



**INTERNATIONAL CIVIL AVIATION ORGANIZATION**

**ASIA AND PACIFIC OFFICE**

**AFTN/ATSMHS ROUTING DIRECTORY**

**ASIA AND PACIFIC REGIONS**

**TWENTY – EIGHTH EDITION**

**JULY 2018**

**PREPARED BY THE ICAO ASIA AND PACIFIC REGIONAL OFFICE**

## EXPLANATORY NOTES

The Routing Directory is based on the existing AFTN circuits in the Asia and Pacific Regions.

### **I. Explanation of columns:**

- a) Column A contains destination AFTN routing indicators. These indicators employ the minimum number of characters to preclude ambiguity.
- b) Columns 1, 2, 3 etc. contain the location indicators of the originating/relaying AFTN COM centres/stations in the heading and the AFTN routing indicators in conjunction with the destination indicators.
- c) Primary Routing is indicated in the left-hand subdivision under each origin, in upper case letters.
- d) Alternate routing is indicated in the right-hand subdivision under each origin, in lower case letters.
- e) National and/or non-AFTN routing is indicated by the letter (N). Local arrangement for alternate routing is indicated by the letter n.

### **II. Explanation of Symbols:**

- A stations - stations in the "A" Aeronautical Fixed Service Routing Area (AFSRA) - Solomon Is., Nauru, and Papua New Guinea.
- AG stations - stations in Solomon Is.
- AN stations - stations in Nauru
- AY stations - stations in Papua New Guinea
- 
- B stations - stations in the "B" AFSRA - (Greenland, Iceland)
- C stations - stations in the "C" AFSRA - (Canada)
- D stations - stations in the "D" AFSRA - (West Africa)
- E stations - stations in the "E" AFSRA - (Europe)
- F stations - stations in the "F" AFSRA - (Central and South Africa)
- G stations - stations in the "G" AFSRA - (Coastal West Africa)
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- H stations - stations in the "H" AFSRA - (Coastal East Africa)
- HE stations - stations in the Arab Republic of Egypt
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- K stations - stations in the "K" AFSRA - (U.S.A.)
- L stations - stations in the "L" AFSRA - (Europe, Mediterranean)
- M stations - stations in the "M" AFSRA - (Caribbean, Central America)

2.

N stations - stations in the "N" AFSRA (South Pacific)  
NC stations - stations in Cook Is.  
NF stations - stations in Fiji  
NFT stations - stations in Tonga  
NG stations - stations in Kiribati  
NGF stations - stations in Tuvalu  
NI stations - stations in Niue Island  
NL stations - stations in Futuna and Wallis Islands  
NS stations - stations in Samoa  
NST stations - stations in American Samoa  
NT stations - stations in French Polynesia  
NV stations - stations in Vanuatu  
NW stations - stations in New Caledonia  
NZ stations - stations in New Zealand

O stations - stations in the "O" AFSRA - (Middle East)  
OA stations - stations in Afghanistan  
OB stations - stations in Bahrain  
OE stations - stations in Saudi Arabia  
OI stations - stations in Iran, Islamic Rep. of  
OJ stations - stations in Jordan  
OK stations - stations in Kuwait  
OL stations - stations in Lebanon  
OM stations - stations in United Arab Emirates  
OO stations - stations in Oman  
OP stations - stations in Pakistan  
OR stations - stations in Iraq  
OS stations - stations in Syria  
OT stations - stations in Qatar  
OY stations - stations in Yemen

P stations - stations in the "P" AFSRA - (North Pacific)  
PA stations - stations in Alaska  
PB stations - stations in Baker Is.  
PC stations - stations in Phoenix Is.  
PG stations - stations in Mariana Is. Guam  
PH stations - stations in Hawaii  
PJ stations - stations in Johnston Is.  
PK stations - stations in Marshall Is.  
PL stations - stations in Line Is.  
PM stations - stations in Midway Is.  
PT stations - stations in Federated State of Micronesia  
PW stations - stations in Wake Is.

R stations - stations in the "R" AFSRA - (West Pacific)  
RC stations - stations in China  
RJ stations - stations in Japan  
RK stations - stations in Republic of Korea  
RO stations - stations in Japan (Ryukyu Is.)  
RP stations - stations in the Philippines

3.

S	stations - stations in the "S" AFSRA - (South America)
SA	stations - stations in Argentina
SC	stations - stations in Chile
T	stations - stations in the "T" AFSRA - (North East Caribbean)
U	stations - stations in the "U" AFSRA - (Russian Federation)
UT	stations - stations in Uzbekistan
V	stations - stations in the "V" AFSRA - (East and West Asia)
VA	stations - stations in India (West)
VC	stations - stations in Sri Lanka
VD	stations - stations in Cambodia
VE	stations - stations in India (East)
VG	stations - stations in Bangladesh
VH	stations - stations in Hong Kong
VI	stations - stations in India (North)
VL	stations - stations in Lao People's Democratic Republic
VM	stations - stations in Macau
VN	stations - stations in Nepal
VO	stations - stations in India (South)
VQ	stations - stations in Bhutan
VR	stations - stations in Maldives
VT	stations - stations in Thailand
VV	stations - stations in Viet Nam
VY	stations - stations in Myanmar
W	stations - stations in the "W" AFSRA (Brunei, Indonesia, Malaysia, Singapore, Southern South East Asia)
WA	stations - stations in Indonesia (Eastern part of Indonesia)
WB	stations - stations in Malaysia (East)
WBA	stations - stations in Brunei
WBS	stations - stations in Brunei
WI	stations - stations in Indonesia (Western part of Indonesia)
WM	stations - stations in Malaysia (West)
WP	stations - stations in Timor Leste
WR	stations - stations in Indonesia (Middle part of Indonesia)
WS	stations - stations in Singapore
Y	stations - stations in "Y" AFSRA (Australia)
Z	stations - stations in the "Z" AFSRA (China, Dem. People's Rep. of Korea, Mongolia)
Z	stations (except ZK and ZM) - stations in China
ZK	stations - stations in Democratic People's Republic of Korea
ZM	stations - stations in Mongolia

**Note 1:** The names of the continents, areas and countries appearing in parentheses indicate broadly the geographical location of the AFSRAs. The chart contained in Doc 7910, shows the delineation of these AFSRAs.



## 5.

A	1		2		3		4		5		6	
ORIGIN DESTINATION	AGGG		ANAU		AYPM		KSLC		NCRG		NFFN	
AG	(N)	n	YB		YB		YB	nf	NZ		YB	ks
AN	YB		(N)	n	YB		YB	nf	NZ		YB	ks
AY	YB		YB		(N)	n	YB	nf	NZ		YB	ks
B	YB		YB		YB		(N)	n	NZ		KS	yb
C	YB		YB		YB		(N)	n	NZ		KS	yb
D	YB		YB		YB		(N)	n	NZ		YB	ks
E	YB		YB		YB		(N)	n	NZ		YB	ks
F	YB		YB		YB		(N)	n	NZ		YB	ks
G	YB		YB		YB		(N)	n	NZ		YB	ks
H	YB		YB		YB		(N)	n	NZ		YB	ks
K	YB		YB		YB		(N)	n	NZ		KS	yb
L	YB		YB		YB		(N)	n	NZ		YB	ks
M	YB		YB		YB		(N)	n	NZ		KS	yb
NC	YB		YB		YB		NZ	yb	(N)	n	YB	ks
NF (EX. NFT)	YB		YB		YB		NF	yb	NZ		(N)	n
NFT	YB		YB		YB		NZ	yb	NZ		YB	ks
NG (EX. NGF)	YB		YB		YB		NF	yb	NZ		NGT	n
NGF	YB		YB		YB		NF	yb	NZ		NGF	n
NI	YB		YB		YB		NZ	yb	NZ		YB	ks
NL	YB		YB		YB		NF	yb	NZ		NW	n
NS (EX. NST)	YB		YB		YB		NZ	yb	NZ		YB	ks
NST	YB		YB		YB		NST	n	NZ		KS	yb
NT	YB		YB		YB		NZ	yb	NZ		YB	ks
NV	YB		YB		YB		YB	nf	NZ		YB	ks
NW	YB		YB		YB		NF	yb	NZ		NW	yb
NZ	YB		YB		YB		NZ	yb	NZ		YB	ks
OA	YB		YB		YB		(N)	n	NZ		YB	ks
OB	YB		YB		YB		(N)	n	NZ		YB	ks
OE	YB		YB		YB		(N)	n	NZ		YB	ks
OI	YB		YB		YB		(N)	n	NZ		YB	ks
OJ	YB		YB		YB		(N)	n	NZ		YB	ks
OK	YB		YB		YB		(N)	n	NZ		YB	ks
OL	YB		YB		YB		(N)	n	NZ		YB	ks
OM	YB		YB		YB		(N)	n	NZ		YB	ks
OO	YB		YB		YB		(N)	n	NZ		YB	ks
OP	YB		YB		YB		RJ	yb	NZ		YB	ks
OR	YB		YB		YB		(N)	n	NZ		YB	ks
OS	YB		YB		YB		(N)	n	NZ		YB	ks
OT	YB		YB		YB		(N)	n	NZ		YB	ks
OY	YB		YB		YB		(N)	n	NZ		YB	ks
P	YB		YB		YB		(N)	n	NZ		KS	yb
RC	YB		YB		YB		RJ	yb	NZ		YB	ks
RJ,RO	YB		YB		YB		RJ	yb	NZ		YB	ks
RK	YB		YB		YB		RJ	yb	NZ		YB	ks
RP	YB		YB		YB		RJ	yb	NZ		YB	ks
S	YB		YB		YB		(N)	n	NZ		KS	yb
T	YB		YB		YB		(N)	n	NZ		KS	yb



## 7.

A	1		2		3		4		5		6	
ORIGIN DESTINATION	NFTF		NGFU		NGTT		NIUE		NSFA		NSTU	
AG	NZ		NF		NF		NZ		NZ		KS	
AN	NZ		NF		NF		NZ		NZ		KS	
AY	NZ		NF		NF		NZ		NZ		KS	
B	NZ		NF		NF		NZ		NZ		KS	
C	NZ		NF		NF		NZ		NZ		KS	
D	NZ		NF		NF		NZ		NZ		KS	
E	NZ		NF		NF		NZ		NZ		KS	
F	NZ		NF		NF		NZ		NZ		KS	
G	NZ		NF		NF		NZ		NZ		KS	
H	NZ		NF		NF		NZ		NZ		KS	
K	NZ		NF		NF		NZ		NZ		KS	
L	NZ		NF		NF		NZ		NZ		KS	
M	NZ		NF		NF		NZ		NZ		KS	
NC	NZ		NF		NF		NZ		NZ		KS	
NF (EX. NFT)	NZ		NF		NF		NZ		NZ		KS	
NFT	(N)	n	NF		NF		NZ		NZ		KS	
NG (EX. NGF)	NZ		NF		(N)	n	NZ		NZ		KS	
NGF	NZ		(N)	n	NF		NZ		NZ		KS	
NI	NZ		NF		NF		(N)	n	NZ		KS	
NL	NZ		NF		NF		NZ		NZ		KS	
NS (EX. NST)	NZ		NF		NF		NZ		(N)	n	KS	
NST	NZ		NF		NF		NZ		NZ		(N)	n
NT	NZ		NF		NF		NZ		NZ		KS	
NV	NZ		NF		NF		NZ		NZ		KS	
NW	NZ		NF		NF		NZ		NZ		KS	
NZ	NZ		NF		NF		NZ		NZ		KS	
OA	NZ		NF		NF		NZ		NZ		KS	
OB	NZ		NF		NF		NZ		NZ		KS	
OE	NZ		NF		NF		NZ		NZ		KS	
OI	NZ		NF		NF		NZ		NZ		KS	
OJ	NZ		NF		NF		NZ		NZ		KS	
OK	NZ		NF		NF		NZ		NZ		KS	
OL	NZ		NF		NF		NZ		NZ		KS	
OM	NZ		NF		NF		NZ		NZ		KS	
OO	NZ		NF		NF		NZ		NZ		KS	
OP	NZ		NF		NF		NZ		NZ		KS	
OR	NZ		NF		NF		NZ		NZ		KS	
OS	NZ		NF		NF		NZ		NZ		KS	
OT	NZ		NF		NF		NZ		NZ		KS	
OY	NZ		NF		NF		NZ		NZ		KS	
P	NZ		NF		NF		NZ		NZ		KS	
RC	NZ		NF		NF		NZ		NZ		KS	
RJ,RO	NZ		NF		NF		NZ		NZ		KS	
RK	NZ		NF		NF		NZ		NZ		KS	
RP	NZ		NF		NF		NZ		NZ		KS	
S	NZ		NF		NF		NZ		NZ		KS	
T	NZ		NF		NF		NZ		NZ		KS	



A	1		2		3		4		5		6	
ORIGIN DESTINATION	NTAA		NVVV		NWWW		NZCH		OPKC		PKMJ	
AG	NZ		YB		NF		YB	ks	VA	zb	KS	
AN	NZ		YB		NF		YB	ks	VA	zb	KS	
AY	NZ		YB		NF		YB	ks	VA	zb	KS	
B	NZ		YB		NF		KS	yb	OK	oi	KS	
C	NZ		YB		NF		KS	yb	OK	oi	KS	
D	NZ		YB		NF		YB	ks	OK	oi	KS	
E	NZ		YB		NF		YB	ks	OK	oi	KS	
F	NZ		YB		NF		YB	ks	OK	oi	KS	
G	NZ		YB		NF		YB	ks	OK	oi	KS	
H	NZ		YB		NF		YB	ks	OK	oi	KS	
K	NZ		YB		NF		KS	yb	OK	oi	KS	
L	NZ		YB		NF		YB	ks	OK	oi	KS	
M	NZ		YB		NF		KS	yb	OK	zb	KS	
NC	NZ		YB		NF		NC	n	VA	zb	KS	
NF (EX. NFT)	NZ		YB		NF		YB	ks	VA	zb	KS	
NFT	NZ		YB		NF		NFT	n	VA	zb	KS	
NG (EX. NGF)	NZ		YB		NF		YB	ks	VA	zb	KS	
NGF	NZ		YB		NF		YB	ks	VA	zb	KS	
NI	NZ		YB		NF		NI	n	VA	zb	KS	
NL	NZ		YB		NL		YB	ks	VA	zb	KS	
NS (EX. NST)	NZ		YB		NF		NS	n	VA	zb	KS	
NST	NZ		YB		NF		KS	yb	VA	zb	KS	
NT	(N)	n	YB		NF	nt	NT	n	VA	zb	KS	
NV	NZ		(N)	n	NF		YB	ks	VA	zb	KS	
NW	NZ	nw	YB		(N)	n	YB	ks	VA	zb	KS	
NZ	NZ		YB		NF		(N)	n	VA	zb	KS	
OA	NZ		YB		NF		YB	ks	OA	oi	KS	
OB	NZ		YB		NF		YB	ks	OK	oi	KS	
OE	NZ		YB		NF		YB	ks	OK	oi	KS	
OI	NZ		YB		NF		YB	ks	OI	ok	KS	
OJ	NZ		YB		NF		YB	ks	OK	oi	KS	
OK	NZ		YB		NF		YB	ks	OK	oi	KS	
OL	NZ		YB		NF		YB	ks	OK	oi	KS	
OM	NZ		YB		NF		YB	ks	OK	oi	KS	
OO	NZ		YB		NF		YB	ks	OK	oi	KS	
OP	NZ		YB		NF		YB	ks	(N)	n	KS	
OR	NZ		YB		NF		YB	ks	OI	ok	KS	
OS	NZ		YB		NF		YB	ks	OI	ok	KS	
OT	NZ		YB		NF		YB	ks	OK	oi	KS	
OY	NZ		YB		NF		YB	ks	OK	oi	KS	
P	NZ		YB		NF		KS	yb	VA	zb	(N)	n
RC	NZ		YB		NF		YB	ks	VA	zb	KS	
RJ,RO	NZ		YB		NF		YB	ks	VA	zb	KS	
RK	NZ		YB		NF		YB	ks	VA	zb	KS	
RP	NZ		YB		NF		YB	ks	VA	zb	KS	
S	NZ		YB		NF		KS	yb	OK	oi	KS	
T	NZ		YB		NF		KS	yb	OK	oi	KS	



A	1		2		3		4		5		6	
ORIGIN DESTINATION	PTKK		PTPN		PTRO		PTSA		PTYA		RCTP	
AG	KS		KS		KS		KS		KS		RP	vh
AN	KS		KS		KS		KS		KS		RP	vh
AY	KS		KS		KS		KS		KS		RP	vh
B	KS		KS		KS		KS		KS		VH	rp
C	KS		KS		KS		KS		KS		VH	rp
D	KS		KS		KS		KS		KS		RP	vh
E	KS		KS		KS		KS		KS		VH	rp
F	KS		KS		KS		KS		KS		RP	vh
G	KS		KS		KS		KS		KS		RP	vh
H	KS		KS		KS		KS		KS		RP	vh
K	KS		KS		KS		KS		KS		VH	rp
L	KS		KS		KS		KS		KS		VH	rp
M	KS		KS		KS		KS		KS		VH	rp
NC	KS		KS		KS		KS		KS		RP	vh
NF (EX. NFT)	KS		KS		KS		KS		KS		RP	vh
NFT	KS		KS		KS		KS		KS		RP	vh
NG (EX. NGF)	KS		KS		KS		KS		KS		RP	vh
NGF	KS		KS		KS		KS		KS		RP	vh
NI	KS		KS		KS		KS		KS		RP	vh
NL	KS		KS		KS		KS		KS		RP	vh
NS (EX. NST)	KS		KS		KS		KS		KS		RP	vh
NST	KS		KS		KS		KS		KS		RP	vh
NT	KS		KS		KS		KS		KS		RP	vh
NV	KS		KS		KS		KS		KS		RP	vh
NW	KS		KS		KS		KS		KS		RP	vh
NZ	KS		KS		KS		KS		KS		RP	vh
OA	KS		KS		KS		KS		KS		RP	vh
OB	KS		KS		KS		KS		KS		RP	vh
OE	KS		KS		KS		KS		KS		RP	vh
OI	KS		KS		KS		KS		KS		RP	vh
OJ	KS		KS		KS		KS		KS		RP	vh
OK	KS		KS		KS		KS		KS		RP	vh
OL	KS		KS		KS		KS		KS		RP	vh
OM	KS		KS		KS		KS		KS		RP	vh
OO	KS		KS		KS		KS		KS		RP	vh
OP	KS		KS		KS		KS		KS		RP	vh
OR	KS		KS		KS		KS		KS		RP	vh
OS	KS		KS		KS		KS		KS		RP	vh
OT	KS		KS		KS		KS		KS		RP	vh
OY	KS		KS		KS		KS		KS		RP	vh
P	(N)		(N)		(N)		(N)		(N)		VH	rp
RC	KS		KS		KS		KS		KS		(N)	n
RJ,RO	KS		KS		KS		KS		KS		RJ	vh
RK	KS		KS		KS		KS		KS		RJ	vh
RP	KS		KS		KS		KS		KS		RP	vh
S	KS		KS		KS		KS		KS		VH	rp
T	KS		KS		KS		KS		KS		VH	rp



A	1		2		3		4		5		6	
ORIGIN DESTINATION	RJJJ		RKSS		RPLL		UH HH		UUUU		VABB	
AG	WS	vh	RJ		WS	vh	UU	zb	RJ	n	VT	vc
AN	WS	vh	RJ		WS	vh	UU	zb	RJ	n	VT	vc
AY	WS	vh	RJ		WS	vh	UU	zb	RJ	n	VT	vc
B	KS	ws	RJ		VH	ws	UU	zb	BI	n	VT	vc
C	KS	ws	RJ		VH	ws	UU	zb	EG	n	VT	vc
D	WS	vh	RJ		WS	vh	UU	zb	LF	n	HK	vt
E	WS	vh	RJ		VH	ws	UU	zb	(N)	n	VT	vc
F	WS	vh	RJ		WS	vh	UU	zb	LF	n	HK	vt
G	WS	vh	RJ		WS	vh	UU	zb	LE	n	HK	vt
H	WS	vh	RJ		WS	vh	UU	zb	LG	n	HK	vt
K	KS	ws	RJ	zb	VH	ws	UU	zb	RJ	n	VT	vc
L	WS	vh	RJ		VH	ws	UU	zb	(N)	n	VT	vc
M	KS	ws	RJ		VH	ws	UU	zb	EG	n	VT	vc
NC	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NF (EX. NFT)	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NFT	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NG (EX. NGF)	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NGF	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NI	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NL	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NS (EX. NST)	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NST	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NT	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NV	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NW	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
NZ	KS	ws	RJ		WS	vh	UU	zb	RJ	n	VT	vc
OA	WS	vh	RJ		WS	vh	UU	n	LC	n	OP	vn
OB	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OE	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OI	WS	vh	RJ		WS	vh	UU	n	LC	n	OP	oo
OJ	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OK	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OL	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OM	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OO	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OP	WS	vh	RJ		WS	vh	UU	n	LC	n	OP	oo
OR	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OS	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OT	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
OY	WS	vh	RJ		WS	vh	UU	n	LC	n	OO	op
P	KS	ws	RJ		VH	ws	UU	zb	EG	n	VT	vc
RC	RC	vh	RJ		RC	vh	UU	zb	RJ	n	VT	vc
RJ,RO	(N)	n	RJ	zb	VH	rc	UU	zb	RJ	n	VT	vc
RK	RK	zb	(N)	n	VH	rc	UU	zb	RJ	n	VT	vc
RP	WS	vh	RJ		(N)	n	UU	zb	RJ	n	VT	vc
S	KS	ws	RJ		VH	ws	UU	zb	LE	n	VT	vc
T	KS	ws	RJ		VH	ws	UU	zb	EG	n	VT	vc



A	1		2		3		4		5		6	
ORIGIN DESTINATION	VCCC		VDPP		VECC		VGZR		VHHH		VIDD	
AG	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
AN	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
AY	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
B	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
C	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
D	WS	va	VT		VA	n	VT	va	VT	vvt	VA	n
E	WS	va	VT		VA	n	VT	va	VT	rj	VA	n
F	WS	va	VT		VA	vo	VT	va	VT	rp	VA	ve
G	WS	va	VT		VA	n	VT	va	VT	vvt	VA	n
H	WS	va	VT		VA	n	VT	va	VT	vvt	VA	n
K	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
L	WS	va	VT		VA	n	VT	va	VT	rj	VA	n
M	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
NC	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NF (EX. NFT)	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NFT	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NG (EX. NGF)	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NGF	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NI	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NL	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NS (EX. NST)	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NST	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NT	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NV	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NW	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
NZ	WS	va	VT		VA	vg	VT	va	VT	rp	VA	n
OA	VA	ws	VT		VA	n	VT	va	ZB	vt	VA	n
OB	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OE	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OI	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OJ	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OK	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OL	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OM	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OO	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OP	VA	ws	VT		VA	n	VT	va	ZB	vt	VA	n
OR	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OS	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OT	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
OY	WS	va	VT		VA	n	VT	va	VT	rp	VA	n
P	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
RC	WS	va	VT		VA	vg	VT	va	RC	rp	VA	n
RJ,RO	WS	va	VT		VA	vg	VT	va	RJ	rc	VA	n
RK	WS	va	VT		VA	vg	VT	va	RJ	zb	VA	n
RP	WS	va	VT		VA	vg	VT	va	RP	rc	VA	n
S	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n
T	WS	va	VT		VA	vg	VT	va	RJ	vt	VA	n



A	1		2		3		4		5		6	
ORIGIN DESTINATION	VLVT		VMCM		VNKT		VOMM		VQPR		VRMM	
AG	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
AN	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
AY	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
B	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
C	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
D	VT	vv	VH	zg	ZB	va	VA	wm	VA		VC	
E	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
F	VT	vv	VH	zg	ZB	va	VA	wm	VA		VC	
G	VT	vv	VH	zg	ZB	va	VA	wm	VA		VC	
H	VT	vv	VH	zg	ZB	va	VA	wm	VA		VC	
K	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
L	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
M	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
NC	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NF (EX. NFT)	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NFT	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NG (EX. NGF)	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NGF	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NI	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NL	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NS (EX. NST)	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NST	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NT	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NV	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NW	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
NZ	VT	vv	VH	zg	VA	zb	WM	va	VA		VC	
OA	VT	vv	VH	zg	VA	zb	VA	n	VA		VC	
OB	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OE	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OI	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OJ	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OK	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OL	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OM	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OO	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OP	VT	vv	VH	zg	ZB	va	VA	wm	VA		VC	
OR	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OS	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OT	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
OY	VT	vv	VH	zg	VA	zb	VA	wm	VA		VC	
P	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
RC	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
RJ,RO	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
RK	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
RP	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
S	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	
T	VT	vv	VH	zg	ZB	va	WM	va	VA		VC	



A	1		2		3		4		5		6	
ORIGIN DESTINATION	VTBB		VVTS		VVVV		VYYY		WBKK		WBSB	
AG	WS	wm	VT	vh	VVT		VT		WM		WS	wm
AN	WS	wm	VT	vh	VVT		VT		WM		WS	wm
AY	WS	wm	VT	vh	VVT		VT		WM		WS	wm
B	VH	ws	VH	vt	VVT		VT		WM		WS	wm
C	VH	ws	VH	vt	VVT		VT		WM		WS	wm
D	WS	va	VT	vh	VVT		VT		WM		WS	wm
E	LI	ws	VH	vt	VVT		VT		WM		WS	wm
F	WS	va	VT	vh	VVT		VT		WM		WS	wm
G	WS	va	VT	vh	VVT		VT		WM		WS	wm
H	WS	va	VT	vh	VVT		VT		WM		WS	wm
K	VH	ws	VH	vt	VVT		VT		WM		WS	wm
L	LI	ws	VH	vt	VVT		VT		WM		WS	wm
M	VH	ws	VH	vt	VVT		VT		WM		WS	wm
NC	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NF (EX. NFT)	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NFT	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NG (EX. NGF)	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NGF	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NI	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NL	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NS (EX. NST)	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NST	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NT	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NV	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NW	WS	wm	VT	vh	VVT		VT		WM		WS	wm
NZ	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OA	VA	ws	VT	vh	VVT		VT		WM		WS	wm
OB	WS	va	VT	vh	VVT		VT		WM		WS	wm
OE	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OI	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OJ	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OK	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OL	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OM	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OO	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OP	VA	ws	VT	vh	VVT		VT		WM		WS	wm
OR	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OS	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OT	WS	wm	VT	vh	VVT		VT		WM		WS	wm
OY	WS	wm	VT	vh	VVT		VT		WM		WS	wm
P	VH	ws	VH	vt	VVT		VT		WM		WS	wm
RC	VH	ws	VH	vt	VVT		VT		WM		WS	wm
RJ,RO	VH	ws	VH	vt	VVT		VT		WM		WS	wm
RK	VH	ws	VH	vt	VVT		VT		WM		WS	wm
RP	VH	ws	RP	vh	VVT		VT		WM		WS	wm
S	VH	ws	VH	vt	VVT		VT		WM		WS	wm
T	VH	ws	VH	vt	VVT		VT		WM		WS	wm



A	1		2		3		4		5		6	
ORIGIN DESTINATION	WIII		WMKK		WPDL		WSSS		YBBB		ZBBB	
AG	YB	ws	WS	vt	Y		YB	wi	AG	n	RJ	zg
AN	YB	ws	WS	vt	Y		YB	wi	AN	n	RJ	zg
AY	YB	ws	WS	vt	Y		YB	wi	AY	n	RJ	zg
B	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
C	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
D	YB	ws	WS	vt	Y		YB	vt	FA	ws	RJ	op
E	WS	yb	WS	vt	Y		EG	vt	WS	wi	RJ	zg
F	YB	ws	WS	vt	Y		YB	vt	FA	ws	RJ	op
G	YB	ws	WS	vt	Y		YB	vt	FA	ws	RJ	op
H	YB	ws	WS	vt	Y		YB	vt	FA	ws	RJ	op
K	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
L	WS	yb	WS	vt	Y		EG	vt	WS	wi	RJ	zg
M	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
NC	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
NF (EX. NFT)	YB	ws	WS	vt	Y		YB	wi	NF	nz	RJ	zg
NFT	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
NG (EX. NGF)	YB	ws	WS	vt	Y		YB	wi	NF	nz	RJ	zg
NGF	YB	ws	WS	vt	Y		YB	wi	NF	nz	RJ	zg
NI	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
NL	YB	ws	WS	vt	Y		YB	wi	NF	nz	RJ	zg
NS (EX. NST)	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
NST	YB	ws	WS	vt	Y		YB	wi	KS	nf	RJ	zg
NT	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
NV	YB	ws	WS	vt	Y		YB	wi	NV	n	RJ	zg
NW	YB	ws	WS	vt	Y		YB	wi	NF	nz	RJ	zg
NZ	YB	ws	WS	vt	Y		YB	wi	NZ	ks	RJ	zg
OA	WS	yb	VO	vt	Y		VC	vt	WS	wi	OP	vn
OB	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OE	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OI	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OJ	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OK	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OL	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OM	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OO	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OP	WS	yb	VT	ws	Y		VT	oo	WS	wi	OP	zg
OR	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OS	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OT	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
OY	WS	yb	WS	vt	Y		OB	vt	WS	wi	OP	zg
P	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
RC	WS	yb	WS	vt	Y		RJ	vt	WS	wi	RJ	zg
RJ,RO	WS	yb	WS	vt	Y		RJ	vt	WS	wi	RJ	zg
RK	WS	yb	WS	vt	Y		RJ	vt	WS	wi	RK	rj
RP	WS	yb	WS	vt	Y		RP	vt	WS	wi	VH	zg
S	YB	ws	WS	vt	Y		RJ	yb	KS	nf	RJ	zg
T	WS	yb	WS	vt	Y		RJ	yb	KS	nf	RJ	zg



A	1		2		3		4		5		6	
ORIGIN DESTINATION	ZGGG		ZJHK		ZKKK		ZMUB					
AG	VH	zb	VH	zg	ZB	n	ZB					
AN	VH	zb	VH	zg	ZB	n	ZB					
AY	VH	zb	VH	zg	ZB	n	ZB					
B	ZB	vh	ZG	vh	ZB	n	ZB					
C	ZB	vh	ZG	vh	ZB	n	ZB					
D	ZB	vh	ZG	vh	ZB	n	ZB					
E	VH	zb	VH	zg	ZB	n	ZB					
F	ZB	vh	VH	zg	ZB	n	ZB					
G	ZB	vh	ZG	vh	ZB	n	ZB					
H	ZB	vh	ZG	vh	ZB	n	ZB					
K	ZB	vh	ZG	vh	RK	zb	ZB					
L	VH	zb	VH	zg	ZB	n	ZB					
M	ZB	vh	ZG	vh	ZB	n	ZB					
NC	VH	zb	VH	zg	ZB	n	ZB					
NF (EX. NFT)	VH	zb	VH	zg	ZB	n	ZB					
NFT	VH	zb	VH	zg	ZB	n	ZB					
NG (EX. NGF)	VH	zb	VH	zg	ZB	n	ZB					
NGF	VH	zb	VH	zg	ZB	n	ZB					
NI	VH	zb	VH	zg	ZB	n	ZB					
NL	VH	zb	VH	zg	ZB	n	ZB					
NS (EX. NST)	VH	zb	VH	zg	ZB	n	ZB					
NST	VH	zb	VH	zg	ZB	n	ZB					
NT	VH	zb	VH	zg	ZB	n	ZB					
NV	VH	zb	VH	zg	ZB	n	ZB					
NW	VH	zb	VH	zg	ZB	n	ZB					
NZ	VH	zb	VH	zg	ZB	n	ZB					
OA	ZB	vh	ZG	vh	ZB	n	ZB					
OB	ZB	vh	ZG	vh	ZB	n	ZB					
OE	ZB	vh	ZG	vh	ZB	n	ZB					
OI	ZB	vh	ZG	vh	ZB	n	ZB					
OJ	ZB	vh	ZG	vh	ZB	n	ZB					
OK	ZB	vh	ZG	vh	ZB	n	ZB					
OL	ZB	vh	ZG	vh	ZB	n	ZB					
OM	ZB	vh	ZG	vh	ZB	n	ZB					
OO	ZB	vh	ZG	vh	ZB	n	ZB					
OP	ZB	vh	ZG	vh	ZB	n	ZB					
OR	ZB	vh	ZG	vh	ZB	n	ZB					
OS	ZB	vh	ZG	vh	ZB	n	ZB					
OT	ZB	vh	ZG	vh	ZB	n	ZB					
OY	ZB	vh	ZG	vh	ZB	n	ZB					
P	ZB	vh	ZG	vh	ZB	n	ZB					
RC	ZB	vh	VH	zg	ZB	n	ZB					
RJ,RO	ZB	vh	ZG	vh	RK	zb	ZB					
RK	ZB	vh	ZG	vh	RK	zb	ZB					
RP	VH	zb	VH	zg	ZB	n	ZB					
S	ZB	vh	ZG	vh	ZB	n	ZB					
T	ZB	n	ZG	vh	ZB	n	ZB					



**AFTN CIRCUITS - ASIA/PAC ROUTING DIRECTORY**

<b>Terminal 1</b>	<b>Terminal II</b>	<b>ATSMHS or AFTN</b>	<b>Over CRV (Y/N)</b>
<b>Apia/Faleolo</b>	Christchurch	AMHS/UA	
<b>Bangkok</b>	Beijing	AMHS	
	Mumbai	AMHS	
	Dhaka	AMHS	
	Ho-Chi-Minh	AFTN	
	Hong Kong	AMHS	
	Kuala Lumpur	AFTN	
	Phnom Penh	AMHS	
	Rome	AFTN	
	Yangon	AMHS	
	Singapore	AMHS	
	Vientiane	AMHS	
	Paro	AMHS	
<b>Beijing</b>	Bangkok	AMHS	
	Fukuoka	AFTN	
	Guangzhou	AFTN	
	Hong Kong	AMHS	
	Karachi	AFTN	
	Khavarosk	AFTN	
	Kathmandu	AFTN	
	Mumbai	AMHS	
	Pyongyang	AFTN	
	Seoul	AMHS	
	Ulaan Baatar	AFTN	
	Yangon	AFTN	
<b>Brisbane</b>	Christchurch	AMHS	
	Timor Leste		
	Jakarta	AFTN	
	Johannesburg	AFTN	
	Honiara		
	Nadi	AMHS	
	Nauru		
	Port Moresby		
	Port Vila		
	USA	AMHS	
<b>Brunei</b>	Kuala Lumpur		
	Singapore	AFTN	
<b>Chennai</b>	Mumbai	AFTN	
	Kolkata	AFTN	
	Kuala Lumpur	AFTN	
<b>Christchurch</b>	Apia/Faleolo	AMHS/UA	
	Niue	AMHS/UA	
	Rarotonga	AMHS/UA	

<b>Terminal 1</b>	<b>Terminal II</b>	<b>ATSMHS or AFTN</b>	<b>Over CRV (Y/N)</b>
	Brisbane Papeete/Tahiti Tonga/Fua' Amotu USA	AMHS AFTN AMHS/UA AMHS	
<b>Chuuk</b>	USA	AMHS/UA	
<b>Colombo</b>	Mumbai Male Singapore	AMHS AFTN AFTN	
<b>Delhi</b>	Mumbai Kolkata	AFTN AFTN	
<b>Dhaka</b>	Bangkok	AMHS	
<b>Fukuoka</b>	Beijing Hong Kong Moscow Seoul Singapore Taipei USA	AFTN AFTN AFTN AFTN AFTN AFTN AMHS	
<b>Guangzhou</b>	Beijing Hong Kong Macau Haikou Hanoi	AFTN AFTN AFTN AFTN AFTN	
<b>Hanoi</b>	Ho-Chi-Minh Vientiane Guangzhou	AFTN AFTN AFTN	
<b>Haikou</b>	Guangzhou Hong Kong	AFTN AFTN	
<b>Ho-Chi-Minh</b>	Bangkok Hanoi Hong Kong Singapore	AFTN AFTN AFTN AFTN	
<b>Hong Kong</b>	Bangkok Beijing Guangzhou Ho-Chi-Minh Macau Manila Haikou Taipei Fukuoka	AMHS AMHS AFTN AFTN AMHS AFTN AFTN AFTN AFTN	

<b>Terminal I</b>	<b>Terminal II</b>	<b>ATSMHS or AFTN</b>	<b>Over CRV (Y/N)</b>
<b>Honiara</b>	Brisbane	AMHS/UA	
<b>Jakarta</b>	Brisbane Singapore	AFTN AMHS	
<b>Karachi</b>	Beijing Mumbai Kabul Kuwait Tehran*	AFTN AMHS AFTN AMHS	
* Not listed in the ANP AFTN Planning Table			
<b>Kathmandu</b>	Beijing Mumbai	AFTN AMHS	
<b>Kolkata</b>	Mumbai Delhi Chennai	AFTN AFTN AFTN	
<b>Koro</b>	USA	AMHS/UA	
<b>Kosrae</b>	USA	AMHS/UA	
<b>Kuala Lumpur</b>	Bangkok Brunei Singapore Chennai	AFTN AFTN AFTN	
<b>Macau</b>	Guangzhou Hong Kong	AFTN AMHS	
<b>Majuro</b>	USA	AMHS/UA	
<b>Male</b>	Colombo	AFTN	
<b>Manila</b>	Hong Kong Ho Chi Minh Singapore Taibei	AFTN AFTN AFTN AFTN	
<b>Mumbai</b>	Bangkok Dhaka Kolkata Colombo Delhi Karachi Kathmandu Chennai Muscat/Seeb Nairobi	AMHS AMHS AFTN AMHS AFTN AMHS AMHS AFTN AFTN (No connection) AFTN	

<b>Terminal 1</b>	<b>Terminal II</b>	<b>ATSMHS or AFTN</b>	<b>Over CRV (Y/N)</b>
	Paro Singapore	AMHS AMHS	
<b>Nadi</b>	Brisbane Funafuti Noumea Tarawa USA Wallis Is.	AMHS AMHS AMHS/UA AMHS	
<b>Nauru</b>	Brisbane	AMHS/UA	
<b>Niue</b>	Christchurch	AMHS/UA	
<b>Noumea</b>	Nadi	AMHS	
<b>Pago Pago</b>	USA	AMHS/UA	
<b>Papeete/Tahiti</b>	Christchurch	AFTN	
<b>Paro</b>	Mumbai Bangkok	AMHS AMHS	
<b>Phnom Penh</b>	Bangkok Ho Chi Minh	AMHS AMHS	
<b>Pohnpei</b>	USA	AMHS/UA	
<b>Port Moresby</b>	Brisbane	AFTN	
<b>Port Vila</b>	Brisbane	AMHS/UA	
<b>Pyongyang</b>	Beijing	AFTN	
<b>Rarotonga</b>	Christchurch	AFTN	
<b>Seoul</b>	Beijing Fukuoka	AMHS AFTN	
<b>Singapore</b>	Bangkok Bahrain Brisbane Brunei Colombo Ho-Chi-Minh Jakarta Kuala Lumpur London Manila Mumbai Fukuoka	AMHS AFTN AMHS AFTN AFTN AFTN AMHS AFTN AMHS AFTN AMHS AFTN	

<b>Terminal I</b>	<b>Terminal II</b>	<b>ATSMHS or AFTN</b>	<b>Over CRV (Y/N)</b>
<b>Taipei</b>	Hong Kong	AFTN	
	Manila	AFTN	
	Fukuoka	AFTN	
<b>Tarawa</b>	Nadi	AMHS/UA	
<b>Timor Leste</b>	Brisbane	AMHS	
<b>Tonga/Fua'Amotu</b>	Christchurch	AMHS/UA	
<b>Ulaan Baatar</b>	Beijing	AFTN	
<b>Vientiane</b>	Bangkok	AMHS	
	Hanoi	AFTN	
<b>Wallis Is.</b>	Nadi	(planning)	
<b>Yangon</b>	Bangkok	AMHS	
	Beijing	AFTN	
<b>Yap</b>	USA	AMHS/UA	

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