



*International Civil Aviation Organization*

**FOURTEENTH MEETING OF THE  
COMMUNICATIONS/NAVIGATION/SURVEILLANCE  
AND METEOROLOGY SUB-GROUP OF  
APANPIRG (CNS/MET SG/14)**



Jakarta, Indonesia, 19 – 22 July 2010

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**Agenda Item 12: Implementation of the issuance of observation, TAF and OPMET exchanges**

**1) Review of OPMET/M TF/8 meeting**

**IATA OPMET Data Monitoring (SADIS)**

(Presented by IATA)

**SUMMARY**

This paper summarizes the results of an OPMET data monitoring for the ASIA/PAC Region with the focus on SADIS distribution.

This paper relates to:

**Strategic Objectives:**

- A. Safety – Enhance global civil aviation safety
- D. Efficiency – Enhance the efficiency of aviation operations

**Global Plan Initiatives:**

- GPI-18 Aeronautical Information
- GPI-19 Meteorological Systems

**1. Introduction**

1.1 Since SADIS/ISCS becomes operational in the 90's both systems became to a more and more reliable source of weather data. Beside the distribution of WAFS products it is used for broadcasting OPMET data. Basis for the data distribution via SADIS is the SADIS User Guide and the Annex 1 to this guide. This guide is now identical to the FASID Table MET 2A.

1.2 FASID Table MET 2A is now also the basis of the ISCS OPMET data transmission.

1.3 FASID Table MET 2A is now also the basis of the ISCS OPMET data transmission.

1.4 SADIS has the task to provide all necessary or requested weather data to aviation users so that SADIS can be considered as a single source of data for flight planning purposes.

1.5 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 are 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 weather data and products for aviation. Data like scheduled and non-scheduled OPMET data are depending on their availability and the user requirements.

2.2 The requirements for OPMET data described in FASID Table MET 2A have been revised several times over the last years. The current FASID Table MET 2A reflects the user requirements as well as the AOP table of the ICAO regions. The latest editions of the AOP tables are used.

2.3 The following table gives a brief overview about the current number of available airports providing OPMET data on SADIS from the ASIAPAC region. This statistic is based on information provided in FASID Table MET 2A dated February 2010 and on the result of IATA monitoring of the SADIS broadcast over period of 9 weeks (starting at 04<sup>th</sup> of January 2010). Due to a technical problem which caused erroneous results, IATA was not able to use newer monitoring results for this WP, but it is assumed that the results presented in this WP are still representative.

Aerodromes listed in FASID Table MET 2A	348 (+7)
AOP Aerodromes listed in FASID Table MET 2A	205 (-9)
AOP Aerodromes providing SA	179 (+47)
AOP Aerodromes providing FT	183 (-1)
AOP Aerodromes providing additionally FC (this is not according ICAO Annex 3)	14

2.4 The above table shows that 179 (87,3%) [2009: 132 (61,7%)] AOP aerodromes issue METAR (SA) and 183 (89,3%) [2009: 184 (86,0%)] AOP aerodromes issue TAF (FT) as requested. All other AOP aerodromes do not meet the users requirements (12,7%, 10,7%). States are obliged to issue METAR and TAF for AOP aerodromes unless the state notifies ICAO that no OPMET data are issued for that certain AOP aerodrome. Further details are listed in the Appendix to this WP.

2.5 There still 14 AOP aerodromes in the ASIAPAC region for which FC and FT are issued and distributed on SADIS. This is not required and also not according ICAO Annex 3.

2.6 IATA is requesting some efforts by the group to improve the availability of OPMET data for AOP aerodromes in the near future. The group may wish to formulate the following conclusion:

**Draft Conclusion 14/.... — Improvement of OPMET data availability for AOP aerodromes**

That ICAO be invited to

- a) continue the efforts to improve the availability of OPMET data for AOP aerodromes, and
- b) try to achieve the aim of 95% availability (METAR and TAF) of all possible AOP aerodromes on SADIS broadcast as soon as possible, and
- c) remind states concerned that only one type of TAF is allowed to be issued and transmitted (IATA requires only FT)

2.7 Since more and more Non-AOP aerodromes are used internationally IATA has formulated following general requirement for OPMET data in its IATA METTF/14 meeting:

**IATA Position:**

**All OPMET data currently available should be distributed. This does not mean modifying the airport status in the AOP table**

2.8 Non-AOP Aerodromes are widely used as en-route alternates 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.

2.9 The following table gives a brief overview about the current number of available airports providing OPMET data on SADIS from the ASIAPAC region. This statistic is based on information provided in FASID Table MET 2A dated February 2010 and on the result of IATA monitoring of the SADIS broadcast over period of 9 weeks (starting at 04<sup>th</sup> of January 2010).

Aerodromes listed in FASID Table MET 2A	348 (+7)
Non-AOP Aerodromes listed in FASID Table MET 2A	143 (+16)
Non-AOP Aerodromes providing SA	99 (+15)
Non-AOP Aerodromes providing FT	106 (+20)

Non-AOP Aerodromes providing additionally FC (this is not according ICAO Annex 3)	2

2.10 The above table shows that 99 (69,2,1%) [2009: 84 (66,1%)] Non-AOP aerodromes issue METAR (SA) and 106 (74,1%) [2009: 86 (67,7%)] Non-AOP aerodromes issue TAF (FT) as requested. All other AOP aerodromes do not meet the users requirements (30,8%, 25,9%). States are requested to issue and distribute METAR and TAF for Non-AOP aerodromes if available (details are listed in the Appendix to this WP).

2.11 There still 2 Non-AOP aerodromes in the ASIAPAC region for which FC and FT are issued and distributed on SADIS. This is not required and also not according ICAO Annex 3.

2.12 IATA is requesting some efforts by the group to improve the availability of OPMET data for Non-AOP aerodromes in the near future. The group may wish to formulate the following conclusion:

**Draft Conclusion 14/... — Improvement of OPMET data availability for Non-AOP aerodromes**

That ICAO be invited to

- a) continue the efforts to improve the availability of OPMET data for Non-AOP aerodromes listed in FASID Table MET 2A, and
- b) try to achieve the aim of 90% availability (METAR and TAF) of all listed Non-AOP aerodromes on SADIS broadcast as soon as possible, and
- c) remind states concerned that only one type of TAF is allowed to be issued and transmitted (IATA requires only FT)

2.13 There are further aerodromes in the ASIAPAC region which not listed in the FASID Table MET 2A. The IATA monitoring shows that OPMET data were found on the SADIS broadcast for some of these airports.

2.14 Non-AOP Aerodromes are widely used as en-route alternates 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.

2.15 The following table gives a brief overview about the current number of available airports providing OPMET data on SADIS from the ASIAPAC region. This statistic is based on

information provided in FASID Table MET 2A dated February 2010 and on the result of IATA monitoring of the SADIS broadcast over period of 9 weeks (starting at 04<sup>th</sup> of January 2010).

Aerodromes not listed in SUG1	773
Non-AOP-SUG Aerodromes providing SA	64
Non-AOP-SUG Aerodromes providing FT	24
Non-AOP-SUG Aerodromes providing additionally FC (this is not according ICAO Annex 3)	2
Non-AOP-SUG Aerodromes providing FC, but only FT is required	18

2.16 In the Appendix to this WP, details of the IATA monitoring of all aerodromes listed in SUG Annex 1 and broadcasted on SADIS are provided. These details not only pointing to missing data in the OPMET data exchange, but also indicating problems in the regularity of the OPMET data availability from the ASIAPAC region.

2.17 The IATA monitoring is performed on a daily basis. The Appendix contains detailed information about the availability and regularity of OPMET data from the ASIAPAC region. The Appendix contains three worksheets: AOP aerodromes, NON-AOP aerodromes and NON-AOP aerodromes not listed in FASID Table MET 2A. The following explanations of the columns will guide you through the tables:

<b>ICAO Location</b>	Airport location indicator
<b>SA, SP, FC, FT, FX</b>	if Y then OPMET data type is required (FC=TAF, FC=24H TAF, FX=30H TAF)
<b>AOP</b>	if Y then airport is listed in AOP table
<b>SUG</b>	if Y then airport is listed in SUG 1
<b>S</b>	<b>F - Full :</b> OPMET data as listed issued for the aerodrome all through the 24-hour period If hourly METARs are issued then a maximum number of 216 METARs can be received over 9 weeks If half-hourly METARs are issued then a maximum number of 432 METARs can be received over 9 weeks If FC are issued every 3 hours then a maximum number of 72 FC can be received over 9 weeks If FT are issued every 6 hours then a maximum number of 36 FT can be received over 9 weeks If FT are issued every 3 hours then a maximum number of 72 FT can be received over 9 weeks  <b>P - Partial :</b> OPMET data as listed not issued for the aerodrome for the entire 24-hour period In that case the maximum number of messages as described for full service cannot be reached  <b>N - None :</b> No OPMET data issued for the time being BLANK – not specified

**SA-MON, SA-TUE ..** Number of SA, FC, FT received on Monday, Tuesday ... over the last 9 weeks

2.18 How you can read and interpret the tables in the Appendix:

Example:

**NZAA, NZCH and NZWN** are providing full service over 24 hours. So it is expected that 216 METARs are received over the last 9 weeks. That is the case here and no deficiency is detected.

**AGGH** is also providing full service, but here the number of METARs is significantly below the expected.

**OPLA** is also providing full service, but the number of received METARs exceeds the maximum number of hourly METARs and is significant lower than the maximum number of half-hourly METARs.

This can have two reasons:

- a. there is no full service and the information provided in the FASID tables is wrong
- b. there is a problem in the provision or issuance of METARs

c. there is a communication problem

**RPLB** is only providing partial service. So number of received METARs must be lower than the maximum number of hourly METARs. The number of received METARs is nearly constant over the days, so it can be assumed that there is no communication problem, but no full service is established there.

ICAO	SA	SP	FC	FT	FX	AOP	SUG	S	SA-MON	SA-TUE	SA-WED	SA-THU	SA-FRI	SA-SAT	SA-SUN
AGGH	Y	Y		Y		Y	Y	F	141	153	138	113	128	120	119
ANYN	Y	Y		Y		Y	Y	F	0	0	0	0	0	0	0
AYPY	Y	Y		Y		Y	Y	F	88	72	88	63	59	52	76
AYVN	Y	Y				Y	Y	F	3	14	18	4	6	1	3
NVSS	Y	Y		Y		Y	Y	F	0	0	0	0	0	0	0
NVVV	Y	Y		Y		Y	Y	F	0	0	0	0	0	0	0
NWWW	Y	Y		Y		Y	Y	F	259	280	283	261	313	281	297
NZAA	Y	Y		Y		Y	Y	F	215	214	215	216	215	215	216
NZCH	Y	Y		Y		Y	Y	F	212	215	212	214	213	213	214
NZWN	Y	Y		Y		Y	Y	F	213	215	215	216	215	210	214
OPGD	Y	Y		Y		Y	Y	F	0	0	0	0	0	0	0
OPKC	Y	Y			Y	Y	Y	F	372	366	377	388	379	358	364
OPLA	Y	Y			Y	Y	Y	F	378	365	368	401	389	384	378
OPNH	Y	Y		Y		Y	Y	F	103	76	81	86	72	58	49
RPLB	Y	Y		Y		Y	Y	P	126	120	118	106	129	139	148

In general it can be assumed that the regularity is excellent if the received number of METAR/TAF from airports with full service differs not more than 15% from the maximum possible number (e.g. hourly METAR between 190 and 216).

### 3. Action by the group

#### 3.1 The group is invited

- a) to note results of the IATA OPMET data monitoring and information provided
- b) to use the result tables to improve the OPMET data exchange in general

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SCIP	Y	Y	Y	Y	Y	P	169	160	161	180	160	157	143	0	0	0	0	0	0	0	17	8	17	11	17	9	
VAAH	Y	Y		Y	Y	Y	F	406	357	386	392	400	409	402	36	34	29	35	34	34	33	4	18	19	11	25	29
VABB	Y	Y		Y	Y	Y	F	400	367	398	403	406	416	413	35	32	31	35	33	37	33	5	5	4	4	1	8
VANP	Y	Y	Y	Y	Y	F	113	119	128	161	161	171	168	2	2	2	1	0	2	4	2	2	1	8	2	6	9
VCBI	Y	Y		Y	Y	Y	F	203	212	205	207	203	207	212	0	0	0	0	0	0	0	36	36	36	36	33	37
VCCH	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VDPP	Y	Y	Y	Y	Y	P	299	277	304	268	298	306	309	0	0	0	0	0	0	0	0	35	35	34	27	34	31
VDSR	Y	Y	Y	Y	Y	P	243	246	252	274	244	258	250	0	0	0	0	0	0	0	0	33	33	34	27	35	26
VECC	Y	Y		Y	Y	Y	F	365	405	402	414	405	431	401	36	35	31	36	34	36	34	36	32	35	36	32	37
VEPT	Y	Y	Y	Y	Y	F	80	86	66	77	73	84	52	0	3	8	3	8	3	3	9	9	10	11	9	9	
VGEG	Y	Y	Y	Y	Y	F	132	151	144	162	159	153	147	0	0	0	0	0	0	0	27	27	24	29	29	29	
VGZR	Y	Y		Y	Y	Y	F	212	213	211	214	214	212	211	0	0	0	0	0	0	0	9	18	21	19	25	26
VHHH	Y	Y		Y	Y	Y	F	432	432	432	431	427	431	432	0	0	0	0	0	0	0	36	36	32	36	35	36
VIAR	Y	Y		Y	Y	Y	F	165	140	141	163	171	192	190	0	0	0	0	0	0	1	22	17	7	23	13	23
VIBN	Y	Y	Y	Y	Y	F	134	140	119	148	159	158	156	0	5	4	0	3	1	0	33	34	28	28	26	35	
VIDP	Y	Y		Y	Y	Y	F	419	393	400	401	413	424	420	36	33	31	33	32	36	35	11	14	15	12	24	21
VLVT	Y	Y	Y	Y	Y	P	207	208	213	201	193	165	205	0	0	0	0	0	0	0	18	18	19	17	18	16	
VMMC	Y	Y		Y	Y	Y	F	432	432	431	430	426	431	432	0	0	0	0	0	0	0	36	36	32	36	35	36
VNKT	Y	Y	Y	Y	Y	F	108	108	108	108	105	108	108	0	0	0	0	0	0	0	3	2	1	7	0	5	
VOCL	Y	Y		Y	Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	7	5	7	14	
VOMM	Y	Y		Y	Y	Y	F	409	378	393	410	408	413	412	0	0	0	0	1	0	0	33	29	29	34	31	37
VOTR	Y	Y	Y	Y	Y	F	212	209	225	241	235	253	264	0	0	0	0	1	0	0	25	23	25	25	24	28	
VOTV	Y	Y		Y	Y	Y	F	108	86	99	114	128	134	140	1	2	0	0	0	0	7	4	8	6	7	14	
VQPR	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VRMG	Y	Y	Y	Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	15	19	10	7	8	
VRMM	Y	Y		Y	Y	Y	F	216	216	214	216	214	216	212	0	0	0	0	0	0	0	21	15	18	10	7	10
VTBD	Y	Y		Y	Y	Y	F	430	432	429	430	428	430	432	0	0	0	0	0	0	0	36	36	35	36	36	35
VTBS	Y	Y		Y	Y	Y	F	430	430	430	430	426	430	432	0	0	0	0	0	0	0	28	36	34	36	35	35
VTBU	Y	Y	Y	Y	Y	F	414	413	425	414	414	426	414	0	0	0	0	0	0	0	35	34	35	32	33	37	
VTCC	Y	Y		Y	Y	Y	F	427	432	427	428	426	429	432	1	0	0	1	0	1	0	11	15	8	11	11	5
VTCT	Y	Y	Y	Y	Y	F	110	94	91	103	107	120	107	0	0	0	0	0	0	0	8	7	3	6	2	3	
VTTP	Y	Y	Y	Y	Y	P	125	119	118	112	126	129	120	0	0	0	0	0	0	0	2	4	8	2	1	4	
VTSP	Y	Y	Y	Y	Y	P	126	125	126	152	124	126	154	0	0	0	0	0	0	0	18	18	18	18	17	18	
VTSG	Y	Y	Y	Y	Y	F	97	80	86	81	98	98	94	0	0	0	0	0	0	0	32	10	2	32	10	12	
VTSP	Y	Y		Y	Y	Y	F	406	423	434	433	418	425	429	0	0	0	0	0	0	1	33	36	35	36	33	34
VTSS	Y	Y	Y	Y	Y	F	425	423	429	428	428	427	432	0	0	0	0	0	0	0	36	35	33	35	35	28	
VTUK	Y	Y	Y	Y	Y	P	128	126	126	125	132	124	132	0	0	0	0	0	0	0	10	8	9	2	8	17	
VTUU	Y	Y	Y	Y	Y	F	191	198	195	196	202	205	197	0	0	0	0	0	0	0	20	24	18	17	7	13	
VVDN	Y	Y	Y	Y	Y	F	388	407	402	419	396	410	398	0	0	0	0	0	0	0	36	36	34	36	35	36	
VVNB	Y	Y	Y	Y	Y	F	429	432	430	430	427	430	432	0	0	0	0	0	0	0	36	36	34	36	35	34	
VVPB	Y	Y	Y	Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VVTS	Y	Y		Y	Y	Y	F	429	432	430	429	424	427	431	0	0	0	0	0	0	0	33	28	35	34	30	37
VYYY	Y	Y	Y	Y	Y	F	157	124	131	120	155	131	130	0	0	0	0	0	0	0	25	28	25	25	27	26	
WAAA	Y	Y		Y	Y	Y	F	425	429	429	428	426	426	430	0	3	2	0	3	0	0	4	10	12	6	13	7
WABB	Y	Y		Y	Y	Y	F	46	45	44	38	32	29	20	0	0	0	0	0	0	28	16	19	26	19	33	
WABP	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WADD	Y	Y	Y	Y	Y	F	375	378	376	384	379	380	374	0	0	0	0	0	0	0	25	25	25	19	22	26	
WAJJ	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAKK	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WALL	Y	Y		Y	Y	Y	F	141	144	111	136	136	147	148	0	0	0	0	0	0	0	0	0	0	0	0	0
WALR	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAMM	Y	Y		Y	Y	Y	F	77	96	36	138	136	163	152	0	0	0	0	0	0	0	0	1	0	1	0	0
WAOO	Y	Y		Y	Y	F	100	86	42	92	61	100	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAPP	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WARR	Y	Y	Y	Y	Y	F	330	360	338	332	327	328	312	0	0	0	0	0	0	0	35	36	36	36	36	35	
WATT	Y	Y		Y	Y	F	16	0	7	34	15	10	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WBGG	Y	Y	Y	Y	Y	F	368	395	409	414	409	416	428	0	0	0	0	0	0	0	36	36	36	36	35	36	
WBKK	Y	Y	Y	Y	Y	F	372	395	413	410	411	417	424	0	0	0	0	0	0	0	36	36	36	36	35	36	
WBSB	Y	Y	Y	Y	Y	F	376	396	410	406	385	414	425	0	0	0	0	0	0	0	36	36	36	36	35	36	
WIBB	Y	Y		Y	Y	F	5	8	7	9	6	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIDD	Y	Y	Y	Y	Y	F	132	148	136	135	172	145	165	0	0	0	0	0	0	0	28	28	27	28	26	26	
WIDN	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIHH	Y	Y	Y	Y	Y	F	37	9	35	43	25	20	40	0	1	0	0	0	0	0	30	25	20	21	20	20	
WIII	Y	Y		Y	Y	Y	F	392	344	376	392	379	351	388	0	1	0	1	0	0	14	14	20	7	11	22	
WIMG	Y	Y		Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WIMM	Y	Y	Y	Y	Y	F	405	411	399	414	405	407	420	0	0	0	0	0	0	0	34	35	35	35	33	36	
WIOO	Y	Y		Y	Y	F	143	154	151	164	158	149	151	0	0	0	0	0									

YPDN	Y	Y	Y	Y	Y	F	429	422	428	421	420	421	424	0	0	0	0	0	0	0	0	35	33	31	34	34	29
YPPD	Y	Y	Y	Y	Y	F	426	429	427	427	426	423	428	0	0	0	0	0	0	0	0	36	36	34	33	34	36
YPPH	Y	Y	Y	Y	Y	F	429	421	428	425	421	416	424	0	0	0	0	0	0	0	0	36	34	34	36	34	35
YPTN	Y	Y	Y	Y	Y	F	423	421	429	422	420	398	414	0	0	0	0	0	0	0	0	33	32	33	35	35	32
YPXM	Y	Y	Y	Y	Y	F	202	203	211	206	205	211	212	0	0	0	0	0	0	0	0	36	34	24	32	35	35
YSNF	Y	Y	Y	Y	Y	F	429	422	428	421	417	415	421	0	0	0	0	0	0	0	0	32	31	31	35	34	36
YSSY	Y	Y	Y	Y	Y	F	431	429	426	426	425	417	426	0	0	0	0	0	0	0	0	33	36	28	35	28	25
ZBAA	Y	Y	Y	Y	Y	F	399	412	420	411	414	412	397	0	0	0	0	0	0	0	0	35	36	33	36	36	36
ZBHH	Y	Y	Y	Y	Y	F	216	215	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	31	36	35	36
ZBTJ	Y	Y	Y	Y	Y	F	401	412	424	411	416	411	399	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZBYN	Y	Y	Y	Y	Y	F	401	412	421	411	411	411	399	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZGGG	Y	Y	Y	Y	Y	F	400	416	421	411	413	411	399	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZGHA	Y	Y	Y	Y	Y	F	216	215	214	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	34	34	36
ZGKL	Y	Y	Y	Y	Y	F	216	216	216	216	215	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZGNN	Y	Y	Y	Y	Y	F	214	215	215	216	215	215	215	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZGSZ	Y	Y	Y	Y	Y	F	216	216	216	216	215	216	216	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZHHH	Y	Y	Y	Y	Y	F	216	215	216	214	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZJSY	Y	Y	Y	Y	Y	F	216	215	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	34	36
ZKPY	Y	Y	Y	Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	11	3	1	1
ZLLL	Y	Y	Y	Y	Y	F	216	215	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZLXY	Y	Y	Y	Y	Y	F	216	216	216	216	215	216	216	0	0	0	0	0	0	0	0	36	36	32	34	35	36
ZMUB	Y	Y	Y	Y	Y	F	319	314	371	369	346	361	379	55	57	53	64	62	62	64	23	30	23	25	23	36	
ZPPP	Y	Y	Y	Y	Y	F	216	216	216	216	215	216	216	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZSAM	Y	Y	Y	Y	Y	F	214	216	216	215	215	216	216	0	0	0	0	0	0	0	0	36	36	32	36	36	36
ZSFZ	Y	Y	Y	Y	Y	F	216	211	216	216	212	211	210	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZSHC	Y	Y	Y	Y	Y	F	366	374	393	378	384	377	373	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZSJN	Y	Y	Y	Y	Y	F	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	12	7	14	8	16	25
ZSNJ	Y	Y	Y	Y	Y	F	215	216	216	216	215	216	216	0	0	0	0	0	0	0	0	36	36	31	36	35	36
ZSOF	Y	Y	Y	Y	Y	F	216	215	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZSPD	Y	Y	Y	Y	Y	F	397	404	414	407	411	411	399	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZSQD	Y	Y	Y	Y	Y	F	216	216	216	216	215	207	208	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZSSS	Y	Y	Y	Y	Y	F	401	412	421	409	416	411	399	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZUCK	Y	Y	Y	Y	Y	F	216	215	216	216	213	216	215	0	0	0	0	0	0	0	0	36	35	32	36	35	36
ZUUU	Y	Y	Y	Y	Y	F	216	216	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZUXC	Y	Y	Y	Y	Y	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZWSH	Y	Y	Y	Y	Y	F	166	156	161	159	160	157	159	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZWWW	Y	Y	Y	Y	Y	F	401	412	421	408	412	408	398	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZYHB	Y	Y	Y	Y	Y	F	216	214	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	32	36	35	36
ZYTL	Y	Y	Y	Y	Y	F	410	425	429	413	421	423	421	0	0	0	0	0	0	0	0	36	36	33	36	36	36
ZYTX	Y	Y	Y	Y	Y	F	401	417	430	410	424	411	427	0	0	0	0	0	0	0	0	36	36	33	36	36	36

FT-SUN	Name	State	Region
14	HONIARA/HENDERSON	Solomon Islands	ASI
6	NAURU INTERNATIONAL	Nauru	ASI
2	PORT MORESBY	Papua New Guinea	ASI
0	VANIMO	Papua New Guinea	ASI
7	RAROTONGA INTL/COOK ISL.	Cook Islands	PAC
4	NADI INTL/FIJI	Fiji	PAC
5	SUVA/NAUSORI INTL	Fiji	PAC
6	NUKUALOFA/FUAMOTU	Tonga	PAC
4	VAVA U	Tonga	PAC
3	FUNAFUTI INTL	Tuvalu	PAC
12	TARAWA/BONRIKI INTL	Kiribati	PAC
10	NIUE INTL	Niue (New Zealand)	PAC
33	WALLIS/HIHIFO	Wallis and Futuna Is. (France)	PAC
0	PAGO PAGO INTL	American Samoa (United States)	PAC
28	PAPEETE/TAHITI-FAA	French Polynesia (France)	PAC
35	SANTO/PEKOA	Vanuatu	ASI
35	PORT VILA,VANATU	Vanuatu	ASI
16	NOUMEA/LA TONTOUTA	New Caledonia (France)	ASI
36	AUCKLAND/INTL	New Zealand	ASI
36	CHRISTCHURCH/INTL	New Zealand	ASI
36	WELLINGTON/INTL	New Zealand	ASI
3	GWADAR	Pakistan	ASI
6	KARACHI INTL	Pakistan	ASI
3	LAHORE INTL	Pakistan	ASI
4	NAWABSHAH	Pakistan	ASI
6	PESHAWAR	Pakistan	ASI
8	ISLAMABAD	Pakistan	ASI
0	COLD BAY	United States	PAC
0	ANCHORAGE / ELMENDORF AFB	United States	PAC
0	FAIRBANKS / EIELSON AFB	United States	PAC
0	FAIRBANKS INTL	United States	PAC
46	KING SALMON	United States	PAC
0	ANCHORAGE TED STEVENS INTL	United States	PAC
22	ROTA INTL	Northern Mariana Islands (United States)	PAC
34	FRANCISCO C.ADA/SAIPAN INTL	Northern Mariana Islands (United States)	PAC
0	GUAM/ANDERSON AFB	Guam (United States)	PAC
34	GUAM INTL AGANA	Guam (United States)	PAC
0	HONOLULU INTL	United States	PAC
0	KAHULUI	United States	PAC
0	HILO INTL	United States	PAC
34	MAJURO INTL (MARSHALL ISLAND)	Marshall Islands	PAC
3	CHRISTMAS ISLAND	Kiribati	PAC
34	CHUUK INTL	Micronesia (Federated States of)	PAC
21	POHNPEI INTL	Micronesia (Federated States of)	PAC
34	BABELTHUAP/KOROR	Palau	PAC
34	YAP INTL	Micronesia (Federated States of)	PAC
27	KAOHSIUNG INTERNATIONAL	China	ASI
27	TAIPEI/SUNGSHAN	China	ASI
26	TAIPEI/CHIANG KAI SHEK	China	ASI
36	TOKYO NEW INTL/NARITA	Japan	ASI
36	OSAKA/KANSAI INTL	Japan	ASI
36	SAPPORO/NEW CHITOSE	Japan	ASI
36	HAKODATE	Japan	ASI
36	FUKUOKA	Japan	ASI
36	KAGOSHIMA	Japan	ASI
36	OITA	Japan	ASI
36	KUMAMOTO	Japan	ASI
36	NAGASAKI	Japan	ASI
36	CHUBU CENTRAIR INT	Japan	ASI
36	HIROSHIMA	Japan	ASI
36	OKAYAMA	Japan	ASI
36	OSAKA/ITAMI	Japan	ASI
36	TAKAMATSU	Japan	ASI
36	NIIGATA	Japan	ASI
36	SENDAI	Japan	ASI
36	TOKYO INTL/HANEDA	Japan	ASI
36	MUAN	Republic of Korea	ASI
36	YANGYANG	Republic of Korea	ASI
37	JEJU	Republic of Korea	ASI
28	BUSAN/GIMHAE	Republic of Korea	ASI
37	SEOUL INCHEON INTL	Republic of Korea	ASI
37	SEOUL/GIMPO	Republic of Korea	ASI
28	DAEGU	Republic of Korea	ASI
29	CHONGJU	Republic of Korea	ASI
36	NAHA	Japan	ASI
2	SUBIC BAY/OLONGAPO	Philippines	ASI
3	LAOAG	Philippines	ASI
3	MANILA/NINOY AQUINO	Philippines	ASI
3	DAVAO/FRANCISCO BANGOY INTL.	Philippines	ASI
3	ZAMBOANGA	Philippines	ASI
3	LAPU LAPU/MACTAN INTL.	Philippines	ASI

8	ISLA DE PASCUA/MATAVERI	Easter I. (Chile)	PAC
30	AHMEDABAD	India	ASI
2	MUMBAI/CHHATRAPATI SHIVAJI INT	India	ASI
11	NAGPUR	India	ASI
34	COLOMBO / BANDARANAIKE INTL	Sri Lanka	ASI
0	MINNERYA -- HINGURAKGODA	Sri Lanka	ASI
31	PHNOM PENH	Cambodia	ASI
30	SIEM REAP	Cambodia	ASI
35	KOLKATA	India	ASI
10	PATNA	India	ASI
25	CHITTAGONG/SHAH AMANAT(RM)INTL	Bangladesh	ASI
29	DHAKA/ZIA INTL	Bangladesh	ASI
36	HONG KONG	Hong Kong (China)	ASI
11	AMRITSAR	India	ASI
27	VARANASI	India	ASI
26	DELHI/INDIRA GANDHI	India	ASI
19	VIENTIANE/WATTAY	Lao People's Democratic Republic	ASI
36	MACAU	Macao (China)	ASI
0	KATHMANDU/TRIBHUWAN	Nepal	ASI
9	CALICUT/KARIPUR	India	ASI
31	CHENNAI	India	ASI
25	TIRUCHIRAPPALLI	India	ASI
9	THIRUVANANTHAPURAM	India	ASI
0	PARO	Bhutan	ASI
12	GAN ISLAND/GAN	Maldives	ASI
12	MALE	Maldives	ASI
35	BANGKOK	Thailand	ASI
35	BANGKOK/SUVARNABHUMI INTL	Thailand	ASI
36	RAYONG U-TAPHAO	Thailand	ASI
4	CHIANG MAI	Thailand	ASI
4	CHIANG RAI INTL	Thailand	ASI
2	PHITSANULOK	Thailand	ASI
18	SURAT THANI	Thailand	ASI
19	KRABI	Thailand	ASI
34	PHUKET	Thailand	ASI
35	SONGKHLA/HAT YAI	Thailand	ASI
14	KHON KAEN	Thailand	ASI
17	UBON RATCHATHANI	Thailand	ASI
34	DANANG INTL	Viet Nam	ASI
36	HANOI/NOIBAI INTL	Viet Nam	ASI
0	HUE / PHUBAI	Viet Nam	ASI
35	HOCHIMINH/TANSONNHAT	Viet Nam	ASI
22	YANGON/MINGALADON	Myanmar	ASI
4	UJUNG PANDANG	Indonesia	ASI
26	BIAK	Indonesia	ASI
0	TIMIKA/MOSES KILANGIN	Indonesia	ASI
24	DENPASAR BALI/NGURAH RAI	Indonesia	ASI
0	JAYAPURA/SENTANI	Indonesia	ASI
0	MERAUKE	Indonesia	ASI
0	BALIKPAPAN	Indonesia	ASI
0	TARAKAN	Indonesia	ASI
0	MANADO	Indonesia	ASI
0	BANJARMASIN	Indonesia	ASI
0	AMBON/PATTIMURA	Indonesia	ASI
36	SURABAYA/JUANDA	Indonesia	ASI
0	EL TARI/KUPANG	Indonesia	ASI
36	KUCHING	Malaysia	ASI
36	KOTA KINABALU	Malaysia	ASI
36	BANDAR SERI BEGAWAN/BRUNEI	Brunei Darussalam	ASI
0	PEKANBARU	Indonesia	ASI
27	BATAM	Indonesia	ASI
0	TANJUNG PINANG	Indonesia	ASI
22	JAKARTA/HALIM PERDANA KASUMA	Indonesia	ASI
15	JAKARTA/SOEKARNO HATTA	Indonesia	ASI
0	PADANG/TABING	Indonesia	ASI
36	MEDAN	Indonesia	ASI
0	PONTIANAK	Indonesia	ASI
0	PALEMBANG	Indonesia	ASI
36	JOHOR BAHRU/SULTAN ISMAIL	Malaysia	ASI
36	KUALA LUMPUR SEPANG	Malaysia	ASI
35	LANGKAWI	Malaysia	ASI
36	PENANG	Malaysia	ASI
36	SINGAPORE/PAYA LEBAR	Singapore	ASI
36	SINGAPORE/SELETAR	Singapore	ASI
36	SINGAPORE/CHANGI	Singapore	ASI
31	ALICE SPRINGS	Australia	ASI
32	BRISBANE	Australia	ASI
24	CAIRNS	Australia	ASI
32	ROCKHAMPTON	Australia	ASI
33	TOWNSVILLE	Australia	ASI
32	HOBART	Australia	ASI
34	MELBOURNE	Australia	ASI
34	ADELAIDE	Australia	ASI
35	COCOS ISLANDS	Australia	ASI

33	DARWIN	Australia	ASI
36	PORT HEDLAND	Australia	ASI
35	PERTH INTL	Australia	ASI
30	KATHERINE/TINDAL	Australia	ASI
34	CHRISTMAS ISLAND	Australia	ASI
33	NORFOLK ISLAND	Australia	ASI
29	SYDNEY / KINGSFORD SMITH	Australia	ASI
36	BEIJING/CAPITAL	China	ASI
36	HOHHOT/BAITA	China	ASI
36	TIANJIN/BINHAI	China	ASI
36	TAIYUAN/WUSU	China	ASI
36	GUANGZHOU/BAIYUN	China	ASI
35	CHANGSHA/HUANGHUA	China	ASI
36	GUILIN/LIANGJIANG	China	ASI
36	NANNING/WUXU	China	ASI
37	SHENZHEN BAOAN	China	ASI
36	WUHAN/TIANHE	China	ASI
36	SANYA PHOENIX INTL	China	ASI
4	PYONGYANG/SUNAN	Democratic People's Republic of Korea	ASI
36	LANZHOU/ZHONGCHUAN	China	ASI
36	XI AN XIANYANG	China	ASI
32	ULAANBAATAR	Mongolia	ASI
37	KUNMING/WUJIABA	China	ASI
37	XIAMEN/GAOQI	China	ASI
37	FUZHOU	China	ASI
36	HANGZHOU/XIAOSHAN	China	ASI
21	JINAN/YAOQIANG	China	ASI
35	NANJING/LUKOU	China	ASI
36	HEFEI/LUOGANG	China	ASI
36	SHANGHAI PUDONG	China	ASI
37	QINGDAO / LIUTING	China	ASI
36	SHANGHAI HONGQIAO	China	ASI
35	CHONGGQING/JIANGBEI	China	ASI
35	CHENGDU/SHUANGLIU	China	ASI
0	XICHANG/QINGSHAN	China	ASI
36	KASHI	China	ASI
36	URUMQI/DIWOPU	China	ASI
36	HARBIN YANJIAGANG	China	ASI
36	DALIAN/ZHOUSHUIZI	China	ASI
36	SHENYANG/TAOXIAN	China	ASI

ICAO Location	A S					SA- MON	SA- TUE	SA- WED	SA- THU	SA- FRI	SA- SAT	SA- SUN	FC- MON	FC- TUE	FC- WED	FC- THU	FC- FRI	FC- SAT	FC- SUN	FT- MON	FT- TUE	FT- WED	FT- THU	FT- FRI	
	S	F	F	O	U																				
AYDU	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
AYGA	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
AYMD	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
AYMH	Y	Y	Y			0	10	15	13	12	0	5	0	0	0	0	0	0	0	0	0	0	0		
AYMO	Y	Y	Y			207	205	199	187	194	197	205	0	0	0	0	0	0	0	0	0	0	0		
AYNZ	Y	Y	Y			1	11	18	9	9	4	3	0	0	0	0	0	0	0	0	0	0	0		
AYWK	Y	Y				1	15	14	6	10	0	2	0	0	0	0	0	0	0	0	0	0	0		
OPFA	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
OPMT	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
OPPI	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
OPQT	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PABA	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PABE	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PABI	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PABR	Y	Y	Y			215	216	216	216	213	214	216	0	0	0	0	0	0	0	0	36	33	36	33	33
PABT	Y	Y	Y			215	216	216	216	213	216	216	0	0	0	0	0	0	0	0	35	33	36	33	33
PACV	Y	Y	Y			215	216	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	33	35	36
PACZ	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PADK	Y	Y		Y		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PADL	Y	Y	Y			480	473	485	479	481	487	502	0	0	0	0	0	0	0	0	36	35	33	35	36
PADQ	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PADU	Y	Y	Y			215	216	204	204	211	214	215	0	0	0	0	0	0	0	0	36	27	31	35	36
PAEH	Y	Y	Y			0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAEN	Y	Y	Y			215	216	216	216	212	216	216	0	0	0	0	0	0	0	0	36	36	33	35	36
PAFB	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAGA	Y	Y	Y			214	214	216	216	209	214	195	0	0	0	0	0	0	0	0	35	33	36	33	33
PAGK	Y	Y	Y			215	216	216	216	213	216	216	0	0	0	0	0	0	0	0	36	36	33	35	36
PAGY	Y	Y	Y			215	216	216	216	213	216	216	0	0	0	0	0	0	0	0	32	27	22	30	32
PAHO	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAIL	Y	Y	Y			215	216	216	216	212	216	216	0	0	0	0	0	0	0	0	36	33	33	35	36
PAJN	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAKT	Y	Y	Y			213	216	208	212	211	215	214	0	0	0	0	0	0	0	0	32	28	22	30	32
PALU	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAMC	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PANT	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAOM	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAOR	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAOT	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PASC	Y	Y	Y			215	214	215	214	213	216	216	0	0	0	0	0	0	0	0	41	36	38	38	33
PASI	Y	Y	Y			215	216	207	214	213	216	216	0	0	0	0	0	0	0	0	32	26	22	30	32
PASN	Y	Y	Y			0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PATA	Y	Y	Y			215	215	199	207	213	216	216	0	0	0	0	0	0	0	0	35	33	36	33	33
PATC	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PATK	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAUN	Y	Y	Y			647	647	645	646	641	647	648	0	0	0	0	0	0	0	0	35	28	36	33	33
PAVD	Y	Y	Y			647	647	645	646	641	647	648	0	0	0	0	0	0	0	0	36	36	33	35	36
PAYA	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGWT	Y	Y	Y			0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	18	19	19	19	16
PHJH	Y	Y	Y			105	113	96	101	100	108	119	0	0	0	0	0	0	0	0	11	16	17	15	15
PHKO	Y	Y	Y			0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PHLI	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PHMK	Y	Y	Y			216	216	218	221	213	216	227	0	0	0	0	0	0	0	0	19	25	33	25	32
PHNY	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PJON					Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKWA	Y	Y	Y			324	334	310	379	322	335	302	0	0	0	0	0	0	0	0	34	36	31	33	33
PMDY	Y	Y	Y			215	221	216	220	222	217	221	0	0	0	0	0	0	0	0	19	25	33	25	35
PTSA	Y	Y	Y			56	33	68	41	76	22	18	0	0	0	0	0	0	0	9	10	10	10	8	
PWAK	Y	Y		Y		211	208	215	203	204	211	213	0	0	0	0	0	0	0	0	0	0	0	0	
RKJJ	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RKJK	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	3	24	20
RKSO	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20	15	14	9
RPLC	Y	Y	Y			146	99	103	157	136	155	159	0	0	0	0	0	0	0	0	13	17	8	14	10
RPML	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	14	6	13	16
RPMR	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	14	7	13	16
RPVD	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	14	6	12	16
RPVP	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	14	6	13	16
VCCC	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VCCJ	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VEBS	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VIJP	Y	Y	Y			187	179	208	185	196	200	203	0	0	0	0	0	0	0	0	35	28	34	29	35
VILK	Y	Y	Y			205	208	196	202	207	211	211	0	0	0	0	0	0	0	0	34	33	36	29	35
VIPK	Y	Y	Y			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VOBL	Y	Y	Y			254	232	227	230	282	279	281	0	0	0	0	0	0	0	0	14	10	18	13	15
VOCI	Y	Y		Y		0	0	0	0	0	0	0	36	32	31	36	34	36	35	0	6	3	10	7	9
VO																									



FT- SAT	FT- SUN	Name	State	Region
0	0	DARU	Papua New Guinea	ASI
0	0	GOROKA	Papua New Guinea	ASI
0	0	MADANG	Papua New Guinea	ASI
0	0	MOUNT HAGEN	Papua New Guinea	ASI
0	0	MOMOTE	Papua New Guinea	ASI
0	0	NADZAB	Papua New Guinea	ASI
0	0	WEWAK	Papua New Guinea	ASI
0	0	FAISALABAD	Pakistan	ASI
0	0	MULTAN	Pakistan	ASI
0	0	PASNI	Pakistan	ASI
0	0	QUETTA	Pakistan	ASI
0	0	BARTER ISLAND	United States	PAC
0	0	BETHEL	United States	PAC
0	0	DELTA JUNCTION/FT GREELY ALLEN	United States	PAC
36	35	BARROW/WILEY POST WILL ROGERS	United States	PAC
36	35	BETTLES	United States	PAC
36	36	CORDOVA	United States	PAC
0	0	CAPE ROMANZOF	United States	PAC
0	0	ADAK	United States	PAC
36	36	DILLINGHAM	United States	PAC
0	0	KODIAK	United States	PAC
36	36	UNALASKA	United States	PAC
0	0	CAPE NEWENHAM	United States	PAC
36	36	KENAI MUNI	United States	PAC
0	0	FAIRBANKS/FT WAINWRIGHT	United States	PAC
36	35	EDWARD G. PITKA SR	United States	PAC
36	36	GULKANA	United States	PAC
35	34	SKAGWAY	United States	PAC
0	0	HOMER	United States	PAC
36	36	ILIAMNA	United States	PAC
0	0	JUNEAU	United States	PAC
35	34	KETCHIKAN	United States	PAC
0	0	CAPE LISBURNE	United States	PAC
0	0	MC GRATH	United States	PAC
0	0	ANNETTE ISLAND	United States	PAC
0	0	NOME	United States	PAC
0	0	NORTHWAY	United States	PAC
0	0	KOTZEBUE	United States	PAC
39	35	DEADHORSE	United States	PAC
35	34	SITKA ROCKY GUTIERREZ	United States	PAC
0	0	ST. PAUL ISLAND	United States	PAC
36	35	TANANA	United States	PAC
0	0	TIN CITY	United States	PAC
0	0	TALKEETNA	United States	PAC
36	36	UNALAKLEET	United States	PAC
36	36	VALDEZ PIONEER FIELD	United States	PAC
0	0	YAKUTAT	United States	PAC
18	19	TINIAN INTL	Northern Mariana Islands (United States)	PAC
15	14	KAPULA	United States	PAC
0	0	KONA INTERNATIONAL AT KEAHOLE	United States	PAC
0	0	LIHUE-KAUAI	United States	PAC
32	29	MOLOKAI	United States	PAC
0	0	LANAI	United States	PAC
0	0	JOHNSTON ATOLL	Johnston Atoll (United States)	PAC
36	34	KWAJALEIN ATOLL/BUCHOLZ AAF	Marshall Islands	PAC
32	29	MIDWAY HENDERSON FIELD	Midway Islands (United States)	PAC
0	10	KOSRAE	Micronesia (Federated States of)	PAC
0	0	WAKE ISLAND AAF	Wake Island (United States)	PAC
0	0	GWANGJU	Republic of Korea	ASI
14	15	GUNSAN	Republic of Korea	ASI
24	16	OSAN	Republic of Korea	ASI
17	1	CLARK INTL/ANGELES	Philippines	ASI
18	2	CAGAYAN DE ORO, MISAMIS ORIENTAL	Philippines	ASI
18	2	TAMBLER, GEN. SANTOS, SOUTH COTABATO	Philippines	ASI
18	2	DUMAGUETE/SIBULAN, NEGROS ORIENTAL	Philippines	ASI
17	2	PUERTO PRINCESA	Philippines	ASI
0	0	COLOMBO/RATMALANA	Sri Lanka	ASI
0	0	KANKESANTURAI/JAFFNA	Sri Lanka	ASI
0	0	BHUBANESWAR	India	ASI
36	36	JAIPUR	India	ASI
35	33	LUCKNOW	India	ASI
0	0	PATHANJOT	India	ASI
14	7	BANGALORE INTERNATIONAL AIRPORT, DEVENAHALLI, BANGALORE	India	ASI
13	9	COCHIN INTL HYDERABAD INTERNATIONAL AIRPORT (RAJIV GANDHI INTERNATIONAL AIRPORT	India	ASI
3	3	SHAMSHABAD, HYDERABD)	India	ASI
0	0	MAE HONG SON	Thailand	ASI
0	0	LAMPANG	Thailand	ASI
0	0	NAN	Thailand	ASI

0	0	PHRAE	Thailand	ASI
0	0	PHETCHABUN	Thailand	ASI
0	0	PRACHUAP KHIRI KHAN/HUA HIN	Thailand	ASI
0	0	TAK/MAE SOT	Thailand	ASI
0	0	SUKHOTHAI	Thailand	ASI
0	0	TAK/TAK	Thailand	ASI
18	18	NARATHIWAT	Thailand	ASI
17	18	CHUMPHON	Thailand	ASI
18	18	NAKHON SI THAMMARAT	Thailand	ASI
18	18	SONGKHLA	Thailand	ASI
18	18	PATTANI	Thailand	ASI
17	18	SURAT THANI/SAMUI	Thailand	ASI
18	18	RANONG	Thailand	ASI
18	18	TRANG	Thailand	ASI
17	14	UDON THANI	Thailand	ASI
10	15	SAKON NAKHON	Thailand	ASI
9	15	LOEI	Thailand	ASI
17	14	BURI RAM	Thailand	ASI
17	13	NAKHON RATCHASIMA	Thailand	ASI
18	14	ROI ET	Thailand	ASI
16	15	NAKHON PHANOM	Thailand	ASI
0	0	CAM RANH	Viet Nam	ASI
0	0	DIENBIEN	Viet Nam	ASI
0	0	DALAT /LIENKHUONG	Viet Nam	ASI
4	19	MANDALAY/INTERNATIONAL	Myanmar	ASI
0	0	SITTWE	Myanmar	ASI
0	0	MATARAM	Indonesia	ASI
0	0	YOGYAKARTA/ADI SUTJIPTO	Indonesia	ASI
0	0	SOLO	Indonesia	ASI
0	0	SORONG	Indonesia	ASI
35	35	BINTULU	Malaysia	ASI
35	35	MIRI	Malaysia	ASI
35	35	SIBU SARAWAK	Malaysia	ASI
35	35	LABUAN	Malaysia	ASI
35	35	SANDAKAN	Malaysia	ASI
35	35	TAWAU	Malaysia	ASI
35	35	ALOR SETAR	Malaysia	ASI
27	15	BUTTERWORTH	Malaysia	ASI
35	28	KOTA BHARU/SULTAN ISMAIL PETRA	Malaysia	ASI
25	25	KUANTAN	Malaysia	ASI
35	36	KERTEH	Malaysia	ASI
35	36	IPOH	Malaysia	ASI
35	35	MALACCA	Malaysia	ASI
35	36	KUALA TERENGGANU	Malaysia	ASI
36	36	KUALA LUMPUR/SUBANG	Malaysia	ASI
25	22	AMBERLEY	Australia	ASI
33	35	COOLANGATTA/GOLD COAST	Australia	ASI
36	35	BROOME	Australia	ASI
34	30	COFFS HARBOUR	Australia	ASI
36	31	CURTIN/DERBY	Australia	ASI
36	34	FORREST	Australia	ASI
29	24	HORN ISLAND	Australia	ASI
36	32	AVALON	Australia	ASI
33	35	LAUNCESTON	Australia	ASI
36	33	PEARCE	Australia	ASI
36	36	KALGOORLIE	Australia	ASI
36	36	LEARMONTH	Australia	ASI
34	32	WOOMERA	Australia	ASI
33	31	CANBERRA	Australia	ASI
35	34	DUBBO	Australia	ASI
33	19	RICHMOND (NSW)	Australia	ASI
23	18	WILLIAMTOWN	Australia	ASI
36	37	SHANTOU	China	ASI
36	37	HAIKOU/MEILAN	China	ASI
36	36	CHANGCHUN/DAFANGSHEN	China	ASI













CNS/MET SG/14-WP/28  
Attachment

VOTP	0	0	0	0	0	0	0	2	4	8	4	3	3	2	0	0	0	0	0	0	TIRUPATI	India	ASI
VOWA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	WARANGAL	India	ASI
VOYK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	YELAHANKA AFB	India	ASI
VQTU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	THIMBU	Bhutan	ASI
VRMH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HANIMAADHOO	Maldives	ASI
VRMK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KADHDHOO ISLAND	Maldives	ASI
VRMT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KAADEDHOO ISLAND	Maldives	ASI
VTBK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAKHON PATHOM/KAMPHAENG SAEN	Thailand	ASI
VTBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOP BURI/KHOK KATHIAM	Thailand	ASI
VTBO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TRAT/KHAO SMING	Thailand	ASI
VTBP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PRACHUAP KHIRIKHAN	Thailand	ASI
VTPI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAKHON SAWAN/TAKHLI	Thailand	ASI
VTPN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAKHON SAWAN	Thailand	ASI
VTPU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	UTTARADIT	Thailand	ASI
VTPY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TAK/KHUAN PHUMIPHON	Thailand	ASI
VTSN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAKHON SI THAMMARAT/CHA IAN	Thailand	ASI
VTUN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAKHON RATCHASIMA/KHORAT	Thailand	ASI
VVBH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BIEN HOA	Viet Nam	ASI
VVBM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BUONMETHUOT	Viet Nam	ASI
VVCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HAIPHONG / CATBI	Viet Nam	ASI
VVCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CAMLY	Viet Nam	ASI
VVCM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CAMAU	Viet Nam	ASI
VVCS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONSON	Viet Nam	ASI
VVGL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HANOI / GIALAM	Viet Nam	ASI
VVNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NASAN	Viet Nam	ASI
VVNT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NHATRANG	Viet Nam	ASI
VVPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PHUCAT	Viet Nam	ASI
VVPK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PLEIKU	Viet Nam	ASI
VVPQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PHUQUOC	Viet Nam	ASI
VVRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	RACHGIA	Viet Nam	ASI
VVTH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TUY HOA	Viet Nam	ASI
VV VH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VINH	Viet Nam	ASI
VVVT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VUNGTAU	Viet Nam	ASI
VYAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANN	Myanmar	ASI
VYBG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BAGAN	Myanmar	ASI
VYBM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BANMAW	Myanmar	ASI
VYCI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	COCO ISLAND	Myanmar	ASI
VYCZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MANDALAY/CHANMYATHAZI	Myanmar	ASI
VYDW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	DAWEI	Myanmar	ASI
VYHH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HEHO	Myanmar	ASI
VYKG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KENGTUNG	Myanmar	ASI
VYKL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KALAY	Myanmar	ASI
VYKP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KYAUKPYU	Myanmar	ASI
VYKT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	KAWTHOUNG	Myanmar	ASI
VYLK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LOIKAW	Myanmar	ASI
VYLS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LASHIO	Myanmar	ASI
VYLY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	LANYWA	Myanmar	ASI
VYME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MYEIK	Myanmar	ASI
VYMK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MYITKYINA	Myanmar	ASI
VYMM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MAWLAMYINE	Myanmar	ASI
VYMO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MOMEIK	Myanmar	ASI
VYMS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MONGHSAT	Myanmar	ASI
VYNP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MYITKYINA/NAMPONG	Myanmar	ASI
VYNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAMSANG	Myanmar	ASI
VYNT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NAYPYITAW	Myanmar	ASI
VYNU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NYAUNG U	Myanmar	ASI
VYPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	HPA-AN	Myanmar	ASI
VYPT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PUTAO	Myanmar	ASI
VYPY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PYAY	Myanmar	ASI
VYST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SHANTE	Myanmar	ASI
VYTD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	THANDWE/MAZIN	Myanmar	ASI
VYTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TACHILEK	Myanmar	ASI
VYTO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TAUNGOO	Myanmar	ASI
WADB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	BIMA	Indonesia	ASI
WADW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	WAINGAPU	Indonesia	ASI
WAJW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	WAMENA	Indonesia	ASI
WALK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TANJUNG REDEP/KALIMARU/BERAU	Indonesia	ASI
WALX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	MANGKAJANG	Indonesia	ASI
WAMG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	GORONTALO	Indonesia	ASI









