

En Route Alternates

Europe - Tokyo	ICAO/IATA	RW	Length	Elev	ATIS	VOLMET/Info
Stockholm	ESSA/ARN	01/19	10,800	123	119	127.6, 125.87, 127.2
Helsinki	EFHK/HEL	04/22	10,500	57	135.075	128.4, 127.87, 125.87
St Petersburg	ULLI/LED	10R/28L	12,400	79	127.4	128.4, 127.87, 125.87
Moscow	UUUE/SVO	07L/25R	12,130	627	126.375	127.87, 125.47, 125.87
Syktuykar	UUYY/SCW	01/19	8,200	341	126.6	
Novosibirsk	UNNT/OVB	07/25	11,800	363	127.4	125.47, Novosibirsk H+20/50
Irkutsk	UIII/IKT	12/30	9,070	1,672	124.8	125.47, Khabarovsk H+05/35
Chulman/Nerungri	UELL/CNN		11,800	2,713		
Yakutsk	UEEE/YKS	23L/23R	11,150	324	126.2	
Khabarovsk	UHHH/KHV	05R/23L	13,120	245	124.875	Khabarovsk H+15/45, Novo H+20/50
Chitose	RJCC/CTS	01/19	9,840	71	128.6	Tokyo
Narita	RJAA/NRT	16/34	13,120	135	128.2	Tokyo
Europe - Hong Kong						
Frankfurt	EDDF/FRA	07L/25R	13,120	365	118.025	127.6, 127.8, 135.77
Warsaw	EPWA/WAW	15/33	12,100	361	120.45	127.6, 127.87, 128.6
Moscow	UUUE/SVO	07L/25R	12,130	627	126.375	127.87, 125.47, 125.87
Budapest	LHBP/BUD	13L/31R	12,160	495	124.65	126.8, 126.4, 127.4
Bucharest	LROP/BUH	08/26	11,480	312	118.5	126.8, 126.4, 127.4
Athens	LGAT/ATH	ILS 33R	11,480	68	123.4	127.8, 128.4, 127.6
Istanbul	LTBA/IST	18/36	9,840	158	128.2	127.4, 126.8, 127.0
Ankara	LTAC/ESB	03R/21L	12,310	3,125	123.6	127.0, 127.4
Kayseri	LTAU/ASR	ILS 25R	11,150	3,451	122.1 T	
Larnaca	LCLK/LCA	ILS 22	8,850	8	112.8	127.8, 127.2
Damascus	OSDI/DAM	ILS 23L/R	11,810	2,020	118.5 T	126.0, 128.4, 127.2
Yerevan	UGEE/	ILS 09	12,630	2,841	128.7	
Aktyubinsk	UATT/AKX	13/31	10,200	738	127.8	125.47, Tashkent H+10/40
Uromiyeh	OITR/	03/21 VOR	9,520	4,336	122.7 T	
Almaty	UAAA/ALA	05/23	14,436	2,234	135.1	126.2, 125.47, Tashkent H+10/40
Tabriz	OITT/TBZ	VOR 30	12,000	4,455	124.1 T	
Tehran	OIII/THR	ILS 29R	13,120	3,962	118.1 T	Baku H+25/55
Esfahan	OIFM/IFN	ILS 26R	14,430	5,072	118.3 T	
Bahrain	OBBI/BAH	12/30	13,000	6	127.2	128.8
Abu Dhabi	OMAA/AUH	13/31	13,450	88	113	128.8
Dubai	OMDB/DXB	12L/30R	13,120	34	115.7	128.8
Bandar Abbass	OIKB/BND	03/21 VOR	12,020	22	118.1 T	
Zahedan	OIZH/	VOR 35L	14,000	4,498	121.9 T	
Dushanbe	UTDD/DYU	09/27	10,200	2,571	126.2	125.47, Tashkent H+10/40
Samarkand	UTSS/SKD	09/27	10,200	2,223	118.3 T	125.47, Tashkent H+10/40
Tashkent	UTTT/TAS	08L/26R	12,800	1,413	126.8	125.47, Tashkent H+10/40
Lahore	OPLA/LHE	18/36	8,990	700	126.3	Karachi H+15/45
Karachi	OPKC/KHI	ILS 25R	10,500	100	126.7	Karachi H+15/45, Mumbai H+25/55
Dehli	VIDP/DEL	ILS 28	12,500	744	126.4	Calcutta H+05/35, Karachi H+15/45
Calcutta	VECC/CCU	01R/19L	11,900	18	126.4	Calcutta H+05/35
Dhaka	VGZR/DAC	ILS 14	10,500	24	118.3 T	Calcutta H+05/35
Urumqi	ZWWW/URC	ILS 25	10,490	2,129	1181 T	
Ulan Bator	ZMUB/ULN	ILS 14	10,170	4,219	125	
Beijing	ZBAA/PEK	18/36 (L/R)	12,460	115	127.6	125.47, Beijing H+15/45
Shanghai	ZSSS/SHA	18/36	11,150	10	118.1 T	Beijing H+15/45
Lanzhou	ZLLL/LZD	18/36 VOR	11,150	6,391	1181 T	
Xi'an	ZLXY/XIY	ILS 05	9,840	1,572	123.0 T	
Chengdu	ZUUU/CTU	ILS 02	9,180	1,624	123.0 T	
Kunming	ZPPP/KMG	ILS 03	11,150	6,217	118.1 T	
Yangon	VYYY/RGN	ILS 21	8,100	109	128.4	Calcutta H+05/35
Bangkok	VTBD/BKK	ILS 21L/R	12,130	9	126.4	Bangkok
Xiamen	ZSAM/XMN	ILS 05	8,858	59	126.25	
Hong Kong	VHHH/HKG	07/25 (L/R)	11,940	20	128.2	Hong Kong

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Europe - South Africa	ICAO/IATA	RW	Length	Elev	ATIS	VOLMET/Info
Zarzitine	DAUZ/IAM	05/23 VOR	9,840	1,847	119.7 T	126.8
Tamanrasset	DAAT/TMR	VOR 03	11,810	4,518	118.1 T	126.8
Niamey	DRRN/NIM	ILS 09	9,840	728	119.7 T	
N'Djamena	FTTJ/NDJ	ILS 05	9,180	968	118.1 T	Brazza
Bangui	FEFF/BGF	ILS 35	8,530	1,204	119.7 T	Brazza
Lagos	DNMM/LOS	01L/19R	12,790	135	123.8	
Douala	FKKD/DLA	ILS 30	9,350	33	119.7 T	
Yaounde	FKYS/YAO	ILS 19	11,155	2,276	119.1 T	Brazza
Kisangani	FZIC/FKI	ILS 13	11,480	1,417	121.1 T	
Entebbe	HUEN/EBB	ILS 17	12,000	3,782	118.1 T	
Nairobi	HKJK/NBO	ILS 06	13,500	5,327	118.7 T	
Kigali	HRYR/KGL	ILS 28	11,480	4,892	118.3 T	
Bujumbura	HBBA/BJM	ILS 17	11,810	2,582	118.1 T	
Brazzaville	FCBB/BZV	ILS 06	11,820	1,047	118.7 T	Brazza
Kinshasa	FZAA/FIH	ILS 24	11,810	1,027	118.1 T	Brazza
Luanda	FNLU/LAD	05/23	12,130	243	118.1 T	Brazza
Lubumbashi	FZQA/FBM	ILS 07	8,850	4,295	118.1 T	Brazza
Ndola	FLND/NLA	10L/28R VOR	8,250	4,167	118.3 T	04-18
Lusaka	FLLS/LUN	ILS 10	13,000	3,779	113.5	04-22
Harare	FVHA/HRE	ILS 05	15,500	4,901	113.1	
Bulawayo	FVBU/BUQ	ILS 13	8,490	4,366	118.3 T	
Johannesburg	FAJS/JNB	03L/21R	14,490	5,558	115.2	130.3
Canada - Western USA						
Iqaluit	CYFB/YFB	ILS 36	9,000	110	122.2 T	Gander H+25/55
Hall Beach	CYUX/YUX	12/30 NDB	5,200	27	122.2 T	
Resolute Bay	CYRB/YRB	ILS 35	6,500	221	122.2 T	Edmonton H+20
Cambridge Bay	CYCB/YCB	VOR 31	5,000	90	122.1 T	Edmonton H+20
Coral Harbour	CYZS/YZS	NDB 34	5,000	210	122.1 T	
Churchill	CYYQ/YYQ	ILS 33	9,200	94	122.2 T	Edmonton H+20
Yellowknife	CYZF/YZF	ILS 33	7,500	675	128.4	Edmonton H+20
Fort McMurray	CYMM/YMM	ILS 25			118.1 T	
Edmonton	CYEG/YEG	02/20	11,000	2,373	128	Gander H+25/55
Calgary	CYYC/YYC	16/34	12,760	3,557	127.2	Gander H+25/55
Saskatoon	CYXE/YXE	ILS 09	8,300	1,653	128.4	
Winnipeg	CYWG/YWG	13/31	11,000	783	120.2	Gander H+25/55
Spokane	KGEG/GEG	03/21	9,000	2,372	127.8	
Vancouver	CYVR/YVR	08/26	11,000	9	124.6	HON H+25/55
Seattle	KSEA/SEA	16L/34R	11,900	429	118	HON H+05/35
Portland	KPDX/PDX	10R/28L	11,011	26	128.35	HON H+05/35
Salt Lake City	KSLC/SLC	16/34	12,000	4,227	124.75	FW:133.02
Las Vegas	KLAS/LAS	ILS 25R	14,500	2,174	132.4	HON H+05/35

En Route Alternates

Europe - Eastern USA	ICAO/IATA	RW	Length	Elev	ATIS	VOLMET/Info
Shannon	EINN/SNN	06/24	10,500	47	130.95	Shannon H+05/35, 127.0
Keflavik	BIKF/KEF	11/29	10,013	171	128.3	Shannon H+20/50, RAF
Sondrestrom	BGSF/SFJ	LLZ 10	9,230	165	126.2 T	Gander H+25/55
Thule	BGTL/	ILS 15	10,000	251	126.2 T	Edmonton H+20
Goose Bay	CYYR/YYR	ILS 08	11,050	160	128.1	Gander H+20/50
Gander	CYQX/YQX	ILS 04	10,500	496	124.8	Gander H+20/50
St John's/Torbay	CYYT/YYT	11/29	8,500	460	128	Gander H+25/55
Halifax	CYHZ/YHZ	ILS 24	8,800	476	121	Gander H+20/50
Bangor	KBGR/BGR	15/33	11,430	192	127.75	New York H+05/35, FW:133.92
Stephenville	CYJT/YJT	ILS 28	10,000	84	122.3 T	St John's H+40
Montreal	CYMX/YMX	06/24	12,000	270	125.7	Gander H+20/50
Boston	KBOS/BOS	15R/33L	10,080	20	135	New York H+10/40, FW:133.92
Toronto	CYYZ/YYZ	15/33	11,050	569	114.8	Gander H+20/50
Bradley/Windsor	KBDL/BDL	06/24	9,500	174	118.15	New York H+05/35, FW:134.72
Newburgh/Stewart	KSWF/SWF	ILS 09	9,820	471	124.57	FW:134.72
Newark	KEWR/EWR	04R/22L	8,200	18	115.7	New York H+10/40, FW:134.72
Philadelphia	KPHL/PHL	09R/27L	10,500	21	133.4	New York H+10/40
New York JFK	KJFK/JFK	13R/31L	14,570	12	128.72	New York H+10/40, FW:134.72
Baltimore	KBWI/BWI	15R/33L	9,510	146	127.8	New York H+10/40, FW:134.52
Washington	KIAD/IAD	01R/19L	11,500	313	134.85	New York H+10/40, FW:134.52
Richmond	KRIC/RIC	16/34	9,000	168	119.15	FW:134.52
Pittsburgh	KPIT/PIT	10R/28L	11,500	1,203	127.25	New York H+05/35, FW:135.42
Norfolk	KORF/ORF	05/23	9,000	27	127.15	FW:134.52
Wilmington/New Hanover	KILM/ILM	06/24	7,990	32	121.1	FW:134.52
Charleston	KCHS/CHS	15/33	9,000	45	124.75	FW:134.82
Atlanta	KATL/ATL	09L/26R	11,880	1,026	119.65	New York H+15/45, FW:135.47
Jacksonville	KJAX/JAX	07/25	8,000	30	125.85	FW:134.17
Santa Maria	LPAZ/SMA	ILS 18	10,000	308	118.1 T	Shannon H+15/45
Lajes	LPAL/LAJ	15/33	10,910	180	120.3	
Orlando	KMCO/MCO	18R/36L	12,000	96	121.25	FW:134.17
Orlando Sanford	KSFB/SFB	09L/27R	8,000	55	125.97	
Tampa	KTPA/TPA	18R/36L	11,000	27	126.45	New York H+15/45, FW:132.72
West Palm Beach	KPBI/PBI	09L/27R	7,980	19	123.75	New York H+15/45
Fort Lauderdale	KFLL/FLL	09L/27R	9,000	11	135	FW:132.72
Miami	KMIA/MIA	09R/27L	11,720	10	119.15	New York H+15/45, FW:132.72
Nassau	MYNN/NAS	14/32	11,000	7	118.7	New York H+15/45
Freeport	MYGF/FPO	06/24	11,000	7	118.5 T	New York H+15/45
Bermuda	TXKF/BDA	ILS 30	9,660	11	118.1 T	New York H+15/45

En Route Alternates

Met Broadcast Station	Frequencies			Time
Baku	3407	6730	8819 11279	H+25/55
Bangkok	2965	6676	11387	H+10/40
Beijing	3458	5673	8849 13285	H+15/45
Brazza	5499	10057	13261	H+0/15/30/45
Calcutta	2965	6676	11387	H+05/35
Edmonton Military	6753	15035		H+20
Gander	3485	6604	10051 13270	
Hong Kong	2863	6679	8828 13282	H+15/45
Honolulu	2863	6679	8828 13282	
Karachi	2965	6676	11387	H+15/45
Khabarovsk	4663	10090	13279	H+05/35
Khabarovsk	3116	5961	8861 13267	H+15/45
Mumbai	2965	6676	11387	H+25/55
New York	3485	6604	10051 13270	
Novosibirsk	4663	10090	13279	H+20/50
Royal Air Force	5450	11253		
Shannon	3413	5505	8957 13264	
St John's Military	6753	15035		H+40
Tashkent	4663	10090	13279	H+10/40
Tokyo	2863	6679	8828 13282	H+10/40
USA Flight Watch	122			
Tokyo	2863	6679	8828 13282	H+10/40
USA Flight Watch	122			