



ICAO Carbon Emissions Calculator Methodology

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1 Introduction

This document presents a general methodology developed for estimating the amount of carbon emissions (CO₂) generated by a passenger in a flight, for use in carbon offsetting programmes.

It provides information on the methodological approach and details the assumptions underlying the generic factors employed by the ICAO Carbon Emissions calculator. The methodology is provided in an open source format facilitating individual air carriers that may wish to customize it with their own data.

The document includes a general description of the method adopted by ICAO in order to estimate the CO₂ emissions of a flight (Item 2); the detailed calculation process implemented by the ICAO Calculator (Item 3); a description and analysis of the data inputs used (Item 4); a demonstration of the data coverage and sensitivity (Items 5 and 6); and the steps needed to be taken by a company wishing to customize the calculator with its own data set (Item 7).

2 Methodological Approach

The ICAO methodology employs a distance-based approach to estimate an individual's aviation emissions using data currently available on a range of aircraft types. In order to implement this methodology, ICAO has developed formula regarding fuel consumption and it is committed to continuously monitor and seek improvements in the data used, in order to obtain better emissions estimation.

The ICAO methodology has been designed to require a minimum amount of input information from the user regarding the particulars of the flight concerned. It employs industry averages for the various factors which contribute to the calculation of the emissions associated with the individual passenger's air travel. As passengers' aviation emissions are affected by continuously changing variables specific to each flight, it is necessary to develop average factors to account for the effect of these flight parameters. While these factors cannot be captured on a flight-specific basis, this methodology considers them for the purpose of developing a more robust estimation of flight emissions and educating the public and the industry as to how these factors affect an individual passengers' emission intensity.

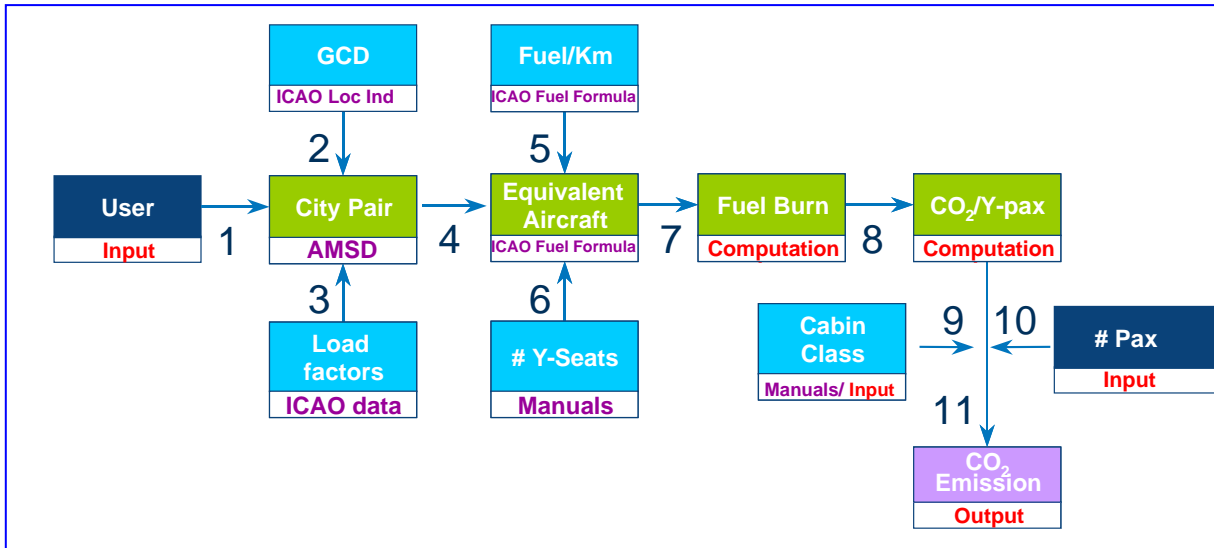
2.1 General Description of the Methodology

The ICAO Carbon Emission Calculator requires that the user input the airports of origin and destination for a direct through flight (i.e. a flight which does not have a change of the flight number). This is then compared with the published scheduled flights to obtain the aircraft types used to serve the two airports concerned and the number of departures per aircraft. Each aircraft is then mapped into one of the 312 equivalent aircraft types in order to calculate the fuel consumption for the trip based on the great circle distance between the airports involved in the journey. The passenger load factors, and passenger to cargo ratios, obtained from traffic and operational data collected by ICAO, are then applied to obtain the proportion of total fuel used which can be attributed to the passengers carried. The system then calculates the average fuel consumption for the journey weighted by the frequency of departure of each equivalent aircraft type. This is then divided by the total number of economy class equivalent passengers, giving an average fuel burn per economy class

passenger. The result is then multiplied by 3.16 in order to obtain the amount of CO₂ footprint attributed to each passenger travelling between those two airports.

3 Calculation Procedure

ICAO used this methodology to develop a Carbon Emissions Calculator using a database constructed from several data sources. From the diagram below, we identify the following information used as input to the calculator:



City Pair: Obtained from the airlines multilateral schedules database (AMSD). The flight schedule data are based on the latest available information and are updated annually.

GCD (Great Circle Distance): The distance between origin and destination airports is derived from latitude and longitude coordinates originally obtained from ICAO Location Indicators database.

Load Factors: The average generic factors considered for the purpose of this calculation are sourced from the Traffic by Flight Stage database (TFS) which collects air carrier city-pair specific traffic data by aircraft type produced on an annual basis, and domestic traffic and operational data, both collected by ICAO, as well as data based on the flight schedules published by the air carriers.

Fuel/Km: This information, per equivalent aircraft model, is obtained from the ICAO Fuel Consumption Formula.

Y-seats: This is the number of economy seats that can be fit inside the equivalent aircraft. ICAO made use of a standard cabin layout (in terms of location of galleys, toilets and exits) for each reference aircraft. This fixed space was then fitted with an all-economy seating

using a pitch of about 31/32 inches (79/81 cm). This seating configuration was then compared with a mixed configuration involving business and/or first class row/seat combinations where, for the large wide bodied aircraft, business class seats have a 38 inch pitch, and those in first class have a 60 inch pitch. Examples of these layouts were obtained from the Manual on Airplane Characteristics for Airport Planning published on the Web by the aircraft manufacturers.

In simple terms, the general methodology used by the ICAO calculator can be described with the following steps, with references to the diagram above:

User input (1) – The user enters the origin and destination airports. The database is searched for all flights, direct or non-direct, serving that city-pair. However, the tool does not compute total emissions for journeys with different flight numbers (connecting flights). To do this, the user can choose to build a total by calculating each of the journey legs separately and adding them up.

Code share flights are treated as a single flight. This avoids a possible double counting of flight departures that would otherwise affect the calculations.

The origin and destination database includes individual routings for single flight numbers with multiple stops. Hence the passenger does not need to know, nor input the full itinerary of the flight.

Trip distance (2) – The ICAO Location Indicators database contains the longitude and latitude coordinates for the airports. From these coordinates the Great Circle Distance (GCD)¹ is then calculated and corrected by a factor depending on the distance between the two airports concerned (see section 4.2).

Traffic data (3) – A passenger load factor is assigned to the user-defined city-pair, based on the passenger load factor for the corresponding route groups. Load factor information is obtained from the database, based on 53 international route groups plus 11 domestic areas plus 11 intra areas (see **Appendix A**).

Aircraft mapping (4) – From the scheduled flights database, the scheduled aircraft is identified and linked to the aircraft fuel consumption database based on ICAO Fuel Consumption Formula. When the scheduled aircraft is not in the database, the aircraft is mapped into one of the 312 equivalent aircraft types existing in the aircraft fuel consumption database. **Appendix B** provides details of how this mapping was done. This allows estimation of the total fuel use on each route serving the user-defined city-pair.

Fuel burn data (5) – The fuel burn to flight distance relationship is extrapolated from the ICAO Fuel Consumption Formula. The factors considered include passenger load factor, flight distance, block time, the proportion of the overall payload represented by passenger traffic, cabin class flown, and type of equivalent aircraft flown. The amount of fuel used on a route is the weighted average of total fuel burnt based on the frequencies of the scheduled aircraft types flown.

¹ The Great Circle Distance is the shortest path between two points on the surface of a sphere

Economy Class (Y) seat capacity (6) – From cabin floor plans obtained from the “Manual on Airplane Characteristics for Airport Planning”, which is developed by manufacturers to provide necessary data to airport operators and airlines for airport facilities planning, the maximum number of Y-seats that can be fitted per equivalent aircraft is determined. This “virtual” all economy configuration later allows the computation of cabin class factors (steps 9 & 10).

CO₂ per economy passenger (7 and 8) – Using the trip distance, equivalent aircraft fuel consumption, passenger to seat load factor and passenger to freight load factor for the route group, and the number of Y-seats, the methodology calculates the CO₂ associated to each passenger, as follows:

$$\text{CO}_2 \text{ per pax} = 3.16 * (\text{total fuel} * \text{pax-to-freight factor}) / (\text{number of y-seats} * \text{pax load factor})$$

Where:

Total fuel = The weighted average of the fuel used by all flights departed from the origin airport in order to reach the destination airport. The weighting factor is the ratio of number of departures for each equivalent aircraft type, to the total number of departures.

Pax-to-freight factor = is the ratio calculated from ICAO statistical database based on the number of passengers and the tonnage of mail and freight, transported in a given route group.

Number of Y-seats = the total number of economy equivalent seats available on all flights serving the given city pair.

Pax load factor = the ratio calculated from ICAO statistical database based on number of passengers transported and the number of seats available in a given route group.

3.16 = constant representing the number of tonnes of CO₂ produced by *burning* a tonne of aviation fuel.

Cabin class (9 and 10) – Depending on user selection, a multiplicative cabin class factor is applied to adjust the CO₂ per Y-passenger, on those routes where multiple class passenger services are available.

Passenger CO₂ output (11) – The estimated quantity for the carbon emission.

4 Data Sources

This methodology seeks to distribute the emissions between the passengers travelling in different cabin classes, and between passengers and cargo, in an equitable manner. This section details how the various contributing factors come together to accomplish this result.

4.1 Fuel Data

Since the 1980s, ICAO has been conducting studies on regional differences in international airline operating economics to estimate and compare airline operating cost and revenues in different regions of the world, using a unique database which includes fuel consumption. The fuel consumption in that database is estimated for each airline, on each sector of a scheduled flight, based on information reported by airlines for their scheduled operations.

During the early 1990s, ICAO began developing equations to estimate the fuel consumption by aircraft type. Those equations, have been regularly updated based on publically available information.

The fundamental principle of the ICAO fuel consumption formulas is to estimate in-service airline fuel consumption. The process by which they are developed is to start with fuel consumption figures as published by in aircraft manufacturers' handbooks as a baseline estimate of fuel consumption by trip distance. These figures are then corrected based on available in-service fuel consumption data.

Most of the in-service data comes from the US DOT Form 41. In the United States, federal law requires that most American passenger and cargo airlines report financial and operating information to the U.S. Department of Transportation (DOT). Often referred to by the name of one of its required reports, the "Form 41" system includes balance sheets, income statements and other financials as well as operating or "traffic" statistics.

Where Form 41 data were not available for specific aircraft type, handbook to in-service differences from a similar aircraft were used. Handbook level fuel consumption data came from a number of sources including the manufacturers, files from the ICAO database, charter companies, U.S. Department of Interior website, Internet and literature searches.

The formula also incorporates the ability to compute fuel consumption based on block time. This allows the fuel consumption estimate to consider additional time required for less direct routings or for prevailing winds.

Appendix C of this document presents average fuel consumption by stage length based on the ICAO fuel consumption formula.

4.2 Trip distance

The methodology uses the Great Circle Distance (GCD) between airports as input to calculate the fuel used, and thus estimate CO₂ emissions.

GCD is by definition the shortest distance between two points on the surface of a sphere. This distance can be calculated by using the geographical coordinates of the two points concerned. The coordinates for the airports involved are obtained from the ICAO Location Indicators database (ICAO Doc 7910). Once the GCD is calculated, it is then corrected by a factor depending on the distance between the two airports concerned.

The correction factor is needed in order to include the emissions of distance flown in excess of the GCD, stacking, traffic and weather-driven corrections. According to EIG, the actual

distance flown compared with GCD that is given in the scheduled flights timetable may vary up to 11% in Europe (ANCAT/EC2 1998).

The table below shows the GCD correction factor used.

GCD	Correction to GCD
Less than 550 Km	+ 50 Km
Between 550 Km and 5500 Km	+ 100 Km
Above 5500 Km	+ 125 Km

4.3 Aircraft type

The CO₂ emission is calculated from the fuel burned by the aircraft serving a given route. The scheduled aircraft is identified from the scheduled flights database, and mapped into one of the 312 equivalent aircraft types existing in the aircraft fuel consumption database (**Appendix C** provides details of how this mapping was done). Those aircraft types that cannot be mapped, are excluded from the calculations.

4.4 Passenger Load Factor and Passenger to Cargo Factor

As this methodology is intended to assess the passenger's aviation emissions it is necessary to deduct the flight emissions associated with the freight and mail carried on the flight from the total. This calculation will be performed on a revenue mass basis using historic freight and mail numbers specific to the city-pair being considered.

The data are sourced from the ICAO TFS dataset which contains totals of number of seats and passengers, tonnes of freight, and tonnes of mail carried. In order to develop an average freight allocation an average passenger mass with baggage is assumed as 100 Kg, plus a 50 Kg add-on to account of the on-board equipment and infrastructure associated with passenger use (for example, the weight of seats, toilets, galleys and crew). The total mass is then established as:

$$[((\text{No. Passengers} \times 100 \text{Kg}) + (\text{No. of seats} \times 50 \text{Kg})) / 1000] (\text{tonnes}) + \text{Freight (tonnes)} + \text{Mail (tonnes)}$$

Based on the historical traffic data it is then possible to establish the proportion of freight and mail mass in relation to the total mass calculated by the formula above. The resulting proportion is the fraction of the flight emissions for which the passengers should not be held accountable for. The TFS data is updated annually by ICAO for each one of the 75 route groups (see **Appendix A**).

4.5 Cabin class

The cabin class correction factor is used only on equivalent aircraft types that support such differentiation, and on flights of more than 3,000 Km. It is based on the principle that premium seats occupy a larger space than that of an economy seat; therefore the same cabin configured with premium seat arrangements carries fewer passengers than an all-economy layout.

In order to define the cabin class correction factor, each representative aircraft has been assigned a standard all-economy class layout so that the reduced capacity resulting from the larger space occupied by premium seating and the associated increase in per-passenger emissions is accounted for. This cabin class correction factor is based on the principle that premium seats occupy a larger footprint than that of an economy seat; therefore the same cabin configured with premium seat arrangements carries fewer passengers than an all-economy layout. While it is not possible to account for all possible configurations of a given aircraft the cabin class correction factor serves to educate the user as to the environmental effect of their travel decisions. For this reason generic cabin class factors have been estimated.

The methodology employs a simplified approach by using two cabin class factors (“economy” and “premium”) when allocating emissions to passengers, with a ratio of 1:2.

5 Discussion of Sensitivities

In any modelling exercise the desire for accuracy is moderated by the level of complexity the analyst is willing to accommodate. In the case of the ICAO methodology, an attempt has been made to account for the principal factors which define an individual’s aviation carbon emission footprint while assessing each at a level which recognizes the inherent uncertainty underlying many of the assumptions embedded in this approach.

Great Circle Distance – while it is understood that air travel does not occur in a straight line between two points, actual flown distance to be collected from the air carriers, or from a more accurate trip distance database showed to be not feasible for the time being.

Representative Aircraft – as aircraft typically share similar performance characteristics, if designed for similar operation, the adoption of a representative aircraft approach is both necessary and reasonable given the level of detail available. It is recognized that there are considerable differences in fuel consumption between aircraft belonging to the same aircraft type variant, dependent on many factors such as age and airline specific configuration, including engines.

Cabin Class Factor – this recognizes that several seat configurations can be offered, and the different classes of service among air carriers. The ICAO Carbon Emissions calculator does not use a specific aircraft configuration; instead, it uses the equivalent aircraft approach that represents the actual equipment in use. Due to the general nature of this methodology, it was decided to use a simplified approach, restricting the cabin classes to two: one representing the economy class, and the other representing the premium classes (business, and first).

Passenger Load Factor – average passenger load factors are calculated on a route group basis for international flights and on a regional basis for domestic flights. The data are

obtained from the reported data sent by States to ICAO, and it tends to change with every annual update.

Passenger to Cargo Factor – average cargo factors on passenger aircraft are calculated on a route group basis for international flights and on a regional basis for domestic flights. The data is obtained from the reported data sent by States to ICAO, and it tends to change with every annual update.

Fuel consumption per aircraft type – throughout the design of this tool, the intention was to default to the best publicly available information. While it is well known that most air carriers have detailed information in regards to their fuel consumption and fuel efficiency, this information is not publicly available. ICAO has developed formulas to estimate fuel consumption for 312 aircraft currently on duty.

6 Maintenance Requirements of the ICAO Methodology

In order to support the continued improvement and adoption of the ICAO methodology various data components will require a regular update by ICAO and be provided to users seeking to implement the ICAO methodology. These include:

ICAO traffic data – to be analyzed and updated on an annual basis.

Air carriers scheduled data – In order to calculate the composite city emissions city-pairs data are to be updated on an annual basis to reflect the schedules operated by the air carriers during the period.

Generic Aircraft Mapping – To account for changes in the equipment operating in the industry ICAO will complete a review of the aircraft types listed in the scheduled flights database and the TFS and publish a reference document showing the corresponding mapping to representative aircraft type for all in service aircraft type.

Aircraft Fuel consumption – In order to keep up to date information about new aircrafts types and technology improvements adopted by the industry, ICAO will update the fuel per kilometre information for the several aircraft equivalent models, as soon as new information is made available by aircraft manufacturers and air carriers.

7 Options for Carrier Specific Accuracy Improvements

As ICAO recognizes the additional benefits, which more detailed air carrier specific data can provide, the ICAO methodology is intended to be open source for carriers that are considering their own offset programmes and able to receive enhancements to the quality of data employed for the calculations. Possible carrier specific improvements include:

Fuel Burn – Given the air carriers flight planning requirements in terms of efficiency and safety it is anticipated that air carriers will be interested in employing more robust data to the fuel consumed on their operated flights.

Cargo Carried – An air carrier may use its own cargo factor so long as the level of aggregation is provided in accompanying documentation.

Passenger Load Factor – An air carrier may use their own passenger load factor so long as the level of aggregation is clear in accompanying documentation.

Aircraft Configuration – On account of the generic nature of this methodology an air carrier may wish to implement fleet specific data on the aircraft operated in its service.

Appendix A: Load Factors by Route Group

Version 11 data are based on traffic during calendar year 2016.

#	Route Group	Passenger Load Factor	Passenger to Freight Factor
1	Africa - Asia/Pacific	73.7%	83.82%
2	Africa - Middle East	74.1%	82.92%
3	Africa - North America	77.1%	91.11%
4	Africa & Middle East - Central America/Caribbean	77.9%	84.03%
5	Africa & Middle East - South America	65.0%	83.97%
6	Central America/Caribbean - Europe	81.7%	86.57%
7	Central America/Caribbean - North America	80.7%	93.17%
8	Central America/Caribbean - South America	79.7%	89.42%
9	Central/South West Asia - Europe	81.5%	63.43%
10	Central/South West Asia - Latin America/Caribbean	80.3%	84.45%
11	Central/South West Asia - Middle East	78.9%	81.18%
12	Central/South West Asia - North America	83.3%	62.38%
13	Central/South West Asia - North Asia	71.2%	79.47%
14	Central/South West Asia - Pacific South East Asia	74.8%	80.12%
15	Europe - Middle East	74.5%	77.19%
16	Europe - North Africa	73.6%	81.99%
17	Europe - North America	83.1%	79.96%
18	Europe - North Asia	80.0%	63.43%
19	Europe - Pacific South East Asia	80.2%	63.43%
20	Europe - South America	84.9%	76.69%
21	Europe - Sub Saharan Africa	78.4%	81.99%
22	Intra Africa	66.1%	84.32%
23	Intra Central America/Caribbean	67.7%	96.09%
24	Intra Central/South West Asia	69.8%	79.47%
25	Intra Europe	82.3%	96.12%
26	Intra Middle East	70.2%	84.56%
27	Intra North America	79.1%	93.35%
28	Intra North Asia	75.3%	79.47%
29	Intra Pacific South East Asia	77.8%	79.47%

30	Intra South America	77.1%	82.66%
31	Latin America/Caribbean - North Asia & Pacific South East Asia	72.9%	84.67%
32	Middle East - North America	83.9%	79.89%
33	Middle East - North Asia & Pacific South East Asia	76.5%	81.18%
34	North America - North Asia	82.3%	66.44%
35	North America - Pacific South East Asia	80.9%	84.57%
36	North America - South America	82.6%	77.27%
37	North Asia - Pacific South East Asia	75.3%	79.47%

Appendix B: Equivalent Aircraft Mapping (based on aircraft currently in-service)

Aircraft	Equivalent
100	100
141	141
142	142
143	143
146	146
310	310
312	312
313	313
318	318
319	319
320	320
321	321
330	330
332	332
333	333
340	340
342	342
343	343
345	345
346	346
350	359
359	359
380	380
388	388
703	703
707	707
717	717
721	721
722	722
727	727
731	731
732	732
733	733
734	734
735	735
736	736
737	737
738	738
739	739

Aircraft	Equivalent
741	741
742	742
743	743
744	744
747	747
752	752
753	753
757	757
762	762
763	763
764	764
767	767
772	772
773	773
777	777
787	789
788	788
789	789
14F	14F
31F	31F
31X	310
31Y	31Y
32A	32A
32B	321
32S	32S
33F	33F
33X	33X
70F	70F
70M	70M
72A	72A
72B	721
72F	72F
72M	72M
72S	72S
73A	73A
73C	73C
73E	73E
73F	73F
73G	73G

Aircraft	Equivalent
73H	73H
73J	73J
73L	73L
73M	73M
73N	73N
73P	73P
73Q	73Q
73R	73R
73S	73S
73W	73W
73X	73X
73Y	73Y
74C	74C
74D	74D
74E	74E
74F	74F
74H	74H
74J	74J
74L	74L
74M	74M
74N	74N
74R	74R
74T	74T
74U	743
74X	74X
74Y	74Y
75F	75F
75M	75M
75T	75T
75W	75W
76F	76F
76W	76W
76X	76X
76Y	76Y
77F	77F
77L	77L
77W	77W
77X	77X
A22	A22

Aircraft	Equivalent
A26	SF3
A28	A28
A30	A30
A32	F50
A38	A38
A40	A40
A4F	A4F
A58	F28
A5F	A5F
A81	A81
AB3	AB3
AB4	AB4
AB6	AB6
ABB	ABB
ABF	ABF
ABX	ABX
ABY	ABY
ACD	ACD
ACP	ACP
ACT	ACT
AGH	AGH
AN2	AN2
AN4	AN4
AN6	AN6
AN7	AN7
ANF	ANF
APH	APH
AR1	AR1
AR7	AR7
AR8	AR8
ARJ	ARJ
AT3	AT3
AT4	AT4
AT5	AT5
AT7	AT7
ATF	ATF
ATP	ATP
ATR	ATR
B11	B11

Aircraft	Equivalent
B12	B12
B13	B13
B14	B14
B15	B15
B72	B72
BE1	BE1
BE2	BE2
BE4	NDC
BE9	BE9
BEC	BEC
BEH	BEH
BEP	BEP
BES	BES
BET	BET
BH2	BH2
BNi	BNi
BNT	BNT
CCJ	CCJ
CD2	CD2
CL4	CL4
CN1	CN1
CN2	MU2
CNA	CNA
CNC	CNC
CNF	CNF
CNJ	CNJ
CNT	CNT
CR1	CR1
CR2	CR2
CR7	CR7
CR9	CR9
CRA	CRA
CRF	CRF
CRJ	CRJ
CRK	CRK
CRV	CRV
CRX	CRX
CS2	CS2
CS5	CS5

Aircraft	Equivalent
CV2	CV2
CV3	CV3
CV4	CV4
CV5	CV5
CV6	CV6
CV8	CV8
CV9	CV9
CVF	CVF
CVR	CVR
CWC	CWC
D10	D10
D11	D11
D14	D14
D1C	D1C
D1F	D1F
D1Y	D1Y
D28	D28
D38	D38
D3F	D3F
D6F	D6F
D81	D81
D82	D82
D83	D83
D84	D84
D85	D85
D86	D86
D87	D87
D8F	D8F
D8T	D8T
D8X	D8X
D8Y	D8Y
D91	D91
D92	D92
D93	D93
D94	D94
D95	D95
D9F	D9F
D9S	D9S
DC3	DC3

Aircraft	Equivalent
DC4	DC4
DC6	DC6
DC7	DC7
DC8	DC8
DC9	DC9
DF2	DF2
DF3	DF3
DFL	DFL
DH1	DH1
DH2	DH2
DH3	DH3
DH4	DH4
DH7	DH7
DH8	DH8
DHB	DHB
DHC	DHC
DHD	DHD
DHL	DHL
DHO	DHO
DHP	DHP
DHR	DHR
DHS	DHS
DHT	DHT
DV5	DV5
E2F	E2F
E70	E70
E75	E75
E7W	E75
E90	E90
E95	E95
EC3	S76
EM1	EM1
EM2	EM2
EMB	EMB
EMJ	EMJ
EP1	NDC
ER3	ER3
ER4	ER4
ERD	ERD

Aircraft	Equivalent
ERJ	ERJ
F21	F21
F22	F22
F23	F23
F24	F24
F27	F27
F28	F28
F50	F50
F70	F70
FK7	FK7
FRJ	FRJ
GRG	GRG
GRJ	GRJ
GRM	GRM
GRS	GRS
H25	H25
HEC	HEC
HS7	HS7
I14	I14
IL6	IL6
IL7	IL7
IL8	IL8
IL9	IL9
ILW	ILW
J31	J31
J32	J32
J41	J41
JST	JST
L10	L10
L11	L11
L12	L12
L15	L15
L1F	L1F
L49	L49
L4T	L4T
LOE	LOE
LOF	LOF
LOH	LOH
LOM	LOM

Aircraft	Equivalent
LRJ	LRJ
M11	M11
M1F	M1F
M1M	M1M
M80	M80
M81	M81
M82	M82
M83	M83
M87	M87
M88	M88
M90	M90
M95	M95
MA6	MA6
MBH	MBH
MD9	MD9
MIH	MIH
MU2	MU2
ND2	ND2
NDC	NDC
NDE	NDE
NDH	NDH
PA1	PA1
PA2	PA2
PAG	PAG
PAT	PAT
PL2	PL2
PL6	PL6
PN6	PN6
S20	S20
S58	S58
S61	S61
S76	S76
SF3	SF3
SFB	SFB
SFF	SFF
SH3	SH3
SH6	SH6
SHB	SHB
SHS	SHS

Aircraft	Equivalent
SSC	SSC
SU9	SU9
SWM	SWM
T20	T20
T2F	T2F
TU3	TU3
TU5	TU5
VCV	VCV
WWP	WWP
YK2	YK2
YK4	YK4
YN2	YN2
YN7	YN7
YS1	YS1
32N	32N
32Q	32Q
31N	31N
339	339
338	338
351	351
221	221
223	223
7M8	7M8
7M9	7M9
781	781
290	290
295	295

Appendix C: ICAO Fuel Consumption Table

Equivalent Aircraft Code	Flight Distance (nm) / Fuel Consumption (kg)																			
	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
100	1296	2703	3788	5129	6427	8937	11373	13757	16104											
141	1289	2754	3874	5258	6600	9199														
142	1289	2754	3874	5258	6600	9199	11725													
143	1324	2874	4105	5621	7100	9986														
146	1289	2754	3874	5258	6600	9199	11725													
310	2628	5537	7790	10759	13658	19323	24876	30356	35784	41172	46530	51862	57175							
313	2628	5537	7790	10759	13658	19323	24876	30356	35784	41172	46530	51862	57175							
318	1488	3016	3925	5234	6482	8931	11335	13729	16130											
319	1596	3259	4323	5830	7271	10026	12668	15233	17741	20203										
320	1672	3430	4585	6212	7772	10766	13648	16452												
321	1909	3925	5270	7157	8970	12456	15818	19094	22308											
330	3497	7277	9980	13579	17055	23769	30276	36642	42903	49082	54788	59831	64719	69463	74074	78560	82928			
332	3395	6964	9550	12994	16321	22747	28973	35065	41057	46970	52422	57231	61889	66406	70793	75058	79207			
333	3497	7277	9980	13579	17055	23769	30276	36642	42903	49082	54788	59831	64719	69463						
340	4205	8452	11054	14688	18192	24999	31691	38363	45066	51831	58678	65621	72666	79169	85687	89019	91982	94586	96840	98752
342	3972	7985	10445	13882	17198	23642	29984	36312	42673	49097	55603	62203	68908	75453	80921	84023	86770	89174		
343	4205	8452	11054	14688	18192	24999	31691	38363	45066	51831	58678	65621	72666	79169	85687	89019	91982			
345	4456	9441	13137	18027	22779	32019	41031	49891	58640	67304	75900	84439	92931	101383	109799	117578	124601	131512	138319	145026
346	4778	10030	14053	19362	24537	34630	44505	54236	63863	73412	82899	92334	101727	111211	119071	126796	134395	141877		
380	5851	12016	17623	24940	32211	46695	61160	75638	90143	104681	119255	133865	148512	163196	177916	192517	203465	214166	224632	
388	5851	12016	17623	24940	32211	46695	61160	75638	90143	104681	119255	133865	148512	163196	177916	192517	203465	214166	224632	
717	1513	3121	4235	5628	6989	9646	12209													
727	2870	5891	7884	10688	13379	18544	23517	28361	33106											
731	1695	3439	4515	6053	7517	10304	12964	15537	18047	20504	22920									
732	1778	3708	4962	6727	8421	11672	14802	17850	20838	23777	26676									
733	1616	3323	4462	6061	7597	10551	13400	16176	18900	21582	24229									
734	1685	3482	4707	6419	8069	11250	14328	17335	20289	23203	26084									
735	1539	3153	4207	5694	7119	9850	12477	15033	17535	19995	22421									
736	1525	3074	3995	5324	6584	8971	11239	13426	15553	17631	19670									
737	1695	3439	4515	6053	7517	10304	12964	15537	18047	20504	22920									
738	1715	3494	4621	6221	7749	10666	13460	16170	18818	21415	23972									
739	1782	3641	4839	6533	8154	11255	14233	17125	19954	22733	25471									
744	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938		
747	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938		
752	2159	4435	5939	8054	10085	13984	17740	21398	24983	28159										
753	2331	4825	6525	8899	11188	15602	19872	24044	28145	31754										
757	2159	4435	5939	8054	10085	13984	17740	21398	24983	28159										
762	2685	5457	7625	10488	13276	18707	24013	29237	34402	39522	44605	49659	54687	59395	62791	66006				
763	2900	5799	7971	10965	13879	19557	25104	30566	35966	41318	46632	51915	57172	62106	65700	69112				
764	2963	6129	8564	11780	14911	21011	26971	32839	38641	44391	50100	55777	60999	65000						
767	2900	5799	7971	10965	13879	19557	25104	30566	35966	41318	46632	51915	57172	62106	65700	69112				
772	3691	7819	10880	14930	18866	26518	33982	41320	48566	55742	62861	69933	76966	83966	90378	96168	101853	107440		
773	4084	8572	12011	16549	20972	29598	38038	46355	54584	62745	70853	78747	85475	92061	98519	104857	111085	117210	123237	
777	3691	7819	10880	14930	18866	26518	33982	41320	48566	55742	62861	69933	76966	83966	90378	96168	101853	107440	112934	118340
787	2445	3925	6884	9842	12801	18719	24636	30554	36472	42389	48307	54224	60142	66060	71977	77895	83813	89730		
788	2638	5517	7708	10603	13421	18911	24276	29557	34779	39954	45093	50202	55286	60348	65392	70419	75433	81221	84439	
14F	1289	2754	3874	5258	6600	9199	11725													
31F	2766	5828	8200	11325	14377	20340	26185	31954	37667	43339										

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	
31Y	2628	5537	7790	10759	13658	19323	24876	30356	35784	41172											
32A	1672	3430	4585	6212	7772	10766	13648	16452													
32S	1672	3430	4585	6212	7772	10766	13648	16452	19200	21902											
33F	3395	6964	9550	12994	16321	22747	28973	35065	41057	46970											
33X	3395	6964	9550	12994	16321	22747	28973	35065	41057	46970											
72F	2870	5891	7884	10688	13379	18544	23517	28361	33106												
73C	1600	3273	4355	5884	7348	10151	12843	15460	18019	20534	23013										
73E	1529	3115	4117	5541	6901	9496	11981	14390	16744	19052	21325										
73F	1778	3708	4962	6727	8421	11672	14802	17850	20838	23777	26676										
73G	1586	3202	4173	5570	6895	9410	11804	14113	16360	18558	20715										
73H	1695	3439	4515	6053	7517	10304	12964	15537	18047	20504	22920										
73J	1761	3581	4724	6351	7903	10862	13694	16438	19117	21743	24328										
73L	1778	3708	4962	6727	8421	11672	14802	17850													
73M	1778	3708	4962	6727	8421	11672	14802	17850													
73N	1616	3323	4462	6061	7597	10551	13400	16176	18900	21582	24229										
73P	1770	3656	4942	6740	8472	11813	15044	18201	21304												
73Q	1770	3656	4942	6740	8472	11813	15044	18201	21304	24363	27388										
73R	1586	3202	4173	5570	6895	9410	11804	14113	16360	18558	20715										
73W	1567	3149	4074	5415	6684	9082	11357	13547	15674	17750	19786										
73X	1778	3708	4962	6727	8421	11672	14802	17850													
73Y	1696	3470	4617	6238	7789	10760	13614	16387	19100	21767	24394										
74E	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938			
74F	5508	11311	16590	23478	30323	43957	57575	71204	84859	98545	112264	126017	139806	153629	167486	181377	195300	209254			
74H	4416	8983	13175	18645	24081	34908	45722	56546	67389	78258	89153	100075	111025	122002	133007	142263	150070	157662			
74L	4502	9243	13557	19185	24778	35919	47046	58183	69341	80524	91734	102973	114240	125535	136859	148209	159586	170989			
74N	4416	8983	13175	18645	24081	34908	45722	56546	67389	78258	89153	100075	111025	122002	133007	142263	150070	157662			
74Y	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938			
75F	2302	4729	6332	8588	10753	14911	18916	22816	26639	30098											
75T	2318	4758	6363	8623	10791	14951	18955	22854	26673	30139											
75W	2147	4394	5824	7850	9787	13489	17038	20483	23849	26780											
76F	3124	6249	8608	11841	14988	21119	27110	33008	38839	44619	50357	56063	61319	65346	69177	72823					
76W	2900	5799	7854	10721	13497	18872	24093	29211	34253	39235	44169	49063	53924	58626	61965	65125					
76Y	3124	6249	8608	11841	14988	21119	27110	33008	38839	44619	50357	56063	61319	65346	69177	72823					
77F	3875	8210	11423	15675	19807	27842	35679	43383	50991	58525	65999	73425	80809	88158	94732	100815	106791	112665	118444	124133	
77L	3809	8069	11228	15408	19469	27367	35069	42642	50120	57525	64872	72171	79429	86653	93846	100496	106451	112306	118066	123735	
77W	4129	8667	12143	16731	21202	29924	38457	46865	55184	63436	71633	79786	87903	96089	102838	109465	115978	122384			
77X	3875	8210	11423	15675	19807	27842	35679	43383	50991	58525	65999	73425	80809	88158	94732	100815	106791	112665	118444	124133	
A40	556	1111	1670	2257	2812	3861	4857														
AB1	1235	2469	3251	4244	5183	6949	8617														
AB3	3427	7221	10159	14032	17812	25200	32442	39589	46667	53694	60682	67636									
AB4	3427	7221	10159	14032	17812	25200	32442	39589	46667	53694	60682	67636									
AB6	3119	6571	9245	12769	16209	22932	29522	36026	42467	48862	55220	61549									
ABF	3427	7221	10159	14032	17812	25200	32442														
ABX	3427	7221	10159	14032	17812	25200	32442	39589													
ABY	3119	6571	9245	12769	16209	22932	29522	36026													
AGH	123	247	360	478	590	799															
AN4	735	1337	1910	2536																	
AN6	945	1639	2276	2991	3674	4971															
ANF	2145	3923	5620	7472	9231	12568	15742	18800	21773												
AR1	1324	2874	4105	5621	7100	9986															

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	Code	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
AR8	1289	2754	3874	5258	6600	9199	11725														
ARJ	1289	2754	3874	5258	6600	9199	11725														
AT4	360	723	1093	1486	1863	2588															
AT5	426	878	1397	1993	2612	3942															
AT7	434	891	1409	1996	2603	3891	5293														
ATP	499	998	1500	2027	2525	3467	4360														
ATR	413	843	1317	1849	2389	3516	4718														
BE1	309	617	928	1254	1562	2145															
BE2	82	164	264	354	438	597															
BE9	210	420	631	853																	
BEC	40	79	119	161																	
BEH	309	617	928	1254	1562	2145															
BES	278	556	835	1129	1406	1931															
BET	210	420	631	853	1062	1459															
BH2	93	185	270	359	442	599															
BNI	71	142	229	307																	
BNT	106	213	344	460	570	777	973	1161													
CN1	27	54	88	117																	
CNA	27	54	87	116																	
CNC	110	220	330	446																	
CNF	138	277	447	598																	
CNJ	425	849	1118	1460	1783	2390	2964	3514	4047												
CNT	65	131	197	266	331	455															
CR1	794	1594	2116	2786	3430	4674															
CR2	781	1569	2084	2743	3378	4605															
CR7	1043	2092	2772	3642	4475	6076															
CR9	1119	2251	2994	3949	4872	6664															
CRA	1043	2092	2772	3642	4475	6076															
CRF	781	1569	2084	2743	3378	4605															
CRJ	898	1804	2395	3153	3882	5289															
CRK	1177	2366	3145	4146	5110	6981															
CS2	244	488	733	991	1234	1695															
CV5	765	1531	2301	3110	3875	5320															
CVF	706	1412	2123	2869	3575	4908															
CWC	426	852	1377	1842	2280	3107															
D1F	4773	9701	13555	18646	23601	33256	42690	51978	61160	70261	79298	88282	97222	106124	114994	123835	132651	141445			
D28	203	407	612	826																	
D38	413	825	1240	1676																	
D6F	860	1720	2780	3718	4603	6273	7855	9375	10850	12289	13698	15082									
D93	1773	3640	4871	6604	8267	11458	14531	17524													
D9F	1773	3640	4871	6604	8267	11458	14531	17524													
DC3	235	469	758	1014	1256	1711															
DC9	1773	3640	4871	6604	8267	11458	14531	17524													
DH1	406	811	1219	1648																	
DH2	440	880	1323	1788	2228																
DH3	535	1069	1607	2172																	
DH4	689	1383	2093	2847	3570																
DH7	540	1080	1624	2195	2734																
DH8	517	1034	1554	2100	2616																
DHC	247	494	798	1068	1322	1801															

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	Code	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
DHL	110	220	355	475																	
DHP	49	99	160	214																	
DHT	208	416	625	845																	
E70	1075	2160	2868	3777	4651	6341															
E75	1113	2240	2989	3953	4890	6725															
E90	1338	2688	3567	4695	5778	7871	9913														
E95	1362	2747	3677	4881	6057	8383	10718														
EM2	315	625	926	1233	1514	2015															
EMB	194	389	585	790	984	1351															
EMJ	1249	2510	3338	4401	5427	7417	9372														
ER3	729	1505	2046	2722	3368	4601															
ER4	799	1633	2196	2903	3576	4855	6073														
ERD	744	1536	2088	2778	3437	4696	5901														
ERJ	787	1611	2172	2875	3545	4819	6034														
F28	1543	3087	4064	5306	6478																
F50	494	988	1485	2007	2500	3432															
F70	1238	2574	3607	4884	6121	8512	10831														
FRJ	673	1346	1772	2313																	
I14	679	1358	2041	2759	3437	4719	5936	7107													
IL7	9161	15535	18463	23623	28639	38204	47286	56016	64475	72717											
IL9	5301	10656	13934	18514	22927	31499	39923	48320	56752	65260	73867	82593	89482	94787							
J31	213	426	640	865	1078	1480															
J32	227	454	683	923	1150	1579															
J41	314	627	943	1274	1587	2179															
L4T	247	494	742	1003																	
LOH	1537	3074	4621	6245	7781	10683	13437	16089	18664	21179	23645										
M11	4773	9546	12908	17630	22203	31065	39677	48121	56441	64666	72813	80895	88923	96903	104843	112745	120615				
M1F	4773	9546	12908	17630	22203	31065	39677	48121	56441	64666	72813	80895	88923	96903	104843	112745	120615				
M80	1985	4001	5467	7503	9473	13291	17002	20641	24227	27772											
M82	1985	4001	5467	7503	9473	13291	17002	20641	24227	27772											
M83	1985	4001	5467	7503	9473	13291	17002	20641	24227	27772											
M87	1825	3679	5027	6898	8710	12220	15632	18977	22275	25534											
M88	1985	4001	5467	7503	9473	13291	17002	20641	24227	27772											
M90	1672	3430	4585	6212	7772	10766	13648														
MA6	549	1099	1447	1889																	
NDE	105	210	306	407	501	679															
PA1	44	89	144	192																	
PA2	86	173	260	351	437	601															
PAG	44	89	144	192	238	324															
PAT	44	89	134	181	225	309															
PL2	164	327	492	665	828	1137															
S20	695	1368	1991	2602	3132	3998															
S76	217	435																			
SF3	378	714	948	1112	1174																
SFB	378	714	948	1112	1174	1031															
SH6	314	627	943	1274																	
SU9	1543	3087	4064	5306	6478	8686															
SWM	219	438	659	890	1109	1523															
T20	4472	8257	10158	13245	16176	21720	26973	32023	36919	41694											
TU3	3006	5013	5941	7470	8946																

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	Code	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
TU5	4472	8257	10158	13245	16176	21720	26973	32023	36919	41694											
YK2	2948	5261	6004	7613	9163	12121	14937														
YK4	630	1259	1658	2165																	
YN2	208	416	625	845	1053	1446															
YN7	549	1099	1652	2232	2781																
312	2766	5828	8200	11325	14377	20340	26185	31954	37667	43339	48979										
32F	1672	3430	4585	6212	7772	10766	13648	16452													
703	4281	8557	10973	14500	17820	24049	29906	35501	40894	46122	51212	56181	61044								
707	4281	8557	10973	14500	17820	24049	29906	35501	40894	46122	51212	56181	61044								
70F	4281	8557	10973	14500	17820	24049	29906	35501	40894	46122	51212	56181	61044								
70M	4281	8557	10973	14500	17820	24049	29906	35501	40894	46122	51212	56181	61044								
721	2550	5100	6548	8663	10659	14418	17973	21386	24693												
722	2870	5891	7884	10688	13379	18544	23517	28361	33106												
72A	2870	5891	7884	10688	13379	18544	23517	28361	33106												
72M	2870	5891	7884	10688	13379	18544	23517	28361	33106												
72S	2870	5891	7884	10688	13379	18544	23517	28361	33106												
73A	1778	3708	4962	6727	8421	11672	14802	17850	20838	23777	26676										
73S	1778	3708	4962	6727	8421	11672	14802	17850	20838	23777	26676										
741	5605	11509	16880	23888	30853	44725	58580	72448	86341	100265	114224	128218	142247	156312	170411	184544	198710	212909			
742	5508	11311	16590	23478	30323	43957	57575	71204	84859	98545	112264	126017	139806	153629	167486	181377	195300	209254			
743	5273	10827	15880	22473	29024	42074	55108	68154	81224	94323	107455	120620	133818	147049	160312	173608	186934	200291			
74C	5508	11311	16590	23478	30323	43957	57575	71204	84859	98545	112264	126017	139806	153629	167486	181377	195300	209254			
74D	5273	10827	15880	22473	29024	42074	55108	68154	81224	94323	107455	120620	133818	147049	160312	173608	186934	200291			
74J	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938			
74M	4719	9690	14212	20113	25977	37657	49323	60999	72696	84420	96173	107956	119768	131607	140292	148734	156946	164938			
74R	5605	11509	16880	23888	30853	44725	58580	72448	86341	100265	114224	128218	142247	156312	170411	184544	198710	212909			
74T	5605	11509	16880	23888	30853	44725	58580	72448	86341	100265	114224	128218	142247	156312	170411	184544	198710	212909			
74X	5508	11311	16590	23478	30323	43957	57575	71204	84859	98545	112264	126017	139806	153629	167486	181377	195300	209254			
75M	2302	4729	6332	8588	10753	14911	18916	22816	26639	30098											
76X	2865	5893	8235	11327	14338	20203	25934	31576	37155	42684	48173	53631	58640	62452	66072	69508					
A28	278	556	835	1129	1406	1931															
A4F	12347	24693	31970	42058	51578	69507	86445	102700	118444	133782											
ACD	64	127	167	219	267	358															
AN7	1235	2469	3251	4244	5183	6949	8617	10216													
AR7	1243	2657	3739	5074	6369	8877	11315														
AT3	360	723	1093	1486	1863	2588															
ATF	434	891	1409	1996	2603	3891	5293														
B11	1790	3597	4677	6266	7806	10821	13814														
B12	1790	3597	4677	6266	7806	10821	13814														
B13	1790	3597	4677	6266	7806	10821	13814														
B14	1790	3597	4677	6266	7806	10821	13814														
B15	1790	3597	4677	6266	7806	10821	13814														
CCJ	803	1605	2113	2759	3369	4517	5601	6640	7647	8627											
CD2	213	426	640																		
CL4	2001	4003	6017	8132	10131	13909	17495	20948	24301	27576	30786	33941									
CS5	370	741	1114	1505	1875	2574	3238														
CVR	765	1531	2301	3110	3875	5320															
D10	4773	9701	13555	18646	23601	33256	42690	51978	61160	70261	79298	88282	97222	106124	114994	123835	132651	141445			
D11	4534	9216	12877	17713	22421	31593	40555	49379	58102	66748	75333	83868	92361	100818	109244	117643	126019	134372			
D1C	4773	9701	13555	18646	23601	33256	42690	51978	61160	70261	79298	88282	97222	106124	114994	123835	132651	141445			

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	Code	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
D1Y	4773	9701	13555	18646	23601	33256	42690	51978	61160	70261	79298	88282	97222	106124	114994	123835	132651	141445			
D3F	235	469	758	1014	1256	1711															
D8F	3986	7971	10233	13539	16657	22533	28088	33422	38590	43628	48558	53397	58158	62851							
D8X	3986	7971	10233	13539	16657	22533	28088	33422	38590	43628	48558	53397	58158	62851							
D8Y	3710	7420	9526	12603	15507	20977	26148	31113	35924	40614	45203	49708	54140	58509							
D91	1638	3364	4501	6102	7639	10588	13427	16193													
D92	1659	3405	4556	6177	7732	10717	13591	16390													
D94	1904	3908	5230	7090	8875	12301	15600	18813													
D95	1965	4034	5399	7319	9162	12699	16106	19422													
D9S	1773	3640	4871	6604	8267	11458	14531	17524													
DC6	835	1671	2700	3611	4471	6093	7629	9106	10538	11936	13305	14649									
DC8	3986	7971	10233	13539	16657	22533	28088	33422	38590	43628	48558	53397	58158	62851							
DF2	586	1173	1544	2016	2462	3301	4093	4853	5588												
DFL	586	1173	1544	2016	2462	3301	4093	4853	5588	6304	7004	7691	8367								
DHB	69	137	222	296																	
DHO	80	161	259	347																	
DHS	80	161	259	347																	
F21	1543	3087	4640	6271	7812																
F22	1543	3087	4640	6271	7812																
F23	1543	3087	4640	6271	7812																
F24	1543	3087	4640	6271	7812																
F27	596	1191	1791	2420	3015	4140	5207														
FK7	596	1191	1791	2420	3015																
GRG	99	198	319	427	529	721															
GRM	154	309	499	667	826	1126															
GRS	556	1111	1670	2257	2812	3861	4857														
HEC	32	64	104	139																	
HS7	567	1133	1704	2303	2869	3939															
IL6	9910	12650	13939	17878	21753	29192	36537	44075	51582	59098	66647	74246	81909								
IL8	1574	3148	4732	6396	7968	10940	13760	16476	19114	21690											
ILW	9188	17253	20999	27039	32800	43717	54068	64020	73669	83075	92282										
JST	251	503	755	1021	1272	1746															
L10	4654	9742	13612	18725	23702	33397	42871	52198	61420	70560	79635	88657	97635	106575	115483						
L11	4654	9742	13612	18725	23702	33397	42871	52198	61420	70560	79635	88657									
L12	4654	9742	13612	18725	23702	33397	42871	52198	61420	70560	79635	88657									
L15	5038	10133	13264	17640	21867	30100	38219	46338	54517	62791	71185	79714	88391	97224	106219						
L1F	4654	9742	13612	18725	23702	33397	42871	52198	61420	70560	79635	88657	97635	106575	115483						
L49	1482	2963	4789	6405	7931	10808	13533	16152	18693	21172											
LOE	1790	3579	5380	7271	9059	12438	15644	18731	21730												
LOF	1790	3579	5380	7271	9059	12438	15644	18731	21730												
LOM	1790	3579	5380	7271	9059	12438	15644	18731	21730												
LRJ	420	840	1105	1443	1762	2363															
M1M	4773	9546	12908	17630	22203	31065	39677	48121	56441	64666	72813	80895	88923	96903	104843	112745	120615				
M81	1985	4001	5467	7503	9473	13291	17002	20641	24227	27772											
MBH	128	257	375	497	613	831															
MD9	161	322																			
MIH	554	1107	1617	2145	2644	3584															
MU2	185	370	599	801	991	1351															
ND2	233	467	702	948	1181	1622															
NDC	290	580	764	997	1218																

Equivalent Aircraft	Flight Distance (nm) / Fuel Consumption (kg)																				
	Code	125	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500
NDH	204	407	595	789	973	1319															
PL6	91	183	275	371																	
PN6	46	93	150	200	248	338															
S58	269	537	784	1040																	
S61	395	790																			
SFF	378	714	948	1112	1174	1031															
SH3	293	586	882	1191																	
SHB	2222	4445	6681	9030	11249	15445	19427	23261	26985	30621	34185	37689	41141	44546							
SHS	154	309	464	627																	
SSC	23103	46206	59318	78480	96559	130620	162820	193740	223700	252901											
T2F	4472	8257	10158	13245	16176	21720	26973	32023	36919	41694											
VCV	1729	3457	5196	7023	8749	12013	15110	18092	20988	23816	26589	29314	31998								
WWP	449	898	1182	1543	1884	2526															
YS1	544	1089	1637	2212	2756																
32N	1714	2360	3652	4944	6236	8849	11497	14146	16794	19442	22091	24739	27387	30036	32684						
32Q	2090	2790	4191	5592	6992	9794	12595	15919	19941	23964											
31N	1639	2256	3491	4726	5961	8460	10991	13523	16055	18587											
339	2304	3883	7042	10201	13360	19678	25995	32313	38631	44948	51266	57584	63902	70219	76537	82855	89173				
338	2304	3883	7042	10201	13360	19678	25995	32313	38631	44948	51266	57584	63902	70219	76537	82855	89173	95490	101808		
359	1904	3606	7011	10416	13821	20631	27441	34251	41061	47870	54680	61490	68300	75110	81920	88730	95540	102350	109159		
351	2170	4111	7993	11874	15756	23519	31283	39046	46809	54572	62336	70099	77862	85626	93389	101152	108916	116679	124442	132206	
221	1430	1988	3104	4220	5335	7567	9798	12029	14260												
223	1560	2209	3505	4802	6098	8691	11284	13877	16471												
7M8	1601	2245	3532	4820	6107	8682	11258	13833	16408	18983											
7M9	1810	2479	3817	5155	6493	9169	11845	14521	17197	19873											
789	2445	3925	6884	9842	12801	18719	24636	30554	36472	42389	48307	54224	60142	66060	71977	77895	83813	89730			
781	2855	4386	7448	10510	13572	19696	25820	31944	38068	44192	50315	56439	62563	68687	74811						
290	1377	1672	2551	3431	4310	6069	7827	9586													
295	1501	1823	2782	3741	4700	6617	8535	10453													

Appendix D: Airport codes mapped to City codes

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
AAA	AAA	AFZ	AFZ	ANI	ANI	AUA	AUA
AAE	AAE	AGA	AGA	ANM	ANM	AUC	AUC
AAL	AAL	AGB	MUC	ANR	ANR	AUH	AUH
AAN	AAN	AGF	AGF	ANS	ANS	AUQ	AUQ
AAQ	AAQ	AGH	AGH	ANU	ANU	AUR	AUR
AAR	AAR	AGP	AGP	ANV	ANV	AUS	AUS
AAT	AAT	AGR	AGR	ANX	ANX	AUX	AUX
AAX	AAX	AGS	AGS	AOE	ESK	AUY	AUY
ABA	ABA	AGT	AGT	AOG	AOG	AVA	AVA
ABB	ABB	AGU	AGU	AOI	AOI	AVL	AVL
ABD	ABD	AGX	AGX	AOJ	AOJ	AVN	AVN
ABE	ABE	AHB	AHB	AOK	AOK	AVP	AVP
ABI	ABI	AHE	AHE	AOR	AOR	AVV	AVV
ABJ	ABJ	AHO	AHO	AOU	AOU	AWD	AWD
ABL	ABL	AHU	AHU	APC	APC	AWZ	AWZ
ABQ	ABQ	AIA	AIA	APK	APK	AXA	AXA
ABR	ABR	AIN	AIN	APL	APL	AXD	AXD
ABS	ABS	AIT	AIT	APN	APN	AXF	AXF
ABT	ABT	AIU	AIU	APO	APO	AXM	AXM
ABU	ABU	AJA	AJA	APW	APW	AXP	AXP
ABV	ABV	AJF	AJF	AQG	AQG	AXR	AXR
ABX	ABX	AJI	AJI	AQI	AQI	AXT	AXT
ABY	ABY	AJK	AJK	AQJ	AQJ	AXU	AXU
ABZ	ABZ	AJL	AJL	AQP	AQP	AYP	AYP
ACA	ACA	AJN	AJN	ARA	ARA	AYQ	AYQ
ACC	ACC	AJR	AJR	ARC	ARC	AYT	AYT
ACE	ACE	AJU	AJU	ARD	ARD	AZD	AZD
ACH	ACH	AJY	AJY	ARH	ARH	AZN	AZN
ACK	ACK	AKF	AKF	ARI	ARI	AZO	AZO
ACR	ACR	AKJ	AKJ	ARK	ARK	AZR	AZR
ACT	ACT	AKL	AKL	ARM	ARM	AZS	AZS
ACV	ACV	AKN	AKN	ARN	STO	BAH	BAH
ACX	ACX	AKP	AKP	ART	ART	BAL	BAL
ACY	AIY	AKU	AKU	ARU	ARU	BAQ	BAQ
ACZ	ACZ	AKV	AKV	ARW	ARW	BAS	BAS
ADA	ADA	AKX	AKX	ASB	ASB	BAV	BAV
ADB	IZM	AKY	AKY	ASE	ASE	BAX	BAX
ADD	ADD	ALA	ALA	ASF	ASF	BAY	BAY
ADE	ADE	ALB	ALB	ASJ	ASJ	BBA	BBA
ADF	ADF	ALC	ALC	ASM	ASM	BBI	BBI
ADH	ADH	ALF	ALF	ASO	ASO	BBK	BBK
ADJ	AMM	ALG	ALG	ASP	ASP	BBN	BBN
ADK	ADK	ALH	ALH	ASR	ASR	BBO	BBO
ADL	ADL	ALO	ALO	ASU	ASU	BCD	BCD
ADQ	ADQ	ALS	ALS	ASV	ASV	BCI	BCI
ADU	ADU	ALW	ALW	ASW	ASW	BCM	BCM
ADV	ADV	AMA	AMA	ATA	ATA	BCN	BCN
ADZ	ADZ	AMD	AMD	ATC	ATC	BCV	BCV
AEB	AEB	AMH	AMH	ATH	ATH	BDA	BDA
AEP	BUE	AMM	AMM	ATK	ATK	BDB	BDB
AER	AER	AMQ	AMQ	ATL	ATL	BDH	BDH
AES	AES	AMS	AMS	ATM	ATM	BDJ	BDJ
AET	AET	AMV	AMV	ATQ	ATQ	BDL	HFD
AEY	AEY	ANC	ANC	ATW	ATW	BDO	BDO
AFA	AFA	ANE	ANE	ATY	ATY	BDP	BDP
AFL	AFL	ANF	ANF	ATZ	ATZ	BDQ	BDQ

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
BDS	BDS	BJF	BJF	BOO	BOO	BUQ	BUQ
BDU	BDU	BJI	BJI	BOS	BOS	BUR	BUR
BEB	BEB	BJL	BJL	BOY	BOY	BUS	BUS
BEG	BEG	BJM	BJM	BPE	BPE	BUW	BUW
BEJ	BEJ	BJR	BJR	BPL	BPL	BUX	BUX
BEL	BEL	BJT	BJT	BPM	BPM	BUZ	BUZ
BEM	BEM	BJV	BJV	BPN	BPN	BVA	BVA
BEN	BEN	BJW	BJW	BPS	BPS	BVB	BVB
BES	BES	BJX	BJX	BPT	BPT	BVC	BVC
BET	BET	BJZ	BJZ	BPX	BPX	BVE	BVE
BEW	BEW	BKC	BKC	BQA	BQA	BVG	BVG
BEY	BEY	BKG	BKG	BQB	BQB	BVH	BVH
BFC	BFC	BKI	BKI	BQJ	BQJ	BVV	BVV
BFF	BFF	BKK	BKK	BQK	SSI	BWA	BWA
BFI	SEA	BKM	BKM	BQN	BQN	BWE	BWE
BFJ	BFJ	BKO	BKO	BQS	BQS	BWI	WAS
BFL	BFL	BKQ	BKQ	BQT	BQT	BWK	BWK
BFN	BFN	BKS	BKS	BRA	BRA	BWN	BWN
BFS	BFS	BKW	BKW	BRC	BRC	BWT	BWT
BFV	BFV	BKY	BKY	BRD	BRD	BWX	BWX
BGA	BGA	BKZ	BKZ	BRE	BRE	BXB	BXB
BGF	BGF	BLA	BLA	BRI	BRI	BXR	BXR
BGG	BGG	BLE	BLE	BRL	BRL	BXU	BXU
BGI	BGI	BLI	BLI	BRM	BRM	BYC	BYC
BGM	BGM	BLJ	BLJ	BRN	BRN	BYK	BYK
BGN	BGN	BLL	BLL	BRO	BRO	BYO	BYO
BGO	BGO	BLQ	BLQ	BRQ	BRQ	BYP	BYP
BGR	BGR	BLR	BLR	BRR	BRR	BZE	BZE
BGW	BGW	BLV	BLV	BRS	BRS	BZG	BZG
BGY	MIL	BLZ	BLZ	BRU	BRU	BZN	BZN
BHB	BHB	BMA	STO	BRW	BRW	BZO	BZO
BHD	BFS	BMB	BMB	BSA	BSA	BZR	BZR
BHE	BHE	BME	BME	BSB	BSB	BZV	BZV
BHH	BHH	BMG	BMG	BSC	BSC	CAB	CAB
BHI	BHI	BMI	BMI	BSD	BSD	CAC	CAC
BHJ	BHJ	BMO	BMO	BSG	BSG	CAE	CAE
BHK	BHK	BMU	BMU	BSK	BSK	CAG	CAG
BHM	BHM	BMV	BMV	BSL	BSL	CAH	CAH
BHO	BHO	BMW	BMW	BSO	BSO	CAI	CAI
BHQ	BHQ	BNA	BNA	BSR	BSR	CAK	CAK
BHR	BHR	BNC	BNC	BST	BST	CAL	CAL
BHS	BHS	BND	BND	BSX	BSX	CAN	CAN
BHU	BHU	BNE	BNE	BTC	BTC	CAP	CAP
BHV	BHV	BNI	BNI	BTH	BTH	CAW	CAW
BHX	BHX	BNK	BNK	BTI	BTI	CAY	CAY
BHY	BHY	BNN	BNN	BTJ	BTJ	CBB	CBB
BIA	BIA	BNS	BNS	BTK	BTK	CBH	CBH
BIF	BIF	BNX	BNX	BTM	BTM	CBO	CBO
BIK	BIK	BNY	BNY	BTR	BTR	CBQ	CBQ
BIL	BIL	BOB	BOB	BTS	BTS	CBR	CBR
BIM	BIM	BOC	BOC	BTT	BTT	CBT	CBT
BIN	BIN	BOD	BOD	BTU	BTU	CCC	CCC
BIO	BIO	BOG	BOG	BTV	BTV	CCF	CCF
BIQ	BIQ	BOH	BOH	BUA	BUA	CCJ	CCJ
BIR	BIR	BOI	BOI	BUD	BUD	CCK	CCK
BIS	BIS	BOJ	BOJ	BUF	BUF	CCM	CCM
BJA	BJA	BOM	BOM	BUL	BUL	CCN	CCN
BJB	BJB	BON	BON	BUN	BUN	CCP	CCP

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
CCS	CCS	CJB	CJB	CRD	CRD	DAC	DAC
CCU	CCU	CJC	CJC	CRI	CRI	DAD	DAD
CCV	CCV	CJF	CJF	CRK	NCP	DAL	DFW
CDB	CDB	CJJ	CJJ	CRL	BRU	DAM	DAM
CDC	CDC	CJL	CJL	CRM	CRM	DAR	DAR
CDG	PAR	CJM	CJM	CRP	CRP	DAT	DAT
CDR	CDR	CJS	CJS	CRV	CRV	DAU	DAU
CDV	CDV	CJU	CJU	CRW	CRW	DAV	DAV
CEB	CEB	CKB	CKB	CSG	CSG	DAX	DAX
CEC	CEC	CKG	CKG	CSH	CSH	DAY	DAY
CED	CED	CKH	CKH	CSX	CSX	DBA	DBA
CEE	CEE	CKS	CKS	CSY	CSY	DBO	DBO
CEG	CEG	CKY	CKY	CTA	CTA	DBQ	DBQ
CEI	CEI	CKZ	CKZ	CTC	CTC	DBV	DBV
CEK	CEK	CLD	CLD	CTG	CTG	DCA	WAS
CEN	CEN	CLE	CLE	CTL	CTL	DCM	DCM
CEZ	CEZ	CLJ	CLJ	CTM	CTM	DCY	DCY
CFB	CFB	CLL	CLL	CTN	CTN	DDC	DDC
CFC	CFC	CLO	CLO	CTS	SPK	DDG	DDG
CFE	CFE	CLQ	CLQ	CTU	CTU	DEA	DEA
CFG	CFG	CLT	CLT	CUC	CUC	DEB	DEB
CFK	CFK	CLV	CLV	CUE	CUE	DEC	DEC
CFN	CFN	CLY	CLY	CUF	CUF	DED	DED
CFR	CFR	CMB	CMB	CUK	CUK	DEE	DEE
CFS	CFS	CME	CME	CUL	CUL	DEF	DEF
CFU	CFU	CMF	CMF	CUM	CUM	DEL	DEL
CGA	CGA	CMG	CMG	CUN	CUN	DEN	DEN
CGB	CGB	CMH	CMH	CUR	CUR	DFW	DFW
CGD	CGD	CMI	CMI	CUU	CUU	DGA	DGA
CGH	SAO	CMN	CAS	CUZ	CUZ	DGO	DGO
CGK	JKT	CMU	CMU	CVG	CVG	DGT	DGT
CGM	CGM	CMW	CMW	CVM	CVM	DHI	DHI
CGN	CGN	CMX	CMX	CVN	CVN	DHM	DHM
CGO	CGO	CND	CND	CVQ	CVQ	DHN	DHN
CGP	CGP	CNF	BHZ	CVT	CVT	DIB	DIB
CGQ	CGQ	CNJ	CNJ	CVU	CVU	DIE	DIE
CGR	CGR	CNM	CNM	CWA	AUW	DIG	DIG
CGY	CGY	CNP	CNP	CWB	CWB	DIK	DIK
CHA	CHA	CNQ	CNQ	CWL	CWL	DIL	DIL
CHC	CHC	CNS	CNS	CXB	CXB	DIN	DIN
CHG	CHG	CNX	CNX	CXI	CXI	DIO	DIO
CHO	CHO	CNY	CNY	CXJ	CXJ	DIR	DIR
CHQ	CHQ	COD	COD	CXR	CXR	DIS	DIS
CHS	CHS	COK	COK	CYB	CYB	DIU	DIU
CHT	CHT	COO	COO	CYD	CYD	DIW	DIW
CHX	CHX	COQ	COQ	CYO	CYO	DIY	DIY
CHY	CHY	COR	COR	CYP	CYP	DJB	DJB
CIA	ROM	COS	COS	CYS	CYS	DJE	DJE
CID	CID	COU	COU	CYX	CYX	DJG	DJG
CIF	CIF	CPC	CPC	CYZ	CYZ	DJJ	DJJ
CIH	CIH	CPD	CPD	CZE	CZE	DKR	DKR
CIJ	CIJ	CPE	CPE	CZH	CZH	DLA	DLA
CIT	CIT	CPH	CPH	CZL	CZL	DLC	DLC
CIU	SSM	CPO	CPO	CZM	CZM	DLE	DLE
CIX	CIX	CPR	CPR	CZS	CZS	DLG	DLG
CIY	CIY	CPT	CPT	CZU	CZU	DLH	DLH
CIZ	CIZ	CPV	CPV	CZX	CZX	DLI	DLI
CJA	CJA	CRA	CRA	DAB	DAB	DLM	DLM

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
DLU	DLU	DZA	DZA	ERF	ERF	FKB	FKB
DLY	DLY	DZN	DZN	ERH	ERH	FKI	FKI
DLZ	DLZ	EAM	EAM	ERI	ERI	FKQ	FKQ
DMB	DMB	EAR	EAR	ERL	ERL	FKS	FKS
DME	MOW	EAS	EAS	ERM	ERM	FLA	FLA
DMK	BKK	EAT	EAT	ERN	ERN	FLG	FLG
DMM	DMM	EAU	EAU	ERS	WDH	FLL	FLL
DMU	DMU	EBA	EBA	ERZ	ERZ	FLN	FLN
DNA	OKA	EBB	EBB	ESB	ANK	FLO	FLO
DND	DND	EBD	EBD	ESC	ESC	FLR	FLR
DNH	DNH	EBH	EBH	ESD	ESD	FLS	FLS
DNK	DNK	EBJ	EBJ	ESL	ESL	FLW	FLW
DNR	DNR	EBL	EBL	ESM	ESM	FMA	FMA
DNZ	DNZ	EBU	EBU	ESU	ESU	FMI	FMI
DOB	DOB	ECN	ECN	ETH	ETH	FMM	FMM
DOH	DOH	ECP	ECP	ETR	ETR	FMN	FMN
DOK	DOK	EDF	ANC	ETZ	ETZ	FMO	FMO
DOL	DOL	EDI	EDI	EUG	EUG	FNA	FNA
DOM	DOM	EDL	EDL	EUN	EUN	FNC	FNC
DOU	DOU	EDO	EDO	EUX	EUX	FNI	FNI
DOY	DOY	EDR	EDR	EVE	EVE	FNJ	FNJ
DPL	DPL	EEK	EEK	EVG	EVG	FNT	FNT
DPO	DPO	EFL	EFL	EVN	EVN	FOC	FOC
DPS	DPS	EGC	EGC	EVV	EVV	FOD	FOD
DPT	DPT	EGE	EGE	EWN	EWN	FOE	TOP
DQA	DQA	EGM	EGM	EWR	NYC	FON	FON
DQM	DQM	EGN	EGN	EXT	EXT	FOR	FOR
DRG	DRG	EGO	EGO	EYK	EYK	FPO	FPO
DRK	DRK	EGS	EGS	EYP	EYP	FRA	FRA
DRO	DRO	EIN	EIN	EYW	EYW	FRD	FRD
DRS	DRS	EJA	EJA	EZE	BUE	FRE	FRE
DRV	DRV	EJH	EJH	EZS	EZS	FRO	FRO
DRW	DRW	EJN	EJN	EZV	EZV	FRS	FRS
DSA	DSA	EKO	EKO	FAC	FAC	FRU	FRU
DSE	DSE	EKS	EKS	FAE	FAE	FRW	FRW
DSI	DSI	ELC	ELC	FAH	FAH	FSC	FSC
DSK	DSK	ELD	ELD	FAI	FAI	FSD	FSD
DSM	DSM	ELF	ELF	FAO	FAO	FSM	FSM
DSN	DSN	ELG	ELG	FAR	FAR	FSP	FSP
DTB	DTB	ELH	ELH	FAT	FAT	FSZ	FSZ
DTM	DTM	ELI	ELI	FAV	FAV	FTA	FTA
DTW	DTT	ELM	ELM	FAY	FAY	FTE	FTE
DUB	DUB	ELP	ELP	FBD	FBD	FTU	FTU
DUD	DUD	ELQ	ELQ	FBE	FBE	FUE	FUE
DUJ	DUJ	ELS	ELS	FBM	FBM	FUG	FUG
DUR	DUR	ELU	ELU	FCA	FCA	FUJ	FUJ
DUS	DUS	EMA	EMA	FCO	ROM	FUK	FUK
DUT	DUT	EMD	EMD	FDE	FDE	FUN	FUN
DVL	DVL	EML	EML	FDH	FDH	FUO	FUO
DVO	DVO	ENA	ENA	FDH	FDH	FUT	FUT
DWC	DWC	ENE	ENE	FEC	FEC	FVM	FVM
DWD	DWD	ENH	ENH	FEG	FEG	FWA	FWA
DWO	DWO	ENU	ENU	FEN	FEN	FYJ	FYJ
DXB	DXB	ENY	ENY	FEZ	FEZ	FYU	FYU
DXE	DXE	EOH	MDE	FGI	APW	GAE	GAE
DYG	DYG	EPR	EPR	FGU	FGU	GAF	GAF
DYR	DYR	EQS	EQS	FHZ	FHZ	GAJ	GAJ
DYU	DYU	ERC	ERC	FIH	FIH	GAL	GAL

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
GAM	GAM	GMO	GMO	GXH	GXH	HIJ	HIJ
GAN	GAN	GMP	SEL	GYA	GYA	HIN	HIN
GAU	GAU	GMR	GMR	GYD	BAK	HIR	HIR
GAY	GAY	GMZ	GMZ	GYE	GYE	HJJ	HJJ
GBB	GBB	GNA	GNA	GYG	GYG	HJR	HJR
GBD	GBD	GNB	GNB	GYL	GYL	HKD	HKD
GBE	GBE	GND	GND	GYN	GYN	HKG	HKG
GBT	GBT	GNS	GNS	GYS	GYS	HKK	HKK
GCC	GCC	GNV	GNV	GZO	GZO	HKN	HKN
GCH	GCH	GOA	GOA	GZP	AYT	HKT	HKT
GCI	GCI	GOB	GOB	GZT	GZT	HLA	HLA
GCK	GCK	GOH	GOH	HAA	HAA	HLD	HLD
GCM	GCM	GOI	GOI	HAC	HAC	HLH	HLH
GDE	GDE	GOJ	GOJ	HAD	HAD	HLN	HLN
GDL	GDL	GOM	GOM	HAH	YVA	HLP	JKT
GDN	GDN	GOP	GOP	HAJ	HAJ	HLZ	HLZ
GDQ	GDQ	GOQ	GOQ	HAK	HAK	HMA	HMA
GDT	GDT	GOT	GOT	HAM	HAM	HMB	HMB
GDX	GDX	GOU	GOU	HAN	HAN	HME	HME
GDZ	GDZ	GOV	GOV	HAQ	HAQ	HMI	HMI
GEA	NOU	GPA	GPA	HAS	HAS	HMO	HMO
GEG	GEG	GPI	GPI	HAU	HAU	HMV	HMV
GEL	GEL	GPS	GPS	HAV	HAV	HNA	HNA
GEO	GEO	GPT	GPT	HBA	HBA	HND	TYO
GES	GES	GRB	GRB	HBE	HBE	HNH	HNH
GET	GET	GRI	GRI	HBX	HBX	HNL	HNL
GEV	GEV	GRJ	GRJ	HCJ	HCJ	HNS	HNS
GFF	GFF	GRK	GRK	HCR	HCR	HNY	HNY
GFK	GFK	GRO	GRO	HDF	HDF	HOB	HOB
GFN	GFN	GRQ	GRQ	HDG	HDG	HOD	HOD
GGG	GGG	GRR	GRR	HDM	HDM	HOF	HOF
GGM	GGM	GRU	SAO	HDN	HDN	HOG	HOG
GGT	GGT	GRV	GRV	HDS	HDS	HOI	HOI
GHA	GHA	GRW	GRW	HDY	HDY	HOM	HOM
GHB	GHB	GRX	GRX	HEA	HEA	HON	HON
GIB	GIB	GRZ	GRZ	HEH	HEH	HOR	HOR
GIG	RIO	GSE	GOT	HEK	HEK	HOT	HOT
GIL	GIL	GSM	GSM	HEL	HEL	HOU	HOU
GIS	GIS	GSO	GSO	HER	HER	HOV	HOV
GIU	GIU	GSP	GSP	HET	HET	HOX	HOX
GIZ	GIZ	GST	GST	HFE	HFE	HPB	HPB
GJA	GJA	GTE	GTE	HFS	HFS	HPG	HPG
GJL	GJL	GTF	GTF	HFT	HFT	HPH	HPH
GJT	GJT	GTO	GTO	HGA	HGA	HPN	HPN
GKA	GKA	GTP	GTP	HGD	HGD	HRB	HRB
GKK	GKK	GTR	UBS	HGH	HGH	HRE	HRE
GLA	GLA	GTS	GTS	HGN	HGN	HRG	HRG
GLF	GLF	GUA	GUA	HGO	HGO	HRI	HRI
GLH	GLH	GUC	GUC	HGR	HGR	HRK	HRK
GLK	GLK	GUM	GUM	HGU	HGU	HRL	HRL
GLN	GLN	GUR	GUR	HHH	HHH	HRO	HRO
GLO	GLO	GUW	GUW	HHN	HHN	HSG	HSG
GLT	GLT	GVA	GVA	HHQ	HHQ	HSL	HSL
GLV	GLV	GVR	GVR	HHR	HHR	HSN	HSN
GLX	GLX	GWD	GWD	HHZ	HHZ	HSV	HSV
GMA	GMA	GWL	GWL	HIA	HIA	HTA	HTA
GMB	GMB	GWT	GWT	HIB	HIB	HTI	HTI
GME	GME	GXF	GXF	HID	HID	HTN	HTN

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
HTS	HTS	ILM	ILM	IXE	IXE	JNU	JNU
HUE	HUE	ILO	ILO	IXG	IXG	JNX	JNX
HUH	HUH	ILP	ILP	IXJ	IXJ	JNZ	JNZ
HUI	HUI	ILR	ILR	IXL	IXL	JOE	JOE
HUN	HUN	ILY	ILY	IXM	IXM	JOG	JOG
HUS	HUS	IMF	IMF	IXR	IXR	JOI	JOI
HUU	HUU	IMP	IMP	IXS	IXS	JOK	JOK
HUX	HUX	IMT	IMT	IXU	IXU	JOL	JOL
HUY	HUY	INB	INB	IXZ	IXZ	JOS	JOS
HUZ	HUZ	INC	INC	IZA	IZA	JPA	JPA
HVB	HVB	IND	IND	IZO	IZO	JPR	JPR
HVD	HVD	INH	INH	JAC	JAC	JQA	JQA
HVG	HVG	INL	INL	JAI	JAI	JRH	JRH
HVN	HVN	INN	INN	JAL	JAL	JRO	JRO
HWD	HWD	INU	INU	JAN	JAN	JSH	JSH
HXD	HXD	INV	INV	JAU	JAU	JSI	JSI
HYA	HYA	INZ	INZ	JAV	JAV	JSR	JSR
HYD	HYD	IOA	IOA	JAX	JAX	JST	JST
HYN	HYN	IOM	IOM	JBB	JBB	JSU	JSU
HYS	HYS	IOS	IOS	JBQ	JBQ	JSY	JSY
HZG	HZG	IPA	IPA	JBR	JBR	JTC	JTC
HZH	HZH	IPC	IPC	JCB	JCB	JTR	JTR
IAA	IAA	IPH	IPH	JCK	JCK	JTY	JTY
IAD	WAS	IPL	IPL	JDH	JDH	JUB	JUB
IAG	IAG	IPN	IPN	JDO	JDO	JUH	JUH
IAH	HOU	IPT	IPT	JDZ	JDZ	JUJ	JUJ
IAM	IAM	IQN	IQN	JED	JED	JUL	JUL
IAN	IAN	IQQ	IQQ	JEG	JEG	JUV	JUV
IAO	IAO	IQT	IQT	JEK	JEK	JUZ	JUZ
IAS	IAS	IRA	IRA	JER	JER	JXA	JXA
IBA	IBA	IRJ	IRJ	JFK	NYC	JYV	JYV
IBE	IBE	IRM	IRM	JFR	JFR	JZH	JZH
IBR	IBR	IRP	IRP	JGA	JGA	KAA	KAA
IBZ	IBZ	ISA	ISA	JGD	JGD	KAB	KAB
ICI	ICI	ISB	ISB	JGN	JGN	KAD	KAD
ICN	SEL	ISC	ISC	JGS	JGS	KAJ	KAJ
ICT	ICT	ISE	ISE	JHB	JHB	KAL	KAL
IDA	IDA	ISG	ISG	JHG	JHG	KAN	KAN
IDR	IDR	ISN	ISN	JHS	JHS	KAO	KAO
IEV	IEV	ISP	ISP	JIB	JIB	KAT	KAT
IFJ	IFJ	IST	IST	JIC	JIC	KAW	KAW
IFN	IFN	ISU	ISU	JIJ	JIJ	KAZ	KAZ
IFO	IFO	ITB	ITB	JIK	JIK	KBC	KBC
IGA	IGA	ITH	ITH	JIM	JIM	KBL	KBL
IGD	IGD	ITM	OSA	JIQ	JIQ	KBP	IEV
IGM	IGM	ITO	ITO	JIU	JIU	KBR	KBR
IGR	IGR	IUE	IUE	JJN	JJN	KBU	KBU
IGT	IGT	IVC	IVC	JKG	JKG	KBV	KBV
IGU	IGU	IVL	IVL	JKH	JKH	KCA	KCA
IIL	IIL	IWA	IWA	JKL	JKL	KCH	KCH
IJK	IJK	IWD	IWD	JKR	JKR	KCK	KCK
IKA	THR	IWJ	IWJ	JLN	JLN	KCM	KCM
IKI	IKI	IWK	IWK	JLR	JLR	KCT	KCT
IKS	IKS	IWO	IWO	JMK	JMK	KCZ	KCZ
IKT	IKT	IXA	IXA	JMS	JMS	KDH	KDH
ILD	ILD	IXB	IXB	JMU	JMU	KDI	KDI
ILG	ILG	IXC	IXC	JNB	JNB	KDL	KDL
ILI	ILI	IXD	IXD	JNG	JNG	KDM	KDM

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
KDO	KDO	KLO	KLO	KTD	KTD	LAW	LAW
KDU	KDU	KLR	KLR	KTE	KTE	LAX	LAX
KDV	KDV	KLU	KLU	KTG	KTG	LBA	LBA
KDY	KDY	KLV	KLV	KTL	KTL	LBB	LBB
KDZ	KDZ	KLW	KLW	KTM	KTM	LBC	LBC
KEF	REK	KLX	KLX	KTN	KTN	LBD	LBD
KEH	KEH	KMC	KMC	KTS	KTS	LBE	LBE
KEJ	KEJ	KMG	KMG	KTT	KTT	LBF	LBF
KEM	KEM	KMI	KMI	KTW	KTW	LBJ	LBJ
KEP	KEP	KMJ	KMJ	KUA	KUA	LBL	LBL
KER	KER	KMN	KMN	KUD	KUD	LBP	LBP
KET	KET	KMQ	KMQ	KUF	KUF	LBS	LBS
KEW	KEW	KMS	KMS	KUH	KUH	LBU	LBU
KFS	KFS	KMU	KMU	KUL	KUL	LBV	LBV
KGA	KGA	KMV	KMV	KUM	KUM	LCA	LCA
KGC	KGC	KND	KND	KUN	KUN	LCE	LCE
KGD	KGD	KNG	KNG	KUO	KUO	LCG	LCG
KGE	KGE	KNH	KNH	KUS	KUS	LCH	LCH
KGF	KGF	KNO	KNO	KUT	KUT	LCJ	LCJ
KGI	KGI	KNQ	KNQ	KUU	KUU	LCK	CMH
KGL	KGL	KNS	KNS	KUV	KUV	LCM	LCM
KGS	KGS	KNU	KNU	KVA	KVA	LCR	LCR
KGT	KGT	KNX	KNX	KVD	KVD	LCX	LCX
KGX	KGX	KOA	KOA	KVG	KVG	LCY	LON
KHD	KHD	KOE	KOE	KVK	KVK	LDB	LDB
KHE	KHE	KOI	KOI	KVL	KVL	LDE	LDE
KHG	KHG	KOJ	KOJ	KVX	KVX	LDH	LDH
KHH	KHH	KOK	KOK	KWA	KWA	LDS	LDS
KHI	KHI	KOO	KOO	KWE	KWE	LDU	LDU
KHM	KHM	KOP	KOP	KWI	KWI	LDY	LDY
KHN	KHN	KOS	KOS	KWJ	KWJ	LEA	LEA
KHS	KHS	KOT	KOT	KWL	KWL	LEC	LEC
KHT	KHT	KOV	KOV	KWM	KWM	LED	LED
KHV	KHV	KOW	KOW	KWN	KWN	LEI	LEI
KHY	KHY	KQT	KQT	KWZ	KWZ	LEJ	LEJ
KHZ	KHZ	KRF	KRF	KXF	KXF	LEN	LEN
KID	KID	KRK	KRK	KXK	KXK	LEQ	LEQ
KIE	KIE	KRL	KRL	KXU	KXU	LET	LET
KIF	KIF	KRN	KRN	KYA	KYA	LEX	LEX
KIH	KIH	KRO	KRO	KYP	KYP	LFM	LFM
KIJ	KIJ	KRP	KRP	KYU	KYU	LFT	LFT
KIM	KIM	KRR	KRR	KYZ	KYZ	LFW	LFW
KIN	KIN	KRS	KRS	KZI	KZI	LGA	NYC
KIR	KIR	KRT	KRT	KZN	KZN	LGB	LGB
KIS	KIS	KRY	KRY	KZO	KZO	LGG	LGG
KIT	KIT	KSA	KSA	KZR	KZR	LGI	LGI
KIV	KIV	KSC	KSC	KZS	KZS	LGK	LGK
KIX	OSA	KSD	KSD	LAD	LAD	LGL	LGL
KJA	KJA	KSF	KSF	LAE	LAE	LGP	LGP
KJH	KJH	KSH	KSH	LAF	LAF	LGQ	LGQ
KKA	KKA	KSJ	KSJ	LAI	LAI	LGW	LON
KKC	KKC	KSM	KSM	LAN	LAN	LHE	LHE
KKE	KKE	KSN	KSN	LAO	LAO	LHR	LON
KKJ	KKJ	KSO	KSO	LAP	LAP	LHW	LHW
KKN	KKN	KSQ	KSQ	LAQ	LAQ	LIF	LIF
KKR	KKR	KSU	KSU	LAR	LAR	LIG	LIG
KKX	KKX	KSX	KSX	LAS	LAS	LIH	LIH
KLX	KLX	KTA	KTA	LAU	LAU	LIL	LIL

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
LIM	LIM	LRE	LRE	MAB	MAB	MGA	MGA
LIN	MIL	LRH	LRH	MAD	MAD	MGB	MGB
LIQ	LIQ	LRM	LRM	MAF	MAF	MGF	MGF
LIR	LIR	LRR	LRR	MAG	MAG	MGH	MGH
LIS	LIS	LRS	LRS	MAH	MAH	MGM	MGM
LIT	LIT	LRT	LRT	MAJ	MAJ	MGQ	MGQ
LIW	LIW	LSA	LSA	MAM	MAM	MGS	MGS
LJG	LJG	LSC	LSC	MAN	MAN	MGT	MGT
LJU	LJU	LSE	LSE	MAO	MAO	MGW	MGW
LKA	LKA	LSH	LSH	MAQ	MAQ	MGZ	MGZ
LKB	LKB	LSI	SDZ	MAR	MAR	MHC	MHC
LKE	SEA	LSP	LSP	MAS	MAS	MHD	MHD
LKG	LKG	LST	LST	MAU	MAU	MHG	MHG
LKH	LKH	LSW	LSW	MBA	MBA	MHH	MHH
LKL	LKL	LSY	LSY	MBE	MBE	MHK	MHK
LKN	LKN	LTI	LTI	MBI	MBI	MHQ	MHQ
LKO	LKO	LTN	LON	MBJ	MBJ	MHT	MHT
LKY	LKY	LTO	LTO	MBL	MBL	MIA	MIA
LLA	LLA	LTT	LTT	MBS	MBS	MID	MID
LLB	LLB	LTX	LTX	MBT	MBT	MIG	MIG
LLF	LLF	LUD	LUD	MCE	MCE	MII	MII
LLI	LLI	LUG	LUG	MCG	MCG	MIM	MIM
LLK	LLK	LUH	LUH	MCI	MKC	MIR	MIR
LLV	LLV	LUK	CVG	MCK	MCK	MIS	MIS
LLW	LLW	LUM	LUM	MCO	ORL	MJD	MJD
LMC	LMC	LUN	LUN	MCP	MCP	MJF	MJF
LMM	LMM	LUO	LUO	MCT	MCT	MJI	MJI
LMN	LMN	LUQ	LUQ	MCV	MCV	MJM	MJM
LMP	LMP	LUR	LUR	MCW	MCW	MJN	MJN
LNB	LNB	LUV	LUV	MCX	MCX	MJT	MJT
LNE	LNE	LUW	LUW	MCY	MCY	MJU	MJU
LNJ	LNJ	LUX	LUX	MCZ	MCZ	MJV	MJV
LNK	LNK	LUZ	LUZ	MDC	MDC	MJZ	MJZ
LNV	LNV	LVI	LVI	MDE	MDE	MKC	MKC
LNY	LNY	LWB	LWB	MDG	MDG	MKE	MKE
LNZ	LNZ	LWN	LWN	MDK	MDK	MKG	MKG
LOD	LOD	LWO	LWO	MDL	MDL	MKK	MKK
LOE	LOE	LWS	LWS	MDQ	MDQ	MKL	MKL
LOH	LOH	LWY	LWY	MDT	HAR	MKM	MKM
LOK	LOK	LXA	LXA	MDU	MDU	MKP	MKP
LOO	LOO	LXG	LXG	MDW	CHI	MKQ	MKQ
LOP	LOP	LXR	LXR	MDZ	MDZ	MKW	MKW
LOS	LOS	LXS	LXS	MEA	MEA	MKY	MKY
LPA	LPA	LYA	LYA	MEB	MEL	MKZ	MKZ
LPB	LPB	LYB	LYB	MEC	MEC	MLA	MLA
LPD	LPD	LYC	LYC	MED	MED	MLB	MLB
LPF	LPF	LYG	LYG	MEE	MEE	MLE	MLE
LPI	LPI	LYH	LYH	MEG	MEG	MLG	MLG
LPK	LPK	LYI	LYI	MEH	MEH	MLH	MLH
LPL	LPL	LYP	LYP	MEI	MEI	MLI	MLI
LPM	LPM	LYR	LYR	MEL	MEL	MLM	MLM
LPP	LPP	LYS	LYS	MEM	MEM	MLN	MLN
LPQ	LPQ	LZC	LZC	MEQ	MEQ	MLO	MLO
LPS	LPS	LZH	LZH	MEX	MEX	MLU	MLU
LPT	LPT	LZO	LZO	MFE	MFE	MLX	MLX
LPY	LPY	LZR	LZR	MFM	MFM	MMB	MMB
LQM	LQM	LZY	LZY	MFR	MFR	MMD	MMD
LRD	LRD	MAA	MAA	MFU	MFU	MME	MME

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
MMH	MMH	MTR	MTR	NAW	NAW	NQU	NQU
MMJ	MMJ	MTT	MTT	NAY	BJS	NQX	EYW
MMK	MMK	MTV	MTV	NBC	NBC	NQY	NQY
MMO	MMO	MTY	MTY	NBE	NBE	NRA	NRA
MMU	MMU	MUA	MUA	NBO	NBO	NRE	NRE
MMX	MMA	MUB	MUB	NBS	NBS	NRK	NRK
MMY	MMY	MUC	MUC	NBX	NBX	NRN	NRN
MMZ	MMZ	MUK	MUK	NCE	NCE	NRT	TYO
MNA	MNA	MUN	MUN	NCJ	NCJ	NSH	NSH
MNC	MNC	MUR	MUR	NCL	NCL	NSI	YAO
MNG	MNG	MUW	MUW	NCN	NCN	NSK	NSK
MNL	MNL	MUX	MUX	NCU	NCU	NSN	NSN
MNU	MNU	MVB	MVB	NDB	NDB	NST	NST
MOB	MOB	MVD	MVD	NDG	NDG	NTD	NTD
MOC	MOC	MVP	MVP	NDJ	NDJ	NTE	NTE
MOF	MOF	MVR	MVR	NDR	NDR	NTG	NTG
MOG	MOG	MVT	MVT	NDU	NDU	NTL	NTL
MOI	MOI	MVY	MVY	NER	NER	NTQ	NTQ
MOL	MOL	MWF	MWF	NEV	NEV	NTX	NTX
MOQ	MOQ	MWX	MWX	NGB	NGB	NUE	NUE
MOT	MOT	MWZ	MWZ	NGE	NGE	NUI	NUI
MOU	MOU	MXH	MXH	NGK	NGK	NUK	NUK
MOV	MOV	MXL	MXL	NGO	NGO	NUL	NUL
MOZ	MOZ	MXP	MIL	NGQ	NGQ	NUS	NUS
MPA	MPA	MXS	MXS	NGS	NGS	NUU	NUU
MPH	MPH	MXV	MXV	NHV	NHV	NUX	NUX
MPL	MPL	MXX	MXX	NIF	NIF	NVA	NVA
MPM	MPM	MXZ	MXZ	NIM	NIM	NVI	NVI
MPN	MPN	MYA	MYA	NIU	NIU	NVK	NVK
MQF	MQF	MYD	MYD	NJC	NJC	NVT	NVT
MQJ	MQJ	MYF	SAN	NJF	NJF	NWI	NWI
MQL	MQL	MYG	MYG	NKC	NKC	NYA	NYA
MQM	MQM	MYJ	MYJ	NKG	NKG	NYI	NYI
MQN	MQN	MYR	MYR	NKM	NGO	NYM	NYM
MQP	NLP	MYT	MYT	NKT	NKT	NYO	STO
MQP	MQP	MYU	MYU	NLA	NLA	NYR	NYR
MQT	MQT	MYW	MYW	NLD	NLD	NYT	NYT
MQX	MQX	MYY	MYY	NLK	NLK	NYU	NYU
MRA	MRA	MZG	MZG	NLT	NLT	NYW	NYW
MRE	MRE	MZH	MZH	NMA	NMA	NZH	NZH
MRS	MRS	MZL	MZL	NME	NME	OAG	OAG
MRU	MRU	MZO	MZO	NNB	NNB	OAI	OAI
MRV	MRV	MZR	MZR	NNG	NNG	OAJ	OAJ
MRY	MRY	MZT	MZT	NNM	NNM	OAK	OAK
MRZ	MRZ	MZV	MZV	NNT	NNT	OAL	OAL
MSA	MSA	MZW	MZW	NNX	NNX	OAS	OAS
MSJ	MSJ	NAG	NAG	NNY	NNY	OAX	OAX
MSL	MSL	NAH	NAH	NOB	NOB	OBO	OBO
MSN	MSN	NAJ	NAJ	NOC	NOC	OBU	OBU
MSO	MSO	NAL	NAL	NOJ	NOJ	OCC	OCC
MSP	MSP	NAN	NAN	NOP	NOP	OCM	OCM
MSQ	MSQ	NAO	NAO	NOS	NOS	ODN	ODN
MSR	MSR	NAP	NAP	NOU	NOU	ODO	ODO
MST	MST	NAQ	NAQ	NOV	NOV	ODS	ODS
MSU	MSU	NAS	NAS	NOZ	NOZ	ODY	ODY
MSY	MSY	NAT	NAT	NPE	NPE	OER	OER
MSZ	MSZ	NAU	NAU	NPL	NPL	OGD	OGD
MTJ	MTJ	NAV	NAV	NQN	NQN	OGG	OGG

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
OGL	OGL	OTP	BUH	PEZ	PEZ	PMV	PMV
OGN	OGN	OTZ	OTZ	PFB	PFB	PMW	PMW
OGX	OGX	OUA	OUA	PFO	PFO	PMY	PMY
OGZ	OGZ	OUD	OUD	PFQ	PFQ	PMZ	PMZ
OHD	OHD	OUL	OUL	PGA	PGA	PNA	PNA
OHE	OHE	OUZ	OUZ	PGD	PGD	PND	PND
OHH	OHH	OVB	OVB	PGF	PGF	PNH	PNH
OHS	OHS	OVD	OVD	PGK	PGK	PNI	PNI
OIM	OIM	OVS	OVS	PGV	PGV	PNK	PNK
OIT	OIT	OWB	OWB	PGX	PGX	PNL	PNL
OKA	OKA	OXB	OXB	PHB	PHB	PNP	PNP
OKC	OKC	OZC	OZC	PHC	PHC	PNQ	PNQ
OKE	OKE	OZG	OZG	PHE	PHE	PNR	PNR
OKI	OKI	OZH	OZH	PHF	PHF	PNS	PNS
OKJ	OKJ	OZZ	OZZ	PHL	PHL	PNZ	PNZ
OKL	OKL	PAC	PTY	PHO	PHO	POA	POA
OLB	OLB	PAD	PAD	PHS	PHS	POG	POG
OLL	OLL	PAG	PAG	PHW	PHW	POI	POI
OLP	OLP	PAH	PAH	PHX	PHX	POJ	POJ
OLZ	OLZ	PAP	PAP	PIA	PIA	POL	POL
OMA	OMA	PAS	PAS	PIB	LUL	POM	POM
OMD	OMD	PAT	PAT	PIE	PIE	POP	POP
OME	OME	PAV	PAV	PIH	PIH	POR	POR
OMH	OMH	PAZ	PAZ	PIK	GLA	POS	POS
OMR	OMR	PBC	PBC	PIN	PIN	POZ	POZ
OMS	OMS	PBD	PBD	PIR	PIR	PPB	PPB
OND	OND	PBG	PBG	PIS	PIS	PPG	PPG
ONJ	ONJ	PBH	PBH	PIT	PIT	PPN	PPN
ONK	ONK	PBI	PBI	PIU	PIU	PPP	PPP
ONL	ONL	PBJ	PBJ	PIX	PIX	PPQ	PPQ
ONS	ONS	PBL	PBL	PIZ	PIZ	PPS	PPS
ONT	ONT	PBM	PBM	PJA	PJA	PPT	PPT
OOK	OOK	PBO	PBO	PJG	PJG	PQC	PQC
OOL	OOL	PBU	PBU	PJM	PJM	PQI	PQI
OPO	OPO	PBZ	PBZ	PKB	PKB	PQQ	PQQ
OPS	OPS	PCL	PCL	PKC	PKC	PQS	PQS
ORB	ORB	PCR	PCR	PKE	PKE	PRA	PRA
ORD	CHI	PDA	PDA	PKN	PKN	PRC	PRC
ORF	ORF	PDG	PDG	PKP	PKP	PRG	PRG
ORH	ORH	PDK	ATL	PKR	PKR	PRH	PRH
ORK	ORK	PDL	PDL	PKU	PKU	PRI	PRI
ORN	ORN	PDP	PDP	PKY	PKY	PRN	PRN
ORU	ORU	PDS	PDS	PKZ	PKZ	PSA	PSA
ORV	ORV	PDT	PDT	PLJ	PLJ	PSC	PSC
ORY	PAR	PDV	PDV	PLM	PLM	PSE	PSE
ORZ	ORZ	PDX	PDX	PLN	PLN	PSG	PSG
OSD	OSD	PED	PED	PLO	PLO	PSJ	PSJ
OSI	OSI	PEE	PEE	PLQ	PLQ	PSM	PSM
OSL	OSL	PEG	PEG	PLS	PLS	PSO	PSO
OSM	OSM	PEI	PEI	PLU	BHZ	PSP	PSP
OSR	OSR	PEK	BJS	PLW	PLW	PSR	PSR
OSS	OSS	PEM	PEM	PLX	PLX	PSS	PSS
OST	OST	PEN	PEN	PLZ	PLZ	PSU	PSU
OSW	OSW	PER	PER	PMC	PMC	PSZ	PSZ
OSY	OSY	PES	PES	PMF	PMF	PTG	PTG
OTD	OTD	PET	PET	PMI	PMI	PTH	PTH
OTH	OTH	PEU	PEU	PMO	PMO	PTJ	PTJ
OTI	OTI	PEW	PEW	PMR	PMR	PTP	PTP

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
PTY	PTY	RCY	RCY	RNN	RNN	SBP	CSL
PUB	PUB	RDB	RDB	RNO	RNO	SBW	SBW
PUE	PUE	RDD	RDD	RNS	RNS	SBY	SBY
PUF	PUF	RDM	RDM	ROA	ROA	SBZ	SBZ
PUG	PUG	RDU	RDU	ROB	MLW	SCC	SCC
PUJ	PUJ	RDZ	RDZ	ROC	ROC	SCE	SCE
PUK	PUK	REA	REA	ROI	ROI	SCK	SCK
PUM	PUM	REC	REC	ROK	ROK	SCL	SCL
PUQ	PUQ	REG	REG	ROO	ROO	SCM	SCM
PUS	PUS	REL	REL	ROP	ROP	SCN	SCN
PUU	PUU	REN	REN	ROR	ROR	SCO	SCO
PUW	PUW	REP	REP	ROS	ROS	SCQ	SCQ
PUY	PUY	RES	RES	ROT	ROT	SCT	SCT
PVA	PVA	RET	RET	ROV	ROV	SCU	SCU
PVD	PVD	REU	REU	ROW	ROW	SCW	SCW
PVG	SHA	REX	REX	RPR	RPR	SCY	SCY
PVH	PVH	RFD	RFD	RRG	RRG	SCZ	SCZ
PVK	PVK	RFP	RFP	RRR	RRR	SDD	SDD
PVL	PVL	RGA	RGA	RRS	RRS	SDE	SDE
PVR	PVR	RGI	RGI	RSA	RSA	SDF	SDF
PVU	PVU	RGK	RGK	RSD	RSD	SDJ	SDJ
PWM	PWM	RGL	RGL	RST	RST	SDK	SDK
PWQ	PWQ	RGN	RGN	RSU	RSU	SDL	SDL
PXM	PXM	RGS	RGS	RSW	FMY	SDN	SDN
PXO	PXO	RHD	RHD	RTA	RTA	SDP	SDP
PXU	PXU	RHI	RHI	RTB	RTB	SDQ	SDQ
PYH	PYH	RHO	RHO	RTI	RTI	SDR	SDR
PYJ	PYJ	RHT	RHT	RTM	RTM	SDU	RIO
PYY	PYY	RIA	RIA	RTW	RTW	SDV	TLV
PZB	PZB	RIB	RIB	RUA	RUA	SEA	SEA
PZH	PZH	RIC	RIC	RUH	RUH	SEB	SEB
PZI	PZI	RIG	RIG	RUN	RUN	SEK	SEK
PZO	PZO	RIS	RIS	RUP	RUP	SEN	SEN
PZU	PZU	RIW	RIW	RUR	RUR	SEU	SEU
QBC	QBC	RIX	RIX	RVD	RVD	SEZ	SEZ
QOW	QOW	RIY	RIY	RVE	RVE	SFA	SFA
QRO	QRO	RJA	RJA	RVK	RVK	SFB	SFB
QSC	QSC	RJH	RJH	RVN	RVN	SFD	SFD
QSF	QSF	RJK	RJK	RVT	RVT	SFG	SFG
QUO	QUO	RJL	RJL	RVV	RVV	SFH	SFH
RAB	RAB	RKA	RKA	RXS	RXS	SFJ	SFJ
RAE	RAE	RKS	RKS	RYG	RYG	SFL	SFL
RAH	RAH	RKV	REK	RYK	RYK	SFN	SFN
RAI	RAI	RKZ	RKZ	RYL	RYL	SFO	SFO
RAJ	RAJ	RLG	RLG	RZE	RZE	SFT	SFT
RAK	RAK	RLK	RLK	RZR	RZR	SGC	SGC
RAO	RAO	RLO	RLO	SAB	SAB	SGD	SGD
RAP	RAP	RMA	RMA	SAF	SAF	SGF	SGF
RAR	RAR	RMF	RMF	SAH	SAH	SGN	SGN
RAS	RAS	RMI	RMI	SAL	SAL	SGU	SGU
RBA	RBA	RMP	RMP	SAN	SAN	SGY	SGY
RBQ	RBQ	RMQ	RMQ	SAP	SAP	SHA	SHA
RBR	RBR	RMS	RMS	SAT	SAT	SHB	SHB
RBV	RBV	RMT	RMT	SAV	SAV	SHC	SHC
RBY	RBY	RNA	RNA	SAW	IST	SHD	SHD
RCB	RCB	RNB	RNB	SBA	SBA	SHE	SHE
RCH	RCH	RNJ	RNJ	SBH	SBH	SHG	SHG
RCM	RCM	RNL	RNL	SBN	SBN	SHH	SHH

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
SHJ	SHJ	SMS	SMS	STX	STX	TAG	TAG
SHL	SHL	SMX	SMX	SUB	SUB	TAH	TAH
SHM	SHM	SNA	SNA	SUF	SUF	TAI	TAI
SHP	SHP	SNC	SNC	SUG	SUG	TAK	TAK
SHR	SHR	SNE	SNE	SUJ	SUJ	TAL	TAL
SHV	SHV	SNN	SNN	SUK	SUK	TAM	TAM
SHW	SHW	SNO	SNO	SUN	SUN	TAO	TAO
SHX	SHX	SNP	SNP	SUR	SUR	TAP	TAP
SIC	SIC	SNR	SNR	SUV	SUV	TAS	TAS
SID	SID	SNU	SNU	SUX	SUX	TAT	TAT
SIF	SIF	SNW	SNW	SUY	SUY	TAY	TAY
SIN	SIN	SOB	SOB	SVA	SVA	TBB	TBB
SIP	SIP	SOC	SOC	SVB	SVB	TBG	TBG
SIS	SIS	SOF	SOF	SVC	SVC	TBH	TBH
SIT	SIT	SOG	SOG	SVD	SVD	TBI	TBI
SJC	SJC	SOJ	SOJ	SVG	SVG	TBO	TBO
SJD	SJD	SOM	SOM	SVI	SVI	TBP	TBP
SJE	SJE	SON	SON	SVJ	SVJ	TBS	TBS
SJI	SJI	SOQ	SOQ	SVK	SVK	TBT	TBT
SJJ	SJJ	SOU	SOU	SVL	SVL	TBU	TBU
SJL	SJL	SOW	SOW	SVN	SVN	TBW	TBW
SJO	SJO	SPB	STT	SVO	MOW	TBZ	TBZ
SJP	SJP	SPC	SPC	SVP	SVP	TCB	TCB
SJT	SJT	SPD	SPD	SVQ	SVQ	TCD	TCD
SJU	SJU	SPI	SPI	SVU	SVU	TCG	TCG
SJW	SJW	SPN	SPN	SVX	SVX	TCL	TCL
SJZ	SJZ	SPP	SPP	SWA	SWA	TCO	TCO
SKB	SKB	SPR	SPR	SWF	SWF	TCP	TCP
SKD	SKD	SPS	SPS	SWJ	SWJ	TCQ	TCQ
SKE	SKE	SPU	SPU	SWO	SWO	TCR	TCR
SKG	SKG	SPY	SPY	SWQ	SWQ	TCZ	TCZ
SKK	SKK	SQD	SQD	SXB	SXB	TDD	TDD
SKN	SKN	SQG	SQG	SXF	BER	TDG	TDG
SKO	SKO	SRE	SRE	SXK	SXK	TDX	TDX
SKP	SKP	SRG	SRG	SXM	SXM	TEE	TEE
SKT	SKT	SRI	SRI	SXR	SXR	TEK	TEK
SKU	SKU	SRP	SRP	SXZ	SXZ	TEN	TEN
SKX	SKX	SRQ	SRQ	SYD	SYD	TEQ	TEQ
SKZ	SKZ	SRY	SRY	SYM	SYM	TER	TER
SLA	SLA	SRZ	SRZ	SYO	SYO	TET	TET
SLC	SLC	SSA	SSA	SYQ	SJO	TFF	TFF
SLH	SLH	SSB	STX	SYR	SYR	TFI	TFI
SLI	SLI	SSG	SSG	SYS	SYS	TFN	TCI
SLL	SLL	SSH	SSH	SYX	SYX	TFS	TCI
SLM	SLM	SSJ	SSJ	SYZ	SYZ	TGC	TGC
SLN	SLN	SSR	SSR	SYZ	SYZ	TGD	TGD
SLP	SLP	STC	STC	SZA	SZA	TGG	TGG
SLU	SLU	STD	STD	SZB	KUL	TGI	TGI
SLW	SLW	STG	STG	SZE	SZE	TGM	TGM
SLY	SLY	STI	STI	SZF	SZF	TGO	TGO
SLZ	SLZ	STL	STL	SZG	SZG	TGP	TGP
SMA	SMA	STM	STM	SZI	SZI	TGR	TGR
SMF	SAC	STN	LON	SZK	SZK	TGU	TGU
SMI	SMI	STR	STR	SZX	SZX	TGZ	TGZ
SMK	SMK	STS	STS	SZZ	SZZ	THD	THD
SML	SML	STT	STT	TAB	TAB	THE	THE
SMQ	SMQ	STV	STV	TAC	TAC	THL	THL
SMR	SMR	STW	STW	TAE	TAE	THN	THN

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
THQ	THQ	TMT	TMT	TTQ	TTQ	UKB	UKB
THR	THR	TMU	TMU	TTT	TTT	UKG	UKG
THS	THS	TMW	TMW	TTU	TTU	UKK	UKK
THU	THU	TMX	TMX	TUB	TUB	UKX	UKX
THX	THX	TNA	TNA	TUC	TUC	ULB	ULB
THZ	THZ	TNC	TNC	TUF	TUF	ULD	ULD
TIA	TIA	TNE	TNE	TUG	TUG	ULG	ULG
TID	TID	TNG	TNG	TUI	TUI	ULH	ULH
TIF	TIF	TNH	TNH	TUK	TUK	ULK	ULK
TIH	TIH	TNJ	TNJ	TUL	TUL	ULN	ULN
TII	TII	TNK	TNK	TUN	TUN	ULO	ULO
TIJ	TIJ	TNN	TNN	TUO	TUO	ULV	ULV
TIM	TIM	TNO	TNO	TUP	TUP	ULZ	ULZ
TIN	TIN	TNR	TNR	TUR	TUR	UME	UME
TIP	TIP	TNW	TNW	TUS	TUS	UMS	UMS
TIR	TIR	TOB	TOB	TUU	TUU	UND	UND
TIU	TIU	TOE	TOE	TVC	TVC	UNG	UNG
TIV	TIV	TOF	TOF	TVF	TVF	UNK	UNK
TIZ	TIZ	TOG	TOG	TVS	TVS	UNN	UNN
TJA	TJA	TOH	TOH	TVU	TVU	UOA	UOA
TJK	TJK	TOL	TOL	TVY	TVY	UOX	UOX
TJL	TJL	TOS	TOS	TWF	TWF	UPG	UPG
TJM	TJM	TOY	TOY	TWT	TWT	UPN	UPN
TJN	TJN	TPA	TPA	TWU	TWU	URA	URA
TJQ	TJQ	TPE	TPE	TXF	TXF	URC	URC
TJS	TJS	TPP	TPP	TXK	TXK	URE	URE
TJU	TJU	TPQ	TPQ	TXL	BER	URG	URG
TKD	TKD	TPS	TPS	TXN	TXN	URJ	URJ
TKG	TKG	TQL	TQL	TYF	TYF	URS	URS
TKK	TKK	TRA	TRA	TYL	TYL	URT	URT
TKN	TKN	TRC	TRC	TYN	TYN	URY	URY
TKP	TKP	TRD	TRD	TYR	TYR	USA	USA
TKQ	TKQ	TRE	TRE	TYS	TYS	USH	USH
TKS	TKS	TRF	OSL	TZA	BZE	USK	USK
TKU	TKU	TRG	TRG	TZL	TZL	USM	USM
TKV	TKV	TRI	TRI	TZX	TZX	USN	USN
TKX	TKX	TRK	TRK	UAH	UAH	USR	USR
TLA	TLA	TRM	TRM	UAK	UAK	UST	UST
TLC	TLC	TRN	TRN	UAP	UAP	USU	USU
TLE	TLE	TRO	TRO	UAQ	UAQ	UTH	UTH
TLH	TLH	TRR	TRR	UBA	UBA	UTN	UTN
TLI	TLI	TRS	TRS	UBJ	UBJ	UTP	UTP
TLL	TLL	TRU	TRU	UBP	UBP	UTT	UTT
TLM	TLM	TRV	TRV	UCT	UCT	UUD	UUD
TLN	TLN	TRW	TRW	UDI	UDI	UUS	UUS
TLS	TLS	TRZ	TRZ	UDJ	UDJ	UVE	UVE
TLV	TLV	TSA	TPE	UDR	UDR	UVF	SLU
TMC	TMC	TSE	TSE	UEL	UEL	UYL	UYL
TME	TME	TSF	VCE	UEO	UEO	UYN	UYN
TMF	TMF	TSJ	TSJ	UET	UET	UYU	UYU
TMI	TMI	TSN	TSN	UFA	UFA	UZR	UZR
TMJ	TMJ	TSR	TSR	UGC	UGC	VAA	VAA
TMK	TMK	TST	TST	UIB	UIB	VAI	VAI
TML	TML	TSV	TSV	UIH	UIH	VAK	VAK
TMM	TMM	TTA	TTA	UII	UII	VAL	VAL
TMP	TMP	TTE	TTE	UIO	UIO	VAM	VAM
TMR	TMR	TTJ	TTJ	UIP	UIP	VAN	VAN
TMS	TMS	TTN	TTN	UKA	UKA	VAO	VAO

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
VAR	VAR	VPY	VPY	WRO	WRO	YCD	YCD
VAS	VAS	VQS	VQS	WSZ	WSZ	YCG	YCG
VAW	VAW	VRA	VRA	WTB	WTB	YCK	YCK
VBA	VBA	VRC	VRC	WTK	WTK	YCL	YCL
VBP	VBP	VRN	VRN	WUA	WUA	YCO	YCO
VBV	VBV	VSA	VSA	WUH	WUH	YCS	YCS
VBY	VBY	VST	VST	WUS	WUS	YCU	YCU
VCA	VCA	VTE	VTE	WUX	WUX	YCY	YCY
VCE	VCE	VTZ	VTZ	WUZ	WUZ	YDF	YDF
VCL	VCL	VUP	VUP	WVB	WVB	YDP	YDP
VCP	SAO	VUS	VUS	WWI	WWI	YDQ	YDQ
VCS	VCS	VVC	VVC	WWK	WWK	YEG	YEA
VCT	VCT	VVI	SRZ	WWT	WWT	YEI	BTZ
VCV	VCV	VVO	VVO	WXN	WXN	YEK	YEK
VDA	VDA	VVZ	VVZ	WYA	WYA	YER	YER
VDB	VDB	VXC	VXC	WYS	WYS	YES	YES
VDC	VDC	VXE	VXE	XAP	XAP	YEV	YEV
VDE	VDE	VXO	VXO	XBE	XBE	YFA	YFA
VDH	VDH	VYI	VYI	XBJ	XBJ	YFB	YFB
VDM	VDM	WAA	WAA	XCH	XCH	YFC	YFC
VDS	VDS	WAE	WAE	XCR	XCR	YFH	YFH
VDZ	VDZ	WAG	WAG	XFN	XFN	YFJ	YFJ
VEE	VEE	WAT	WAT	XFW	XFW	YFO	YFO
VEL	VEL	WAW	WAW	XGR	XGR	YFS	YFS
VER	VER	WBB	WBB	XIC	XIC	YGH	YGH
VFA	VFA	WBM	WBM	XIL	XIL	YGJ	YGJ
VGA	VGA	WDH	WDH	XIY	SIA	YGK	YGK
VGO	VGO	WEF	WEF	XJD	XJD	YGL	YGL
VGZ	VGZ	WEH	WEH	XKH	XKH	YGP	YGP
VHC	VHC	WEI	WEI	XKS	XKS	YGR	YGR
VHM	VHM	WGA	WGA	XMH	XMH	YGT	YGT
VHV	VHV	WGP	WGP	XMN	XMN	YGV	YGV
VHZ	VHZ	WHK	WHK	XMS	XMS	YGW	YGW
VIE	VIE	WIC	WIC	XNA	FYV	YGX	YGX
VIG	VIG	WIL	NBO	XNN	XNN	YGZ	YGZ
VII	VII	WIN	WIN	XQP	XQP	YHD	YHD
VIL	VIL	WJR	WJR	XRY	XRY	YHI	YHI
VIR	VIR	WJU	WJU	XSB	XSB	YHK	YHK
VIS	VIS	WKJ	WKJ	XSC	XSC	YHM	YHM
VIX	VIX	WLE	WLE	XUZ	XUZ	YHO	YHO
VKG	VKG	WLG	WLG	YAA	YAA	YHP	YHP
VKO	MOW	WLH	WLH	YAB	YAB	YHR	YHR
VKT	VKT	WLK	WLK	YAC	YAC	YHU	YMQ
VLC	VLC	WLP	WLP	YAG	YAG	YHY	YHY
VLD	VLD	WLS	WLS	YAK	YAK	YHZ	YHZ
VLG	VLG	WMI	WMI	YAM	YAM	YIC	YIC
VLI	VLI	WMN	WMN	YAP	YAP	YIE	YIE
VLL	VLL	WMO	WMO	YAT	YAT	YIF	YIF
VLN	VLN	WMR	WMR	YAX	YAX	YIH	YIH
VLY	VLY	WMX	WMX	YAY	YAY	YIK	YIK
VNO	VNO	WNH	WNH	YBC	YBC	YIN	YIN
VNS	VNS	WNN	WNN	YBG	YBG	YIO	YIO
VNX	VNX	WNP	WNP	YBK	YBK	YIW	YIW
VOG	VOG	WNZ	WNZ	YBL	YBL	YJT	YJT
VOL	VOL	WRE	WRE	YBP	YBP	YKA	YKA
VOZ	VOZ	WRG	WRG	YBR	YBR	YKF	YKF
VPE	VPE	WRL	WRL	YBX	YBX	YKG	YKG
VPS	VPS	WRN	WRN	YCB	YCB	YKL	YKL

Airport Code	City Code	Airport Code	City Code	Airport Code	City Code	Airport Code	City Code
YKM	YKM	YRB	YRB	YYF	YYF	ZQZ	ZQZ
YKQ	YKQ	YRG	YRG	YYG	YYG	ZRH	ZRH
YKS	YKS	YRL	YRL	YYH	YYH	ZRJ	ZRJ
YKU	YKU	YRT	YRT	YYJ	YYJ	ZSA	ZSA
YLC	YLC	YSB	YSB	YYQ	YYQ	ZSE	ZSE
YLE	YLE	YSG	YSG	YYR	YYR	ZSJ	ZSJ
YLH	YLH	YSJ	YSJ	YYT	YYT	ZTA	ZTA
YLL	YLL	YSK	YSK	YYU	YYU	ZTB	ZTB
YLW	YLW	YSM	YSM	YYY	YYY	ZTH	ZTH
YMK	YMK	YSO	YSO	YYZ	YYZ	ZUH	ZUH
YMM	YMM	YSY	YSY	YZF	YZF	ZUM	ZUM
YMN	YMN	YTE	YTE	YZG	YZG	ZVK	ZVK
YMO	YMO	YTG	YTG	YZP	YZP	ZYI	ZYI
YMP	YMP	YTH	YTH	YZR	YZR	ZYL	ZYL
YMT	YMT	YTL	YTL	YZS	YZS		
YMX	YMQ	YTM	YTM	YZT	YZT		
YNA	YNA	YTQ	YTQ	YZV	YZV		
YNB	YNB	YTS	YTS	YZY	YZY		
YNC	YNC	YTY	YTY	YZZ	YZZ		
YND	YND	YTZ	YTO	ZAD	ZAD		
YNG	YNG	YUB	YUB	ZAG	ZAG		
YNJ	YNJ	YUD	YUD	ZAH	ZAH		
YNO	YNO	YUL	YMQ	ZAJ	ZAJ		
YNP	YNP	YUM	YUM	ZAL	ZAL		
YNS	YNS	YUS	YUS	ZAM	ZAM		
YNT	YNT	YUT	YUT	ZAT	ZAT		
YNY	YNY	YUX	YUX	ZAZ	ZAZ		
YNZ	YNZ	YUY	YUY	ZBF	ZBF		
YOJ	YOJ	YVB	YVB	ZBL	ZBL		
YOL	YOL	YVM	YVM	ZBR	ZBR		
YOP	YOP	YVO	YVO	ZCL	ZCL		
YOW	YOW	YVP	YVP	ZCO	ZCO		
YPC	YPC	YVQ	YVQ	ZDY	ZDY		
YPH	YPH	YVR	YVR	ZEL	ZEL		
YPJ	YPJ	YVZ	YVZ	ZEM	ZEM		
YPL	YPL	YWB	YWB	ZFM	ZFM		
YPM	YPM	YWG	YWG	ZFN	ZFN		
YPO	YPO	YWH	YYJ	ZGS	ZGS		
YPR	YPR	YWJ	YWJ	ZGU	ZGU		
YPW	YPW	YWK	YWK	ZHA	ZHA		
YPX	YPX	YWL	YWL	ZHY	ZHY		
YPY	YPY	YWP	YWP	ZIG	ZIG		
YQB	YQB	YXC	YXC	ZIH	ZIH		
YQC	YQC	YXE	YXE	ZIX	ZIX		
YQD	YQD	YXH	YXH	ZKE	ZKE		
YQF	YQF	YXJ	YXJ	ZKG	ZKG		
YQG	YQG	YXL	YXL	ZKP	ZKP		
YQK	YQK	YXN	YXN	ZLO	ZLO		
YQL	YQL	YXP	YXP	ZLT	ZLT		
YQM	YQM	YXS	YXS	ZLX	ZLX		
YQQ	YQQ	YXT	YXT	ZMT	ZMT		
YQR	YQR	YXU	YXU	ZNA	ZNA		
YQT	YQT	YXX	YXX	ZND	ZND		
YQU	YQU	YXY	YXY	ZNE	ZNE		
YQX	YQX	YYB	YYB	ZNZ	ZNZ		
YQY	YQY	YYC	YYC	ZOS	ZOS		
YQZ	YQZ	YYD	YYD	ZPB	ZPB		
YRA	YRA	YYE	YYE	ZQN	ZQN		