

Berne, 19 May - 2 June 1978

BSCE/13 WP 8

THE COMPUTER ANALYSIS PROJECT

J Thorpe - Chairman Analysis Working Group

1. The project involves the storage and analysis of data from bird strike reports from European Registered civil aircraft.
2. The UK CAA computer facility is to be used with BSCE members sharing the programming and annual costs.
3. The original proposals involved input of the data in code with the output in two forms
 - (i) tabulated data in plain language similar to the form in which it is sent to ICAO
 - (ii) tables of analysed data as used in BSCE/13 WP 7
4. The current proposal is to use a system similar to that used by the Australian Department of Transport. The number of incidents involving up to 18 bird species is tabulated against each feature eg aircraft type, altitude, aerodrome, month of year etc (see attachment). This layout enables the problem species to be identified against each of the areas of investigation. These tables, used in conjunction with aircraft movement data should considerably ease the task of completing the standard tables of BSCE analysis data.

AIRCRAFT TYPE	21	22	41	58	13	20	02	71	07	49	25	19	27	53	78	65	75	11	37	OTHER	TOTAL	X
F27	110	9	2	31	6	2	1	2	2	5	15	3	50	1	1	10	4	3	3	226	493	20
F28	18	18	1	4	12	3	1	1	1	10	10	2	2	2	8	8	3	1	1	45	88	4
DC9	54	7	1	55	12	1	3	2	2	15	15	1	41	6	3	3	3	1	2	230	443	18
8727	74	2	2	13	1	1	1	2	1	6	6	1	23	2	2	2	3	1	1	125	264	11
8707	13	2	2	3	1	1	1	2	1	1	1	1	20	4	4	2	3	1	1	75	124	5
8747	12	2	2	3	1	1	1	2	1	1	1	1	6	1	3	1	1	2	1	11	25	1
OTHER TURBINE	23	1	1	10	2	1	1	2	2	9	9	2	8	1	1	1	3	2	2	90	157	6
SINGLE RECIP AERO	80	5	4	9	9	2	1	1	2	13	13	7	12	1	1	4	5	2	1	121	269	11
MULTI RECIP AERO	135	3	2	50	16	1	1	1	2	23	23	4	40	2	1	8	4	3	1	203	482	19
OTHER, UNKNOWN	27	2	2	19	4	4	1	1	1	4	4	2	6	6	1	2	3	3	1	82	153	6
OPERATOR (RPT)																						
ANSETT	96	12	2	59	9	4	2	2	2	8	17	2	82	5	1	6	6	4	4	374	695	28
ANSETT NSW	1										2	1	3							9	16	1
ANSETT SA	1									1	2	1	4							4	23	1
CORNHAI	3			3						6	6	1	4							10	23	1
EAST WEST	25									10	10	1	36							15	36	1
MCROB MILLER	3	1	1	2	2	1	1	2	2	3	3	1	2	2	1	11	2	1	1	51	117	5
GAUNTAS	32			4	3	1	1	4	2	10	10	4	4	4	7	2	1	1	1	77	135	5
TAA	11	2	2	3	1	1	2	3	3	19	19	1	26	5	1	7	4	2	2	270	597	24
OTHER RPT	153	6	3	54	9	1	2	4	1	4	4	1	47	5	1	4	4	1	1	47	87	3
TOTAL RPT	25									1	1	1	6							1	7	8
OTHER	349	21	6	125	19	3	7	7	8	13	60	7	174	10	11	30	11	8	8	857	1734	69
FLIGHT PHASE																						
TAXI	3																					
TAKE-OFF	250	4	6	57	3	1	3	3	3	4	47	5	69	4	4	16	6	1	5	368	695	35
CLIMB	13	1	1								3	3	5			1	2		1	30	60	2
CRUISE	5			2									1							35	48	2
HOLDING	1																			2	3	1
DESCENT	7	14	1	15	1	2	2	2	2	5	5	2	43	2	4	5	7	1	1	21	27	1
FINAL APPROACH	62	8	3	103	16	4	6	6	3	10	37	3	83	7	1	15	6	3	1	274	372	15
LANDING	172	1	3	17	4	1	1	1	3	4	4	2	6	4	3	2	3	1	4	442	928	37
OTHER & UNKNOWN	32	1	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	99	179	7
ALTITUDE																						
0-200 FEET	205	11	3	58	7	2	2	1	6	7	47	3	105	4	4	12	5	5	5	422	912	37
201-800	22	4	1	3		1		1	1	1	1	2	8		2	1	3	2	1	73	125	3
801-2500	12	4	3					4	1		2	4	4		2	1	4	4	1	59	92	4
> 2500	7											1	1				1	1	1	32	44	2
UNKNOWN	299	12	5	133	18	2	8	7	3	8	46	9	90	9	6	26	13	6	4	618	1322	33
AIRCRAFT SPEED																						
0-50 KTS	23		1	4							6		3			16				17	57	2
51-100	154	10	3	66	3	3	3	1	4	2	32	5	67	1	1	16	4	2	2	311	686	27
101-150	80	4	4	31	2	1	2	2	4	4	20	4	72	3	7	2	8	4	3	266	521	21
151-200	6							1	1	1	1	1	2			2	1	1	1	32	44	2
201-250	2																			4	7	
> 250	2																			4	6	
UNKNOWN	280	14	4	93	20	2	5	5	4	7	37	9	64	8	5	21	13	7	6	570	1174	47
FLIGHT DISRUPTION																						
RETURNED/ABORTED	34	1	1	2			2		1		7	4	8	1	1	1	1	2	1	51	117	5
DELAYED	17	2		1					2		3	2	5		1	1	1	1	1	22	58	2
CANCELLED	2	1		1							3	1	1					1	1	2	14	1
DIVERTED	2																			5	8	
OTHER/UNKNOWN	490	24	11	190	25	3	8	9	8	15	86	12	194	12	10	37	25	10	9	1120	2298	92

PERIOD: YEARS OF 1969-1977
 LOCATION: ALL

AUSTRALIAN AIR TRANSPORT - ALL OPERATIONS
 ACCIDENTS/INCIDENTS INVOLVING BIRD STRIKES (IDENT=X)
 BIRD SPECIES BY ENVIRONMENTAL & OPERATING CONDITIONS

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PART STRUCK	AUSTRALIAN AIR TRANSPORT - ALL OPERATIONS													OTHER	TOTAL	%						
	21	22	41	58	13	20	02	71	07	49	25	19	27				53	78	65	75	11	37
RADOME/NOSE	38	2	1	10	1			2	1	1	9	2	12	2	2	5	4	1	1	93	182	7
WING	81	6	4	15				1	2	1	15	6	22	2	1	5	2	3	1	114	292	11
POWER PLANT/PROPS	56	3		20	2			1	1	1	11	4	27	1	2	4	2	3	2	112	253	10
WINDSCREEN/COCKPIT	44	2	4	4				2	2	2	4	1	12	3	2	2	6	1	3	116	208	8
FLAP/FUS/ANTENNAE	45		1	7	1					1	8	1	14	1	1	2	5	1	74	165	7	
LANDING GEAR	35	4	1	7	2				1	3	7	1	12		1	1	5	1	52	128	5	
EMERGENCY	2			1									1						7	14	1	
OTHER/UNKNOWN	244	11	1	128	18	2	4	3	4	5	42	4	108	6	5	23	9	4	4	635	1265	51
DAMAGE																						
DESTROYED																				9	16	1
SUBSTANTIAL																				106	208	8
MINOR	41	5	6	5	25	3	6	9	2	15	10	5	16	13	8	1	2	11	10	1039	2269	91
NONE	502	25	6	189							85	13	191							2		2
UNKNOWN/NR																						
AIRCRAFT LIGHTS																						
NAVIGATION																						
LANDING																						
ROTATING																						
STROBE																						
WING																						
UNKNOWN/NR																						
YEAR OF OCCURRENCE	1969	75	5	1	29	4	2	2	2	2	21	2	50	1	1	4	6	2	3	195	400	16
	1970	78	3	3	18	2	2	2	1	3	18	1	37	1	1	2	2	3	2	207	357	14
	1971	55	4	11	11	3	1	1	3	1	10	4	29	2	6	5	5	3	2	156	290	12
	1972	38	5	13	13	3	2	1	2	1	7	4	16	1	10	3	3	1	2	127	232	9
	1973	69	4	3	25	4	1			2	12	2	27	2	2	5	2	2	134	290	12	
	1974	42	3	3	30	4	1		2	1	11	4	14	4	3	2	5	2	124	258	10	
	1975	66	1	1	25	1	2			3	6	1	17	4	2	2	3	1	115	249	10	
	1976	76	3	1	30	1	1	3	1	1	4	1	7	1	1	3	2	1	35	225	9	
	1977	45	1	1	12	1	1	2	1	2	5	4	10	1	1	1	3	2	65	157	6	
	1978	1			1								1						4		7	
TOTAL	545	28	12	194	25	3	10	9	11	15	96	19	208	13	12	39	26	13	11	1206	2495	
X OF TOTAL	22	1	8	8	1					1	4	1	8	1	2	1	1	1		48		

2495 100

Discussion on WP 8

Ferry had some comments concerning the background to the planned computer based data system.