

 KONINKLIJKE LUCHTVAART MAATSCHAPPIJ N.V.		Datum Mar 20, '84	
Van Dienst/Bur./Afd. Flight Support Services Dept.		RAPPORT Nr.: 101	
Onderwerp : Birdstrikes during 1983			
Samensteller : C. Bakker			
Aan Ans/OL Hr. C.H. Schoen		Co AMS/AC AMS/OA AMS/OD AMS/OV AMS/TP AMS/IC SPL/CE SPL/OA RLD/LI D.V.L.S.	
1. <u>General</u>			
Total number of detected birdstrikes during 1983 70 (100%)			
Birdstrikes at Amsterdam Schiphol 29 (41.4%)			
at Aerodromes inside Europe 20 (28.6%)			
at Aerodromes outside Europe 18 (25.7%)			
en route 2 (2.9%)			
unknown 1 (1.4%)			
2. Lists of birdstrikes at airports during 1983 (see attachments)			
T = Take-off			
C = Climb			
A = Approach			
L = Landing			

3. Number of birdstrikes for KLM per airport 1983

		Nr. of strikes	Movements*	<u> Strikes/10.000 mov. </u>			
				1983	1982	1981	1980
Amsterdam	SPL	29	61.645	4.7	5.4	4.6	7.6
Rotterdam	RTM	1	4.866	2.1			
Istanbul	IST	2	936	21.4			
London	LHR	2	7.696	2.6			
Lisbon	LIS	3	832	36.-			
Milan	LIN	2	1.456	13.7			
Zürich	ZRH	2	3.328	6.-			
Arusha	JPO	4	104				
Paris	CDG	1	4.472	2.2			
Vienna	VIE	1	2.184	4.5			
Amman	AMM	2	312	64.1			
<u>KLM World-wide</u>			168.890	4.14	5.4	6.2	6.0

* A movement is a landing or a take-off.

4. References

1. Pilots birdstrike report
2. Monthly birdstrike survey of Centre Engineering Department
3. Corrected Basis Program of Logistics Department

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Date
1983
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Date	AMS	Airports		Phase of flights				F-27	F-28	DC-9	A310	DC-8-63	DC-10	B-747	Ident.
		Inside Europe	Outside Europe	T	C	A	L								
			BKK		X	X				X				X	BUN DNI SAD BUN DEK DTB
	X							X							
	Y			X											
	X			X								X			
	X			X									X		
			KHI		X									X	EUC DNT DEE DED
	X		JRO JRO	X			X					X X			
		RTM				X X			X					X	CHF DTC SAD DEK DIR DSE
	X		FNA	X				X				X			
		LHR				X					X				
	X			X										X	
			ROB			X X	X					X			DEK DOA EUD DNR DEC
	X	ALC LHR VIE		X		X X	X				X X		X		

KLM		Airports		Phase of flights											
Date	AMS	Inside Europe	Outside Europe	T	C	A	L	F-27	F-28	DC-9	A310	DC-8-63	DC-10	B-747	Ident.
1983															
<u>MAY</u>															
06		LIN		X											MAX
06		ATH				X								X	GUH
07	X					X		X							KFC
12		ACP		X								X			DIN
14			YYZ			X								X	GUH
31			ARN		X								X		OTA
<u>JUN</u>															
01			MCT		X								X		OTA
01	X			X										X	NI2
03			MIL			X								X	GUH
10	X					X					X				DIS
16		ZPH		X						X					DHH
18		ZRH				X							X		INA
20		LIS			X								X		OTC
28		LIS		X									X		OTC
<u>JUL</u>															
05			JRO	X								X			CEP
06	X					X						X			CEH
09		CDG				X				X					CHI
11			DEL			X								X	Q96
13		LIN				X				X					GR
27	X					X				X					DO
29	X					X				X					CH

Ident.	KLMI		Airports		Phase of flights				F-27	F-28	DC-9	A310	DC-8-63	DC-10	B-747	Ident.
	Date	AMS	Inside Europe	Outside Europe	T	C	A	L								
	1983															
	AUG															
AX	04	X					X								X	BUE
UH	08			JRO	X								X			DEB
FG	10		en route			X							X			DEA
WV	20	X					X				X					DHK
UH	22	X						X					X			DHS
DTA	22		EIN					X								KFK
	23		MST		X				X							KFL
	SEP															
DTA	03	X					X				X					DHS
BUA	06	X					X				X					DHC
DHS	22	X				X					X					DHG
DNH	22	AMS	or TLV										X			DEC
IHA	29	X			X									X		DTO
OTC																
OTC																
	OCT															
	03	X					X				X					DIV
	06	X			X									X		DTA
DEF																
DEH																
DHI																
092																
D:V	09		IST				X						X			DEE
006		X						X								DNL
CIH				AMM			X						X			DEE
				BKK			X								X	EUB
				MEX			X								X	EUD
			GVA				X					X				DHK
			en route					X								KFI

KLM		Airports		Phase of flights											
Date	AMS	Inside Europe	Outside Europe	T	C	A	L	F-27	F-28	DC-9	A-310	DC-8-63	DC-10	B-747	
1983															
<u>DEC</u>															
02			KAN			X							X		AMS
02	X					X		X							SAD
11	X			X										X	BUR
14	X			X						X					CUN
14		LIS					X						X		DTE
17		ACP		X						X					DIA
29		IST		X							X				AGB

For: ATLANTIC, POLAR,
AFRICA, MIDDLE &
FAR EAST, EUROPE
General



briefing

Subject: BIRD MIGRATION

During the coming 6 weeks the autumn migratory movements will enlarge the bird strike risk all over Europe.

The height of the movements can be expected up to 5000 ft above ground level. The strongest movements will take place between 0500-1200 and between 1800-2300 LT.

Bird movements are favoured by the following weather parameters:

- high pressure influence over Central Europe
- cyclone over Northern or Eastern Europe
- long dryness causing shortage of food
- fair weather after some days of precipitation.

Extreme caution is advised in the airport areas in the morning and evening hours when short-term assembling of birds takes place.

All Chief Pilots