



WORKING PAPER

SATELLITE DISTRIBUTION SYSTEM OPERATIONS GROUP (SADISOPSG)

THIRTEENTH MEETING

Dakar, Senegal, 27 to 29 May 2008

Agenda Item 5 Content of the SADIS broadcast

5.1 OPMET information

IATA REQUIREMENTS FOR OPMET DATA FOR NON-AOP AERODROMES

(Presented by the International Air Transport Association (IATA))

SUMMARY

This paper outlines the changes to IATA requirements for OPMET data of non-AOP aerodromes invites the SADISOPG to endorse these requirements.

1. INTRODUCTION

1.1 Since SADIS became operational in the 90's, it evolved into a more and more reliable source of OPMET data. Beside the distribution of WAFFS forecasts it is used for broadcasting all other OPMET data. Basis for the data distribution via SADIS is the SADIS User Guide and its Annex 1.

1.2 SADIS has the task to provide all necessary or requested OPMET data to aviation users so that SADIS can be considered as a single source of data.

1.3 SADIS is a dedicated ICAO system, regulated and controlled under ICAO Standards and Recommended Practices. It forms part of the Aeronautical Fixed Services (AFS) to ensure that aviation data is distributed without conflict and with the appropriate priority.

2. DISCUSSION

2.1 Since the operational start of SADIS many airlines are linked (directly or indirectly) to SADIS as a primary and single source of OPMET data for AOP and non-AOP aerodromes.

2.2 Many states are using non-AOP aerodromes internationally. Consequently OPMET data are issued and these data should be distributed on the international broadcast systems.

2.3 Non-AOP aerodromes are widely used as en-route alternates, as emergency airports and for ETOPS operation. With regard to a safe flight operation OPMET data for these aerodromes are important and should be available to all airlines.

2.4 The attachment, based on the Non-AOP aerodromes listed in SUG Annex 1, contains revised requirements for those aerodromes, separated for ICAO regions. Within the ICAO region, the states are listed in alphabetical order when changes are requested or proposed. The same structure as the SUG 1 is used for the requirement tables in the appendix.

2.5 IATA has listed all requirements for the different OPMET data types as used in SUG Annex 1 (SA/SP, FC and FT). IATA requires only one TAF type for each airport. The “long” TAF (with a data-type designator of “FT”) with a validity period of 24 hours is the preferred forecast type. The tables in the appendix reflect that IATA requirement and consequently all requirements for “short” TAF (with a data-type designator of “FC”) have been deleted.

2.6 All requirements for aerodromes not listed in the tables in the appendix remain unchanged in the SUG Annex 1. The group may wish to endorse the IATA requirements and formulate the following conclusion:

**Conclusion 13/.. — Revision of the requirements of OPMET
data from non-AOP aerodromes in
Annex 1 to the SUG**

That, ICAO

- a) seek agreement by the States concerned regarding the amendments to OPMET information from non-AOP aerodromes as contained in Appendix¹ to this report; and
- b) based on the States’ replies received as part of action taken under a) above, amend Annex 1 to the SADIS User Guide accordingly.

3. ACTION BY THE SADISOPSG

3.1 The SADISOPSG is invited to:

- a) note the information provided in this paper; and,
- b) decide on the draft conclusion proposed for the group’s consideration.

¹ The updated requirements are contained in the appendix to this working paper.

Appendix

Revised and New Requirements for OPMET data and availability on international distribution from Non-AOP aerodromes in the ICAO regions

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1. INTRODUCTION

The following tables contain the proposed changes for SUG Annex 1. There are new IATA requirements of OPMET data exchange and monitoring as well as changes of requirements for aerodromes already listed in the SUG Annex 1. Only differences to the existing SUG Annex 1 are listed in the tables.

2. Legend

- Column 1:** Name of aerodrome (AOP Aerodrome)
Column 2: Name of aerodrome (Non-AOP Aerodrome)
Column 3: ICAO Location Indicator (Tables are sorted according the ICAO location indicator)
Column 4: METAR (SA), SPECI (SP)
 Y – SA and SP is required for international distribution
Column 5: Short TAF (FC)
 Y – FC is required for international distribution
Column 6: Long TAF (FT), if Y then FT are required for international distribution
 Y – 24H FT is required for international distribution
 X – 30H FT is required for international distribution
Column 7: Remark

Changes of requirements listed in the currently valid SUG Annex 1 are highlighted as shown in the examples below.

EXAMPLE:

For **DAAG FC** is not required any more, but **SA** and **FT** is still required

ALGER	--	HOUARI	DAAG	Y	¥	Y	On the MOTNE	
				BOUMEDIENE				

For **FBFT FT** is now additionally required

FRANCISTOWN	FBFT	Y	¥
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For **ZBAA 30H FT** is required

BEIJING/CAPITAL	ZBAA	Y	X	30H TAF
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For **PGUM SA and FT** is required (new requirement)

GUAM INTL AGANA	PGUM	Y	¥
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PJON is not longer required

~~JOHNSTON ATOLL~~

~~PJON~~

3. Airportlist for OPMET Data Exchange

AFRICA-INDIAN OCEAN (AFI) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	A / F C	F / T	Remark
Algeria						
	<i>ADRAR</i>	DAUA	Y	¥	Y	
	<i>BECHAR</i>	DAOR	Y	¥	Y	
	<i>BISKRA/MOHAMED KHIDER</i>	DAUB	Y	¥	Y	
	<i>BOU-SAADA</i>	DAAD	Y	¥	Y	
	<i>DJANET</i>	DAAJ	Y	¥	Y	
	<i>EL GOLEA</i>	DAUE	Y	¥	Y	
	<i>EL OUED/GUEMAR</i>	DAUO	Y	¥	Y	
	GHRISS	DAOV				
	HASSI RMEL	DAFH	Y		Y	
	<i>ILLIZI/TAKHAMALT</i>	DAAP	Y	¥	Y	
	<i>IN GUEZZAM</i>	DATG	Y	¥	Y	
	<i>IN SALAH</i>	DAUI	Y		Y	
	<i>JIJEL/FERHAT ABBAS</i>	DAAV	Y	¥	Y	
	<i>SOUMMAM -- ABANE</i>					
	<i>RAMDANE</i>	DAAE	Y	¥	Y	
	<i>TIARET</i>	DAOB	Y	¥	Y	
	<i>TIMIMOUN</i>	DAUT	Y	¥	Y	
	<i>TOUGGOURT/SISI MAHDI</i>	DAUK	Y	¥	Y	
Angola						
	<i>CABINDA</i>	FNCA	Y		Y	
Ascension Is. (United Kingdom)						
	WIDEAWAKE/ASCENSION	FHAW	Y		Y	
Botswana						
	<i>GHANZI</i>	FBGZ	Y		Y	
British Indian Ocean Territory (United Kingdom)						
	<i>DIEGO GARCIA</i>	FJDG	Y		Y	
Cape Verde						

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	PRAIA INTL	GVNP	Y		Y	
	SAO PEDRO/SAO VICENTE ISLAND	GVSV	Y		Y	
Central African Republic						
	BANGASSOU	FEFG	Y		Y	
Chad						
	MOUNDOU	FTTD	Y		Y	
	SARH	FTTA	Y		Y	
Côte d'Ivoire						
	YAMOUSSOUKRO	DIYO	Y		Y	
Democratic Republic of the Congo						
	KALEMIE	FZRF	Y		Y	
	KAMINA	FZSA	Y		Y	
	KINDU	FZOA	Y		Y	
	KINSHASHA/N'DOLO	FZAB	Y		Y	
	MBANDAKA	FZEA	Y		Y	
Egypt						
	ALEXANDRIA/BORG EL ARAB	HEBA	Y	¥	Y	
	EL-ARISH	HEAR	Y		Y	
	MARSA ALAM	HEMA	Y	¥	Y	
	PORT SAID	HEPS	Y		Y	
Equatorial Guinea						
	BATA	FGBT	Y		Y	
Gabon						
	MOANDA	FOOD	Y		Y	
Guinea						
	FARANAH	GUFH	Y		Y	
Île De La Réunion (France)						
	SAINT PIERRE/PIERREFONDS	FMEP	Y		Y	
Kenya						

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	KISUMU	HKKI	Y		Y	
	MALINDI	HKML				
	NAIROBI/WILSON	HKNW				
Liberia						
	MONROVIA/SPRIGGS PAYNE	GLMR	Y		Y	
Libyan Arab Jamahiriya						
	KUFRA	HLKF	Y	¥	Y	
Mauretania						
	KAEDI	GQNK	Y		Y	
Mauritius						
	RODRIGUES/PLAINE CORAIL	FIMR	Y	¥	Y	
Morocco						
	CASABLANCA/ANFA	GMMC	Y	¥	Y	
	LAAYOUNE/HASSAN 1ER	GMML	Y	¥	Y	
	NADOR/ARWI	GMMW	Y	¥	Y	
Mozambique						
	NAMPULA	FQNP	Y		Y	
	QUELIMANE	FQQL	Y		Y	
	TETE/CHINGODZI	FQTT	Y		Y	
Namibia						
	GROOTFONTEIN	FYGF	Y		Y	
Nigeria						
	BENIN	DNBE	Y		Y	
	ENUGU	DNEN	Y		Y	
	IBADAN	DNIB	Y		Y	
	JOS	DNJO	Y		Y	
South Africa						
	ALEXANDER BAY	FAAB				No SP issued
	EAST LONDON	FAEL	Y	¥	Y	
	GEORGE/P.O.BOTH	FAGG	Y	¥	Y	
	JOHANNESBURG/RAND	FAGM	Y	¥	Y	
	PIETERMARITZBURG	FAPM	Y		Y	
	POLOKWANE INTERNATIONAL	FAPP	Y		Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	PRETORIA/WONDERBOOM	FAWB	Y		Y	
	RICHARDS BAY	FARB	Y		Y	
	WATERKLOOF	FAWK	Y		Y	
Sudan						
	DONGOLA	HSDN				
	EL OBEID	HSOB	Y		Y	
Togo						
	SOKODE	DXSK	Y		Y	
Tunisia						
	EL BORMA	DTTR	Y		Y	
	GABES	DTTG	Y	Y	Y	
	GAFSA/KSAR	DTTF	Y	Y	Y	
United Republic of Tanzania						
	MWANZA	HTMW	Y		Y	
	TANGA	HTTG	Y		Y	
Zimbabwe						
	CHIREDZI/BUFFALO RANGE	FVCZ	Y		Y	
	HWANGE NATIONAL PARK	FVWN	Y		Y	
	KARIBA	FVKB	Y		Y	
	TANGA	HTTG				

ASIA (ASI) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
China						
	<i>HAIKOU/MEILAN</i>	ZJHK	Y		X	30H TAF
	<i>SHIJIAZHUANG/ZHENGDING</i>	ZBSJ	Y		Y	
	<i>TAINAN</i>	RCNN	Y		X	30H TAF
	<i>ZHENGZHOU/XINZHENG</i>	ZHCC	Y		Y	
East Timor						
	<i>DILI/INTL PRESI NICOLAU LOBATO</i>	WPDL	Y		Y	
India						
	<i>BANGALORE DEVANAHALLI</i>	VOBL	Y		Y	
	<i>BELGAUM</i>	VABM	Y		Y	
	<i>HYDERABAD/RAJIV GANDHI</i>	VOHS	Y		Y	
	<i>MANGALORE</i>	VOML	Y		Y	
	<i>PATHANJOT</i>	VIPK				
Indonesia						
	<i>SORONG</i>	WASS	Y		Y	
Japan						
	<i>AOMORI</i>	RJSA	Y		Y	
	<i>ASAHIKAWA</i>	RJEC	Y		Y	
	<i>FUKUSHIMA</i>	RJSF	Y		Y	
	<i>FUTENMA</i>	ROTM	Y		Y	
	<i>IWAKUNI</i>	RJOI	Y		Y	
	<i>KADENA</i>	RODN	Y		Y	
	<i>KOCHI</i>	RJOK	Y		Y	
	<i>KOMATSU</i>	RJNK	Y		Y	
	<i>MATSUYAMA</i>	RJOM	Y		Y	
	<i>MIHO</i>	RJOH	Y		Y	
	<i>MIYAZAKI</i>	RJFM	Y		Y	
	<i>TOYAMA</i>	RJNT	Y		Y	
	<i>YOKOTA</i>	RJTY	Y		Y	
Malaysia						
	<i>BINTULU</i>	WBGB	Y	¥	Y	
	<i>BUTTERWORTH</i>	WMKB	Y		Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	KOTA BHARU/SULTAN ISMAIL PETRA	WMKC	Y		Y	
	MERSING	WMAU	Y		Y	
	SITIAWAN	WMBA	Y		Y	
Pakistan						
	PASNI	OPPI				
	QUETTA	OPQT				
	SUKKUR	OPSK	Y		Y	
Papua New Guinea						
	DARU	AYDU	Y	¥	Y	
	GOROKA	AYGA	Y	¥	Y	
	MADANG	AYMD	Y	¥	Y	
	MOMOTE	AYMO	Y	¥	Y	
	MOUNT HAGEN	AYMH	Y	¥	Y	
	NADZAB	AYNZ	Y	¥	Y	
	WEWAK	AYWK	Y		Y	
Philippines						
	BUAYAN/GENERAL SANTOS	RPMB				
	CAGAYAN DE ORO	RPML	Y		Y	
	DUMAGUETE	RPVD	Y		Y	
	TAMBLER/GENERAL SANTOS	RPMR	Y		Y	
Singapore						
	TENGAH	WSAT	Y		Y	
Sri Lanka						
	KANKESANTURAI/JAFFNA	VCGJ				
Thailand						
	SUKHOTHAI	VTPO	Y		Y	
Viet Nam						
	DALAT / LIENKHUONG	VVDL	Y	¥	Y	SA/FC issued during 2200-1100 UTC, as required.
	DIENBIEN	VVDB	Y	¥	Y	SA/FC issued during

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
						2200-1100 UTC, as required.
	HUE / PHUBAI	VVPB	Y	✗	Y	SA/FC issued during 2200-1100 UTC, as required.
	NHATRANG	VVNT	Y	✗	Y	SA/FC issued during 2200-1100 UTC, as required.

Pacific (PAC) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Johnston Atoll (United States)						
	JOHNSTON ATOLL	PJON				
United States						
	JOHNSON PETERSBURG	PAPG	Y		Y	
	KAPOLEI/KALAELOA/JOHN ROGERS	PHJR	Y		Y	
	WRANGELL	PAWG	Y		Y	

CARIBBEAN (CAR) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Bahamas						
	ROCK SOUND	MYER				

SOUTH AMERICAN (SAM) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Argentina						
	FORMOSA	SARF	Y		Y	
	POSADAS	SARP	Y		Y	
	TUCUMAN/TTE. BENJAMIN MATIENZO	SANT	Y		Y	
Bolivia						
	COBIJA	SLCO	Y		Y	Only in the daytime.
	POTOSI	SLPO	Y		Y	Only in the daytime.
Brazil						
	ARACAJU/SANTA MARIA	SBAR	Y		Y	
	BAGE INTL/GUSTAVO KRAEMER	SBBG	Y		Y	
	FERNANDO DE NORONHA	SBFN	Y		Y	
	JOAO PESSOA/PRES CASTRO PINTO	SBJP	Y		Y	
	LONDRINA	SBLO	Y		Y	
	MARABA	SBMA	Y		Y	
	PARAUAPEBAS/CARAJAS	SBCJ	Y		Y	
	PELOTAS	SBPK	Y		Y	
	PORTO VELHO INTL/GOV J.T.DE O.	SBPV	Y		Y	
	RIO BRANCO/PRESID MEDICI INTL	SBRB	Y		Y	
	RIO DE JANEIRO/SANTOS DUMONT	SBRJ	Y		Y	
	SAO JOSE DOS CAMPOS	SBSJ	Y		Y	
	SAO PAULO/CONGONHAS	SBSP	Y		Y	
	TEFE	SBTF	Y		Y	
	TERESINA/SENADOR PETRONIO PORT	SBTE	Y		Y	
Chile						
	COPIAPO/DESIERTO DE ATACAMA	SCAT	Y		Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	PUERTO NATALES/TTE.J.GALLARDO	SCNT	Y		Y	
	TEMUCO/MAQUEHUE	SCTC	Y		Y	
Columbia						
	BUCARAMANGA/PALONEGR O	SKBG	Y		Y	
	PEREIRA	SKPE	Y		Y	
Peru						
	CAJAMARCA/MAJ ARMANDO R.I.	SPJR	Y		Y	
	ILO	SPLO	Y		Y	
	JUANJUI	SPJI	Y		Y	
	PUERTO MALDONADO/PADRE ALDAMIZ	SPTU	Y		Y	
	TARAPOTO/C.GUILLEMO DEL CAST.	SPST	Y		Y	
	TINGO MARIA	SPGM	Y		Y	
	TUMBES/PEDRO CANGA	SPME	Y		Y	
United Kingdom						
	MOUNT PLEASANT/FALKLAND ISLAND	EGYP	Y	Y	Y	
Uruguay						
	DURAZNO/SANTA BERNARDINA	SUDU	Y		Y	

EUROPEAN (EUR) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Austria						
	WIENER NEUSTADT	LOAN	Y	¥	Y	
	ZELTWEG	LOXZ	Y	¥	Y	
Belarus						
	LIPKI	UMMI				
Bulgaria						
	GORNA/ORYAHOVITSA	LBGO	Y	¥	Y	
	PLOVDIV	LBPD	Y	¥	Y	
Czech Republic						
	KUNOVICE	LKKU	Y	¥	Y	SA/FC: during OPR hours
Denmark						
	KARUP	EKKA	Y	¥	Y	
	VOJENS/SKRYDSTRUP	EKSP	Y	¥	Y	
Finland						
	ENONTEKIO	EFET	Y	¥	Y	FC only on request
	HALLI	EFHA	Y	¥	Y	SA/FC: during OPR hours
	JOENSUU	EFJO	Y	¥	Y	SA/FC: during OPR hours
	JYVASKYLA	EFJY	Y	¥	Y	
	KAJAANI	EFKI	Y	¥	Y	SA/FC: during OPR hours
	KAUHAVA	EFKA	Y	¥	Y	SA/FC: during OPR hours
	KEMI/TORNIO	EFKE	Y	¥	Y	SA/FC: during OPR hours
	KITTILA	EFKT	Y	¥	Y	SA/FC: during OPR hours
	KOKKOLA-PIETARSAARI/KRUUNUPYY	EFKK	Y	¥	Y	SA/FC: during OPR hours
	KUOPIO	EFKU	Y	¥	Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	KUUSAMO	EFKS	Y	¥	Y	SA/FC: during OPR hours
	LAPPEENRANTA	EFLP	Y	¥	Y	SA/FC: during OPR hours
	MIKKELI	EFMI	Y	¥	Y	SA/FC: during OPR hours
	PORI	EFPO	Y	¥	Y	SA/FC: during OPR hours
	SAVONLINNA	EFSA	Y	¥	Y	SA/FC: during OPR hours
	SEINAJOKI	EFSI	Y	¥	Y	SA/FC: during OPR hours
	UTTI	EFUT	Y	¥	Y	SA/FC: during OPR hours
	VARKAUS	EFVR	Y	¥	Y	SA/FC: during OPR hours
France						
	AGEN/LA GARENNE	LFBA	Y	¥	Y	
	BERGERAC/ROUMANIERE	LFBE	Y	¥	Y	
	BEZIERS/VIAS	LFMU	Y	¥	Y	
	BOURGES	LFLD	Y	¥	Y	
	CARCASSONNE/SALVAZA	LFMK	Y	¥	Y	
	CHATEAUROUX/DEOLS	LFLX	Y	¥	Y	
	COGNAC/CHATEAUBERNARD	LFBG	Y	¥	Y	
	DIJON/LONGVIC	LFSD	Y	¥	Y	
	EVREUX/FAUVILLE	LFOE	Y	¥	Y	
	FIGARI/SUD CORSE	LFKF	Y	¥	Y	
	HYERES/LE PALYVESTRE	LFTH	Y	¥	Y	
	ISTRES/LE TUBE	LFMI	Y	¥	Y	
	LE MANS/ARNAGE	LFRM	Y	¥	Y	
	LIMOGES/BELLEGARDE	LFBL	Y	¥	Y	
	LORIENT/LANN BIHOUE	LFRH	Y	¥	Y	
	METZ/NANCY LORRAINE	LFJL	Y	¥	Y	
	NEVERS/FOURCHAMBAULT	LFMN	Y		Y	
	RODEZ/MARCILLAC	LFCR	Y	¥	Y	
	ROUEN/VALLEE DE SEINE	LFOP	Y	¥	Y	
	TROYES/BARBEREY	LFQB	Y	¥	Y	
	VICHY/CHARMEIL	LFLV	Y	¥	Y	
Georgia						
	KUTAISI KOPITNARI	UGKO	Y	¥	Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	<i>BATUMI</i>	UGSB	Y		Y	
Greece						
	<i>KARPATHOS</i>	LGKP	Y	¥	Y	
	<i>KITHIRA</i>	LGKC	Y	¥	Y	
	<i>MIKONOS</i>	LGMK	Y		Y	
	<i>PREVEZA/AKTION</i>	LGPZ	Y	¥	Y	
Hungary						
	<i>DEBRECEN</i>	LHDC	Y	¥	Y	FC: only on request
	<i>PECS/POGANY</i>	LHPP	Y		Y	
	<i>SZEGED</i>	LHUD	Y		Y	
	<i>TASZAR</i>	LHTA	Y	¥	Y	
Italy						
	<i>AMENDOLA</i>	LIBA	Y	¥	Y	
	<i>AVIANO</i>	LIPA	Y	¥	Y	
	<i>CAMERI</i>	LIMN	Y	¥	Y	
	<i>CERVIA</i>	LIPC	Y	¥	Y	
	<i>CROTONE</i>	LIBC	Y	¥	Y	
	<i>DECIMOMANNU</i>	LIED	Y	¥	Y	
	<i>FERRARA</i>	LIPF	Y	¥	Y	
	<i>FOGGIA/GINO LISA</i>	LIBF				
	<i>FROSINONE</i>	LIRH	Y	¥	Y	
	<i>GALATINA/LECCE</i>	LIBN	Y	¥	Y	
	<i>GHEDI MIL</i>	LIPL	Y	¥	Y	
	<i>GIOIA DEL COLLE</i>	LIBV	Y	¥	Y	
	<i>GRAZZANISE</i>	LIRM	Y	¥	Y	
	<i>GROSSETO</i>	LIRS	Y	¥	Y	
	<i>GUIDONIA</i>	LIRG	Y	¥	Y	
	<i>LAMPEDUSA</i>	LICD	Y	¥	Y	
	<i>LATINA</i>	LIRL	Y	¥	Y	
	<i>MILANO/BRESSO</i>	LIMB				
	<i>NOVI LIGURE</i>	LIRM				
	<i>PIACENZA</i>	LIMS	Y	¥	Y	
	<i>PRATICA DI MARE</i>	LIRE	Y	¥	Y	
	<i>RIVOLTO MIL</i>	LIPI	Y	¥	Y	
	<i>SARZANA</i>	LIQW	Y	¥	Y	
	<i>TARANTO/GROTTAGLIE</i>	LIBG	Y	¥	Y	
	<i>VICENZA</i>	LIPT	Y	¥	Y	
	<i>VITERBO</i>	LIRV	Y	¥	Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Kazakhstan	URALSK	UARR	Y	¥	Y	
Netherland	DEN HELDER/DE KOOY	EHKD	Y	¥	Y	
	EINDHOVEN	EHEH	Y	¥	Y	
	ENSCHÈDE/TWENTHE	EHTW	Y	¥	Y	
	LEIDEN/VALKENBURG	EHVB	Y	¥	Y	
Norway	ANDOYA	ENAN	Y		Y	
	BARDUFOSS	ENDU	Y	¥	Y	
	BERLEVÅG	ENBV	Y		Y	SA: during OPR hours
	BRONNOSUND	ENBN	Y	¥	Y	SA/FC: during OPR hours
	FAGERNES/LEIRIN	ENFG	Y	¥	Y	SA/FC: during OPR hours
	FLORO	ENFL	Y	¥	Y	SA/FC: during OPR hours
	GEILO/DAGALI	ENDI				
	HAMMERFEST	ENHF	Y	¥	Y	SA/FC: during OPR hours
	HAUGESUND/KARMOY	ENHD	Y	¥	Y	SA/FC: during OPR hours
	KRISTIANSUND/KVERNBERGET	ENKB	Y	¥	Y	
	LISTA	ENLI	Y	¥	Y	
	NOTODDEN	ENNO	Y	¥	Y	
	ROEROS	ENRO	Y	¥	Y	SA/FC: during OPR hours
	RYGGE	ENRY	Y	¥	Y	SA/FC: during OPR hours
	SVOLVEAR/HELLE	ENSH	Y	¥	Y	SA/FC: during OPR hours
Russian Federation	BARNAUL	UNBB	Y	¥	Y	
	KHATANGA	UOHH	Y		Y	
	MIRNY	UERR	Y	¥	Y	
	NADYM	USMM				

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	NARYAN MAR	ULAM				
	<i>NERYUNGRI CHULMAN</i>	UELL	Y	¥	Y	
	<i>NIKOLAYEVSK-NA-AMURE</i>	UHNN	Y		Y	
	<i>NIZHNEVARTOVSK</i>	USNN	Y	¥	Y	
	<i>NORILSK ALYKEL</i>	UOOO	Y	¥	Y	
	<i>NOVOKUZNETSK</i>	UNWW	Y		Y	
	PECHORA	UUYP				
	<i>PEVEK</i>	UHMP	Y		Y	
	<i>POLYARNY</i>	UERP	Y	¥	Y	
	<i>SALEKHARD</i>	USDD	Y		Y	
	<i>TIKSI</i>	UEST	Y		Y	
	TURA	UNIT				
	TURUKHANSK	UOTT				
Serbia						
	<i>NIS</i>	LYNI	Y	¥	Y	
	<i>PRISTINA</i>	LYPR	Y	¥	Y	
Spain						
	<i>BADAJOZ/TALAVERA LA REAL</i>	LEBZ	Y	¥	Y	
	<i>CORDOBA</i>	LEBA	Y	¥	Y	
	<i>LEON</i>	LELN	Y		Y	
	<i>MADRID/TORREJON</i>	LETO	Y	¥	Y	
	<i>PAMPLONA</i>	LEPP	Y	¥	Y	
Sweden						
	<i>GÄLLIVARE</i>	ESNG	Y	¥	Y	SA/FC: during OPR hours
	<i>HALMSTAD</i>	ESMT	Y	¥	Y	SA/FC: during OPR hours
	<i>KRAMFORS SOLLEFTEA</i>	ESNK	Y	¥	Y	SA/FC: during OPR hours
	<i>LJUNGBYHED</i>	ESTL	Y	¥	Y	SA/FC: during OPR hours
	<i>LYCKSELE</i>	ESNL	Y		Y	SA: during OPR hours
	<i>MORA SILJAN</i>	ESKM	Y	¥	Y	SA/FC: during OPR hours
	<i>ORNSKOLDSVIK</i>	ESNO	Y	¥	Y	SA/FC: during OPR hours
	<i>STORUMAN</i>	ESUD	Y			SA: during OPR hours

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Tajikistan	KHUDZHAND	UTDL	Y	¥	Y	
Turkey	BATMAN	LTCJ	Y	¥	Y	Only FT 12-12
	BURSA/YENISEHIR	LTBR	Y	¥	Y	
	ELAZIG	LTCA				
	BATMAN	LTCJ				
	GAZIANTEP/OGUZELI	LTAJ	Y	¥	Y	
	ISPARTA/SÜLEYMAN DEMIREL	LTFC	Y	¥	Y	
	KARS	LTCF	Y	¥	Y	
	NEVSEHIR/KAPADOKYA	LTAZ	Y	¥	Y	
	SAMSUN CARSAMBA	LTFH	Y	¥	Y	
	TEKIRDAG/CORLU	LTBU	Y	¥	Y	
	VAN/FERIT MELEN	LTCI	Y	¥	Y	
United Kingdom	ALDERNEY	EGJA	Y	¥	Y	
	BENBECULA	EGPL	Y	¥	Y	
	BRISTOL/FILTON	EGTG	Y	¥	Y	
	BRIZE NORTON	EGVN	Y		Y	
	CAMBRIDGE	EGSC	Y	¥	Y	
	CAMPBELTOWN	EGEC	Y	¥	Y	
	CARLISLE	EGNC	Y	¥	Y	
	COVENTRY	EGBE	Y	¥	Y	
	CRANFIELD	EGTC	Y	¥	Y	
	DONCASTER/SHEFFIELD	EGCN	Y	¥	Y	
	DUNDEE	EGPN	Y	¥	Y	
	FARNBOROUGH	EGLF	Y	¥	Y	
	GLOUCESTERSHIRE	EGBJ	Y	¥	Y	
	HAWARDEN	EGNR	Y	¥	Y	
	INVERNESS	EGPE	Y	¥	Y	
	ISLAY	EGPI	Y	¥	Y	
	LONDONDERRY EGLINTON	EGAE	Y		Y	
	LYNEHAM	EGDL	Y		Y	
	MANSTON	EGMH	Y	¥	Y	
	MILDENHALL	EGUN	Y		Y	
	NORTHOLT	EGWU	Y		Y	
	SCATSTA	EGPM	Y	¥	Y	
	SCILLY ISLES	EGHE	Y	¥	Y	

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
	<i>ST. MAWGAN</i>	EGDG	Y		Y	
	<i>STORNOWAY</i>	EGPO	Y	¥	Y	
	<i>TIREE</i>	EGPU	Y	¥	Y	
	<i>WICK</i>	EGPC	Y	¥	Y	
Uzbekistan						
	<i>FERGANA</i>	UTKF				
	<i>KARSHI</i>	UTSK	Y		Y	
	<i>NUKUS</i>	UTNN	Y		Y	

MIDDLE EAST (MID) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Iran (Islamic Republic of)						
	<i>ABADAN</i>	OIAA	Y	¥	Y	
	<i>UROMIYEH</i>	OITR	Y		Y	
Iraq						
	<i>KIRKUK</i>	ORKK	Y		Y	
	<i>MOSUL</i>	ORBM	Y		Y	
Israel						
	<i>BEER SHEBA-TEYMAN</i>	LLBS	Y	¥	Y	
Saudi Arabia						
	<i>AL-AHSA</i>	OEAH	Y		Y	
	<i>HAIL</i>	OEHL	Y		Y	
	<i>JAZAN/PRINCE ABDULLAH BIN ABD.</i>	OEGN	Y	¥	Y	
	<i>TABUK</i>	OETB	Y	¥	Y	
	<i>TAIF</i>	OETF	Y		Y	
	<i>YENBO</i>	OEYN	Y	¥	Y	
Yemen						
	<i>SAYUN</i>	OYSY	Y		Y	

NORTH AMERICA (NAM) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	A	F C	F T	Remark
Canada							
	DAWSON CREEK	CYDQ					
	<i>INUVIK/MIKE ZUBKO</i>	CYEV	Y	¥	Y		
	LUPIN	CYWQ					
	QUESNEL	CYQZ	Y		Y		
	RANKIN INLET	CYRT	Y		Y		
	RED DEER REGIONAL	CYQF	Y		Y		
	RED LAKE	CYRL	Y		Y		
	REGINA INTL SK	CYQR	Y		Y		
	REPULSE BAY	CYUT	Y		Y		
	RESOLUTE BAY	CYRB	Y		Y		
	RIVIERE DU LOUP	CYRI					
	SACHS HARBOUR	CYSY	Y		Y		
	SANDSPIT	CYZP	Y		Y		
	SARNIA/CHRIS HADFIELD	CYRZ	Y		Y		
	SAULT STE. MARIE	CYAM	Y		Y		
	SEPT-ILES	CYZV	Y		Y		
	SIOUX LOOKOUT	CYXL	Y		Y		
	SLAVE LAKE	CYZH	Y		Y		
	SMITHERS	CYYD	Y		Y		
	ST. ANTHONY	CYAY	Y		Y		
	ST. CATHARINES	CYSN	Y		Y		
	STONY RAPIDS	CYSF	Y		Y		
	SUDBURY	CYSB	Y		Y		
	SWIFT CURRENT	CYYN	Y		Y		
	TALOYOAK	CYYH	Y		Y		
	TASIUJAQ	CYTQ	Y		Y		
	TERRACE	CYXT	Y		Y		
	TERRACE BAY	CYTJ	Y		Y		
	THE PAS	CYQD	Y		Y		
	THOMPSON	CYTH	Y		Y		
	TIMMINS	CYTS	Y		Y		
	TOFINO	CYAZ	Y		Y		
	TORONTO BUTTONVILLE MUNI	CYKZ	Y		Y		
	TORONTO CITY CENTRE	CYTZ	Y		Y		
	TUKTOYAKTUK	CYUB	Y		Y		
	WATSON LAKE	CYQH	Y		Y		

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S	A				Remark
			S	A	/	F	F	
			P	C	T			
	WAWA	CYXZ	Y			Y		
	WIARTON	CYVV	Y			Y		
	WILLIAMS LAKE	CYWL	Y			Y		
	YARMOUTH	CYQI	Y			Y		
	YORKTON MUNI	CYQV	Y			Y		
	SAINT PIERRE	LFVP	Y	Y		Y		
United States								
	ASHEVILLE	KAFL	Y			Y		
	ATLANTA/DE PEACHTREE	KALB-KPDK						
	AUGUSTA STATE	KAUG	Y			Y		
	BARSTOW DAGGETT	KDAG	Y			Y		
	BAUDETTE INTL	KBDE	Y			Y		
	BEDFORD/LAURENCE G.HANSCOM FLD	KBED	Y			Y		
	BEMIDJI BELTRAMI CO AIRPORT	KBJI	Y			Y		
	BEVERLY	KBVY	Y			Y		
	BISHOP	KBIH	Y			Y		
	BLYTHE	KBLH	Y			Y		
	BRUNSWICK GOLDEN ISLES	KBQK	Y			Y		
	CENTRAL WISCONSIN	KCWA	Y			Y		
	CHINA LAKE NAWS (ARMITAGE FLD)	KNID	Y			Y		
	CODY/YELLOWSTONE REGIONAL	KCOD	Y			Y		
	COEUR D ALENE AIR TERMINAL	KCOE	Y			Y		
	DALHART MUNI	KDHT	Y			Y		
	DEL RIO INTL	KDRT	Y			Y		
	DENVER/ARAPAHOE/CENTENNIAL	KAPA	Y			Y		
	DOUGLAS/BISBEE-DOUGLAS	KDUG	Y			Y		
	EDWARD F KNAPP STATE/BARRE	KMPV	Y			Y		
	ELY	KELY	Y			Y		
	FOUR CORNERS RGNL/FARMINGTON	KFMN	Y			Y		
	FT MYERS PAGE FLD	KFMY	Y			Y		
	HOULTON	KHUL	Y			Y		
	LANDER	KLND	Y			Y		
	LAWRENCE MUNI	KLWM	Y			Y		

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S	A				Remark
			S	A	F	F		
/	/	P	C	T				
	LEWISBURG/GREENBRIER VALLEY	KLWB	Y			Y		
	LEWISTON NEZ PERCE	KLWS	Y			Y		
	LOUISVILLE/BOWMAN FIELD	KLOU	Y			Y		
	LOVELOCK,DERBY FIELD	KLOL	Y			Y		
	MERCURY DESERT ROCK	KDRA	Y			Y		
	MORRISTOWN MUN	KMMU	Y			Y		
	MOSES LAKE/GRANT COUNTY INTL	KMWH	Y			Y		
	NEEDLES	KEED	Y			Y		
	NEW BEDFORD	KEWB	Y			Y		
	NEWBURGH/STEWART	KSWF	Y		X	30H TAF		
	NORTH KINGSTON/QUONSET STATE	KOQU	Y			Y		
	NORTH LAS VEGAS	KVGT	Y			Y		
	NORTH MYRTLE BEACH	KCRE	Y			Y		
	NORTHEAST PHILADELPHIA	KPNE	Y			Y		
	PASCO/TRI-CITIES	KPSC	Y			Y		
	PONTIAC OAKLAND CO INTL	KPTK	Y			Y		
	PORTLAND/HILLSBORO	KHIO	Y			Y		
	PORTLAND/TROUTDALE	KTTD	Y			Y		
	REDMOND/ROBERTS FIELD	KRDM	Y			Y		
	RENTON MUN	KRNT	Y			Y		
	RIVERTON	KRIW	Y			Y		
	SAN DIEGO/BROWN FIELD	KSDM	Y			Y		
	SAN LUIS VALLEY RGNL-BERGMAN F	KALS	Y			Y		
	SANTA FE	KSAF	Y			Y		
	SCHENECTADY	KSCH	Y			Y		
	SIDNEY-RICHLAND	KSDY	Y			Y		
	ST. PAUL/DOWNTOWN HOLMAN FIELD	KSTP	Y			Y		
	TONOPAH	KTPH	Y			Y		
	TRUCKEE-TAHOE	KTRK	Y			Y		
	TWEED NEW HAVEN	KHVN	Y			Y		
	UNIVERSITY PARK/STATE COLLEGE	KUNV	Y			Y		
	WENATCHEE PANGBORN MEM	KEAT	Y			Y		
	WILMINGTON AIRBORNE PARK	KILN	Y			Y		
	WINNEMUCCA	KWMC	Y			Y		

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S	A	I	S	F	F	Remark
			S	P	C	T	Y	Y	
	<i>WINSLOW</i>	KINW	Y				Y		

NORTH ATLANTIC (NAT) REGION

Listed in AOP Tables	Not Listed in AOP Tables	ICAO Location	S A / S P	F C	F T	Remark
Greenland (Denmark)						
	<i>ILULISSAT/JAKOBSHABVN</i>	BGJN	Y	¥	Y	
	<i>KULUSUK</i>	BGKK	Y	¥	Y	
	<i>NARSARSUAQ</i>	BGBW	Y	¥	Y	
	<i>NUUK/GODTHAB</i>	BGGH	Y	¥	Y	
Iceland						
	<i>HOFN/HORNAFFJOROUR</i>	BIHN	Y	¥	Y	
	<i>ISAFJÖDUR</i>	BIIS	Y	¥	Y	
	<i>SAUDARKROKUR/ALEXANDER</i>	BIKR	Y	¥	Y	
	<i>VESTMANNAEYHAR</i>	BIVM	Y	¥	Y	

— END —