIR34	OIII	OIAG, OIAM, OICI, OIKQ, OINN, OINR, OISL, OISY, OITZ
SAIR35	OIII	OIAD, OIBJ, OIBS, OIKM, OIKR, OING, OIZB, OIZI
SAIR36	OIII	OIBA, OIBV, OIFS, OIIP, OIMB, OIMN, OIMS, OIMT, OIZJ
SAIR37	OIII	OIBQ, OIHK, OIMC, OIMD, OIMQ, OITM, OIBL, OITK

**LEBANON**

TTAAii	CCCC	STATIONS or FIR
FTME31	OLBA	OJAI, OJAM, OJAQ, OLBA, OSAP, OSDI, OSLK
SAME31	OLBA	OJAI, OJAM, OJAQ, OLBA, OSAP, OSDI, OSLK
WSLB31	OLBA	OLBA

**SAUDI ARABIA**

TTAAii	CCCC	STATIONS or FIR
FTME31	OEJD	OJAI, OJAM, OJAQ, OLBA, OSAP, OSDI, OSLK
FTSD31	OEJD	OEDF, OEDR, OEJN, OEMA, OERK, OYSN
FTSD32	OEJD	OETF
FTSD40	OEJD	OEAH, OEDM, OEGT, OEHL, OEJB, OEKJ, OEKK, OEPA, OERF, OERR,

SASD31	OEJD	OERY, OESK, OETB, OETR
SASD32	OEJD	OEDF, OEDR, OEJN, OEMA, OERK, OERY, OYSN OETF

**SUDAN**

TTAAii	CCCC	STATIONS or FIR
FCSU31	HSSS	HSKA, HSOB, HSPN, HSSJ, HSSM, HSSS

**YEMEN**

TTAAii	CCCC	STATIONS or FIR
SAYE20	OYSC	OYDM
SAYE20	OYSN	OYDM

**NORTH AMERICAN.CENTRAL AMERICAN AND CARIBBEAN REGION****ARGENTINA**

TTAAii	CCCC	STATIONS or FIR
WVAG31	SAVC	SAVF

**BAHAMAS**

TTAAii	CCCC	STATIONS or FIR
FTBA31	MYNN	MBGT, MBPV, MYNN
SABA31	MYNN	MYNN

**BRAZIL**

TTAAii	CCCC	STATIONS or FIR
FTBZ18	SBGR	SBCF, SBGR, SBKP, SBRP, SBSP
FTBZ20	SBEG	SBBE, SBBV, SBCJ, SBCZ, SBEG, SBMA, SBMQ, SBOI, SBPV, SBRB, SBSL, SBSN, SBTF, SBTT
FTBZ21	SBRF	SBAR, SBFN, SBFZ, SBJP, SBMO, SBNT, SBRF, SBSV, SBTE
FTBZ22	SBBR	SBBR, SBCY
FTBZ23	SBGL	SBGL, SBRJ, SBSJ
FTBZ24	SBPA	SBBG, SBCG, SBCR, SBCT, SBFI, SBFL, SBLO, SBNF, SBPA, SBPK, SBPP, SBUG
SABZ01	SBBR	SBBE, SBBR, SBBV, SBCF, SBCG, SBCR, SBCT, SBEG, SBFI, SBFL, SBFZ, SBGR, SBKP, SBLO, SBMQ, SBPA, SBPP, SBRB, SBSJ, SBSL, SBSN
SABZ18	SBGR	SBGR
SABZ18	SBKP	SBKP
SABZ18	SBSP	SBSP
SABZ20	SBBE	SBBE
SABZ20	SBBV	SBBV
SABZ20	SBEG	SBEG, SBRB, SBSN, SBBV, SBMQ, SBPV, SBSL
SABZ20	SBMA	SBMA
SABZ20	SBMQ	SBMQ, SBSN,
SABZ20	SBPV	SBPV
SABZ20	SBRB	SBRB
SABZ20	SBSL	SBSL
SABZ20	SBSN	SBSN
SABZ21	SBAR	SBAR
SABZ21	SBFZ	SBFZ
SABZ21	SBMO	SBMO
SABZ21	SBNT	SBNT
SABZ21	SBRF	SBRF, SBAR, SBTE
SABZ21	SBSV	SBSV
SABZ21	SBTE	SBTE

SABZ22	SBBR	SBBR, SBRJ
SABZ22	SBCY	SBCY
SABZ23	SBCF	SBCF
SABZ23	SBGL	SBGL
SABZ23	SBRJ	SBRJ
SABZ24	SBCG	SBCG
SABZ24	SBCT	SBCT
SABZ24	SBFI	SBFI
SABZ24	SBFL	SBFL, SBPA
SABZ24	SBPA	SBPA
SABZ24	SBPK	SBPK
SABZ31	SBBR	SBAR, SBFN, SBFZ, SBIL, SBJP, SBKG, SBLP, SBMO, SBMS, SBNT, SBPB, SBPL, SBPS, SBQV, SBRF, SBSL, SBSV, SBTE, SBUF, SBVT

**CANADA**

TTAAii	CCCC	STATIONS or FIR
FTCN31	CWAO	CYVR
FTCN32	CWAO	CYYC
FTCN33	CWAO	CYTE
FTCN34	CWAO	CYYQ
FTCN35	CWAO	CYTR
FTCN36	CWAO	CYBG
FTCN37	CWAO	CYZX
FTCN38	CWAO	CYYR
SACN31	CWAO	CYAW, CYBG, CYEG, CYFB, CYFC, CYGL, CYHZ, CYJT, CYMX, CYOW, CYQB, CYQG, CYQM, CYQQ, CYQX, CYQY, CYTR, CYUL, CYVR, CYWG, CYXX, CYYC, CYYJ, CYYQ, CYYR, CYYT, CYYZ, CYZF, CYZV, CYZX, CYAZ, CYBL, CYBV, CYCP, CYCQ, CYDB, CYDC, CYEV, CYFO, CYHE, CYIV, CYKY, CYPR, CYQD, CYQZ, CYRV, CYUA, CYXC, CYXE, CYXQ, CYXS, CYZP, CYZT
SACN42	CWAO	CYAZ, CYBL, CYBV, CYCP, CYCQ, CYDB, CYDC, CYEV, CYFO, CYHE, CYIV, CYKY, CYPR, CYQD, CYQZ, CYRV, CYUA, CYXC, CYXE, CYXQ, CYXS, CYZP, CYZT
SACN44	CWAO	CWRF, CWVD, CYBW, CYCY, CYED, CYEK, CYIO, CYLJ, CYLT, CYMJ, CYOD, CYPE, CYQV, CYSF, CYSM, CYTH, CYUB, CYUS, CYUX, CYVT, CYXH, CYZU
SACN45	CWAO	CYBB, CYCB, CYCO, CYCS, CYFS, CYGT, CYHI, CYHK, CYHY, CYJF, CYKD, CYLC, CYLK, CYOA, CYPC, CYRA, CYRT, CYSY, CYTE, CYUT, CYVM, CYWJ, CYXN, CYZS
SACN46	CWAO	CYBC, CYBN, CYEL, CYFR, CYGK, CYGQ, CYHM, CYKF, CYKL, CYKZ, CYLD, CYPL, CYQA, CYQK, CYRB, CYSB, CYSC, CYSN, CYVO, CYVQ, CYXL, CYXU, CYXZ, CYXB, CYYH, CYYU
SACN48	CWAO	CYAD, CYAH, CYAS, CYBX, CYGV, CYHA, CYIK, CYKG, CYKQ, CYLA, CYMH, CYMT, CYMU, CYNM, CYOY, CYPH, CYPX, CYQI, CYSK, CYSL, CYUY, CYWK, CYZG
WSCN02	CWUL	CZQX

**CHILE**

TTAAii	CCCC	STATIONS or FIR
FTCH10	SCSC	SCAR, SCAT, SCBA, SCCF, SCCI, SCDA, SCEL, SCFA, SCIE, SCIP, SCJO, SCNT, SCSE, SCTC, SCTE
FTCH12	SCSC	SCAR, SCCI, SCEL, SCFA, SCIE, SCTC, SCTEWSCH31, SCIP, SCIZ

**GUYANA**

TTAAii	CCCC	STATIONS or FIR
WSCA31	SYCJ	SYCJ

**HONDURAS**

TTAAii	CCCC	STATIONS or FIR
WVHO31	MHTG	MHTG

**JAMAICA**

TTAAii	CCCC	STATIONS or FIR
FTJM31	MKJP	MKJP, MKJS
SAJM31	MKJP	MKJP

**MEXICO**

TTAAii	CCCC	STATIONS or FIR
FTMX31	MMMX	MMAA, MMMX, MMTM, MMVR
SAMX55	MMIO	MMIO

**PANAMA**

TTAAii	CCCC	STATIONS or FIR
FTPM31	MPTO	MPDA, MPHO, MPMG, MPTO

**PERU**

TTAAii	CCCC	STATIONS or FIR
WVPR31	SPIM	SPIM

**TRINIDAD AND TOBAGO**

TTAAii	CCCC	STATIONS or FIR
WCCA31	TTPP	TTZP
WSCA31	TTPP	TTZP

**UNITED STATES OF AMERICA**

TTAAii	CCCC	STATIONS or FIR
FCBX31	KWBC	EBAW, EBBE, EBBL, EBCI, EBCV, EBDT, EBFN, EBFS
FCCI32	KWBC	ZMUB
FCDL31	KWBC	EDAH, EDFM, EDHI, EDHL, EDLP, EDNY
FCDN31	KWBC	EKEB, EKKA, EKRK, EKSP
FCEM31	KWBC	LDZD, LJJ, LJMB, LJPZ, LQSA, LZKZ, LZTT
FCEN31	KWBC	EETN, EFKE, EFKK, EFMA, EFPO, ENCN, ENHD, ENKR, ENTC, EYKA
FCFR32	KWBC	LFOT, LFPN, LFRG, LFRK, LFRQ, LFRT, LFTW
FCGR31	KWBC	LGAD, LGAL, LGKF, LGKL, LGKV, LGLM, LGMT, LGSM, LGSR
FCGR41	KWBC	LGKP, LGMK, LGPZ, LGRX, LGSK, LGSR
FCID31	KWBC	WAAA
FCIO31	KWBC	FIMR, FMCZ
FCIY31	KWBC	LIBC, LIBD, LIBP, LIBR, LICA, LICG, LICT, LIEA, LIEE, LIEO
FCIY32	KWBC	LIPB, LIPK, LIPO, LIPQ, LIPY, LIRA, LIRQ
FCNL31	KWBC	EHEH, EHVK
FCNT31	KWBC	BGBW, BGGH, BGJN, BGKK
FCRO31	KWBC	LRBC, LRBM, LRCL, LRCV, LRIA, LROD, LRSB, LRSM, LRSV
F CRS32	KWBC	URKA, URKM, URMN, URMT, URSS, URWA, URWI
FCSN31	KWBC	ESDF, ESGJ, ESGP, ESMK, ESMX, ESNN, ESNO, ESNQ, ESNS, ESNU, ESOK, ESOW, ESPA, ESSB, ESSD, ESSP, ESSV
FCSW31	KWBC	LSGC, LSGS, LSZA, LSZB, LSZG, LSZR, LSZS
FCUK31	KWBC	EGHD, EGHH, EGHI, EGJB, EGJJ, EGKA, EGKB, EGLF, EGMC, EGMD, EGNH, EGNJ
FCUK42	KWBC	EGPC, EGPE, EGPL, EGPM, EGPN, EGPO, EGPU, EGSC, EGTC
FTAF35	KWBC	HDAM, HEAX, HEBA, HEBL, HECA, HEGN, HELX, HEMM, HEPS, HESC, HESN, HLLB, HLLT, HSPN, HSSJ, HSSS
FTAK31	KWBC	PABR, PAED, PAFA, PASC, PASI
FTAK32	KWBC	PABI, PADL, PAFB, PAGA, PASY
FTAS31	KWBC	VAAH, VABB, VANP, VCBI, VECC, VEPT, VEGE, VGZR, VIAR, VIBN, VIDP, VNKT, VOMM, VOTR, VOTV
FTAW32	KWBC	OEDF, OEDR, OEJN, OEMA, OERK, OIAW, OIFM, OIII, OIKB, OIKK,

		OIMM, OISS, OITR, OITT, OIZH, OKBK, OSAP, OSDI, OTBD
FTAW34	KWBC	OAKN, OPGD, OPKC, OPLA, OPNH, OPNS, OPNS, OPSK, UAAA, UACC, UATT, UTDD, UTSS, UTTT
FTBX31	KWBC	EBBR, EBLG, EBOS, ELLX
FTBZ31	KWBC	SBBE, SBBR, SBBV, SBCF, SBCG, SBEG, SBFI, SBFZ, SBGL, SBGR, SBKP, SBNT, SBPA, SBRF, SBSL, SBSN, SBSV, SBTT
FTCA32	KWBC	MDLR, MDPC, MDPP, MDSD, MDST, TAPA, TIST, TISX, TJBQ, TJMZ, TJPS, TJSJ, TKPK, TQPF, TUPJ
FTCA33	KWBC	TBPB, TFFF, TFFR, TGPY, TLPC, TLPL, TNCA, TNCB, TNCC, TNCM, TTCP, TTPP, TVSV
FTCA35	KWBC	MGPB, MGSJ, MHLC, MHLM, MHTG, MPTO, MRLB, MRLM, MROC, MRPV, MSLP, MSSS
FTCI32	KWBC	ZGNN, ZGSZ, ZMUB, ZPPP, ZSAM, ZUUU
FTDL31	KWBC	EDDF, EDDH, EDDK, EDDL, EDDM, EDDN
FTDL33	KWBC	EDDR
FTDN31	KWBC	EKAH, EKBI, EKCH, EKYT
FTEN31	KWBC	EFHK, EFJY, EFKU, EFOU, EFRO, EFTP, EFTU, EFVA, ENBO, ENBR, ENGM, ENSB, ENVA, ENZV, EVRA, EYVI
FTFR32	KWBC	LFML, LFMN, LFMP, LFMT, LFOB, LFOH, LFPB, LFPG, LFPO, LFQQ, LFRB, LFRS, LFRZ, LFSB, LFSN, LFST
FTGR31	KWBC	LGAV, LGEL, LGIR, LGKO, LGKR, LGRP, LGSA, LGTS
FTID31	KWBC	WAAA, WADD, WARR, WIII, WIMM
FTIO31	KWBC	FIMP, FJDG, FMCH, FMEE, FMMI, FMMT, FMNN, FSIA, VRMM, WBGG, WBKK, WBSB
FTIQ31	KWBC	KQAE, KQEZ, KQTO, KQTU, KQTX, KQTZ, KQXJ
FTIQ32	KWBC	KQAJ, KQAQ, KQCO, KQSL, KQTI
FTIY31	KWBC	LIMC, LIME, LIMF, LIMJ, LIML
FTIY32	KWBC	LIPE, LIPZ, LIRF, LIRN, LIRP
FTMX31	KWBC	MMAA, MMCZ, MMGL, MMMD, MMMX, MMMY, MMMZ, MMPR, MMTM, MMTP, MMUN, MMVR, MNMG
FTMX41	KWBC	MMAS, MMBT, MMCE, MMCL, MMCN, MMCS, MMCU, MMCV, MMDO, MMGL, MMGM, MMHO, MMLP, MMMA, MMML, MMMM, MMMT, MMNL, MMRX
FTMX42	KWBC	MMSD, MMSP, MMTA, MMTJ, MMTQ, MMZC, MMZH, MMZO
FTNL31	KWBC	EHAM, EHBK, EHGG, EHRD
FTNT31	KWBC	BIAR, BIEG, BIKF, BIRK
FTPA31	KWBC	AGGH, AYPY, PGRO, PGSN, PGUM, PGWT, PHJH, PHJR, PHMK, PKMJ, PKWA, PLCH, PMDY, PTKK, PTRO, PTYA
FTPQ31	KWBC	PGRO, PGSN, PGUM, PGWT, PKMJ, PKWA, PTKK, PTPN, PTRO, PTSA, PTYA
FTRA31	KWBC	UEEE, UEST, UHMP, UHPP, UHSS, UHWW, UIAA, UIBB, UIII, UIUU, ULAA, UNAA, UNNT, USNN, UUEE
FTSA31	KWBC	SEGU, SEQU, SKBO, SKBQ, SKCG, SKCL, SKLT, SKRG, SKSP, SMNI, SMZO, SOCA, SPIM, SPQT, SPQU, SPSO, SPTN, SPZO, SVBC, SVMC, SVMG, SVMI
FTSA32	KWBC	SCAR, SCCI, SCDA, SCEL, SCFA, SCIE, SCIP, SCTE, SGAS, SLCB, SLLP, SLTJ, SLTR, SLVR, SUAA, SUCA, SULS, SUMU, SURV, SUSO
FTSN31	KWBC	ESGG, ESKN, ESMS, ESSA
FTSW31	KWBC	LSGG, LSZH
FTUK31	KWBC	EGAA, EGBB, EGCC, EGFF, EGGD, EGGP, EGGW, EGKK, EGLL
FTUK42	KWBC	EGPF, EGSS
FTUS31	KWBC	KABQ, KATL, KBGR, KBHM, KBMG, KBNA, KBOS, KBWI, KCHS, KCLE, KCLT, KCVG, KDEN, KDFW, KDTW, KEWR, KFLL, KIAD, KIAH, KIND, KJAX, KJFK, KLAS, KLAX, KLGA, KLIT, KMCI, KMCO, KMEM, KMIA, KMSB, KMSY, KOAK, KOKC, KONT, KORD, KORF, KPBI, KPHF, KPHL, KPHX, KPIT, KRDU, KSAN, KSEA, KSFO, KSTL, KSWF, KTEB, KTPA
FTUS41	KWBC	KABE, KAGC, KALB, KART, KAVP, KBAF, KBDL, KBDR, KBTB, KBUF, KCAE, KCAK, KCMH, KCRW, KDAY, KERI, KGON, KGSO, KGSP, KHPN,

		KHTS, KHUL, KIAG, KILG, KILM, KINT, KLSV, KLUK, KMDT, KMSS, KORH, KPQI, KPVD, KPWM, KRIC, KROC, KSYR
FTUS42	KWBC	KAMA, KAUS, KBPT, KBRO, KBTR, KCHA, KCRP, KDAL, KDRT, KELP, KEYW, KFTW, KFTY, KFXE, KGLS, KGPT, KHOU, KHRL, KHSV, KLCH, KLRD, KMAF, KMFE, KMGM, KMOB, KOPE, KPDK, KPFN, KPIE, KPNS, KRSW, KSAT, KSAV, KSHV, KSSI, KTMB, KTUL, KTYS
FTUS43	KWBC	KAPN, KAZO, KBTM, KCOS, KCPR, KDET, KDLH, KDSM, KFAR, KFNT, KGFK, KGRB, KGRR, KICT, KINL, KISN, KLEX, KMBS, KMDW, KMKC, KMKE, KMLI, KMOT, KOMA, KPIA, KPUB, KSAW, KSDF, KSGF, KSUS, KTOL
FTUS44	KWBC	KBFI, KBIL, KBKE, KBLI, KBOI, KCLM, KCTB, KDUG, KFAT, KEGE, KGGW, KGTF, KHLN, KHQM, KHVR, KIPL, KLBB, KMSO, KOLM, KOLS, KPAE, KPDX, KPMD, KRNO, KSAC, KSCK, KSFF, KSJC, KSLC, KSMF, KTUS
SAAK31	KWBC	PABR, PACD, PAED, PAEI, PAEN, PAFA, PAJN, PAKN, PAKT, PANC, PAOM, PAOR, PAOT, PASC, PASI, PAVD, PAWG, PFYU
SAAK32	KWBC	PABA, PABI, PACZ, PADK, PADL, PADQ, PAEH, PAFB, PAGA, PAIM, PALU, PASV, PASY, PATC, PATL
SAAS31	KWBC	VAAH, VABB, VANP, VCBI, VIAR, VIBN, VIDP, VOHY, VOMM, VOTR, VOTV, VRMM, VTBS
SAAS33	KWBC	VDPP, VDSR, VLVT, VTBD, VTBU, VTCC, VTSP, VTSS, VVDN, VVNB, VVTS, WBGG, WBKK, WMKJ, WMKK, WMKP, WMSA, WSAP, WSSL, WSSS
SAAW32	KWBC	OEDF, OEDR, OEJN, OEMA, OERK, OIAA, OIAW, OIBB, OIBK, OICC, OICK, OICS, OIFM, OIGG, OIHH, OIII, OIKB, OIKK, OIMM, OINN, OINR, OINZ, OISS, OITL, OITR, OITT, OIYY, OIZH, OKBK, OSAP, OSDI, OSLK, OTBD
SAAW34	KWBC	OAKB, OAKN, OPKC, OPNH, UAAA, UACC, UACP, UADD, UAIL, UAKK, UAOO, UARR, UASP, UATE, UATG, UATT, UAUU, UTDD, UTSS, UTTT
SABX31	KWBC	EBAW, EBBE, EBBL, EBBR, EBCI, EBCV, EBDT, EBFN, EBFS, EBLB, EBLG, EBOS, ELLX
SABZ31	KWBC	SBFZ, SBNT, SBPS, SBRF, SBSL, SBSV
SACA33	KWBC	TBPB, TDPD, TFFF, TFFR, TGPY, TLPC, TNCA, TNCB, TNCC, TNCE, TNCM, TTCP, TVSV
SACA42	KWBC	TIST, TISX, TJBQ, TJMZ, TJPS, TJSJ
SACI32	KWBC	ZGNN, ZGSZ, ZMUB, ZPPP, ZSAM, ZUUU
SADL31	KWBC	EDDF, EDDH, EDDK, EDDL, EDDM, EDDN, EDDS, EDDW, EDFE, EDFM, EDHI, EDHL
SADL32	KWBC	EDLN, EDLP, EDLW, EDMA, EDMO, EDQM, EDTD, EDVE
SADL33	KWBC	EDDB, EDDC, EDDG, EDDP, EDDR, EDDT, EDDV, EDDW
SADN31	KWBC	EKAH, EKBI, EKCH, EKEB, EKKA, EKOD, EKRK, EKRN, EKSB, EKSN, EKSP, EKVD, EKVG, EKVJ, EKYT
SAEE31	KWBC	EPGD, EPKK, EPKT, EPPO, EPRZ, EPSC, EPWA, EYSA, UKBB, UKKK, UKLL, UKOO, UMII, UMMM, UMMS
SAEM31	KWBC	LATI, LDDU, LDOS, LDPL, LDRI, LDSP, LDZA, LDZD, LJJL, LJMB, LJPZ, LKMT, LKPR, LKTB, LOAV, LOIH, LOWG, LOWI, LOWK, LOWL, LOWS, LOWW, LOWZ, LQSA, LWOH, LWSK, LYBE, LYNI, LYPG, LYTV, LZIB, LZKZ, LZTT
SAEN31	KWBC	EETN, EFHF, EFHK, EFIV, EFJY, EFKE, EFKK, EFKU, EFMA, EFOU, EFPO, EFRO, EFTP, EFTU, EFVA, ENBO, ENBR, ENCN, ENGM, ENHD, ENKR, ENSB, ENTC, ENVA, ENZV, EVRA, EYVI
SAFR31	KWBC	LFBD, LFBH, LFBI, LFBO, LFBP, LFBT, LFBZ, LFGJ, LFKB, LFKC, LFKJ, LFLB, LFLC, LFLI, LFLS, LFLY, LFMD, LFMH
SAFR32	KWBC	LFML, LFMN, LFMP, LFMT, LFOB, LFOH, LFOT, LFPB, LFPG, LFPN, LFPO, LFQQ, LFRB, LFRD, LFRG, LFRK, LFRN, LFRO, LFRQ, LFRS, LFRT, LFRZ, LFSB, LFSF, LFSN, LFSR, LFST, LFTW, LFVP
SAFR41	KWBC	LFBA, LFBC, LFBL, LFBM, LFKF, LFLD, LFLV, LFOE, LFOF, LFPB, LFPG, LFPV, LFQB, LFQQ, LFRH, LFRM, LFSC, LFSD, LFSI, LFSO,

		LFSX, LFTH
SAGR31	KWBC	LGAD, LGAV, LGIR, LGKL, LGKO, LGKR, LGLM, LGRP, LGSA, LGSM, LGTS
SAGR41	KWBC	LGPZ, LGRX
SAHW31	KWBC	PHJR, PHKO, PHLI, PHNL, PHOG, PHTO
SAID31	KWBC	WAAA, WABB, WIII, WIMM
SAIO31	KWBC	FIMP, FIMR, FMCH, FMCZ, FMEE, FMMI, FMMT, FMNN, FSIA, VRMM, VYMD, VYYY, WBGG, WBKK, WBSB
SAIQ31	KWBC	KQAE, KQEZ, KQMH, KQTO, KQTU, KQTX, KQTZ, KQVO, KQXJ
SAIQ32	KWBC	KQAJ, KQAQ, KQCO, KQSL, KQTI
SAIY31	KWBC	LIBC, LIBD, LIBP, LIBR, LICA, LICC, LICG, LICJ, LICR, LICT, LIEA, LIEO, LIMG
SAIY32	KWBC	LIPB, LIPE, LIPH, LIPK, LIPQ, LIPR, LIPX, LIPZ
SAMX31	KWBC	MMAA, MMCZ, MMMD, MMMX, MMMY, MMMZ, MMTM, MMUN, MMVR
SAMX41	KWBC	MMAS, MMCL, MMCM, MMCN, MMCS, MMCU, MMCV, MMDO, MMGM, MMHO, MMLP, MMMA, MMML, MMMM, MMMT, MMNL, MMRX
SANL31	KWBC	EHAM, EHBK, EHDL, EHEH, EHGG, EHGR, EHLW, EHRD, EHVK, EHV, EHWO
SANT31	KWBC	BGBW, BGC, BGGH, BGJN, BGKK, BGSF, BGTL, BIAR, BIEG, BIKF, BIRK, GVAC, LPBJ, LPLA, TXKF
SAPA31	KWBC	AGGH, AYPY, PGRO, PGSN, PGUA, PGUM, PGWT, PHJH, PHJR, PHMK, PKMJ, PKMR, PKWA, PLCH, PMDY, PTKK, PTKR, PTPN, PTRO, PTSA, PTPP, PTYA, PWAK
SAPA41	KWBC	PGSN, PGUM, PKMJ, PKWA, PWAK
SAPH31	KWBC	RPLB, RPLC, RPLL, RPMD, RPMZ, RPVM
SARA31	KWBC	UAAA, UACC, UAFM, UAFO, UAOO, UARR, UATE, UATG, UATT, UBBB, UBBG, UEEE, UHHH, UHMA, UHMM, UHMP, UHPP, UHSS, UHWW, UIAA, UIBB, UIII, UIUU, ULAA, UMBB, UMGG, UMII, UMMM, UMMS, UNAA, UNNT, USNN, UTAA, UTAK, UTAT, UTAV, UTDD, UTDL, UTNN, UTNU, UTSA, UTSB, UTSK, UTSS, UTST, UTTT, UUEE
SARS31	KWBC	UELL, UEST, ULLI, ULMM, UOHH, UOOO, UUDD, UUEE, UUWW
SASN31	KWBC	ESDF, ESGG, ESGJ, ESGP, ESKN, ESMK, ESMS, ESMX, ESN, ESNO, ESNQ, ESNS, ESNU, ESOK, ESOW, ESPA, ESSA, ESSB, ESSD, ESSP, ESSV
SASW31	KWBC	LSGC, LSGG, LSGS, LSZA, LSZB, LSZG, LSZH, LSZR, LSZS
SAUS31	KWBC	KABQ, KATL, KBGR, KBHM, KBNA, KBOS, KBWI, KCHS, KCLE, KCLT, KCVG, KDEN, KDFW, KDTW, KEWR, KFLL, KIAD, KIAH, KIND, KJAX, KJFK, KLAS, KLAX, KLGA, KLIT, KLOU, KMCI, KMCO, KMEM, KMIA, KMS, KMSY, KOAK, KOKC, KONT, KORD, KORF, KPBI, KPHF, KPHL, KPHX, KPIT, KRDU, KSAN, KSEA, KSFO, KSTL, KSWF, KTEB, KTPA
SAUS41	KWBC	KABE, KAGC, KAKR, KALB, KART, KAVP, KBAF, KBDL, KBDR, KBED, KBT, KBUF, KBVY, KCAE, KCAK, KCMH, KCRW, KDAY, KDOV, KERI, KEWB, KFVE, KGON, KGSO, KGSP, KHPN, KHTS, KHUL, KHV, KIAG, KILG, KILM, KINT, KLSV, KLUK, KMDT, KMMU, KMSS, KOQU, KORH, KPQI, KPSM, KPVD, KPWM, KRIC, KROC, KSCH, KSYR, KWRI
SAUS42	KWBC	KAMA, KAUS, KBPT, KBQK, KBRO, KBTR, KCHA, KCRP, KDAL, KDRT, KELP, KEYW, KFPR, KFTW, KFTY, KFXE, KGLS, KGPT, KHOU, KHRL, KHSV, KLCH, KLRD, KMAF, KMFE, KMGM, KMOB, KNEW, KOPF, KPDK, KPFN, KPIE, KPNS, KRWS, KSAT, KSAV, KSHV, KSSI, KTMB, KTUL, KTYS
SAUS43	KWBC	KAAA, KAPN, KAZO, KBDE, KBTL, KBTM, KCIU, KCMX, KCOS, KCPR, KDET, KDLH, KDSM, KELO, KFAR, KFNT, KGFK, KGRB, KGRR, KICT, KINL, KISN, KLEX, KMBS, KMDW, KMKC, KMKE, KMLI, KMOT, KOMA, KPHN, KPIA, KPTK, KPUB, KSAW, KSDF, KSGF, KSTP, KSUS, KTOL, KVYS
SAUS44	KWBC	KBFI, KBIL, KBKE, KBLI, KBOI, KCLM, KCTB, KDUG, KFAT, KEGE, KGGW, KGTF, KHLN, KHQM, KHVR, KIPL, KLBB, KMSO, KOLM, KOLS, KPAE, KPDX, KPMD, KRNO, KRNT, KSAC, KSCK, KSDM, KSFF, KSJC,

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KSLC, KSMF, KTIW, KTUS

FVXX20	KNES	
FVXX21	KNES	
FVXX22	KNES	
FVXX23	KNES	
FVXX24	KNES	
FVXX25	KNES	
WCPN05	KKCI	KZOA
WVPN05	KKCI	KZOA
WSPN05	KKCI	KZOA

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