

Capt. Glenn Christiansen, CHC Helikopter Service



Birds vs. offshore helicopter operations

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- -Some facts from Offshore (Oil and gas) helicopters in the North Sea area:
- -All weather operations, day and night, from Denmark, Netherlands, UK, Ireland and Norway
- -Approx 324 000 flights per year (OGP)/Approx 150 000 flight hours per year.
- -In the Norwegian Continetal Shelf there are three operators; CHC, Bristow and Blue Way;
 - -40 000 flight hours/ 750 000 passengers including shuttle (NCAA)







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- -Primary helicopters in use;
- -S- 92 A;

Eurocopter AS 332/ EC 225;









2

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Report: Bird strike caused Marine helicopter crash

- _ Associated Press Thu, May 17, 2012
 - CAMP PENDLETON, Calif. (AP) A bird strike caused a deadly helicopter crash at Camp Pendleton last year that killed two Marines, according to a Marine Corps investigation.
 - The AH-1W Cobra attack helicopter collided Sept. 19 with a red-tailed hawk that had a wing span of about 4 feet and probably weighed about 3 pounds, according to a report obtained by U-T San Diego (http://bit.ly/KxrFT1).
 - >Both pilots onboard were killed in the crash.









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-Bird strike statistics offshore helicopters?



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CHC (worldwide) 152 birdstrikes

Bristow (worldwide) 84

Total = 236/47 per year



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"CREATING DAMAGE, FEAR, DELAYS AND COST"







8

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A rough estimate of these reports indicates;

- 1/3 happening just after take off from shore.
- 2/3 happening either on cruise, or close to/ or at the helideck
- Some few even at night in 3000 ft...







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Passive bird scaring devices...



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-Typical Bird Strike Report

-Report #: 12- xxxxx Title: Birdstrike







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-What are the operative procedures to prevent bird strikes?



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- -What are the operative procedures to prevent bird strikes?
- -Answer; None! (Not part of any procedure or training programme.)







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Operating manual A. (OMA) CHC and Bristows;

-OMA based on JAR OPS 3;

Xx.xx Bird Hazards and Strikes, Reporting Requirement;

- -A Commander shall immediately inform the appropriate ground station whenever a potential bird hazard is observed.
- -A collision between a helicopter and birds shall be reported on report form NF-2007...
- -The reports may be sent individually or together prior to the 15-th of the following month.
- -See above for the reporting of birdstrikes which have caused material damage (form NF-2007).
- -The Commander shall immediately after the flight submit an Air Safety Report and fill out form...

Dangerous goods: - Restricted articles: - Birds:

- i. Large birds shall be transported in cages, boxes or similar.
- ii. Some offshore installations have custom-made birdcages available for the purpose.
- iii. Birds shall not be let loose in the cabin during flight.





14

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Operative procedures/ Best practice; Look to Canada!









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Essence of the "Bird Avoidance Brochure";

Bottom line-Approach to unmanned, or bird infested helidecks

- >Fly slow. Below 80 kts,
- ► All Lights on
- Consider windshield heat
- Consider dummy approach at distance, to allow birds to depart
- ▶If avoiding birds —climb
- ▶If hit, inspect the aircraft after landing





16

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Guidelines for pilots should be part of the operative documentation, and should be a part of the anual recurrent training programme!

IBSC is a key player here to get the right procedures available globally.







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