

The practical use of bird strike risk assessments in Copenhagen Airport

NBSAG, 22nd May 2014



<u>**Risk</u>** = bird strike **frequency** x severity</u>

Frequency:

average number of bird strikes per year during the last five years. <u>Only identified birds from pilot-reported strikes and unreported strikes are considered.</u>

Severity:

% of bird strikes involving the species which lead to damage to aircraft. <u>Severity=0,014 **x**</u> standard weight of the species.



Defenitions of frequency and severity.

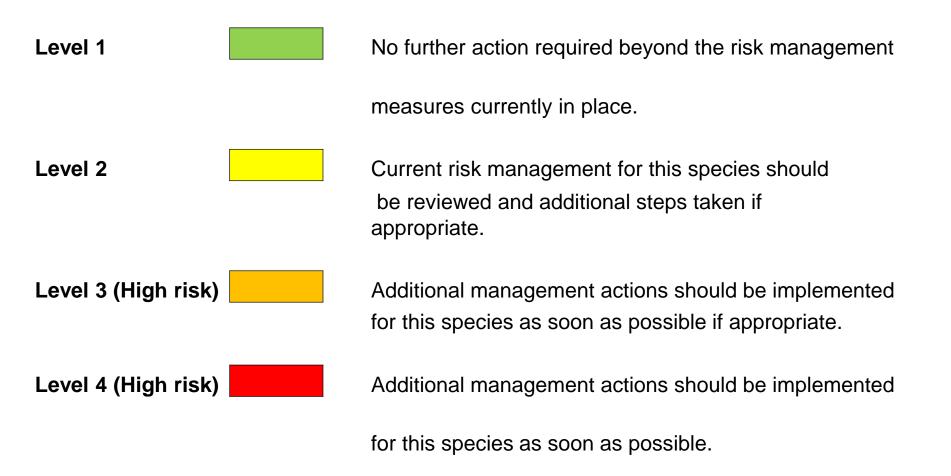
A Probability/Frequency

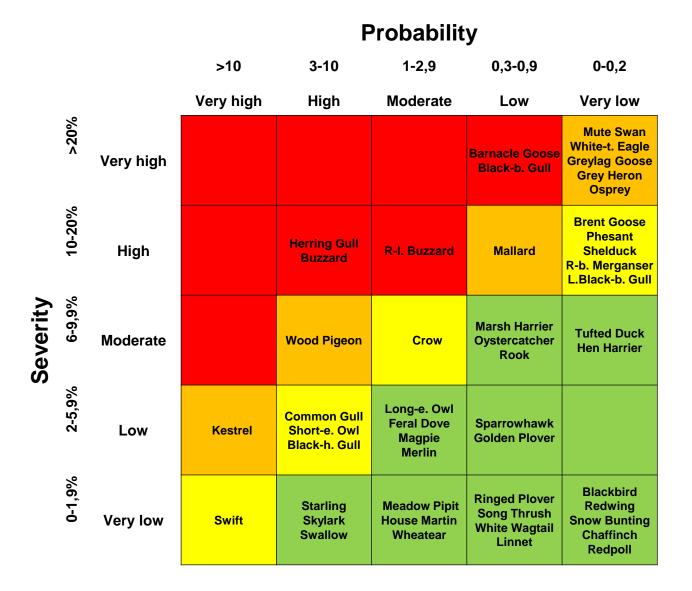
	Mean number of birdstrikes per year Category of frequency	0 - 0,2 Very low	0,3 - 0,9 Low	1 - 2,9 Moderate	3 - 10 High	>10 Very high
В	Severity					
	Percent of birdstrikes leading to damage to aircraft Category of severity	0 - 1,9% Very low	2 - 5,9% Low	6 - 9,9% Moderate	10 - 20% High	ő >20% Very high

Risk levels

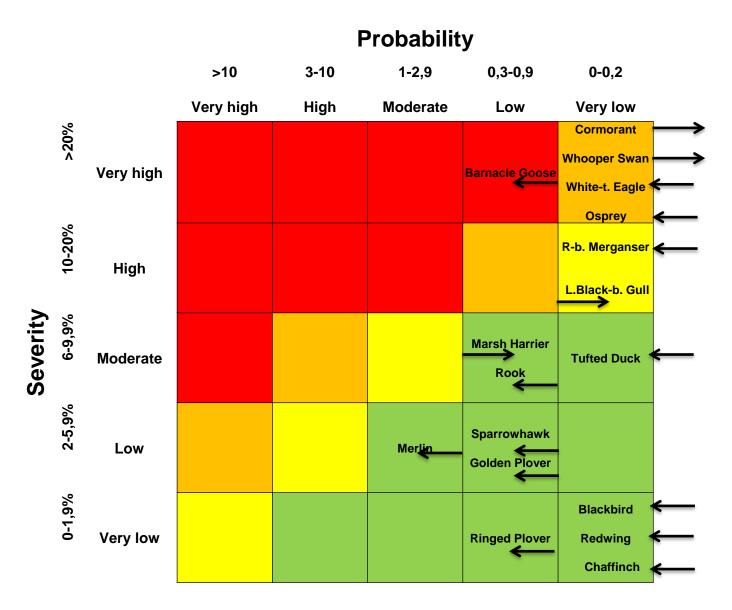
Probability/Frequency

Severity	Very High	High	Moderate	Low	Very Low
Very High	4	4	4	4	3
High	4	4	4	3	2
Moderate	4	3	2	1	1
Low	3	2	1	1	1
Very Low	2	1	1	1	1

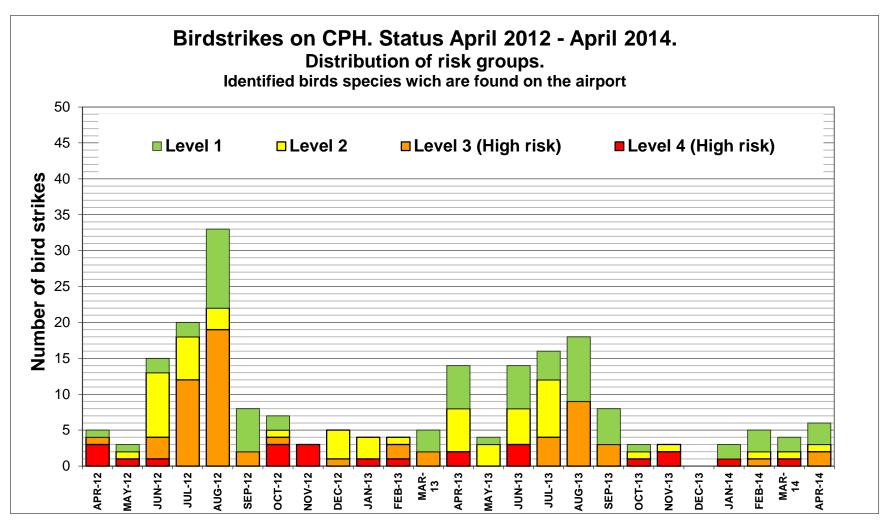




CPH Birdstrike Risk Assessment 2013 vs. 2014

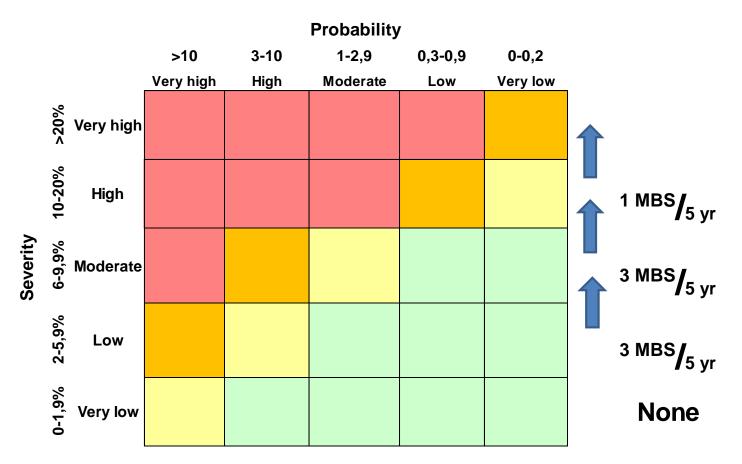


Using data for monthly risk assessments



Implementation of multiple bird strikes (MBS) in the risk assessment.

Increase of severity by multiple bird strikes (MBS)



Source: Andy Baxter/unpublished data from UK.