

EUROPEAN ORGANISATION
FOR THE SAFETY OF AIR NAVIGATION



EUROCONTROL EXPERIMENTAL CENTRE

**COVERAGE OF 2002 EUROPEAN AIR TRAFFIC
FOR THE BASE OF AIRCRAFT DATA (BADA)
REVISION 3.5**

EEC Note No. 22/03

Project ACE-C-E2

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Abstract: The air traffic statistics obtained from the CFMU for the ECAC European airspace for 2002 are used to determine the coverage of European air traffic by the Base of Aircraft Data (BADA). BADA consists of a set of aircraft models used at the EEC and other European research institutes for aircraft trajectory simulation. For the 2002 statistics, a 2-month traffic sample was used covering December & July of 2002. The results show that the 84 aircraft types within BADA 3.5 cover 76.48% of the European air traffic for the whole period compared to the annual target of 90%. The addition of 13 more original aircraft types would bring the coverage to the target of 90%. The synonym aircraft occupy a further 20.58% share of the total traffic.						

**Coverage of 2002 European Air Traffic
by the
Base of Aircraft Data (BADA) Revision 3.5**

EUROCONTROL Experimental Centre

Summary

The air traffic statistics obtained from the CFMU for the ECAC European airspace for 2002 are used to determine the coverage of European air traffic by the Base of Aircraft Data (BADA). BADA consists of a set of aircraft models used at the EEC and other European research institutes for aircraft trajectory simulation. For the 2002 statistics, a 2-month traffic sample was used covering December and July of 2002. The results show that the 84 aircraft types within BADA 3.5 cover 76.48% of the European air traffic for the whole period compared to the annual target of 90%. The addition of 13 more original aircraft types would bring the coverage to the target of 90%. The synonym aircraft occupy a further 20.58% share of the total traffic.

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1. INTRODUCTION

1.1 Identification and Scope

This document reviews the air traffic statistics for 2002 from the EUROCONTROL Central Flow Management Unit (CFMU) in order to determine the coverage of European air traffic provided by BADA (Base of Aircraft Data) Revision 3.5 [RD1].

BADA 3.5 is a collection of ASCII files, which specifies aircraft performance and operating procedure parameters for 87 different aircraft types*. From these aircraft models a further 180 other aircraft types can be supported as being equivalent. They are referred to in this note as synonym. The BADA information is designed for use in trajectory simulation and prediction algorithms within the domain of Air Traffic Management (ATM). All files are maintained within a configuration management system at the EUROCONTROL Experimental Centre (EEC) at Brétigny-sur-Orge, France.

*Note: in this note only 84 BADA aircraft models will be referred to. The 3 generic fighter models FGTN, FGTH, and FGTL do not hold an official ICAO code and do therefore not appear amongst the CFMU traffic data. They will however be referenced to when covering the BADA 3.5 synonym aircraft.

This document is presented in three sections, including Section 1, the Introduction. A discussion of the coverage statistics is presented in Section 2 with conclusions summarised in Section 3.

1.2 Referenced Documents

- RD1** User Manual for the Base of Aircraft Data (BADA) Revision 3.5;
EEC Note 11/03, July 2003
- RD2** Coverage of 2001 European Air Traffic for the Base of Aircraft Data (BADA)
Revision 3.5; EEC Note 09/02
- RD3** Aircraft Type Designators; ICAO Document No. 8643, 30th Edition; June 2002

1.3 Glossary of Acronyms

A/C	Aircraft
ASCII	American Standard Code for the Interchange of Information
BADA	Base of Aircraft Data
CFMU	Central Flow Management Unit
EEC	EUROCONTROL Experimental Centre
ECAC	European Civil Aviation Conference
ACE	ATM & CNS Systems Engineering
ICAO	International Civil Aviation Organisation

2. AIR TRAFFIC STATISTICS

2.1 CFMU Statistics

The primary European air traffic statistics for 2002 provided by the EUROCONTROL Central Flow Management Unit (CFMU), have been elaborated and are included in this EEC Note as Appendix A.

The statistics list all aircraft types that flew through ECAC airspace and flights registered with the CFMU in 2002 for a period of 2 months. For this report, the data sample provided by the CFMU contained 31 days during the month of December and 31 days during the month of July. Aircraft are listed in descending order based on the number of total flights for each aircraft type. For each aircraft type the following information is provided:

- aircraft type identifier *
- total number of flights,
- reference to BADA or Synonym type model
- percentage of flights, and,
- cumulative percentage of flights.

(All aircraft types refer to the ICAO aircraft designators in force at the time of publication [RD3].)

The following table provides a summary of information for the 2002 statistics. The same information is provided for the 2001 traffic sample for comparison (similar period).

	December & July 2002 (31 days)	December & July 2001 (31 days)
Total Number of Flights:	1377236	1298164
Total Number of aircraft types:	499	493
Number of aircraft types for 90% coverage	81	80
Number of aircraft types for 99% coverage	200	195
Number of aircraft types for 99.9% coverage	305	300

Table 1: 2002 & 2001 Traffic Sample Summary Information

2.2 Comparison with BADA

Appendix B provides a list of the 84 aircraft types modelled by BADA 3.5 [RD1]. In this list the aircraft types are ordered alphabetically by the ICAO code. For each of the 84 aircraft types, the percentage of air traffic and ranking as specified by the CFMU statistics, are given.

- 1) The 84 aircraft types modelled by BADA 3.5 are not the most important types in the CFMU traffic sample. That is according to the CFMU statistics, the top 84 aircraft types provide 89.47% coverage. The BADA 3.5 types provide only 76.48% coverage. This figure is slightly up by 1.63% when compared to last year's 2001 traffic data (74.75%) [RD2].
- 2) One of the factors influencing the increase in the 2002 coverage is likely to be due to the addition of 7 new aircraft models. They alone account for a 2.84% share of the total traffic.
- 3) BADA 3.5 contains 180 synonym aircraft types, which represent 20.58% of the total traffic sample (2 months). This figure has decreased very slightly when compared to the 20.83% coverage reported in the 2001 sample traffic [RD2]. 12 synonym aircraft were not found among the traffic sample which contains 499 aircraft types. They were; A6, AC80, B74D, BER4, D28D, EUFI, JS3, MG21, MG23, MG25, MG29, & SB32 .

It is worth noticing that the generic helicopter synonym is considered as equivalent for all helicopter categories. In this traffic data it can therefore be considered to represent a range of 40 helicopter types (0.46%). This percentage is identical to last year's figure (36 helicopter types with a 0.46% share). Similarly, the generic aircraft fighters can be seen to cover a total of 29 military aircraft types (0.17%).

BADA 3.5	
New Aircraft Models	New Synonym Aircraft
B712	P180
LJ45	GLEX
C750	C30J
RJ85	J328
B736	A7
B753	B52
A332	ETAR
	F117
	L159

Table 2: Main aircraft additions in BADA 3.5

- 4) There are several aircraft types with a significant proportion of the CFMU air traffic, which are not modelled by BADA 3.5. Some of these aircraft are listed in the following table. Their % share for the previous year 2001 is also displayed.

Aircraft Code	Name in Full	% Traffic 2002	% Traffic 2001
MD82	Boeing MD82	3.37%	3.76%
CRJ2	RJ-200 Regional Jet	1.89%	1.44%
RJ1H	RJ-100 Avroliner	1.39%	1.38%
B462	BAE-146-200	1.16%	1.17%
MD87	BOEING MD-87	0.93%	1.01%

Table 3 : Aircraft not modelled by BADA 3.5 with high traffic share

3. CONCLUSIONS

- (1) BADA 3.5 currently covers 76.48% of the European air traffic as specified by the EUROCONTROL CFMU. Synonym aircraft account for 20.58% of the traffic data.
- (2) The 2002 coverage is up by 1.63 % when compared to last year's 2001 traffic data. One of the major factors likely to contribute to this increase is the addition of 7 aircraft models.
- (3) 4 of the 5 aircraft types listed as occupying a high proportion of the CFMU traffic and not modelled by BADA 3.5 figure as BADA 3.5 synonym aircraft. The addition of these 4 synonym aircraft as aircraft models would have increased the coverage by a further 7.35 %.

The number of synonym aircraft continues to occupy a relatively high percentage.

- (4) The addition of 13 A/C types would have been necessary to reach the BADA target coverage of 90%. Similar to last year, the A/C type not modelled by BADA 3.5 which has the highest share of the European air traffic is still: *MD82 Boeing MD-82 (3.37% - ranked 6th)*

This aircraft will therefore be modelled for integration in the next BADA release, BADA 3.6.

The second aircraft in the same order not modelled in BADA 3.5 was *the CRJ2 RJ-200 Regional Jet (1.89% - ranked 12th)*.

No priority has been given to model this aircraft at present due to the similitude in performances with the available CRJ1 aircraft model.

APPENDIX A

CFMU Traffic Statistics

CFMU Traffic data listed by order of % importance. All BADA 3.5 aircraft appear in green

No.	A/C Type	FULL NAME	BADA SYNONYM	Total Traffic	% Total Traffic	Accum %
1	A320	AIRBUS A-320		105511	7.6611%	7.6611%
2	B733	BOEING 737-300		77011	5.5917%	13.2528%
3	B738	BOEING 737-800		64283	4.6675%	17.9203%
4	B734	BOEING 737-400		50409	3.6602%	21.5805%
5	B735	BOEING 737-500		47068	3.4176%	24.9980%
6	MD82	BOEING MD-82	MD83	46417	3.3703%	28.3683%
7	E145	EMBRAER EMB-145		42737	3.1031%	31.4714%
8	A319	AIRBUS A-319		41553	3.0171%	34.4886%
9	A321	AIRBUS A-321		40155	2.9156%	37.4042%
10	AT72	ATR-72		39856	2.8939%	40.2981%
11	B752	BOEING 757-200		36761	2.6692%	42.9673%
12	CRJ2	RJ-200 REGIONAL JET	CRJ1	26061	1.8923%	44.8596%
13	F50	FOKKER 50/MARITIME E		25501	1.8516%	46.7112%
14	DH8C	DHC-8-300 DASH 8		22822	1.6571%	48.3683%
15	B763	BOEING 767-300		22506	1.6341%	50.0024%
16	B737	BOEING 737-700		22202	1.6121%	51.6145%
17	B744	747-400, INTL WINGLET		22195	1.6116%	53.2260%
18	CRJ1	RJ-100 REGIONAL JET		21483	1.5599%	54.7859%
19	AT43	ATR-42-200/300/320		20267	1.4716%	56.2575%
20	RJ1H	RJ-100 AVROLINER		19125	1.3887%	57.6461%
21	MD83	BOEING MD-83		17686	1.2842%	58.9303%
22	F100	FOKKER 100		17437	1.2661%	60.1964%
23	SB20	SAAB 2000		16502	1.1982%	61.3946%
24	B462	BAE-146-200	B461	15985	1.1607%	62.5552%
25	B772	BOEING 777-200		15152	1.1002%	63.6554%
26	B732	BOEING 737-200		14622	1.0617%	64.7171%
27	F70	FOKKER 70		13454	0.9769%	65.6940%
28	RJ85	RJ-85 AVROLINER		13011	0.9447%	66.6387%
29	MD87	BOEING MD-87	MD83	12799	0.9293%	67.5680%
30	DH8A	DHC-8-100 DASH 8	DH8C	12529	0.9097%	68.4777%
31	SF34	SF 340		12147	0.8820%	69.3597%
32	DH8D	DHC-8-400 DASH 8	DH8C	12020	0.8728%	70.2325%
33	A310	AIRBUS A-310 (CC-150)		11589	0.8415%	71.0739%
34	A343	AIRBUS A-340-300		11215	0.8143%	71.8883%
35	B463	BAE-146-300	B461	10763	0.7815%	72.6698%
36	AT45	ATR-42-500		10089	0.7326%	73.4023%
37	BE20	SUPER KING AIR 200		9993	0.7256%	74.1279%
38	B190	BEECH 1900 (C-12J)	JS31	9624	0.6988%	74.8267%
39	A332	AIRBUS A-330-200		9347	0.6787%	75.5054%
40	T154	TUPOLEV TU-154		8971	0.6514%	76.1567%
41	B736	BOEING 737-600		8900	0.6462%	76.8030%
42	D328	D328		8869	0.6440%	77.4469%
43	MD11	MD-11		8096	0.5878%	78.0348%
44	PA34	SENECA III PA34-220T		7718	0.5604%	78.5952%
45	E120	BRASILIA EMB-120/HH/		6756	0.4905%	79.0857%
46	B742	BOEING 747-200		6739	0.4893%	79.5750%
47	ATP	BRITISH AEROSPACE AT		6614	0.4802%	80.0553%
48	A306	AIRBUS A-300B4-600		6564	0.4766%	80.5319%
49	CRJ7	RJ-700 REGIONAL JET	CRJ1	6370	0.4625%	80.9944%
50	SW4	EXPEDITER, MERLIN	SW3	6116	0.4441%	81.4385%

51	A30B	AIRBUS A-300B2/4		5897	0.4282%	81.8667%
52	MD88	BOEING MD-88	MD83	5871	0.4263%	82.2929%
53	C550	CITATION II-S2		5421	0.3936%	82.6866%
54	C130	HERCULES		5185	0.3765%	83.0630%
55	B762	BOEING 767-200		4904	0.3561%	83.4191%
56	MD81	BOEING MD-81	MD83	4719	0.3426%	83.7618%
57	C525	CITATIONJET 525	C550	4713	0.3422%	84.1040%
58	TRIN	SOCATA TB-20/21 TRIN		4455	0.3235%	84.4274%
59	E135	EMBRAER ERJ-135	FA50	4397	0.3193%	84.7467%
60	JS41	BAE-4100 JETSTREAM41		4257	0.3091%	85.0558%
61	H25B	HAWKER SIDDELEY HS-1		4229	0.3071%	85.3629%
62	A333	AIRBUS A-330-300		4162	0.3022%	85.6651%
63	F900	DASSAULT-BREGUET FAL		4077	0.2960%	85.9611%
64	B722	BOEING 727-200		4035	0.2930%	86.2541%
65	DC10	DC-10 ALL SERIES		3989	0.2896%	86.5437%
66	F27	CONAIR F-27 FIREFIGH		3950	0.2868%	86.8305%
67	SH36	SHORTS 360		3779	0.2744%	87.1049%
68	L410	LET L-410/420 TURBOL	D228	3636	0.2640%	87.3689%
69	JS32	BAE-3200 SUPER 32	JS31	3575	0.2596%	87.6285%
70	BE9L	BEECH 90/A90 TO E90		3355	0.2436%	87.8721%
71	FA50	DASSAULT-BREGUET FAL		3237	0.2350%	88.1071%
72	B743	BOEING 747-300		2969	0.2156%	88.3227%
73	CL60	CHALLENGER CL600/601		2943	0.2137%	88.5364%
74	A748	AVRO 748 (C-91)	AT72	2911	0.2114%	88.7478%
75	LJ35	GATES LEARJET 35/36		2907	0.2111%	88.9588%
76	B753	BOEING 757-300		2847	0.2067%	89.1655%
77	J328	DORNIER 328 JET	F28	2811	0.2041%	89.3697%
78	P28A	PA28-140/161/180/181		2744	0.1992%	89.5689%
79	D228	DORNIER 228-100/200		2671	0.1939%	89.7628%
80	GLF4	GULFSTREAM 4	LJ45	2657	0.1929%	89.9558%
81	F2TH	DASSAULT FALCON 2000	F900	2651	0.1925%	90.1482%
82	S76	SIKORSKY S-76/H-76/A	HELI	2582	0.1875%	90.3357%
83	B712	BOEING 717-200		2536	0.1841%	90.5199%
84	C208	CARAVAN I		2525	0.1833%	90.7032%
85	C560	CITATION V		2524	0.1833%	90.8865%
86	DC95	DOUGLAS DC-9-50	DC94	2457	0.1784%	91.0649%
87	AN26	AN-26 / AN26B	F27	2410	0.1750%	91.2398%
88	T134	TUPOLEV TU-134		2348	0.1705%	91.4103%
89	C172	SKYHAWK 172	P28A	2302	0.1671%	91.5775%
90	PA31	PIPER CHIEFTAIN		2246	0.1631%	91.7406%
91	YK40	YAK-40	DH8C	2225	0.1616%	91.9021%
92	YK42	YAK-42	B461	2109	0.1531%	92.0552%
93	TBM7	TBM 700	PAY3	2086	0.1515%	92.2067%
94	C56X	CESSNA 560XL	FA10	2035	0.1478%	92.3545%
95	JS31	BAE-3100 JETSTREAM31		1975	0.1434%	92.4979%
96	RJ70	RJ-70 AVROLINER		1961	0.1424%	92.6403%
97	FA20	DASSAULT FALCON 20/M		1873	0.1360%	92.7763%
98	AN24	AN-24	F27	1849	0.1343%	92.9105%
99	BE58	BARON 58	PA27	1840	0.1336%	93.0441%
100	C160	TRANSALL C-160		1829	0.1328%	93.1769%

101	LJ45	LEARJET 45		1795	0.1303%	93.3072%
102	LJ60	LEARJET 60		1704	0.1237%	93.4310%
103	P28R	PIPER PA-28R-180/200	TRIN	1635	0.1187%	93.5497%
104	B461	BAE-146-100		1635	0.1187%	93.6684%
105	MD90	MCDONNELL DOUGLAS MD	MD83	1586	0.1152%	93.7836%
106	A342	AIRBUS A-340-200	A343	1555	0.1129%	93.8965%
107	CN35	CN-235/CN235	AT43	1549	0.1125%	94.0089%
108	IL86	IL-86	DC87	1457	0.1058%	94.1147%
109	FA10	DASSAULT FALCON 10/M		1457	0.1058%	94.2205%
110	C650	CITATION III	LJ35	1416	0.1028%	94.3233%
111	C17	MCDONNELL DOUGLAS C-	B763	1386	0.1006%	94.4240%
112	C500	CITATION I	C550	1373	0.0997%	94.5237%
113	B350	BEECH B300 SUPER KIN	BE20	1330	0.0966%	94.6202%
114	DC93	DOUGLAS DC-9-30	DC94	1325	0.0962%	94.7164%
115	DH8B	DHC-8-200 DASH 8	DH8C	1241	0.0901%	94.8066%
116	P180	P 180 AVANTI	F70	1236	0.0897%	94.8963%
117	PAY3	PA-42 720 CHEYENNE 3		1144	0.0831%	94.9794%
118	C310	CESSNA 310/T310	PA31	1126	0.0818%	95.0611%
119	AN12	AN-12 / AN-12BP	C130	1122	0.0815%	95.1426%
120	GLF5	GULFSTREAM 5	LJ45	1119	0.0812%	95.2238%
121	C212	CASA C-212 AVIOCAR (	D228	1105	0.0802%	95.3041%
122	SW3	MERLIN IVC		1103	0.0801%	95.3842%
123	C5	LOCKHEED C-5 GALAXY	B742	1097	0.0797%	95.4638%
124	B739	BOEING 737-900	B738	1074	0.0780%	95.5418%
125	PA46	MALIBU		1070	0.0777%	95.6195%
126	L101	TRI-STAR, ALL SERIES		1046	0.0759%	95.6954%
127	TRIS	BRITTEN-NORMAN BN-2A		1035	0.0752%	95.7706%
128	BE40	BEECHJET 400	FA10	1033	0.0750%	95.8456%
129	E121	XINGU EMB-121 /A /A1		1025	0.0744%	95.9200%
130	M20P	M-20 NON TURBOCHARGE	TRIN	1014	0.0736%	95.9936%
131	C421	GOLDEN EAGLE 421		998	0.0725%	96.0661%
132	LJ31	GATES LEARJET 31	LJ35	986	0.0716%	96.1377%
133	B721	BOEING 727-100	B722	947	0.0688%	96.2065%
134	BE76	DUCHESS 76	PA27	904	0.0656%	96.2721%
135	C501	CITATION 1SP	C550	893	0.0648%	96.3369%
136	L188	ELECTRA	C130	844	0.0613%	96.3982%
137	F406	REIMS F406 CARAVAN 2		841	0.0611%	96.4593%
138	T204	TUPOLEV TU-204	B752	832	0.0604%	96.5197%
139	P28T	PIPER PA-28RT ARROW	TRIN	824	0.0598%	96.5795%
140	AT44	ATR-42-400	AT43	820	0.0595%	96.6391%
141	PC12	PILATUS PC-12		818	0.0594%	96.6985%
142	GLEX	CANADAIR BL-701 GLOB	B744	814	0.0591%	96.7576%
143	PA44	SEMINOLE	PA27	800	0.0581%	96.8157%
144	DC86	DC-8-60	DC87	780	0.0566%	96.8723%
145	BN2P	BRITTEN-NORMAN BN-2/	PA31	777	0.0564%	96.9287%
146	AS32	AEROSPATIALE AS-332/	HELI	771	0.0560%	96.9847%
147	B764	BOEING 767-400	B763	759	0.0551%	97.0398%
148	C182	SKYLANE 182/RG	P28A	755	0.0548%	97.0946%
149	CVLT	CANADAIR CL-66/CV-58	AT43	749	0.0544%	97.1490%
150	E110	BANDEIRANTE EMB-110	D228	730	0.0530%	97.2020%

151	C340	CESSNA 340	PA31	727	0.0528%	97.2548%
152	K35R	BOEING KC-135R/T	B703	715	0.0519%	97.3067%
153	PAY2	PA-31-T CHEYENNE 2		714	0.0518%	97.3586%
154	BE30	SUPER KING AIR 300	BE20	706	0.0513%	97.4098%
155	P3	ORION	C130	702	0.0510%	97.4608%
156	B773	BOEING 777-300	B772	695	0.0505%	97.5112%
157	N262	NORD 262 FREGATE	JS41	692	0.0502%	97.5615%
158	IL76	IL-76/IL-76M/MD/T/TD	A30B	691	0.0502%	97.6117%
159	BE33	BONANZA 33	PA34	688	0.0500%	97.6616%
160	ZZZZ	AIRCRAFT TYPES NOT		665	0.0483%	97.7099%
161	S601	SN 601 CORVETTE	C550	653	0.0474%	97.7573%
162	BE36	BONANZA 36	PA34	643	0.0467%	97.8040%
163	C750	CESSNA 750 CITATION		606	0.0440%	97.8480%
164	C551	CITATION 2SP	C550	602	0.0437%	97.8917%
165	C210	CENTURION/II	PA31	602	0.0437%	97.9354%
166	LJ55	GATES LEARJET 55	LJ35	599	0.0435%	97.9789%
167	PA30	TWIN COMANCHE		573	0.0416%	98.0205%
168	GLF3	GULFSTREAM 3	LJ45	567	0.0412%	98.0617%
169	DHC6	DE HAVILLAND CANADA		559	0.0406%	98.1023%
170	M20T	M-20 TURBOCHARGED	TRIN	539	0.0391%	98.1414%
171	C414	CHANCELLOR 414	C421	539	0.0391%	98.1806%
172	C303	CRUSADER 303	PA31	523	0.0380%	98.2185%
173	PUMA	SUD SA-330 PUMA	HELI	520	0.0378%	98.2563%
174	F18	HORNET	FGTN	517	0.0375%	98.2938%
175	C25A	CESSNA 525A CITATION		496	0.0360%	98.3298%
176	S61	HELIPRO S-61 SHORTSK	HELI	490	0.0356%	98.3654%
177	P46T	JETPROP DLX		488	0.0354%	98.4009%
178	C30J	C-130J	C130	451	0.0327%	98.4336%
179	ASTR	IAI 1125 ASTRA		451	0.0327%	98.4663%
180	BE55	BARON 55 COCHISE		436	0.0317%	98.4980%
181	PA32	PIPER CHEROKEE	PA34	426	0.0309%	98.5289%
182	F16	FIGHTING FALCON	FGTN	425	0.0309%	98.5598%
183	SW2	MERLIN IIA/B	SW3	407	0.0296%	98.5893%
184	B703	BOEING 707-300		397	0.0288%	98.6182%
185	A124	ANTONOV AN-124 RUSLA	B732	396	0.0288%	98.6469%
186	AN72	AN-72	F28	390	0.0283%	98.6752%
187	B741	BOEING 747-100	B742	368	0.0267%	98.7020%
188	H25C	BRITISH AEROSPACE BA	H25B	366	0.0266%	98.7285%
189	MU2	MU-2		357	0.0259%	98.7545%
190	AS65	AEROSPATIALE SA-365	HELI	356	0.0258%	98.7803%
191	C141	STARLIFTER	DC87	349	0.0253%	98.8057%
192	M339	AERMACCHI MB-339		340	0.0247%	98.8303%
193	B74S	747 SP	B744	328	0.0238%	98.8542%
194	AS55	AEROSPATIALE AS-355	HELI	310	0.0225%	98.8767%
195	TOBA	SOCATA TB-10/200 TOB	P28A	303	0.0220%	98.8987%
196	B212	AUGUSTA AB-212	HELI	302	0.0219%	98.9206%
197	PAY1	PA-31-T CHEYENNE 1		292	0.0212%	98.9418%
198	TOR	PANAVIA TORNADO	FGTN	276	0.0200%	98.9618%
199	PA27	PIPER PA-23-235/250		274	0.0199%	98.9817%
200	PA23	APACHE	PA27	266	0.0193%	99.0010%

201	VC10	VC10-1100	<i>B703</i>	264	0.0192%	99.0202%
202	C425	CORSAIR/CONQUEST	<i>PAY2</i>	258	0.0187%	99.0389%
203	GALX	IAI GALAXY		255	0.0185%	99.0575%
204	C404	TITAN 404		249	0.0181%	99.0755%
205	H60	S-70	<i>HELI</i>	247	0.0179%	99.0935%
206	IL62	IL-62/IL-62M/MK	<i>B703</i>	246	0.0179%	99.1113%
207	C441	CONQUEST II-441		239	0.0174%	99.1287%
208	H25A	DE HAVILLAND DH-125	<i>H25B</i>	236	0.0171%	99.1458%
209	P68	PARTENAVIA P-68/VICT	<i>PA31</i>	231	0.0168%	99.1626%
210	A3ST	AIRBUS A-300ST SUPER		230	0.0167%	99.1793%
211	DC87	DC-8-70		220	0.0160%	99.1953%
212	CONC	CONCORDE	<i>FGTN</i>	215	0.0156%	99.2109%
213	C402	CESSNA 402	<i>PA31</i>	211	0.0153%	99.2262%
214	C337	SUPER SKYMASTER 337	<i>PA34</i>	207	0.0150%	99.2412%
215	AC11	COMMANDER 112/114		207	0.0150%	99.2563%
216	AN28	AN-28		202	0.0147%	99.2709%
217	BE95	TRAVELAIR 95	<i>PA31</i>	201	0.0146%	99.2855%
218	BE9T	BEECH F90 KING AIR		199	0.0144%	99.3000%
219	C135	BOEING C-135B	<i>B703</i>	194	0.0141%	99.3141%
220	ATLA	ATLANTIC 1150	<i>C130</i>	194	0.0141%	99.3281%
221	BA11	ONE-ELEVEN, ALL SERIE		191	0.0139%	99.3420%
222	F4	PHANTOM II/F4EJ/MDC	<i>FGTN</i>	186	0.0135%	99.3555%
223	G159	GULFSTREAM I		184	0.0134%	99.3689%
224	GLF2	G-1159 GULFSTREAM1/2	<i>LJ45</i>	178	0.0129%	99.3818%
225	P32R	PIPER PA-32R CHEROKE		168	0.0122%	99.3940%
226	BE35	BONANZA 35		166	0.0121%	99.4061%
227	IL18	IL-18	<i>C130</i>	163	0.0118%	99.4179%
228	AC90	JETPROP COMMANDER	<i>BE20</i>	160	0.0116%	99.4295%
229	TB30	EPSILON TB-30		155	0.0113%	99.4408%
230	A346	AIRBUS A-340-600	<i>A343</i>	149	0.0108%	99.4516%
231	AEST	TED SMITH AEROSTAR		146	0.0106%	99.4622%
232	G222	FIAT G-222	<i>ATP</i>	144	0.0105%	99.4726%
233	DHC7	DE HAVILLAND CANADA		143	0.0104%	99.4830%
234	GA7	COUGAR GA-7		141	0.0102%	99.4933%
235	DA40	DIAMOND DA-40 KATANA		138	0.0100%	99.5033%
236	P210	CESSNA P210 PRESSURI		136	0.0099%	99.5132%
237	C72R	CESSNA 172RG CUTLASS	<i>P28A</i>	135	0.0098%	99.5230%
238	BE60	DUKE 60	<i>C421</i>	131	0.0095%	99.5325%
239	AJET	ALPHAJET	<i>FGTN</i>	130	0.0094%	99.5419%
240	A109	A109 /109A /109A II	<i>HELI</i>	130	0.0094%	99.5513%
241	BE10	KING AIR 100 A	<i>BE20</i>	128	0.0093%	99.5606%
242	K35E	BOEING KC-135D/E		125	0.0091%	99.5697%
243	BE99	AIRLINER C99		125	0.0091%	99.5788%
244	BN2T	BN-2T TURBINE ISLAND		124	0.0090%	99.5878%
245	P28B	PA28-201/235/236	<i>P28A</i>	114	0.0083%	99.5961%
246	MU30	MU-300	<i>C550</i>	107	0.0078%	99.6038%
247	C101	CASA C-101 AVIOJET (		107	0.0078%	99.6116%
248	PAY4	PA-42 CHEYENNE 400	<i>PAY3</i>	105	0.0076%	99.6192%
249	F60	FOKKER 60		105	0.0076%	99.6269%
250	E3CF	BOEING E-3A (CFM56)	<i>B703</i>	104	0.0076%	99.6344%

251	C82R	CESSNA R182/TR182 (T	P28A	103	0.0075%	99.6419%
252	C177	CARDINAL 177	P28A	103	0.0075%	99.6494%
253	DC91	DOUGLAS DC-9-10	DC94	102	0.0074%	99.6568%
254	C2	GREYHOUND		101	0.0073%	99.6641%
255	JAGR	JAGUAR	FGTN	99	0.0072%	99.6713%
256	JS20	JETSTREAM 200	JS31	98	0.0071%	99.6784%
257	IL96	IL-96	DC87	98	0.0071%	99.6855%
258	PC6T	PILATUS PC-6A/B/C		96	0.0070%	99.6925%
259	P66T	PIAGGIO P-166DL3		96	0.0070%	99.6995%
260	E3TF	BOEING E-3A (TF33)	B703	96	0.0070%	99.7064%
261	AC95	695 JETPROP COMMANDE	BE20	96	0.0070%	99.7134%
262	MIR2	MIRAGE 2000	FGTN	93	0.0068%	99.7202%
263	C295	CASA C-295		91	0.0066%	99.7268%
264	L200	LET L-200 MORAVA		90	0.0065%	99.7333%
265	F5	FREEDOM FIGHTER/CF-5	FGTN	87	0.0063%	99.7396%
266	F260	SIAI-MARCHETTI SF-26		86	0.0062%	99.7459%
267	AA5	CHEETAH AA-5/A/B		86	0.0062%	99.7521%
268	PINO	GENERAL AVIA F-22 PI		82	0.0060%	99.7581%
269	E314	EMB-312H/314		81	0.0059%	99.7639%
270	A140	ANTONOV AN-140		79	0.0057%	99.7697%
271	TUCA	AOI EMB-312 TUCANO		74	0.0054%	99.7751%
272	C206	STATIONER 6		71	0.0052%	99.7802%
273	DR40	DR 400/2+2		70	0.0051%	99.7853%
274	ALO3	SUD SA-316/319/SE-31	HELI	70	0.0051%	99.7904%
275	AN30	AN-30		67	0.0049%	99.7952%
276	R300	R 3000		64	0.0046%	99.7999%
277	SH33	SHORT 330	SH36	61	0.0044%	99.8043%
278	F28	FOKKER F-28 FELLOWSH		61	0.0044%	99.8087%
279	SR20	CIRRUS SR-20		59	0.0043%	99.8130%
280	C77R	CESSNA 177RG CARDINA	P28A	59	0.0043%	99.8173%
281	PREX	PRIVATE EXPLORER		57	0.0041%	99.8215%
282	EC35	EUROCOPTER EC-135	HELI	57	0.0041%	99.8256%
283	B412	AUGUSTA B-412	HELI	56	0.0041%	99.8297%
284	CL2T	CANADIAN CL215T		55	0.0040%	99.8337%
285	P32T	PIPER PA-32RT LANCE		54	0.0039%	99.8376%
286	L39	AERO (2) L-39/59/139		52	0.0038%	99.8413%
287	C152	CESSNA 152		50	0.0036%	99.8450%
288	B06	BELL 206A/B/L/406/TH	HELI	50	0.0036%	99.8486%
289	WW24	WESTWIND	H25B	49	0.0036%	99.8522%
290	PA24	COMACHE		49	0.0036%	99.8557%
291	NIM	NIMROD, ALL MARKS		49	0.0036%	99.8593%
292	E400	EXTRA 400		49	0.0036%	99.8628%
293	BK17	MBB-KAWASAKI BK-117	HELI	49	0.0036%	99.8664%
294	HAR	HARRIER, ALL mARKS	FGTN	47	0.0034%	99.8698%
295	R90R	RUSCHMEYER R-90-230R		44	0.0032%	99.8730%
296	SC7	SHORT SC-7 SKYVAN		43	0.0031%	99.8761%
297	AMX	AMX AMX (A-1)	FGTN	42	0.0030%	99.8792%
298	PC7	PILATUS PC-7 TURBO		40	0.0029%	99.8821%
299	H47	BOEING VERTOL CH-47/	HELI	40	0.0029%	99.8850%
300	MI8	MI 8	HELI	39	0.0028%	99.8878%

301	DC6	DC-6/B, LIFTMASTER		38	0.0028%	99.8906%
302	B105	BOLKOW BO-105	HELI	38	0.0028%	99.8933%
303	MF17	SAAB MFI-15/17 SAFAR		37	0.0027%	99.8960%
304	BDOG	BEAGLE B-125 BULLDOG	P28A	35	0.0025%	99.8986%
305	A10	FAIRCHILD (1) A-10/O	FGTN	35	0.0025%	99.9011%
306	EXPL	MCDONNELL DOUGLAS MD	HELI	34	0.0025%	99.9036%
307	UH1	AUGUSTA AB-204/205	HELI	32	0.0023%	99.9059%
308	H53	S-65	HELI	32	0.0023%	99.9082%
309	TAMP	SOCATA TB-9 TAMPICO		31	0.0023%	99.9105%
310	Z43	ZLIN Z-43/143		28	0.0020%	99.9125%
311	PRM1	RAYTHEON PREMIER 1		28	0.0020%	99.9145%
312	L29B	LOCKHEED L-1329 JETS		28	0.0020%	99.9166%
313	SR22	CIRRUS SR-22		26	0.0019%	99.9185%
314	F104	STARFIGHTER/CL90	FGTN	26	0.0019%	99.9203%
315	DC85	DC-8-50, JET TRADER	DC87	25	0.0018%	99.9222%
316	PC9	PILATUS PC-9		24	0.0017%	99.9239%
317	HAWK	HAWK MK-1 50/60	FGTN	24	0.0017%	99.9256%
318	FREL	SUD SA-321 SUPER FRE	HELI	23	0.0017%	99.9273%
319	BE80	QUEEN AIR 80		23	0.0017%	99.9290%
320	HR10	HR 100/200, 100/200B		22	0.0016%	99.9306%
321	SBR1	NORTH AMERICAN NA-26	FA20	21	0.0015%	99.9321%
322	S2T	CONAIR TURBO FIRECAT		21	0.0015%	99.9336%
323	EC55	EUROCOPTER EC-155	HELI	21	0.0015%	99.9352%
324	DC3	DC-3/DAKOTA/SKYTRAIN		21	0.0015%	99.9367%
325	DC92	DOUGLAS DC-9-20	DC94	20	0.0015%	99.9381%
326	BE19	SPORT 19		19	0.0014%	99.9395%
327	A318	AIRBUS A-318	A319	19	0.0014%	99.9409%
328	F1	MITSUBISHI F-1	FGTN	18	0.0013%	99.9422%
329	BELF	SHORT SC-5 BELFAST		17	0.0012%	99.9434%
330	AN22	AN-22 ANTHEUS		17	0.0012%	99.9447%
331	RANG	NAVION RANGEMASTER		16	0.0012%	99.9458%
332	K35A	BOEING KC-135A		16	0.0012%	99.9470%
333	AN32	AN-32		16	0.0012%	99.9482%
334	RF6	FOURNIER RF-6		15	0.0011%	99.9492%
335	PA18	SUPER CUB		15	0.0011%	99.9503%
336	F15	EAGLE/F15J/MDC	FGTN	15	0.0011%	99.9514%
337	CE43	CE43		15	0.0011%	99.9525%
338	A345	AIRBUS A-340-500	A343	15	0.0011%	99.9536%
339	LYNX	WESTLAND LYNX/SUPER	HELI	14	0.0010%	99.9546%
340	LJ25	LEAR JET 25		14	0.0010%	99.9556%
341	H46	VERTOL 107	HELI	14	0.0010%	99.9567%
342	C185	SKYWAGON 185		14	0.0010%	99.9577%
343	MRF1	DASSAULT MIRAGE F1	FGTN	13	0.0009%	99.9586%
344	C27J	ALENIA C-27J SPARTAN		13	0.0009%	99.9596%
345	P149	P149		12	0.0009%	99.9604%
346	HF20	HFB 320 HANSA JET		12	0.0009%	99.9613%
347	S05R	SIAI-MARCHETTI S-205		11	0.0008%	99.9621%
348	L159	AERO L-159	FGTN	11	0.0008%	99.9629%
349	BE77	SKIPPER 77		11	0.0008%	99.9637%
350	B222	BELL 222	HELI	11	0.0008%	99.9645%

351	AC68	SUPER COMMANDER 680S		11	0.0008%	99.9653%
352	MI26	MI26	HELI	10	0.0007%	99.9660%
353	G115	GROB G-115A/B/C/D/BA		10	0.0007%	99.9667%
354	EH10	EH1 EH-101/MERLIN/HE	HELI	10	0.0007%	99.9675%
355	DHC5	DE HAVILLAND CANADA		10	0.0007%	99.9682%
356	BE24	SIERRA 24		10	0.0007%	99.9689%
357	B731	BOEING 737-100	B732	10	0.0007%	99.9696%
358	TS11	PZL-MIELEC TS-11 ISK		8	0.0006%	99.9702%
359	TEX2	RAYTHEON T-6		8	0.0006%	99.9708%
360	T38	TALON		8	0.0006%	99.9714%
361	SC01	SC 01/B		8	0.0006%	99.9720%
362	SB91	SAAB 91 SAFIR		8	0.0006%	99.9726%
363	RALL	MORANE-SAULNIER MS-8		8	0.0006%	99.9731%
364	LJ24	LEAR JET 24	FA10	8	0.0006%	99.9737%
365	U2	U-2/TR-1		7	0.0005%	99.9742%
366	SB05	SAAB 105	C550	7	0.0005%	99.9747%
367	S330	SCHWEIZER 330	HELI	7	0.0005%	99.9752%
368	P68T	PARTENAVIA AP-68TP-3		7	0.0005%	99.9757%
369	OSCR	PARTENAVIA P-64/66 O		7	0.0005%	99.9763%
370	LNC2	NEICO LANCAIR 200/23		7	0.0005%	99.9768%
371	C335	CESSNA 335		7	0.0005%	99.9773%
372	B701	BOEING 707-100		7	0.0005%	99.9778%
373	B430	BELL 430	HELI	7	0.0005%	99.9783%
374	B1	LANCER	FGTL	7	0.0005%	99.9788%
375	YS11	YS11/YS11A		6	0.0004%	99.9792%
376	SU25	SUKHOI SU-25/28		6	0.0004%	99.9797%
377	SB35	SAAB 35 DRAKEN	FGTN	6	0.0004%	99.9801%
378	P808	PD 808/526		6	0.0004%	99.9805%
379	M7T	MAULE M-7-420/MX-7-4		6	0.0004%	99.9810%
380	M55	MYASISHCHEV M-55 GEO		6	0.0004%	99.9814%
381	DC94	DOUGLAS DC-9-40		6	0.0004%	99.9818%
382	A225	ANTONOV AN-225 MRIYA		6	0.0004%	99.9823%
383	Z42	ZLIN Z-42/142/242		5	0.0004%	99.9826%
384	S61R	AGUSTA AS-61R (HH-3)	HELI	5	0.0004%	99.9830%
385	M7	MAULE M-7-235/MT-7/M		5	0.0004%	99.9834%
386	E2	HAWKEYE		5	0.0004%	99.9837%
387	COL3	LANCAIR LC-40		5	0.0004%	99.9841%
388	C205	SUPER SKYWAGON		5	0.0004%	99.9845%
389	BE65	QUEEN AIR 65/70		5	0.0004%	99.9848%
390	B60	BOISAVIA B-60/B-601		5	0.0004%	99.9852%
391	AC56	COMMANDER 560		5	0.0004%	99.9856%
392	SBR2	NORTH AMERICAN ROCKW		4	0.0003%	99.9858%
393	S208	SIAI-MARCHETTI S-208		4	0.0003%	99.9861%
394	L90	VALMET L-90TP REDIGO		4	0.0003%	99.9864%
395	L59	AERO L-59		4	0.0003%	99.9867%
396	L29A	LOCKHEED L-1329 JETS	CL60	4	0.0003%	99.9870%
397	JS1	JETSTREAM 1 (HP-137)	JS31	4	0.0003%	99.9873%
398	GY80	GARDAN GY-80 HORIZON		4	0.0003%	99.9876%
399	C188	AG WAGON 188		4	0.0003%	99.9879%
400	AS50	AEROSPATIALE AS-350/	HELI	4	0.0003%	99.9882%

401	AC50	COMMANDER 500		4	0.0003%	99.9885%
402	WA42	WASSMER 421/235		3	0.0002%	99.9887%
403	SB39	SAAB 39 GRIPEN	<i>FGTN</i>	3	0.0002%	99.9889%
404	R200	R 2160		3	0.0002%	99.9891%
405	PL12	TRANSAVIA PL-12 AIRT		3	0.0002%	99.9893%
406	PC6P	PILATUS PC-6 PORTER		3	0.0002%	99.9895%
407	PAT4	PA-31-T		3	0.0002%	99.9898%
408	PA38	TOMAHAWK		3	0.0002%	99.9900%
409	M200	MEYERS 200		3	0.0002%	99.9902%
410	LNC4	NEICO LANCAIR 4		3	0.0002%	99.9904%
411	GLAS	STODDARD-HAMILTON GL		3	0.0002%	99.9906%
412	F14	TOMCAT	<i>FGTN</i>	3	0.0002%	99.9909%
413	DR10	DR 100,105, 1050, 1051		3	0.0002%	99.9911%
414	D28T	DORNIER DO-28D-6/128		3	0.0002%	99.9913%
415	COUR	HELIO H-391/392/395/		3	0.0002%	99.9915%
416	C207	STATIONAIR		3	0.0002%	99.9917%
417	C10T	ADVANCED AIRCRAFT SP		3	0.0002%	99.9919%
418	B2	NORTHROP B-2 SPIRIT		3	0.0002%	99.9922%
419	W3	PZL-SWIDNIK W-3 SOKO	<i>HELI</i>	2	0.0001%	99.9923%
420	TBM	GRUMMAN TBF AVENGER		2	0.0001%	99.9924%
421	T250	ANDERSON-GREENWOOD T		2	0.0001%	99.9926%
422	STAR	BEECH 2000 STARSHIP		2	0.0001%	99.9927%
423	S3	LOCKHEED S-3/ES-3/US		2	0.0001%	99.9929%
424	RFAL	DASSAULT RAFALE		2	0.0001%	99.9930%
425	R22	ROBINSON R-22	<i>HELI</i>	2	0.0001%	99.9932%
426	MIR4	MIRAGE IV	<i>FGTN</i>	2	0.0001%	99.9933%
427	M5	MAULE M-5/STRATA ROC		2	0.0001%	99.9935%
428	M22	MOONEY M-22/MUSTANG		2	0.0001%	99.9936%
429	LA25	LAKE LA-250-270		2	0.0001%	99.9938%
430	KA27	KAMOV KA-27/28/29/31	<i>HELI</i>	2	0.0001%	99.9939%
431	H21	VERTOL H-21	<i>HELI</i>	2	0.0001%	99.9940%
432	G4SG	SOKO G-4 SUPER GALEB		2	0.0001%	99.9942%
433	F117	LOCKHEED F-117 NIGHT	<i>FGTN</i>	2	0.0001%	99.9943%
434	DOVE	DE HAVILLAND DH-104		2	0.0001%	99.9945%
435	DO28	DO 28 A, B		2	0.0001%	99.9946%
436	CL44	YUKON, CL44		2	0.0001%	99.9948%
437	C46	COMMANDO		2	0.0001%	99.9949%
438	C150	CESSNA 150		2	0.0001%	99.9951%
439	C120	CESSNA 120		2	0.0001%	99.9952%
440	BE23	SUNDOWNER 2/MUSKET23		2	0.0001%	99.9954%
441	BE17	STAGGER WING 17		2	0.0001%	99.9955%
442	B720	STRATOLINER 720	<i>B703</i>	2	0.0001%	99.9956%
443	B52	STRATOFORTRESS	<i>FGTL</i>	2	0.0001%	99.9958%
444	B26	INVADER		2	0.0001%	99.9959%
445	A4	SKYHAWK	<i>FGTN</i>	2	0.0001%	99.9961%
446	YK12	YAKOVLEV YAK-12		1	0.0001%	99.9962%
447	W201	WEATHERLY 201/620		1	0.0001%	99.9962%
448	TJJJ	IFPS TURBO JET		1	0.0001%	99.9963%
449	T37	CESSNA 318		1	0.0001%	99.9964%
450	SB37	SAAB 37 VIGGEN	<i>FGTN</i>	1	0.0001%	99.9964%

401	AC50	COMMANDER 500		4	0.0003%	99.9885%
402	WA42	WASSMER 421/235		3	0.0002%	99.9887%
403	SB39	SAAB 39 GRIPEN	<i>FGTN</i>	3	0.0002%	99.9889%
404	R200	R 2160		3	0.0002%	99.9891%
405	PL12	TRANSAVIA PL-12 AIRT		3	0.0002%	99.9893%
406	PC6P	PILATUS PC-6 PORTER		3	0.0002%	99.9895%
407	PAT4	PA-31-T		3	0.0002%	99.9898%
408	PA38	TOMAHAWK		3	0.0002%	99.9900%
409	M200	MEYERS 200		3	0.0002%	99.9902%
410	LNC4	NEICO LANCAIR 4		3	0.0002%	99.9904%
411	GLAS	STODDARD-HAMILTON GL		3	0.0002%	99.9906%
412	F14	TOMCAT	<i>FGTN</i>	3	0.0002%	99.9909%
413	DR10	DR 100,105, 1050, 1051		3	0.0002%	99.9911%
414	D28T	DORNIER DO-28D-6/128		3	0.0002%	99.9913%
415	COUR	HELIO H-391/392/395/		3	0.0002%	99.9915%
416	C207	STATIONAIR		3	0.0002%	99.9917%
417	C10T	ADVANCED AIRCRAFT SP		3	0.0002%	99.9919%
418	B2	NORTHROP B-2 SPIRIT		3	0.0002%	99.9922%
419	W3	PZL-SWIDNIK W-3 SOKO	<i>HELI</i>	2	0.0001%	99.9923%
420	TBM	GRUMMAN TBF AVENGER		2	0.0001%	99.9924%
421	T250	ANDERSON-GREENWOOD T		2	0.0001%	99.9926%
422	STAR	BEECH 2000 STARSHIP		2	0.0001%	99.9927%
423	S3	LOCKHEED S-3/ES-3/US		2	0.0001%	99.9929%
424	RFAL	DASSAULT RAFALE		2	0.0001%	99.9930%
425	R22	ROBINSON R-22	<i>HELI</i>	2	0.0001%	99.9932%
426	MIR4	MIRAGE IV	<i>FGTN</i>	2	0.0001%	99.9933%
427	M5	MAULE M-5/STRATA ROC		2	0.0001%	99.9935%
428	M22	MOONEY M-22/MUSTANG		2	0.0001%	99.9936%
429	LA25	LAKE LA-250-270		2	0.0001%	99.9938%
430	KA27	KAMOV KA-27/28/29/31	<i>HELI</i>	2	0.0001%	99.9939%
431	H21	VERTOL H-21	<i>HELI</i>	2	0.0001%	99.9940%
432	G4SG	SOKO G-4 SUPER GALEB		2	0.0001%	99.9942%
433	F117	LOCKHEED F-117 NIGHT	<i>FGTN</i>	2	0.0001%	99.9943%
434	DOVE	DE HAVILLAND DH-104		2	0.0001%	99.9945%
435	DO28	DO 28 A, B		2	0.0001%	99.9946%
436	CL44	YUKON, CL44		2	0.0001%	99.9948%
437	C46	COMMANDO		2	0.0001%	99.9949%
438	C150	CESSNA 150		2	0.0001%	99.9951%
439	C120	CESSNA 120		2	0.0001%	99.9952%
440	BE23	SUNDOWNER 2/MUSKET23		2	0.0001%	99.9954%
441	BE17	STAGGER WING 17		2	0.0001%	99.9955%
442	B720	STRATOLINER 720	<i>B703</i>	2	0.0001%	99.9956%
443	B52	STRATOFORTRESS	<i>FGTL</i>	2	0.0001%	99.9958%
444	B26	INVADER		2	0.0001%	99.9959%
445	A4	SKYHAWK	<i>FGTN</i>	2	0.0001%	99.9961%
446	YK12	YAKOVLEV YAK-12		1	0.0001%	99.9962%
447	W201	WEATHERLY 201/620		1	0.0001%	99.9962%
448	TJJJ	IFPS TURBO JET		1	0.0001%	99.9963%
449	T37	CESSNA 318		1	0.0001%	99.9964%
450	SB37	SAAB 37 VIGGEN	<i>FGTN</i>	1	0.0001%	99.9964%

451	RV6	RV-6/RV-6A		1	0.0001%	99.9965%
452	RF3	FOURNIER RF-3		1	0.0001%	99.9966%
453	PTS2	PITTS S-2 SPECIAL		1	0.0001%	99.9967%
454	PA36	BRAVE		1	0.0001%	99.9967%
455	PA25	PAWNEE		1	0.0001%	99.9968%
456	PA20	PACER		1	0.0001%	99.9969%
457	P39	BELL P-39 AIRACOBRA		1	0.0001%	99.9970%
458	O1	BIRD DOG 305/321		1	0.0001%	99.9970%
459	MP20	MP-205/207 BUSARD		1	0.0001%	99.9971%
460	MIRA	ATLAS CHEETAH		1	0.0001%	99.9972%
461	MICO	MICROTURBO MICROJET		1	0.0001%	99.9972%
462	MI24	MIL MI-24/25/35	HELI	1	0.0001%	99.9973%
463	MI2	MI 2	HELI	1	0.0001%	99.9974%
464	M26	PZL-MIELEC M-26 ISKI		1	0.0001%	99.9975%
465	M17	MYASISHCHEV M-17 STR		1	0.0001%	99.9975%
466	LJ28	GATES LEARJET 28/29		1	0.0001%	99.9976%
467	L40	ORLICAN L-40 META SO		1	0.0001%	99.9977%
468	J3	PIPER J-3 CUB (L-4/N		1	0.0001%	99.9977%
469	IPAN	EMBRAER EMB-200/201/		1	0.0001%	99.9978%
470	HU1	SHENYANG SAILPLANE H		1	0.0001%	99.9979%
471	H64	HUGHES AH-64 APACHE	HELI	1	0.0001%	99.9980%
472	F22	LOCKHEED-BOEING F-22		1	0.0001%	99.9980%
473	ETAR	ETENDARD IV	FGTN	1	0.0001%	99.9981%
474	ECHO	TECNAM P-92 ECHO		1	0.0001%	99.9982%
475	E190	EMBRAER ERJ-190		1	0.0001%	99.9983%
476	DV20	DV 20 KATANA		1	0.0001%	99.9983%
477	DIMO	HOFFMANN H-36 DIMONA		1	0.0001%	99.9984%
478	DA5	DAVIS DA-5		1	0.0001%	99.9985%
479	CNBR	CANBERRA		1	0.0001%	99.9985%
480	CL41	CANADAIR CL-41 TUTOR		1	0.0001%	99.9986%
481	CL2P	CANADAIR CL-215 (UD-		1	0.0001%	99.9987%
482	CH60	ZENAIR CH-600/601		1	0.0001%	99.9988%
483	CH20	HEINTZ CH-200 ZENITH		1	0.0001%	99.9988%
484	C526	CESSNA 526 CITATIONJ	C550	1	0.0001%	99.9989%
485	C175	SKYLARK 175		1	0.0001%	99.9990%
486	C170	CESSNA 170		1	0.0001%	99.9991%
487	C123	PROVIDER		1	0.0001%	99.9991%
488	BUC	BUCCANEER		1	0.0001%	99.9992%
489	BSTP	BELL 214ST SUPERTRAN	HELI	1	0.0001%	99.9993%
490	BL17	BELLANCA 17 VIKING/S		1	0.0001%	99.9993%
491	BE50	TWIN BONANZA 50		1	0.0001%	99.9994%
492	BASS	BASSET B206		1	0.0001%	99.9995%
493	B74R	BOEING 747SR		1	0.0001%	99.9996%
494	B407	BELL 407	HELI	1	0.0001%	99.9996%
495	B36T	ALLISON 36 TURBINE B		1	0.0001%	99.9997%
496	AT8T	AIR TRACTOR AT-802		1	0.0001%	99.9998%
497	AN70	ANTONOV AN-70		1	0.0001%	99.9999%
498	AN2	AN-2		1	0.0001%	99.9999%
499	A7	CORSAIR II	FGTN	1	0.0001%	100.0000%
TOTAL				1377236	100.0000%	

APPENDIX B

BADA 3.5 Coverage Statistics

BADA 3.5 aircraft types listed alphabetically showing percentage and rank within the total 2002 CFMU traffic data

No.	A/C Type (ICAO)	FULL NAME	December	July	Total Traffic	Rank	% Total Traffic
1	A306	AIRBUS A-300B4-600	2793	3771	6564	48	0.4766%
2	A30B	AIRBUS A-300B2/4	2238	3659	5897	51	0.4282%
3	A310	AIRBUS A-310 (CC-150)	4579	7010	11589	33	0.8415%
4	A319	AIRBUS A-319	20342	21211	41553	8	3.0171%
5	A320	AIRBUS A-320	46035	59476	105511	1	7.6611%
6	A321	AIRBUS A-321	18528	21627	40155	9	2.9156%
7	A332	AIRBUS A-330-200	4636	4711	9347	39	0.6787%
8	A333	AIRBUS A-330-300	1637	2525	4162	62	0.3022%
9	A343	AIRBUS A-340-300	5256	5959	11215	34	0.8143%
10	AT43	ATR-42-200/300/320	9307	10960	20267	19	1.4716%
11	AT45	ATR-42-500	4369	5720	10089	36	0.7326%
12	AT72	ATR-72	18420	21436	39856	10	2.8939%
13	ATP	BRITISH AEROSPACE A	2989	3625	6614	47	0.4802%
14	B461	BAE-146-100	458	1177	1635	104	0.1187%
15	B703	BOEING 707-300	161	236	397	184	0.0288%
16	B712	BOEING 717-200	1080	1456	2536	83	0.1841%
17	B722	BOEING 727-200	1552	2483	4035	64	0.2930%
18	B732	BOEING 737-200	5730	8892	14622	26	1.0617%
19	B733	BOEING 737-300	35608	41403	77011	2	5.5917%
20	B734	BOEING 737-400	20688	29721	50409	4	3.6602%
21	B735	BOEING 737-500	21981	25087	47068	5	3.4176%
22	B736	BOEING 737-600	3799	5101	8900	41	0.6462%
23	B737	BOEING 737-700	10481	11721	22202	16	1.6121%
24	B738	BOEING 737-800	27564	36719	64283	3	4.6675%
25	B742	BOEING 747-200	3268	3471	6739	46	0.4893%
26	B743	BOEING 747-300	1465	1504	2969	72	0.2156%
27	B744	747-400, INTL WINGLET	10890	11305	22195	17	1.6116%
28	B752	BOEING 757-200	14040	22721	36761	11	2.6692%
29	B753	BOEING 757-300	704	2143	2847	76	0.2067%
30	B762	BOEING 767-200	1896	3008	4904	55	0.3561%
31	B763	BOEING 767-300	9698	12808	22506	15	1.6341%
32	B772	BOEING 777-200	7264	7888	15152	25	1.1002%
33	BA11	ONE-ELEVEN, ALL SERI	35	156	191	221	0.0139%
34	BE20	SUPER KING AIR 200	4428	5565	9993	37	0.7256%
35	BE99	AIRLINER C99	61	64	125	243	0.0091%
36	BE9L	BEECH 90/A90 TO E90	1498	1857	3355	70	0.2436%
37	C130	HERCULES	2594	2591	5185	54	0.3765%
38	C160	TRANSALL C-160	748	1081	1829	100	0.1328%
39	C421	GOLDEN EAGLE 421	365	633	998	131	0.0725%
40	C550	CITATION II-S2	2197	3224	5421	53	0.3936%
41	C560	CITATION V	1048	1476	2524	85	0.1833%
42	C750	CESSNA 750 CITATION	210	396	606	163	0.0440%
43	CL60	CHALLENGER CL600/60	1161	1782	2943	73	0.2137%
44	CRJ1	RJ-100 REGIONAL JET	9646	11837	21483	18	1.5599%
45	D228	DORNIER 228-100/200	1265	1406	2671	79	0.1939%
46	D328	D328	3939	4930	8869	42	0.6440%
47	DC10	DC-10 ALL SERIES	1803	2186	3989	65	0.2896%
48	DC87	DC-8-70	133	87	220	211	0.0160%
49	DC94	DOUGLAS DC-9-40	5	1	6	381	0.0004%
50	DH8C	DHC-8-300 DASH 8	10727	12095	22822	14	1.6571%

51	E120	BRASILIA EMB-120/HH/	3294	3462	6756	45	0.4905%
52	E145	EMBRAER EMB-145	20187	22550	42737	7	3.1031%
53	F100	FOKKER 100	7934	9503	17437	22	1.2661%
54	F27	CONAIR F-27 FIREFIGH	1758	2192	3950	66	0.2868%
55	F28	FOKKER F-28 FELLOWS	15	46	61	278	0.0044%
56	F50	FOKKER 50/MARITIME E	11377	14124	25501	13	1.8516%
57	F70	FOKKER 70	6150	7304	13454	27	0.9769%
58	F900	DASSAULT-BREGUET F	1783	2294	4077	63	0.2960%
59	FA10	DASSAULT FALCON 10/M	610	847	1457	109	0.1058%
60	FA20	DASSAULT FALCON 20/M	831	1042	1873	97	0.1360%
61	FA50	DASSAULT-BREGUET F	1513	1724	3237	71	0.2350%
62	H25B	HAWKER SIDDELEY HS-	1612	2617	4229	61	0.3071%
63	JS31	BAE-3100 JETSTREAM3	998	977	1975	95	0.1434%
64	JS41	BAE-4100 JETSTREAM4	1962	2295	4257	60	0.3091%
65	L101	TRI-STAR, ALL SERIES	444	602	1046	126	0.0759%
66	LJ35	GATES LEARJET 35/36	1165	1742	2907	75	0.2111%
67	LJ45	LEARJET 45	749	1046	1795	101	0.1303%
68	MD11	MD-11	3708	4388	8096	43	0.5878%
69	MD83	BOEING MD-83	7242	10444	17686	21	1.2842%
70	MU2	MU-2	236	121	357	189	0.0259%
71	P28A	PA28-140/161/180/181	746	1998	2744	78	0.1992%
72	PA27	PIPER PA-23-235/250	147	127	274	199	0.0199%
73	PA31	PIPER CHIEFTAIN	1061	1185	2246	90	0.1631%
74	PA34	SENECA III PA34-220T	3172	4546	7718	44	0.5604%
75	PAY2	PA-31-T CHEYENNE 2	302	412	714	153	0.0518%
76	PAY3	PA-42 720 CHEYENNE 3	362	782	1144	117	0.0831%
77	RJ85	RJ-85 AVROLINER	6127	6884	13011	28	0.9447%
78	SB20	SAAB 2000	8060	8442	16502	23	1.1982%
79	SF34	SF 340	6797	5350	12147	31	0.8820%
80	SH36	SHORTS 360	1542	2237	3779	67	0.2744%
81	SW3	MERLIN IVC	455	648	1103	122	0.0801%
82	T134	TUPOLEV TU-134	1310	1038	2348	88	0.1705%
83	T154	TUPOLEV TU-154	2588	6383	8971	40	0.6514%
84	TRIN	SOCATA TB-20/21 TRIN	2086	2369	4455	58	0.3235%
TOTAL BADA 3.5 Aircraft Model Types							76.4767%

BADA 3.5 Synonym aircraft types listed alphabetically showing percentage and rank within the total 2002 CFMU traffic data

No.	A/C Type (ICAO)	FULL NAME	BADA SYNONYM	Rank	Total Traffic	% Total Traffic	Accum %
1	A10	FAIRCHILD (1) A-10/O	FGTN	305	35	0.0025%	99.9011%
2	A109	A109 /109A /109A II	HELI	240	130	0.0094%	99.5513%
3	A124	ANTONOV AN-124 RUSLA	B732	185	396	0.0288%	98.6469%
4	A318	AIRBUS A-318	A319	327	19	0.0014%	99.9409%
5	A342	AIRBUS A-340-200	A343	106	1555	0.1129%	93.8965%
6	A345	AIRBUS A-340-500	A343	338	15	0.0011%	99.9536%
7	A346	AIRBUS A-340-600	A343	230	149	0.0108%	99.4516%
8	A4	SKYHAWK	FGTN	445	2	0.0001%	99.9961%
9	A7	CORSAIR II	FGTN	499	1	0.0001%	100.0000%
10	A748	AVRO 748 (C-91)	AT72	74	2911	0.2114%	88.7478%
11	AC90	JETPROP COMMANDER	BE20	228	160	0.0116%	99.4295%
12	AC95	695 JETPROP COMMANDE	BE20	261	96	0.0070%	99.7134%
13	AJET	ALPHAJET	FGTN	239	130	0.0094%	99.5419%
14	ALO3	SUD SA-316/319/SE-31	HELI	274	70	0.0051%	99.7904%
15	AMX	AMX AMX (A-1)	FGTN	297	42	0.0030%	99.8792%
16	AN12	AN-12 / AN-12BP	C130	119	1122	0.0815%	95.1426%
17	AN24	AN-24	F27	98	1849	0.1343%	92.9105%
18	AN26	AN-26 / AN26B	F27	87	2410	0.1750%	91.2398%
19	AN72	AN-72	F28	186	390	0.0283%	98.6752%
20	AS32	AEROSPATIALE AS-332/	HELI	146	771	0.0560%	96.9847%
21	AS50	AEROSPATIALE AS-350/	HELI	400	4	0.0003%	99.9882%
22	AS55	AEROSPATIALE AS-355	HELI	194	310	0.0225%	98.8767%
23	AS65	AEROSPATIALE SA-365	HELI	190	356	0.0258%	98.7803%
24	AT44	ATR-42-400	AT43	140	820	0.0595%	96.6391%
25	ATLA	ATLANTIC 1150	C130	220	194	0.0141%	99.3281%
26	B06	BELL 206A/B/L/406/TH	HELI	288	50	0.0036%	99.8486%
27	B1	LANCER	FGTL	374	7	0.0005%	99.9788%
28	B105	BOLKOW BO-105	HELI	302	38	0.0028%	99.8933%
29	B190	BEECH 1900 (C-12J)	JS31	38	9624	0.6988%	74.8267%
30	B212	AUGUSTA AB-212	HELI	196	302	0.0219%	98.9206%
31	B222	BELL 222	HELI	350	11	0.0008%	99.9645%
32	B350	BEECH B300 SUPER KIN	BE20	113	1330	0.0966%	94.6202%
33	B407	BELL 407	HELI	494	1	0.0001%	99.9996%
34	B412	AUGUSTA B-412	HELI	283	56	0.0041%	99.8297%
35	B430	BELL 430	HELI	373	7	0.0005%	99.9783%
36	B462	BAE-146-200	B461	24	15985	1.1607%	62.5552%
37	B463	BAE-146-300	B461	35	10763	0.7815%	72.6698%
38	B52	STRATOFORTRESS	FGTL	443	2	0.0001%	99.9958%
39	B720	STRATOLINER 720	B703	442	2	0.0001%	99.9956%
40	B721	BOEING 727-100	B722	133	947	0.0688%	96.2065%
41	B731	BOEING 737-100	B732	357	10	0.0007%	99.9696%
42	B739	BOEING 737-900	B738	124	1074	0.0780%	95.5418%
43	B741	BOEING 747-100	B742	187	368	0.0267%	98.7020%
44	B74S	747 SP	B744	193	328	0.0238%	98.8542%
45	B764	BOEING 767-400	B763	147	759	0.0551%	97.0398%
46	B773	BOEING 777-300	B772	156	695	0.0505%	97.5112%
47	BDOG	BEAGLE B-125 BULLDOG	P28A	304	35	0.0025%	99.8986%
48	BE10	KING AIR 100 A	BE20	241	128	0.0093%	99.5606%
49	BE30	SUPER KING AIR 300	BE20	154	706	0.0513%	97.4098%
50	BE33	BONANZA 33	PA34	159	688	0.0500%	97.6616%

51	BE36	BONANZA 36	PA34	162	643	0.0467%	97.8040%
52	BE40	BEECHJET 400	FA10	128	1033	0.0750%	95.8456%
53	BE58	BARON 58	PA27	99	1840	0.1336%	93.0441%
54	BE60	DUKE 60	C421	238	131	0.0095%	99.5325%
55	BE76	DUCHESS 76	PA27	134	904	0.0656%	96.2721%
56	BE95	TRAVELAIR 95	PA31	217	201	0.0146%	99.2855%
57	BK17	MBB-KAWASAKI BK-117	HELI	293	49	0.0036%	99.8664%
58	BN2P	BRITTEN-NORMAN BN-2/	PA31	145	777	0.0564%	96.9287%
59	BSTP	BELL 214ST SUPERTRAN	HELI	489	1	0.0001%	99.9993%
60	C135	BOEING C-135B	B703	219	194	0.0141%	99.3141%
61	C141	STARLIFTER	DC87	191	349	0.0253%	98.8057%
62	C17	MCDONNELL DOUGLAS C-	B763	111	1386	0.1006%	94.4240%
63	C172	SKYHAWK 172	P28A	89	2302	0.1671%	91.5775%
64	C177	CARDINAL 177	P28A	252	103	0.0075%	99.6494%
65	C182	SKYLANE 182/RG	P28A	148	755	0.0548%	97.0946%
66	C210	CENTURION/II	PA31	165	602	0.0437%	97.9354%
67	C212	CASA C-212 AVIOCAR (	D228	121	1105	0.0802%	95.3041%
68	C303	CRUSADER 303	PA31	172	523	0.0380%	98.2185%
69	C30J	C-130J	C130	178	451	0.0327%	98.4336%
70	C310	CESSNA 310/T310	PA31	118	1126	0.0818%	95.0611%
71	C337	SUPER SKYMASTER 337	PA34	214	207	0.0150%	99.2412%
72	C340	CESSNA 340	PA31	151	727	0.0528%	97.2548%
73	C402	CESSNA 402	PA31	213	211	0.0153%	99.2262%
74	C414	CHANCELLOR 414	C421	171	539	0.0391%	98.1806%
75	C425	CORSAIR/CONQUEST	PAY2	202	258	0.0187%	99.0389%
76	C5	LOCKHEED C-5 GALAXY	B742	123	1097	0.0797%	95.4638%
77	C500	CITATION I	C550	112	1373	0.0997%	94.5237%
78	C501	CITATION 1SP	C550	135	893	0.0648%	96.3369%
79	C525	CITATIONJET 525	C550	57	4713	0.3422%	84.1040%
80	C526	CESSNA 526 CITATIONJ	C550	484	1	0.0001%	99.9989%
81	C551	CITATION 2SP	C550	164	602	0.0437%	97.8917%
82	C56X	CESSNA 560XL	FA10	94	2035	0.1478%	92.3545%
83	C650	CITATION III	LJ35	110	1416	0.1028%	94.3233%
84	C72R	CESSNA 172RG CUTLASS	P28A	237	135	0.0098%	99.5230%
85	C77R	CESSNA 177RG CARDINA	P28A	280	59	0.0043%	99.8173%
86	C82R	CESSNA R182/TR182 (T	P28A	251	103	0.0075%	99.6419%
87	CN35	CN-235/CN235	AT43	107	1549	0.1125%	94.0089%
88	CONC	CONCORDE	FGTN	212	215	0.0156%	99.2109%
89	CRJ2	RJ-200 REGIONAL JET	CRJ1	12	26061	1.8923%	44.8596%
90	CRJ7	RJ-700 REGIONAL JET	CRJ1	49	6370	0.4625%	80.9944%
91	CVLT	CANADAIR CL-66/CV-58	AT43	149	749	0.0544%	97.1490%
92	DC85	DC-8-50, JET TRADER	DC87	315	25	0.0018%	99.9222%
93	DC86	DC-8-60	DC87	144	780	0.0566%	96.8723%
94	DC91	DOUGLAS DC-9-10	DC94	253	102	0.0074%	99.6568%
95	DC92	DOUGLAS DC-9-20	DC94	325	20	0.0015%	99.9381%
96	DC93	DOUGLAS DC-9-30	DC94	114	1325	0.0962%	94.7164%
97	DC95	DOUGLAS DC-9-50	DC94	86	2457	0.1784%	91.0649%
98	DH8A	DHC-8-100 DASH 8	DH8C	30	12529	0.9097%	68.4777%
99	DH8B	DHC-8-200 DASH 8	DH8C	115	1241	0.0901%	94.8066%
100	DH8D	DHC-8-400 DASH 8	DH8C	32	12020	0.8728%	70.2325%

101	E110	BANDEIRANTE EMB-110	D228	150	730	0.0530%	97.2020%
102	E135	EMBRAER ERJ-135	FA50	59	4397	0.3193%	84.7467%
103	E3CF	BOEING E-3A (CFM56)	B703	250	104	0.0076%	99.6344%
104	E3TF	BOEING E-3A (TF33)	B703	260	96	0.0070%	99.7064%
105	EC35	EUROCOPTER EC-135	HELI	282	57	0.0041%	99.8256%
106	EC55	EUROCOPTER EC-155	HELI	323	21	0.0015%	99.9352%
107	EH10	EHI EH-101/MERLIN/HE	HELI	354	10	0.0007%	99.9675%
108	ETAR	ETENDARD IV	FGTN	473	1	0.0001%	99.9981%
109	EXPL	MCDONNELL DOUGLAS MD	HELI	306	34	0.0025%	99.9036%
110	F1	MITSUBISHI F-1	FGTN	328	18	0.0013%	99.9422%
111	F104	STARFIGHTER/CL90	FGTN	314	26	0.0019%	99.9203%
112	F117	LOCKHEED F-117 NIGHT	FGTN	433	2	0.0001%	99.9943%
113	F14	TOMCAT	FGTN	412	3	0.0002%	99.9909%
114	F15	EAGLE/F15J/MDC	FGTN	336	15	0.0011%	99.9514%
115	F16	FIGHTING FALCON	FGTN	182	425	0.0309%	98.5598%
116	F18	HORNET	FGTN	174	517	0.0375%	98.2938%
117	F2TH	DASSAULT FALCON 2000	F900	81	2651	0.1925%	90.1482%
118	F4	PHANTOM II/F4EJ/MDC	FGTN	222	186	0.0135%	99.3555%
119	F5	FREEDOM FIGHTER/CF-5	FGTN	265	87	0.0063%	99.7396%
120	FREL	SUD SA-321 SUPER FRE	HELI	318	23	0.0017%	99.9273%
121	G222	FIAT G-222	ATP	232	144	0.0105%	99.4726%
122	GLEX	CANADAIR BL-701 GLOB	B744	142	814	0.0591%	96.7576%
123	GLF2	G-1159 GULFSTREAM1/2	LJ45	224	178	0.0129%	99.3818%
124	GLF3	GULFSTREAM 3	LJ45	168	567	0.0412%	98.0617%
125	GLF4	GULFSTREAM 4	LJ45	80	2657	0.1929%	89.9558%
126	GLF5	GULFSTREAM 5	LJ45	120	1119	0.0812%	95.2238%
127	H21	VERTOL H-21	HELI	431	2	0.0001%	99.9940%
128	H25A	DE HAVILLAND DH-125	H25B	208	236	0.0171%	99.1458%
129	H25C	BRITISH AEROSPACE BA	H25B	188	366	0.0266%	98.7285%
130	H46	VERTOL 107	HELI	341	14	0.0010%	99.9567%
131	H47	BOEING VERTOL CH-47/	HELI	299	40	0.0029%	99.8850%
132	H53	S-65	HELI	308	32	0.0023%	99.9082%
133	H60	S-70	HELI	205	247	0.0179%	99.0935%
134	H64	HUGHES AH-64 APACHE	HELI	471	1	0.0001%	99.9980%
135	HAR	HARRIER, ALL mARKS	FGTN	294	47	0.0034%	99.8698%
136	HAWK	HAWK MK-1 50/60	FGTN	317	24	0.0017%	99.9256%
137	IL18	IL-18	C130	227	163	0.0118%	99.4179%
138	IL62	IL-62/IL-62M/MK	B703	206	246	0.0179%	99.1113%
139	IL76	IL-76/IL-76M/MD/T/TD	A30B	158	691	0.0502%	97.6117%
140	IL86	IL-86	DC87	108	1457	0.1058%	94.1147%
141	IL96	IL-96	DC87	257	98	0.0071%	99.6855%
142	J328	DORNIER 328 JET	F28	77	2811	0.2041%	89.3697%
143	JAGR	JAGUAR	FGTN	255	99	0.0072%	99.6713%
144	JS1	JETSTREAM 1 (HP-137)	JS31	397	4	0.0003%	99.9873%
145	JS20	JETSTREAM 200	JS31	256	98	0.0071%	99.6784%
146	JS32	BAE-3200 SUPER 32	JS31	69	3575	0.2596%	87.6285%
147	K35R	BOEING KC-135R/T	B703	152	715	0.0519%	97.3067%
148	KA27	KAMOV KA-27/28/29/31	HELI	430	2	0.0001%	99.9939%
149	L159	AERO L-159	FGTN	348	11	0.0008%	99.9629%
150	L188	ELECTRA	C130	136	844	0.0613%	96.3982%

151	L29A	LOCKHEED L-1329 JETS	CL60	396	4	0.0003%	99.9870%
152	L410	LET L-410/420 TURBOL	D228	68	3636	0.2640%	87.3689%
153	LJ24	LEAR JET 24	FA10	364	8	0.0006%	99.9737%
154	LJ31	GATES LEARJET 31	LJ35	132	986	0.0716%	96.1377%
155	LJ55	GATES LEARJET 55	LJ35	166	599	0.0435%	97.9789%
156	LYNX	WESTLAND LYNX/SUPER	HELI	339	14	0.0010%	99.9546%
157	M20P	M-20 NON TURBOCHARGE	TRIN	130	1014	0.0736%	95.9936%
158	M20T	M-20 TURBOCHARGED	TRIN	170	539	0.0391%	98.1414%
159	MD81	BOEING MD-81	MD83	56	4719	0.3426%	83.7618%
160	MD82	BOEING MD-82	MD83	6	46417	3.3703%	28.3683%
161	MD87	BOEING MD-87	MD83	29	12799	0.9293%	67.5680%
162	MD88	BOEING MD-88	MD83	52	5871	0.4263%	82.2929%
163	MD90	MCDONNELL DOUGLAS MD	MD83	105	1586	0.1152%	93.7836%
164	MI2	MI 2	HELI	463	1	0.0001%	99.9974%
165	MI24	MIL MI-24/25/35	HELI	462	1	0.0001%	99.9973%
166	MI26	MI26	HELI	352	10	0.0007%	99.9660%
167	MI8	MI 8	HELI	300	39	0.0028%	99.8878%
168	MIR2	MIRAGE 2000	FGTN	262	93	0.0068%	99.7202%
169	MIR4	MIRAGE IV	FGTN	426	2	0.0001%	99.9933%
170	MRF1	DASSAULT MIRAGE F1	FGTN	343	13	0.0009%	99.9586%
171	MU30	MU-300	C550	246	107	0.0078%	99.6038%
172	N262	NORD 262 FREGATE	JS41	157	692	0.0502%	97.5615%
173	P180	P 180 AVANTI	F70	116	1236	0.0897%	94.8963%
174	P28B	PA28-201/235/236	P28A	245	114	0.0083%	99.5961%
175	P28R	PIPER PA-28R-180/200	TRIN	103	1635	0.1187%	93.5497%
176	P28T	PIPER PA-28RT ARROW	TRIN	139	824	0.0598%	96.5795%
177	P3	ORION	C130	155	702	0.0510%	97.4608%
178	P68	PARTENAVIA P-68/VICT	PA31	209	231	0.0168%	99.1626%
179	PA23	APACHE	PA27	200	266	0.0193%	99.0010%
180	PA32	PIPER CHEROKEE	PA34	181	426	0.0309%	98.5289%
181	PA44	SEMINOLE	PA27	143	800	0.0581%	96.8157%
182	PAY4	PA-42 CHEYENNE 400	PAY3	248	105	0.0076%	99.6192%
183	PUMA	SUD SA-330 PUMA	HELI	173	520	0.0378%	98.2563%
184	R22	ROBINSON R-22	HELI	425	2	0.0001%	99.9932%
185	S330	SCHWEIZER 330	HELI	367	7	0.0005%	99.9752%
186	S601	SN 601 CORVETTE	C550	161	653	0.0474%	97.7573%
187	S61	HELIPRO S-61 SHORTSK	HELI	176	490	0.0356%	98.3654%
188	S61R	AGUSTA AS-61R (HH-3)	HELI	384	5	0.0004%	99.9830%
189	S76	SIKORSKY S-76/H-76/A	HELI	82	2582	0.1875%	90.3357%
190	SB05	SAAB 105	C550	366	7	0.0005%	99.9747%
191	SB35	SAAB 35 DRAGEN	FGTN	377	6	0.0004%	99.9801%
192	SB37	SAAB 37 VIGGEN	FGTN	450	1	0.0001%	99.9964%
193	SB39	SAAB 39 GRIPEN	FGTN	403	3	0.0002%	99.9889%
194	SBR1	NORTH AMERICAN NA-26	FA20	321	21	0.0015%	99.9321%
195	SH33	SHORT 330	SH36	277	61	0.0044%	99.8043%
196	SW2	MERLIN IIA/B	SW3	183	407	0.0296%	98.5893%
197	SW4	EXPEDITER, MERLIN	SW3	50	6116	0.4441%	81.4385%
198	T204	TUPOLEV TU-204	B752	138	832	0.0604%	96.5197%
199	TBM7	TBM 700	PAY3	93	2086	0.1515%	92.2067%
200	TOBA	SOCATA TB-10/200 TOB	P28A	195	303	0.0220%	98.8987%

201	TOR	PANAVIA TORNADO	<i>FGTN</i>	198	276	0.0200%	98.9618%
202	UH1	AUGUSTA AB-204/205	<i>HELI</i>	307	32	0.0023%	99.9059%
203	VC10	VC10-1100	<i>B703</i>	201	264	0.0192%	99.0202%
204	W3	PZL-SWIDNIK W-3 SOKO	<i>HELI</i>	419	2	0.0001%	99.9923%
205	WW24	WESTWIND	<i>H25B</i>	289	49	0.0036%	99.8522%
206	YK40	YAK-40	<i>DH8C</i>	91	2225	0.1616%	91.9021%
207	YK42	YAK-42	<i>B461</i>	92	2109	0.1531%	92.0552%
TOTAL BADA 3.4 Synonym Aircraft Types						20.5769%	

APPENDIX C

BADA 3.5 Coverage Statistics

Breakdown of traffic data –December & July 2002

Breakdown of Traffic Data –December & July 2002

