

**Table 1. World total revenue traffic — international and domestic**  
(scheduled services, 2011–2020)

Year	Passengers		Passenger-km		Freight tonnes		Freight tonne-km		Mail tonne-km		Revenue tonne-km	
	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %
2011	2 883	6.1	5 263 525	6.6	49.3	2.2	190 690	0.3	4 913	3.1	689 870	5.0
2012	3 016	4.6	5 545 088	5.3	48.6	-1.4	188 701	-1.0	5 098	3.8	713 935	3.5
2013	3 151	4.5	5 849 663	5.5	49.7	2.3	189 452	0.4	5 482	7.5	744 237	4.2
2014	3 330	5.7	6 199 298	6.0	51.3	3.3	198 271	4.7	5 963	8.8	787 873	5.9
2015	3 571	7.2	6 664 145	7.5	51.6	0.5	200 816	1.3	6 427	7.8	836 006	6.1
2016	3 810	6.7	7 156 691	7.4	53.5	3.7	208 003	3.6	6 556	2.0	887 383	6.1
2017	4 079	7.1	7 729 711	8.0	57.3	7.1	227 164	9.2	7 311	11.5	962 989	8.5
2018	4 345	6.5	8 292 912	7.3	59.1	3.2	233 805	2.9	7 239	-1.0	1 022 161	6.1
2019	4 494	3.4	8 676 650	4.6	58.1	-1.7	228 371	-2.3	7 115	-1.7	1 052 154	2.9
2020	1 792	-60.1	2 990 002	-65.5	48.9	-15.8	190 220	-16.7	4 839	-32.0	474 087	-54.9

Source.— ICAO Air Transport Reporting Form A and A-S.

**Table 2. World revenue traffic — international**  
(scheduled services, 2011–2020)

Year	Passengers		Passenger-km		Freight tonnes		Freight tonne-km		Mail tonne-km		Revenue tonne-km	
	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %	(millions)	Annual increase %
2011	1 130	8.5	3 271 258	7.6	31.7	2.8	164 532	0.4	3 390	2.2	479 081	5.1
2012	1 197	6.0	3 471 885	6.1	31.2	-1.6	162 226	-1.4	3 518	3.8	495 434	3.4
2013	1 259	5.2	3 669 968	5.7	31.9	2.2	162 721	0.3	3 828	8.8	515 484	4.0
2014	1 340	6.4	3 898 005	6.2	33.0	3.6	170 745	4.9	4 204	9.8	546 855	6.1
2015	1 444	7.7	4 188 466	7.5	33.3	0.8	173 087	1.4	4 497	7.0	578 218	5.7
2016	1 554	7.6	4 509 999	7.7	34.4	3.5	179 060	3.5	4 783	6.4	613 086	6.0
2017	1 660	6.9	4 889 179	8.4	37.7	9.4	197 169	10.1	5 330	11.4	669 680	9.2
2018	1 775	6.9	5 236 465	7.1	38.9	3.4	203 251	3.1	5 283	-0.9	708 909	5.9
2019	1 853	4.4	5 479 210	4.6	38.0	-2.3	197 627	-2.8	5 307	0.4	726 371	2.5
2020	461	-75.1	1 349 301	-75.4	30.3	-20.3	161 098	-18.5	3 315	-37.5	293 438	-59.6

Source.— ICAO Air Transport Reporting Form A and A-S.

Presentation of 2020 Air Transport Statistical Results

**Table 3. Trends in load factors — international and domestic**  
(scheduled services, 2011–2020)

Year	Passenger-km (millions)	Seat-km available (millions)	Passenger load factor %	Freight tonne-km (millions)	Mail tonne-km (millions)	Revenue tonne-km (millions)	Total tonne-km available (millions)	Weight load factor %
2011	5 263 525	6 747 537	78	190 690	4 913	689 870	1 043 063	66
2012	5 545 088	7 031 359	79	188 701	5 098	713 935	1 074 431	66
2013	5 849 663	7 359 728	79	189 452	5 482	744 237	1 113 751	67
2014	6 199 298	7 776 485	80	198 271	5 963	787 873	1 176 983	67
2015	6 664 145	8 305 406	80	200 816	6 427	836 006	1 244 782	67
2016	7 156 691	8 914 050	80	208 003	6 556	887 383	1 327 640	67
2017	7 729 711	9 486 923	81	227 164	7 311	962 989	1 403 535	69
2018	8 292 912	10 147 668	82	233 805	7 239	1 022 161	1 455 258	70
2019	8 676 650	10 530 769	82	228 371	7 115	1 052 154	1 517 365	69
2020	2 990 002	4 579 828	65	190 220	4 839	474 087	805 448	59

Source.— ICAO Air Transport Reporting Form A and A-S.

Table 4. Regional distribution of scheduled traffic — 2020

By ICAO statistical region	Aircraft kilometres (millions)	Aircraft departures (thousands)	Passengers carried (thousands)	Passenger-kilometres (millions)	Passenger load factor (%)	Freight tonne-km (millions)	Revenue tonne-km (millions)	Tonne-kilometres available (millions)	Weight load factor (%)
<b>Total (international and domestic) services</b>									
Europe	5,695	3,779	377,840	702,011	68	42,642	111,647	175,922	63
Percentage of world traffic	20.3	18.6	21.1	23.5		22.4	23.5	21.8	
Africa	651	505	35,989	59,406	61	3,827	9,691	20,052	48
Percentage of world traffic	2.3	2.5	2.0	2.0		2.0	2.0	2.5	
Middle East	1,854	665	86,232	257,979	60	27,843	52,376	92,478	57
Percentage of world traffic	6.6	3.3	4.8	8.6		14.6	11.0	11.5	
Asia and Pacific	9,979	7,350	772,995	1,136,390	68	67,567	174,026	278,996	62
Percentage of world traffic	35.6	36.2	43.1	38.0		35.5	36.7	34.6	
North America	8,434	6,687	397,121	671,480	60	43,099	105,855	205,463	52
Percentage of world traffic	30.1	33.0	22.2	22.5		22.7	22.3	25.5	
Latin America and Caribbean	1,399	1,304	121,390	162,736	75	5,241	20,492	32,538	63
Percentage of world traffic	5.0	6.4	6.8	5.4		2.8	4.3	4.0	
<b>Total</b>	<b>28,013</b>	<b>20,290</b>	<b>1,791,566</b>	<b>2,990,002</b>	<b>65</b>	<b>190,220</b>	<b>474,087</b>	<b>805,448</b>	<b>59</b>
<b>International services</b>									
Europe	4,264	2,227	240,710	531,083	67	41,473	94,383	148,772	63
Percentage of world traffic	36.3	49.1	52.2	39.4		25.7	32.2	30.1	
Africa	502	221	18,241	47,425	59	3,792	8,471	18,171	47
Percentage of world traffic	4.3	4.9	4.0	3.5		2.4	2.9	3.7	
Middle East	1,662	425	51,834	228,554	59	27,793	49,604	88,298	56
Percentage of world traffic	14.1	9.4	11.2	16.9		17.3	16.9	17.9	
Asia and Pacific	3,064	843	84,285	317,119	60	59,240	90,428	150,547	60
Percentage of world traffic	26.1	18.6	18.3	23.5		36.8	30.8	30.4	
North America	1,694	607	46,141	163,065	61	24,228	39,845	71,313	56
Percentage of world traffic	14.4	13.4	10.0	12.1		15.0	13.6	14.4	
Latin America and Caribbean	563	216	20,276	62,056	72	4,572	10,707	17,376	62
Percentage of world traffic	4.8	4.8	4.4	4.6		2.8	3.6	3.5	
<b>Total</b>	<b>11,749</b>	<b>4,539</b>	<b>461,487</b>	<b>1,349,301</b>	<b>63</b>	<b>161,098</b>	<b>293,438</b>	<b>494,477</b>	<b>59</b>

Note.— The sum of the individual regions may not match the totals due to rounding.

Source.— ICAO Air Transport Reporting Form A and A-S.

Table 5. Revenue tonne-kilometres and passenger-kilometres on scheduled services<sup>1,2</sup>  
 (countries and groups of countries whose airlines performed more than 100 million total tonne-kilometres in 2020<sup>3</sup>)

Country or group of countries	REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail)								REVENUE PASSENGER-KILOMETRES (millions)							
	Total services (international and domestic)				International services				Total services (international and domestic)				International services			
	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)
United States	1	97 187	198 235	-51	1	33 787	70 271	-52	2	608 724	1 698 805	-64	1	120 069	487 362	-75
China <sup>4</sup>	2	76 403	131 535	-42	2	16 931	47 011	-64	1	629 669	1 169 680	-46	5	43 424	317 787	-86
Hong Kong SAR <sup>5</sup>		10 357	27 458	-62		10 357	27 458	-62		22 554	159 668	-86		22 554	159 668	-86
Macao SAR <sup>6</sup>		100	638	-84		100	638	-84		910	6 119	-85		910	6 119	-85
United Arab Emirates	3	23 054	54 944	-58	3	23 054	54 944	-58	4	111 408	414 386	-73	2	111 408	414 386	-73
Qatar	4	18 876	28 537	-34	4	18 876	28 537	-34	13	57 173	172 589	-67	6	57 173	172 589	-67
Republic of Korea	5	16 536	28 993	-43	5	15 700	27 694	-43	19	41 115	189 826	-78	13	33 059	177 224	-81
Russian Federation	6	16 324	30 084	-46	14	6 300	17 468	-64	3	131 906	259 556	-49	16	29 487	128 179	-77
Japan	7	14 765	29 713	-50	9	9 778	18 895	-48	10	66 233	204 188	-68	19	22 545	105 074	-79
Turkey	8	14 421	27 552	-48	6	12 739	24 419	-48	8	73 686	202 496	-64	7	56 019	169 450	-67
Germany	9	10 908	32 388	-66	8	10 634	31 493	-66	15	53 329	250 462	-79	8	50 919	241 877	-79
United Kingdom	10	10 856	38 059	-71	7	10 652	37 266	-71	7	75 331	344 592	-78	4	73 016	335 479	-78
Netherlands	11	9 524	18 861	-50	10	9 401	18 849	-50	18	41 585	131 171	-68	11	40 492	131 057	-69
France	12	9 523	25 983	-63	13	6 706	20 498	-67	9	69 374	210 880	-67	9	44 972	162 944	-72
Canada	13	8 669	26 422	-67	15	6 058	19 598	-69	11	62 757	232 007	-73	10	42 996	172 306	-75
India	14	8 548	21 751	-61	23	2 637	8 781	-70	5	85 619	220 200	-61	17	23 879	81 304	-71
Luxembourg	15	7 446	7 444	0	11	7 446	7 444	0	79	1 008	2 562	-61	77	1 008	2 562	-61
Ireland	16	6 999	21 588	-68	12	6 979	21 573	-68	6	75 429	232 491	-68	3	75 237	232 343	-68
Brazil	17	6 123	13 196	-54	32	1 826	5 100	-64	12	58 124	135 078	-57	30	11 167	42 658	-74
Singapore	18	5 942	22 758	-74	16	5 942	22 758	-74	24	30 046	155 409	-81	14	30 046	155 409	-81
Mexico	19	5 826	11 981	-51	26	2 411	6 085	-60	16	50 926	109 056	-53	22	17 660	51 368	-66
Saudi Arabia	20	5 768	9 721	-41	18	3 852	7 558	-49	14	55 836	83 407	-33	12	35 782	61 110	-41
Australia	21	5 362	17 545	-69	20	3 091	10 730	-71	17	42 170	161 600	-74	21	19 535	91 148	-79
Ethiopia	22	4 548	6 986	-35	17	4 507	6 901	-35	30	16 407	45 289	-64	26	16 001	44 436	-64
Spain	23	4 481	15 128	-70	19	3 437	12 692	-73	20	39 851	145 472	-73	15	29 530	121 039	-76
Indonesia	24	4 474	11 203	-60	42	898	3 756	-76	21	37 789	101 949	-63	41	6 073	32 807	-81
Thailand	25	4 055	16 020	-75	22	2 781	13 634	-80	23	33 518	136 173	-75	20	20 895	112 528	-81
Viet Nam	26	3 617	7 710	-53	41	1 096	4 648	-76	22	33 632	73 958	-55	34	7 874	42 839	-82
Malaysia	27	3 244	12 673	-74	25	2 508	9 706	-74	25	24 847	116 121	-79	23	17 515	86 315	-80
Azerbaijan	28	2 890	2 247	29	21	2 879	2 207	30	83	899	4 503	-80	83	787	4 087	-81
Chile	29	2 780	4 952	-44	29	2 058	3 344	-38	32	13 855	40 483	-66	39	6 593	23 568	-72
Colombia	30	2 666	5 492	-51	28	2 154	4 033	-47	35	11 605	39 098	-70	38	6 891	25 202	-73
Switzerland	31	2 561	8 058	-68	24	2 557	8 043	-68	29	16 719	63 015	-73	25	16 680	62 862	-73
Hungary	32	2 342	6 304	-63	27	2 342	6 304	-63	26	23 808	64 987	-63	18	23 808	64 987	-63
Philippines	33	2 243	8 625	-74	34	1 714	6 639	-74	27	18 853	76 954	-76	27	14 351	59 141	-76
Italy	34	2 125	6 481	-67	31	1 866	5 803	-68	36	11 396	52 030	-78	31	8 956	45 212	-80
Belgium	35	1 971	3 971	-50	30	1 961	3 971	-51	44	7 130	26 367	-73	37	7 130	26 367	-73
Scandinavia <sup>7</sup>	36	1 902	9 282	-80	36	1 458	8 260	-82	31	15 870	82 737	-81	29	11 940	73 041	-84
New Zealand	37	1 888	4 823	-61	35	1 533	4 247	-64	34	11 843	38 452	-69	33	8 209	32 500	-75
Austria	38	1 774	5 332	-67	33	1 771	5 318	-67	28	16 978	49 993	-66	24	16 941	49 851	-66
Portugal	39	1 545	4 955	-69	37	1 429	4 639	-69	33	13 744	48 224	-71	28	12 613	44 973	-72
Egypt	40	1 361	3 104	-56	38	1 322	3 006	-56	39	9 334	26 437	-65	32	8 939	25 445	-65
Israel	41	1 236	3 329	-63	39	1 227	3 300	-63	52	4 152	24 250	-83	45	4 060	23 943	-83
Finland	42	1 218	4 543	-73	40	1 173	4 434	-74	41	8 148	38 539	-79	35	7 624	37 278	-80
Iran (Islamic Republic of)	43	1 212	2 343	-48	55	392	1 131	-65	37	11 030	23 566	-53	62	2 038	10 133	-80
South Africa	44	1 031	3 983	-74	58	327	1 875	-83	38	9 560	35 772	-73	55	2 705	15 167	-82
Pakistan	45	848	1 920	-56	44	692	1 686	-59	40	8 159	18 733	-56	40	6 581	16 380	-60
Panama	46	807	3 158	-74	43	803	3 148	-74	43	7 331	30 632	-76	36	7 299	30 531	-76
Peru	47	768	3 131	-75	52	425	2 173	-80	46	6 679	27 820	-76	52	3 336	18 442	-82
Kazakhstan	48	711	1 263	-44	63	213	749	-72	42	7 389	13 095	-44	58	2 180	7 637	-71
Argentina	49	698	3 167	-78	54	400	1 617	-75	45	6 848	32 071	-79	50	3 568	15 036	-76
Oman	50	649	3 449	-81	45	629	3 376	-81	47	5 986	28 870	-79	42	5 774	28 138	-79
Morocco	51	611	2 145	-72	46	576	2 070	-72	48	5 651	20 432	-72	43	5 299	19 677	-73
Poland	52	587	2 160	-73	47	571	2 116	-73	50	4 466	19 025	-77	44	4 282	18 526	-77
Sri Lanka	53	563	1 794	-69	48	563	1 794	-69	54	3 718	15 509	-76	49	3 718	15 509	-76
Bangladesh	54	537	1 186	-55	50	500	1 129	-56	51	4 303	10 516	-59	47	3 911	9 906	-61
Kuwait	55	500	1 995	-75	49	500	1 995	-75	53	4 017	17 468	-77	46	4 017	17 468	-77
Bahrain	56	498	1 503	-67	51	498	1 503	-67	56	3 371	13 149	-74	51	3 371	13 149	-74
Greece	57	491	1 520	-68	56	391	1 274	-69	49	4 810	14 957	-68	48	3 817	12 520	-70
Kenya	58	455	1 576	-71	53	422	1 489	-72	55	3 417	12 480	-73	53	3 096	11 636	-73
Iceland	59	344	1 469	-77	57	340	1 462	-77	61	2 130	13 677	-84	59	2 089	13 604	-85
Ukraine	60	300	1 538	-81	59	277	1 494	-81	57	3 139	16 038	-80	54	2 879	15 544	-81
Jordan	61	257	952	-73	60	256	950	-73	64	1 966	8 716	-77	63	1 958	8 700	-77
Uzbekistan	62	256	1 030	-75	61	246	993	-75	58	2 603	10 590	-75	56	2 490	10 185	-76
Lebanon	63	224	641	-65	62	224	641	-65	63	2 044	5 895	-65	61	2 044	5 895	-65
Tunisia	64	212	645	-67	64	211	640	-67	62	2 063	6 409	-68	60	2 055	6 348	-68
Romania	65	209	707	-70	68	181	654	-72	60	2 149	7 330	-71	64	1 859	6 768	-73
Czechia	66	206	819	-75	65	206	819	-75	59	2 232	8 735	-74	57	2 232	8 735	-74
Bolivia (Plurinational State of)	67	202	329	-39	80	100	186	-46	66	1 840	3 061	-40	78	884	1 676	-47
Mauritius	68	197	859	-77	66	192	848	-77	71	1 489	7 123	-79	68	1 435	7 007	-80
Nigeria	69	193														

Country or group of countries	REVENUE TONNE-KILOMETRES (millions) (passengers, freight and mail)								REVENUE PASSENGER-KILOMETRES (millions)							
	Total services (international and domestic)				International services				Total services (international and domestic)				International services			
	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)
Angola	79	130	472	-72	77	124	447	-72	76	1 117	4 465	-75	74	1 047	4 189	-75
Papua New Guinea	80	128	207	-39	90	52	129	-60	85	850	1 766	-52	99	239	1 016	-76
Trinidad And Tobago	81	114	395	-71	79	112	386	-71	86	819	3 478	-76	82	791	3 391	-77
Serbia	82	114	297	-62	78	114	297	-62	77	1 030	2 821	-63	75	1 030	2 821	-63
Ecuador	83	104	514	-80	86	67	374	-82	80	986	4 961	-80	86	609	3 503	-83
<b>Total for above countries (85)<sup>8</sup></b>		<b>459 978</b>	<b>1 028 265</b>	<b>-55</b>		<b>279 880</b>	<b>703 513</b>	<b>-60</b>		<b>2 953 544</b>	<b>8 524 192</b>	<b>-65</b>		<b>1 318 174</b>	<b>5 336 898</b>	<b>-75</b>
<b>Rest of the World</b>		<b>14 109</b>	<b>23 889</b>			<b>13 558</b>	<b>22 858</b>			<b>36 458</b>	<b>152 458</b>			<b>31 127</b>	<b>142 312</b>	
<b>World total</b>		<b>474 087</b>	<b>1 052 154</b>	<b>-55</b>		<b>293 438</b>	<b>726 371</b>	<b>-60</b>		<b>2 990 002</b>	<b>8 676 650</b>	<b>-66</b>		<b>1 349 301</b>	<b>5 479 210</b>	<b>-75</b>

1. The revenue tonne-kilometres (RTK) in all tables of this Appendix are based on the actual passenger weights reported and used by Member States.
2. Previous year traffic figures may have been restated based on actual reporting from Member States.
3. The ranking and the rate of increase or decrease may change when final data become available.
4. For statistical purposes, the data for China excludes the traffic for the Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) of China.
5. Traffic for the Hong Kong Special Administrative Region (SAR) of China.
6. Traffic for the Macao Special Administrative Region (SAR) of China.
7. Three States – Denmark, Norway and Sweden.
8. Includes the States listed in note 7.

Data coverage — **98.6%** official statistics reported by Member States, **1.4%** other sources and ICAO estimation methodology.  
Source.— ICAO Air Transport Reporting Form A and A-S.

**Table 6. Freight tonne-kilometres performed on scheduled services**  
(countries and groups of countries whose airlines performed more than 25 million freight tonne-kilometres in 2020<sup>1</sup>)

Country or group of countries	FREIGHT TONNE-KILOMETRES (millions)							
	Total services (international and domestic)				International services			
	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)
United States	1	40 793	42 498	-4	1	22 548	25 367	-11
China <sup>2</sup>	2	19 264	25 395	-24	2	12 884	17 904	-28
Hong Kong SAR <sup>3</sup>		8 085	11 739	-31		8 085	11 739	-31
Macao SAR <sup>4</sup>		9	26	-65		9	26	-65
Qatar	3	13 544	12 740	6	3	13 544	12 740	6
Republic of Korea	4	12 457	10 664	17	4	12 427	10 623	17
United Arab Emirates	5	12 172	14 766	-18	5	12 172	14 766	-18
Japan	6	7 842	8 919	-12	7	7 272	8 071	-10
Luxembourg	7	7 345	7 188	2	6	7 345	7 188	2
Turkey	8	6 870	6 816	1	8	6 849	6 784	1
Germany	9	5 455	7 764	-30	9	5 423	7 727	-30
Netherlands	10	5 305	5 656	-6	10	5 292	5 656	-6
Russian Federation	11	4 315	6 481	-33	12	3 608	5 805	-38
United Kingdom	12	3 675	5 851	-37	11	3 674	5 851	-37
Singapore	13	3 020	6 412	-53	13	3 020	6 412	-53
Ethiopia	14	2 897	2 450	18	14	2 897	2 450	18
France	15	2 468	4 523	-45	15	2 161	3 976	-46
Canada	16	2 306	3 109	-26	17	1 681	2 267	-26
Azerbaijan	17	2 030	1 620	25	16	2 030	1 619	25
Colombia	18	1 497	1 548	-3	18	1 455	1 479	-2
Chile	19	1 458	1 232	18	19	1 399	1 164	20
Belgium	20	1 265	1 353	-7	20	1 256	1 353	-7
Brazil	21	1 210	1 521	-20	27	754	1 048	-28
Australia	22	1 201	1 931	-38	21	1 112	1 795	-38
Italy	23	979	1 345	-27	22	977	1 343	-27
India	24	875	1 938	-55	35	374	1 138	-67
Switzerland	25	843	1 641	-49	23	843	1 640	-49
Malaysia	26	817	1 379	-41	25	789	1 315	-40
Israel	27	817	889	-8	24	817	889	-8
New Zealand	28	774	1 208	-36	26	761	1 192	-36
Mexico	29	733	1 073	-32	29	644	946	-32
Thailand	30	684	2 328	-71	28	674	2 306	-71
Indonesia	31	675	982	-31	37	280	463	-40
Saudi Arabia	32	649	2 043	-68	30	609	1 984	-69
Viet Nam	33	572	1 023	-44	34	381	771	-51
Spain	34	494	1 191	-59	31	482	1 173	-59
Finland	35	480	1 067	-55	32	480	1 067	-55
Egypt	36	439	483	-9	33	439	483	-9
Philippines	37	361	927	-61	36	282	722	-61
Scandinavia <sup>5</sup>	38	304	986	-69	39	250	914	-73
Portugal	39	280	537	-48	38	272	528	-48
Sri Lanka	40	226	394	-43	40	226	394	-43
Iran (Islamic Republic of)	41	202	152	33	41	192	142	36
Bahrain	42	192	311	-38	42	192	311	-38
Poland	43	141	318	-56	43	141	318	-56
Iceland	44	135	139	-3	44	135	139	-3
Ireland	45	132	175	-25	45	132	175	-25
Kuwait	46	120	365	-67	46	120	365	-67

Country or group of countries	FREIGHT TONNE-KILOMETRES (millions)							
	Total services (international and domestic)				International services			
	Rank number in 2020	2020	2019	Increase or decrease (%)	Rank number in 2020	2020	2019	Increase or decrease (%)
Bangladesh	47	118	169	-30	47	117	168	-30
Kenya	48	113	321	-65	48	113	319	-65
South Africa	49	102	565	-82	51	79	497	-84
Peru	50	96	340	-72	50	88	322	-73
Pakistan	51	96	193	-50	49	91	181	-50
Argentina	52	81	280	-71	52	78	265	-71
Jordan	53	75	154	-51	53	75	154	-51
Austria	54	75	320	-77	54	75	320	-77
Panama	55	73	95	-23	55	73	94	-22
Zambia	56	70	79	-12	56	70	79	-12
Mauritius	57	62	214	-71	57	62	214	-71
Oman	58	52	567	-91	58	52	562	-91
Morocco	59	46	102	-55	59	46	102	-55
Papua New Guinea	60	42	31	38	63	28	27	3
Brunei Darussalam	61	40	122	-67	60	40	122	-67
Trinidad And Tobago	62	32	47	-31	61	32	47	-31
Angola	63	29	68	-58	62	29	67	-58
<b>Total for above countries (65)<sup>6</sup></b>		<b>179 609</b>	<b>218 764</b>	<b>-18</b>		<b>150 533</b>	<b>188 071</b>	<b>-20</b>
<b>Rest of the World</b>		<b>10 611</b>	<b>9 607</b>			<b>10 565</b>	<b>9 556</b>	
<b>World total</b>		<b>190 220</b>	<b>228 371</b>	<b>-17</b>		<b>161 098</b>	<b>197 627</b>	<b>-18</b>

1. Some 2020 data are estimates, thus the ranking and the rate of increase or decrease may change when final data become available.
2. For statistical purposes, the data for China excludes the traffic for the Hong Kong and Macao Special Administrative Regions (Hong Kong SAR and Macao SAR) of China.
3. Traffic for the Hong Kong Special Administrative Region (SAR) of China.
4. Traffic for the Macao Special Administrative Region (SAR) of China.
5. Three States – Denmark, Norway and Sweden.
6. Includes the States listed in note 5.

Data coverage — **98.6%** official statistics reported by Member States, **1.4%** other sources and ICAO estimation methodology.  
Source. — ICAO Air Transport Reporting Form A and A-S.



**Table 7. Estimated international non-scheduled revenue passenger traffic, 2011–2020**

Category	Millions of revenue passenger-kilometres performed									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Non-scheduled traffic <sup>1</sup>	221 000	225 378	229 660	236 320	216 615	185 241	203 033	214 706	236 737	110 104
Annual change (%)	5.0	2.0	1.9	2.9	-8.3	-14.5	9.6	5.7	10.3	-53.5
Scheduled traffic	3 271 258	3 471 885	3 669 968	3 898 005	4 188 466	4 509 999	4 889 179	5 236 465	5 479 210	1 349 301
Annual change (%)	7.6	6.1	5.7	6.2	7.5	7.7	8.4	7.1	4.6	-75.4
Total traffic	3 492 258	3 697 263	3 899 628	4 134 325	4 405 081	4 695 240	5 092 213	5 451 172	5 715 947	1 459 405
Annual change (%)	7.6	5.9	5.5	6.0	6.5	6.6	8.5	7.0	4.9	-74.5
Non-scheduled traffic as percentage of total	6.3	6.1	5.9	5.7	4.9	3.9	4.0	3.9	4.1	7.5

1. Covers the non-scheduled traffic of scheduled airlines and non-scheduled operators.

Source.— ICAO Air Transport Reporting Form A and A-S.

**Table 8. Traffic at world's major airports**  
Top 25 airports ranked by total passengers, 2020

Rank No.	City	Airport	Passengers embarked and disembarked <sup>1</sup>			Aircraft movements <sup>2</sup>		
			2020 (thousands)	2019 (thousands)	2020/2019 (%)	2020 (thousands)	2019 (thousands)	2020/2019 (%)
1	Guangzhou	Guangzhou Bai Yun International Airport	43 768	73 395	-40.4	373	491	-24.0
2	Atlanta GA	Hartsfield-Jackson Atlanta International Airport	42 919	110 531	-61.2	548	904	-39.4
3	Chengdu	Chengdu Shuangliu International Airport	40 742	55 859	-27.1	312	367	-15.0
4	Dallas/Fort Worth TX	Dallas/Ft Worth International Airport	39 365	75 067	-47.6	515	720	-28.5
5	Shenzhen	Shenzhen Baoan International Airport	37 916	52 932	-28.4	320	370	-13.5
6	Chongqing	Chongqing Jiangbei International Airport	34 938	44 787	-22.0	275	318	-13.7
7	Beijing	Beijing Capital International Airport	34 514	100 014	-65.5	291	594	-51.0
8	Denver CO	Denver International Airport	33 741	69 016	-51.1	437	632	-30.9
9	Kunming	Kunming International Airport	32 991	48 076	-31.4	285	357	-20.2
10	Shanghai	Hongqiao International Airport	31 166	45 638	-31.7	219	273	-19.6
11	Xi'an	Xi'an-Xianyang International Airport	31 074	47 221	-34.2	256	346	-26.1
12	Tokyo	Tokyo International (Haneda) Airport	31 055	85 505	-63.7	280	458	-39.0
13	Chicago IL	O'Hare International Airport	30 860	84 649	-63.5	538	920	-41.5
14	Shanghai	Pudong International Airport	30 477	76 153	-60.0	326	512	-36.4
15	Los Angeles CA	Los Angeles International Airport	28 780	88 068	-67.3	379	691	-45.1
16	New Delhi	Indira Gandhi International Airport	28 501	68 491	-58.4	249	466	-46.7
17	Hangzhou	Hangzhou Xiaoshan International Airport	28 224	40 670	-30.6	237	291	-18.4
18	Charlotte NC	Charlotte Douglas International Airport	27 205	49 997	-45.6	398	578	-31.2
19	Dubai	Dubai International Airport	25 837	86 397	-70.1	184	373	-50.7
20	Istanbul	Istanbul International Airport	23 330	52 193	-55.3	186	330	-43.7
21	Paris	Aéroport de Paris-Charles de Gaulle	22 257	76 150	-70.8	221	505	-56.3
22	Las Vegas NV	McCarran International Airport	22 255	51 691	-56.9	323	553	-41.5
23	London	Heathrow Airport	22 111	80 888	-72.7	205	478	-57.2
24	Ho Chi Minh City	Tan Son Nhat International Airport	22 063	41 243	-46.5	162	261	-37.9
25	Mexico City	Aeropuerto Internacional de la Ciudad de México	21 982	50 308	-56.3	239	460	-48.0
<b>Total</b>			<b>768,070</b>	<b>1,654,938</b>	<b>-53.6</b>	<b>7,758</b>	<b>12,250</b>	<b>-36.7</b>

**Top 25 airports ranked by international passengers, 2020**

Rank No.	City	Airport	Passengers embarked and disembarked <sup>1</sup>			Aircraft movements <sup>2</sup>		
			2020 (thousands)	2019 (thousands)	2020/2019 (%)	2020 (thousands)	2019 (thousands)	2020/2019 (%)
1	Dubai	Dubai International Airport	25 831	86 329	-70.1	184	373	-50.7
2	Amsterdam	Amsterdam Airport Schiphol	20 881	71 680	-70.9	227	497	-54.2
3	London	Heathrow Airport	20 650	76 044	-72.8	191	438	-56.5
4	Paris	Aéroport de Paris-Charles de Gaulle	19 058	69 841	-72.7	180	445	-59.6
5	Frankfurt	Flughafen Frankfurt/Main	16 837	63 068	-73.3	173	439	-60.6
6	Istanbul	Istanbul International Airport	15 945	39 581	-59.7	123	246	-50.1
7	Doha	Hamad International Airport	12 522	38 787	-67.7	130	231	-43.7
8	Incheon	Incheon International Airport	11 956	70 578	-83.1	149	399	-62.6
9	Singapore	Singapore Changi Airport	11 635	67 601	-82.8	125	382	-67.3
10	Madrid	Aeropuerto de Adolfo Suárez Madrid-Barajas	11 052	44 919	-75.4	96	276	-65.2
11	Bangkok	Suvarnabhumi International Airport	9 710	52 933	-81.7	93	295	-68.6
12	London	Gatwick Airport	9 222	43 124	-78.6	71	255	-72.3
13	Hong Kong SAR	Hong Kong International Airport	8 814	71 288	-87.6	156	412	-62.0
14	Munich	Munich Airport	8 549	38 309	-77.7	99	308	-67.7
15	New York NY	John F. Kennedy International Airport	8 363	34 317	-75.6	76	179	-57.6
16	Kuala Lumpur	Kuala Lumpur International Airport	8 198	44 855	-81.7	77	276	-72.2
17	Zurich	Flughafen Zürich	8 133	30 794	-73.6	81	235	-65.6
18	Lisbon	Lisbon Airport	8 083	27 567	-70.7	72	187	-61.4
19	Toronto ON	Toronto Pearson International Airport	7 947	32 093	-75.2	81	244	-66.9
20	Barcelona	Aeropuerto de Barcelona-El Prat	7 893	38 632	-79.6	73	240	-69.4
21	Vienna	Vienna International Airport	7 653	30 960	-75.3	91	255	-64.3
22	Miami FL	Miami International Airport	7 407	22 384	-66.9	106	191	-44.6
23	Paris	Aéroport de Paris-Orly	7 248	21 960	-67.0	46	125	-63.3
24	Dublin	Dublin Airport	7 238	32 573	-77.8	81	229	-64.9
25	Tokyo	Narita International Airport	7 207	36 645	-80.3	106	207	-48.8
<b>Total</b>			<b>288,033</b>	<b>1,186,862</b>	<b>-75.7</b>	<b>2,885</b>	<b>7,365</b>	<b>-60.8</b>

1. Revenue and non-revenue air carrier passengers and passengers in direct transit; scheduled and non-scheduled services.

2. All aircraft movements (commercial and non-commercial).

Source.— ICAO Air Transport Reporting Form I, Airports Council International (ACI) and airport websites

**Table 9. Operating, net results<sup>1</sup> and variance analysis**  
(airlines of ICAO Member States)

Year	Operating revenues USD (millions)	Operating expenses USD (millions)	Operating result		Net result <sup>2</sup>	
			Amount USD (millions)	Percentage of operating revenues	Amount USD (millions)	Percentage of operating revenues
2010	563,500	535,900	27,600	4.9	17,300	3.1
2011	642,300	622,500	19,800	3.1	8,300	1.3
2012	705,500	687,100	18,400	2.6	9,200	1.3
2013	720,200	694,900	25,300	3.5	18,100	2.5
2014	766,900	725,200	41,700	5.4	17,300	2.3
2015	720,500	660,700	59,800	8.3	37,500	5.2
2016	709,000	643,800	65,200	9.2	35,600	5.0
2017	757,600	697,900	59,700	7.9	40,100	5.3
2018	814,200	763,300	50,900	6.3	33,400	4.1
2019 <sup>(3)</sup>	840,800	797,100	43,700	5.2	31,000	3.7
2020 <sup>(3,4)</sup>	381,100	493,100	-112,000	-29.4	-139,100	-36.5

**Analysis of variance in operating result (2020 over 2019)**

	2020	2019	Difference
Operating revenues, USD (millions)	381,100	840,800	-459,700
Operating expenses, USD (millions)	493,100	797,100	-304,000
Operating result, USD (millions)	-112,000	43,700	-155,700
RTK (millions)	523,964	1,099,219	-575,255
ATK (millions)	926,260	1,607,822	-681,562
Yield, USD (cent)	72.7	76.5	-3.8
Cost/ATK, USD (cent)	53.2	49.6	3.7
Weight load factor (%)	56.6	68.4	-11.8
Break-even weight load factor (%)	73.2	64.8	8.4

**Analysis of difference in operating revenues (2020 over 2019)**

Due to decrease in yield, USD (millions)	-19,684	
Due to decrease in traffic, USD (millions)	-440,016	
Net decrease in operating revenues, USD (millions)	-459,700	(A)

**Analysis of difference in operating expenses (2020 over 2019)**

Due to increase in unit cost, USD (millions)	33,894	
Due to decrease in capacity offered, USD (millions)	-337,894	
Net decrease in operating expenses, USD (millions)	-304,000	(B)
Net decrease in operating result (2020 over 2019), USD (millions)	-155,700	(A-B)

1. Revenues and expenses are estimated for non-reporting airlines.
2. The net result is derived from the operating result by adding (with plus or minus sign as appropriate) non-operating items (such as interest and direct subsidies) and income tax. The operating and net results quoted, are the small differences between the estimates of large figures (revenues and expenses) and are therefore susceptible to substantial uncertainties.
3. The net results for 2019 and 2020 have been provisionally estimated and exclude exceptional accounting items.
4. Complete financial data for 2020 has not been reported to ICAO at the time of writing because of variations in fiscal year reporting.

Source.— ICAO Air Transport Reporting Form EF plus ICAO estimates.

**Table 10. Commercial transport fleet<sup>1</sup> of ICAO Member States  
at the end of each year, 2011 - 2020**

Year	Turbojet		Turboprop		Total aircraft All types
	Number	Percentage	Number	Percentage	
2011	21 543	87.7	3 009	12.3	24 552
2012	22 255	88.1	2 997	11.9	25 252
2013	22 893	88.2	3 061	11.8	25 954
2014	23 587	88.5	3 066	11.5	26 653
2015	24 259	88.7	3 093	11.3	27 352
2016	25 060	88.9	3 117	11.1	28 177
2017	26 100	89.3	3 136	10.7	29 236
2018	27 183	89.5	3 196	10.5	30 379
2019	27 790	89.6	3 233	10.4	31 023
2020	27 932	89.9	3 126	10.1	31 058

1. Active and parked aircraft are included; aircraft having a maximum take-off mass of less than 9 000 kg (20 000 lbs) are not included.

Source.— Reed Business Information (RBI)

Table 11: Aviation Security

Year	Number of acts of unlawful interference	Number of acts of unlawful seizure		Number of acts of facility attack		Number of acts of sabotage	Other acts <sup>1</sup>	Number of persons injured or killed during acts of unlawful interference	
		Actual seizures	Attempted seizures	Actual facility attacks	Attempted facility attacks			Injured	Killed
1991	15	7	5	1	0	0	2	2	7
1992	10	6	2	1	0	0	1	123	10
1993	48	30	7	3	0	0	8	38	112
1994	43	22	5	4	0	2	10	57	51
1995	17	9	3	2	0	0	3	5	2
1996	22	3	12	4	0	0	3	159	134
1997	15	6	5	2	0	1	1	2	4
1998	17	11	2	1	0	0	3	1	41
1999	14	11	2	0	0	0	1	3	4
2000	30	12	8	1	0	0	9	50	58
2001 <sup>(2)</sup>	24	7	2	7	4	1	3	3 217	3 525
2002	40	2	8	24	2	2	2	14	186
2003	35	3	5	10	0	5	12	77	20
2004	16	1	4	2	2	4	3	8	91
2005	6	2	0	2	0	0	2	60	3
2006	17	1	3	4	0	1	8 <sup>(3)</sup>	27	2
2007	22	4	2	2	3	0	11	33	18
2008	23	1	6	3	0	0	13 <sup>(3)</sup>	31	11
2009	23	5	3	1	0	0	14 <sup>(3)</sup>	4	3
2010	14	0	1	1	0	1	11 <sup>(3)</sup>	13	6
2011	6	0	2	0	0	1	3 <sup>(3)</sup>	152	35
2012	10	1	2	2	0	0	5 <sup>(3)</sup>	44	20
2013	8	1	0	3	0	1	2 <sup>(3)</sup>	7	34
2014	21	2	2	9	0	1	7 <sup>(3)</sup>	44	334
2015	13	2	2	2	2	4	1	6	403
2016	9	2	0	5	0	2	0	319	58

1. Includes in-flight attacks and other acts of unlawful interference.

2. Official reports on the events of 11 September 2001 in the United States did not include the number of deaths and injuries on the ground. Therefore, estimated totals were taken from media sources.

3. Includes attempted sabotage.

Please note that starting from 2017 the categorization of the acts of unlawful interference has changed to the format presented below.

Year	Attack on aircraft in flight	Attack on airport/other aviation facility	Attack using aircraft as a weapon	Cyber-attack which endangers aviation safety	Unlawful seizure of aircraft	Other acts	Number of persons injured or killed during acts of unlawful interference	
							Deaths	Injuries
2017	1	9	1	1	2	7	8	9
2018	0	15	1	1	2	16	8	10
2019	2	10	2	5	3	25	6	12
2020	2	3	0	0	1	6	183	0