



Bird Strikes, a pilots perspective

Capt. Melvyn B Thomas



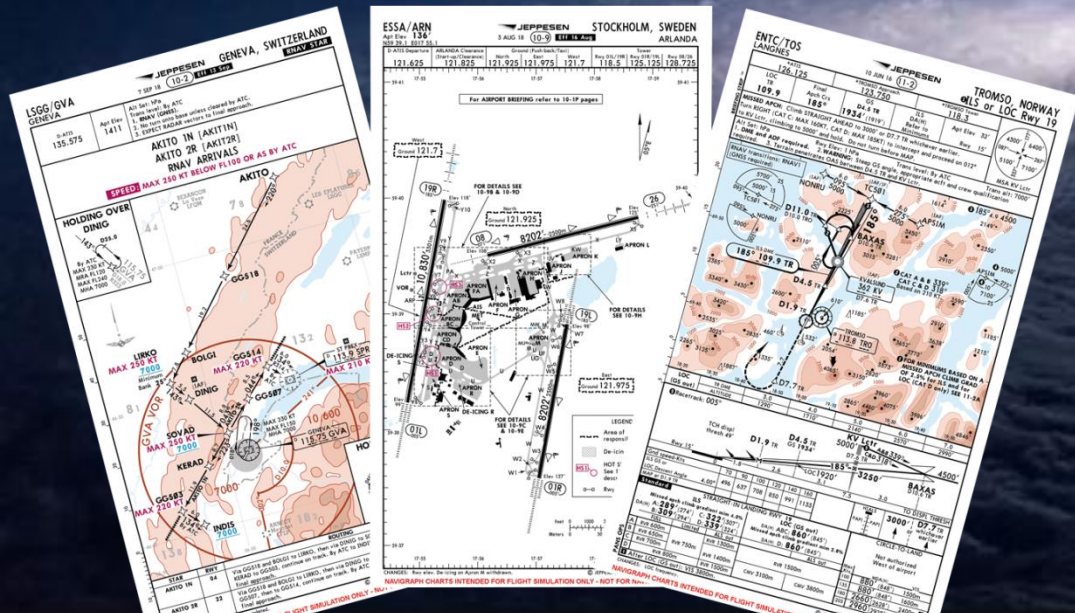
What does it Mean?



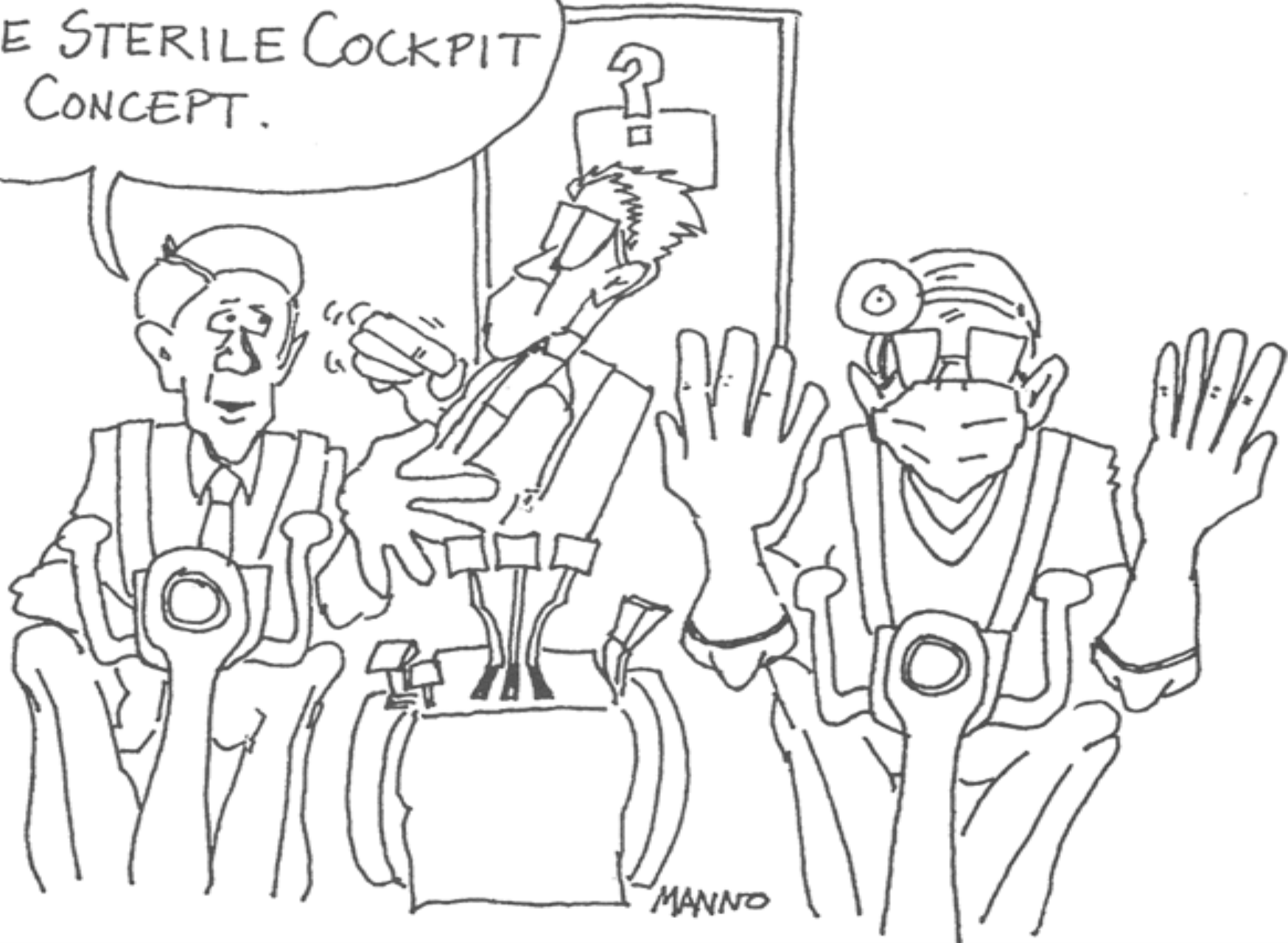
A Critical phase of flight



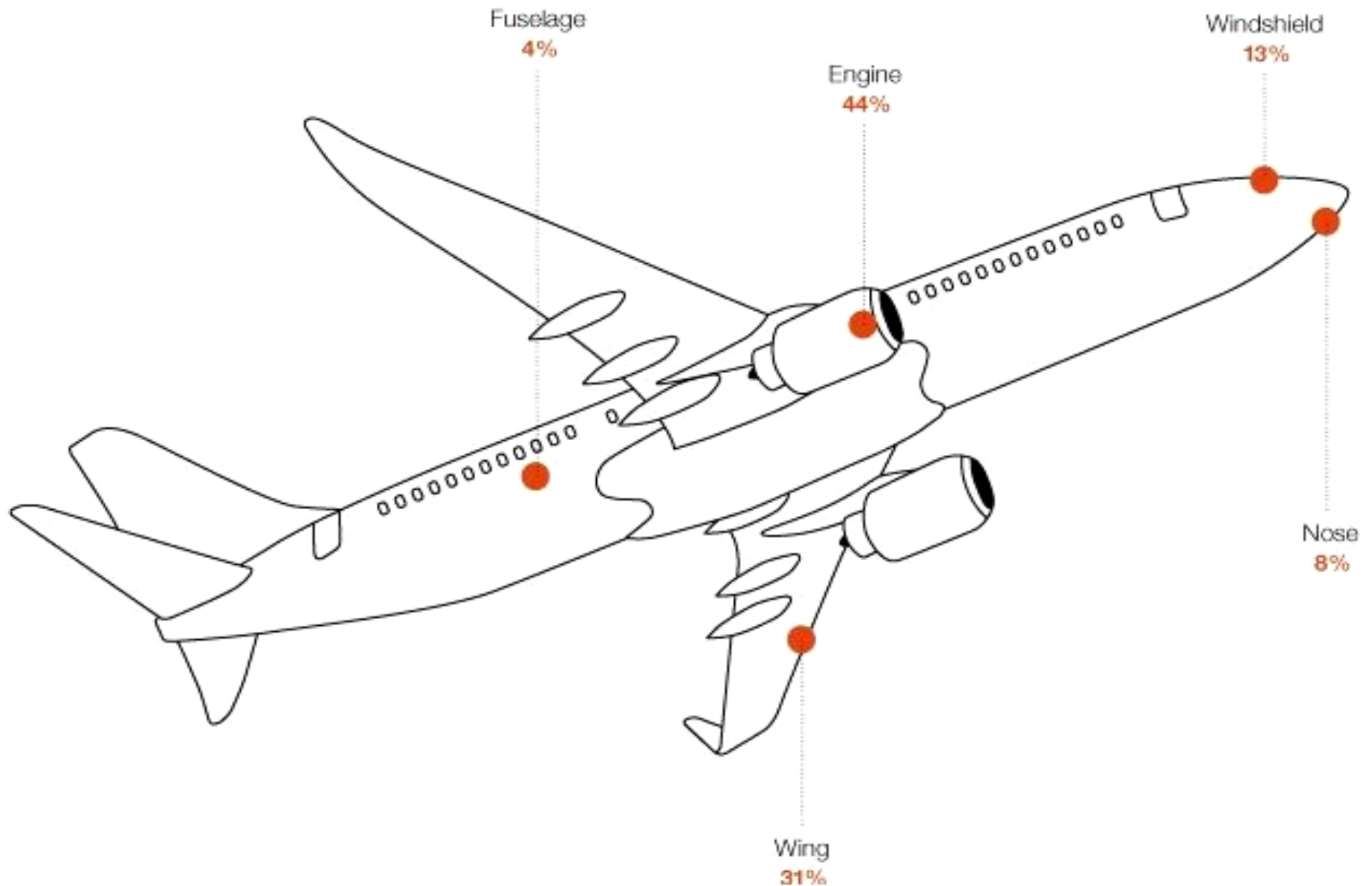
A high workload situation

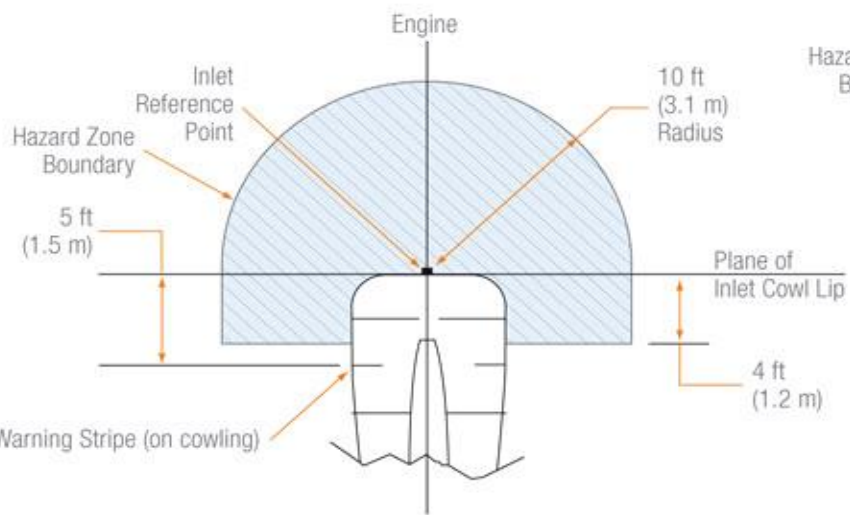


HE'S REALLY INTO
THE STERILE COCKPIT
CONCEPT.

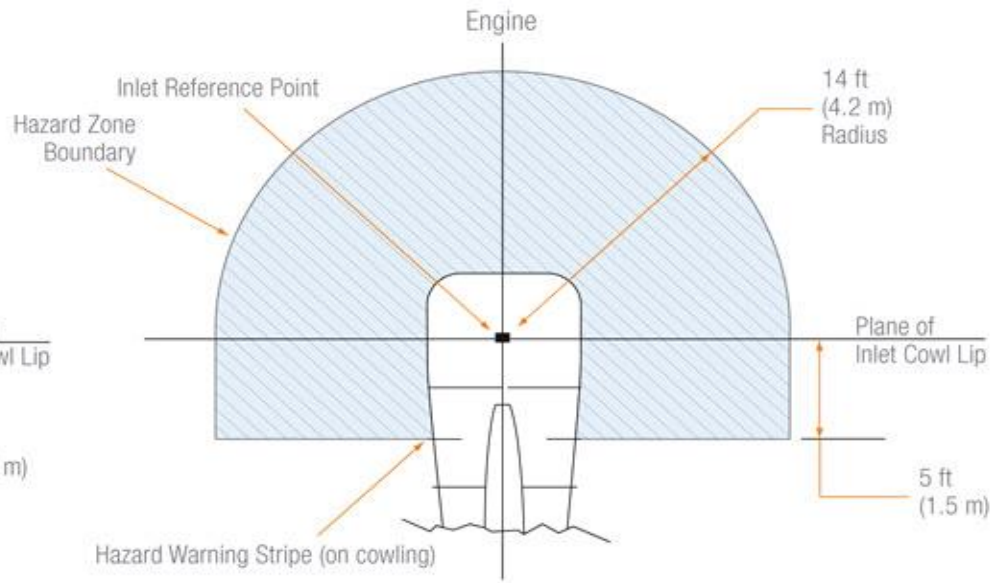


Locations of Bird strikes





IDLE POWER



ABOVE IDLE POWER





Windshield strikes





© ABC

Delta flight forced to make emergency landing after bird strike cracks windshield | Daily Mail Online

© ABC

A Pitot probe strike





Flight Safety Locust Swarm Could Be Worse than a Bird Strike



A massive Locust swarm, called *tiddi dal* in India, hit the city of Jaipur on Monday, 25 May 2020, as urban residents panicked as if it was the "last year for humankind". In January this year, an Ethiopian Airlines jet was forced to make an emergency landing after it flew into a swarm of locusts that were smeared across the windshield. Many



Bird strike tears open radome of SIA 777

By Aaron Chong | 18 August 2015



Delhi-Bound Akasa Air's Flight Suffers Bird Strike, Aircraft's Radome Damaged

Akasa Air's B-737-8(Max) aircraft VT-YAF operating flight QP-1333 (Ahmedabad-Delhi) experienced a bird strike during the climb out passing 1900ft.

PICTURE: Air China 737 radome damaged in bird strike

By Masha Toth | 25 March 2014

An Air China Boeing 737-800 had its radome damaged on 22 March following a bird strike.





AF291 / AFR291
Air France



© Juan Manuel Temoché - SPJC Spotter

	OSAKA <small>(JST (UTC +09:00))</small>	PARIS <small>(CET (UTC +02:00))</small>
SCHEDULED	10:35	SCHEDULED 18:30
ACTUAL	11:15	ESTIMATED 18:10

✈️
46 km, 02:48 ago 9,681 km, in 11:06

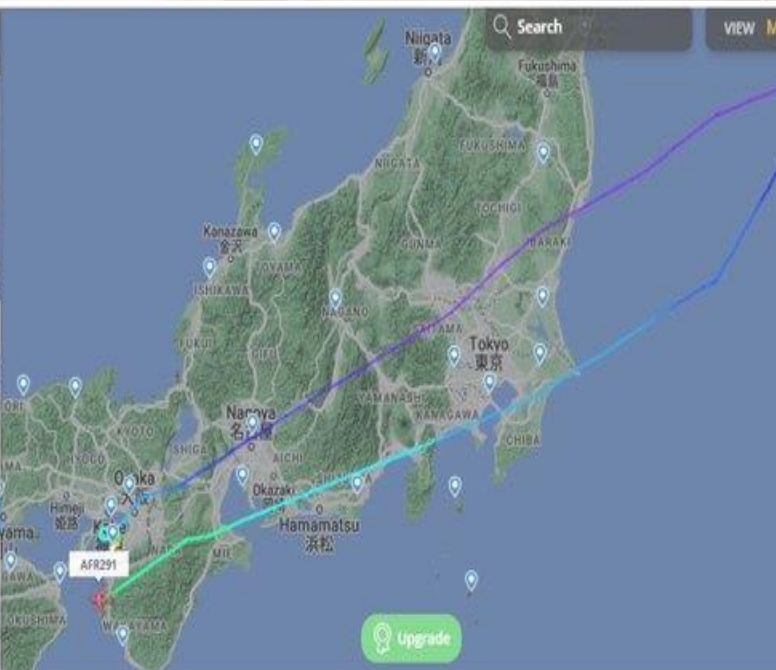
[More AF291 information](#)

AIRCRAFT TYPE (A350)
Airbus A350-941

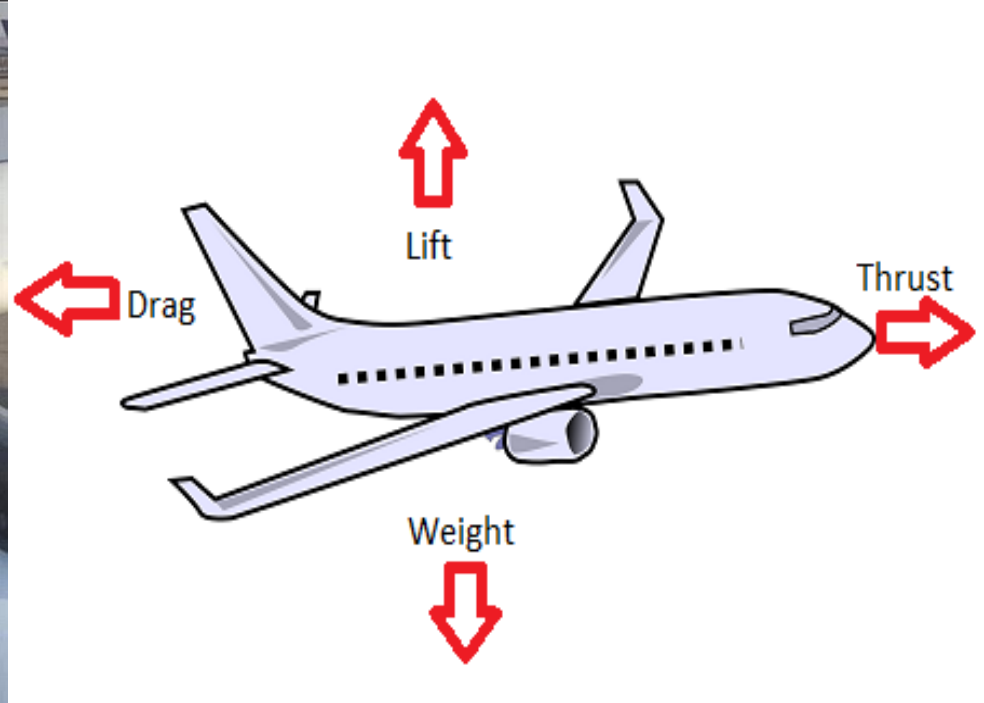
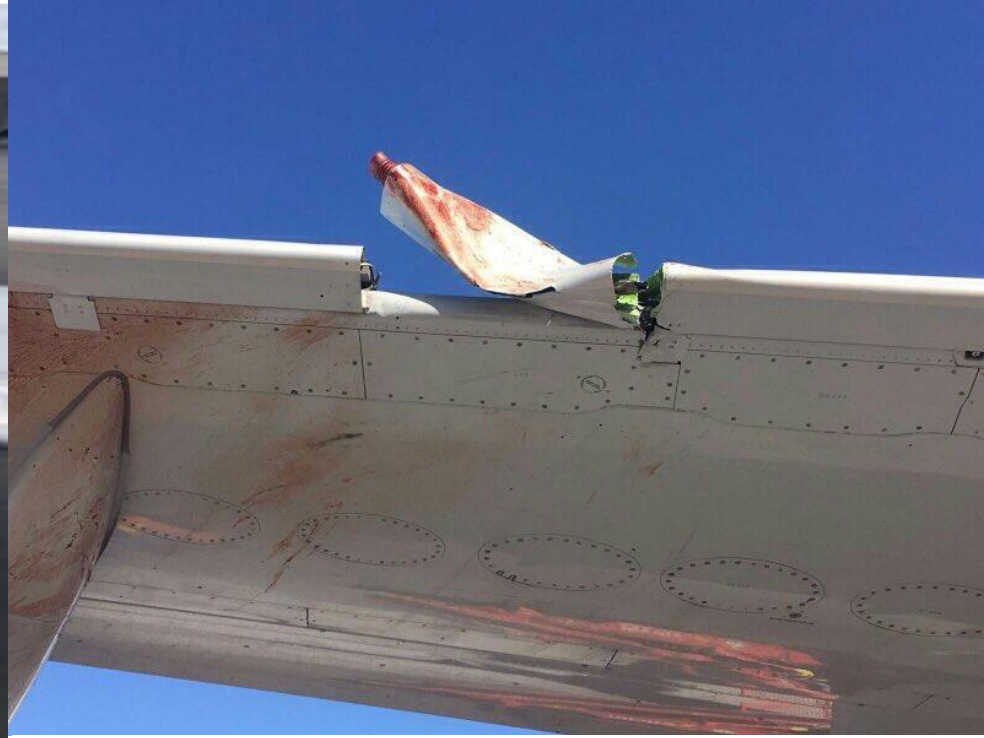
REGISTRATION
F-HTYO

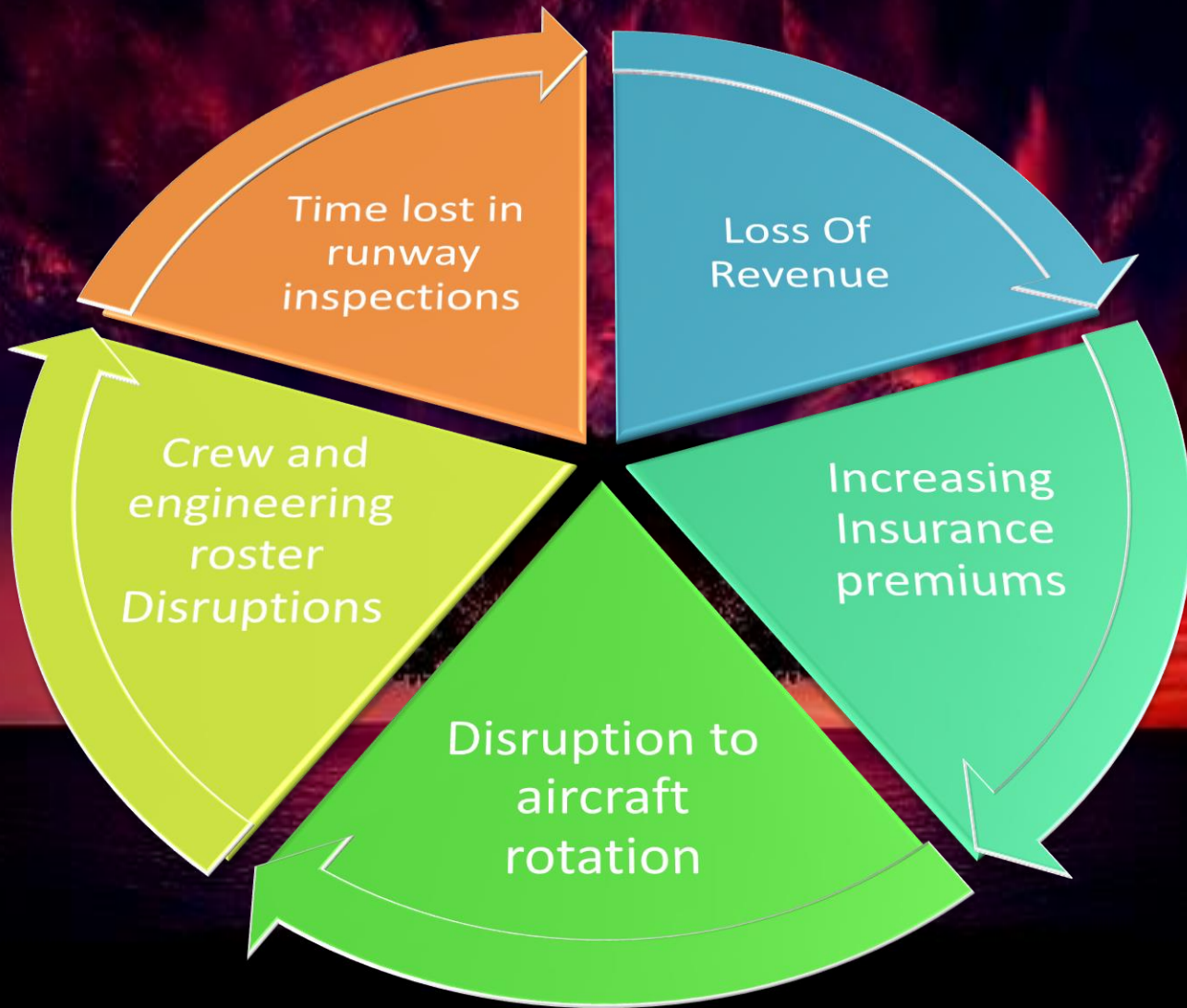
COUNTRY OF REG.

SERIAL NUMBER (MSN)
AGE



Upgrade





Flyers at risk as meat shops mushroom near city airport

TNN / Updated: May 11, 2018, 12:54 IST



Rate of bird strikes in Ahmedabad airport highest in India

Manju V & Niyati Parikh / TNN / Updated: Aug 17, 2019, 09:00 IST

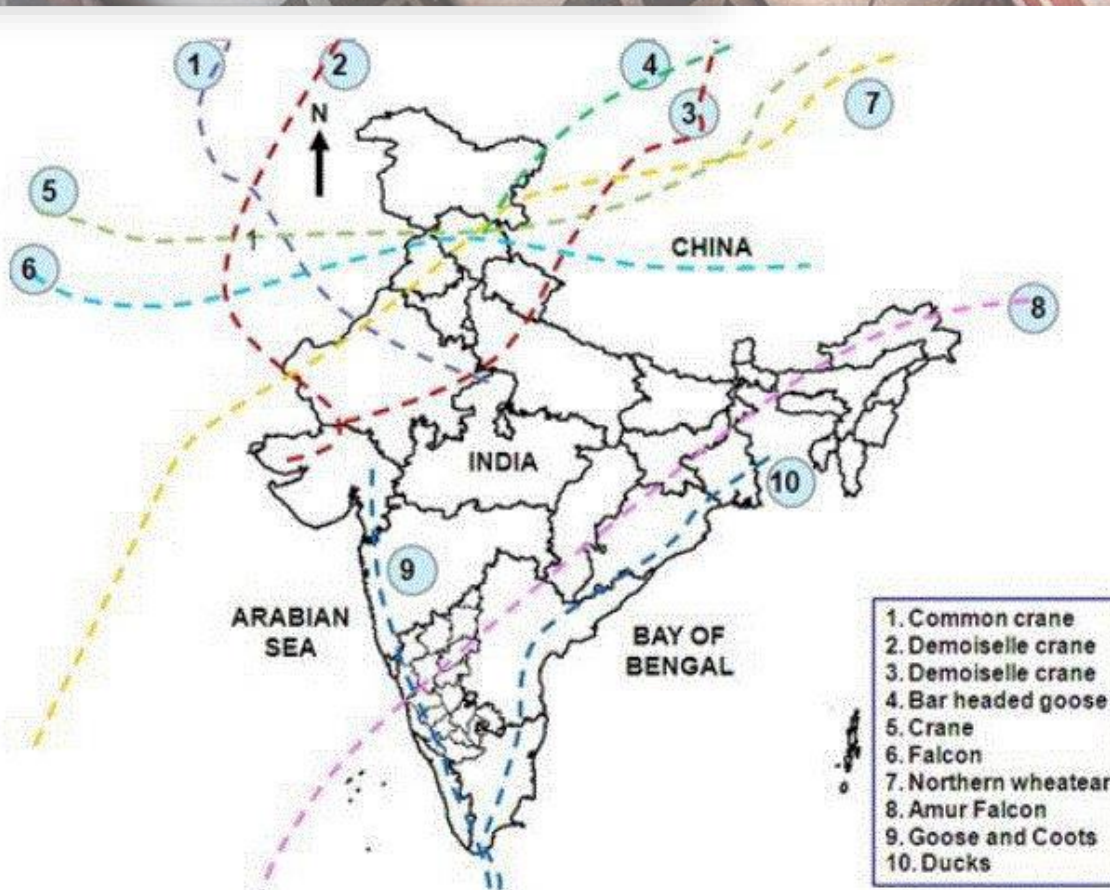



Figure 1. The migratory routes through India (not to scale)

In Case of strike Please do write




WILDLIFE (BIRD/ANIMAL) STRIKE FORM – DGCA India (Amended 01/2011)

To be completed on discovering evidence that a Wildlife (Bird/Animal) strike has, or may have, occurred.
To be completed for all bird/wild life strikes, whether or not damage has been caused.
Copies of this form should be sent as indicated at note 1 below.

F.N.AV.15023/022011-AS, 11th September, 2011

Aircraft Operator	Precipitation: None <input type="checkbox"/> Fog <input type="checkbox"/> Rain <input type="checkbox"/> Sleet/Snow <input type="checkbox"/>
Aircraft Type & Series	Sky Condition No Cloud <input type="checkbox"/> Some Cloud <input type="checkbox"/> Overcast <input type="checkbox"/>
Aircraft Reg # Flight No.	
Engine Make / Model	
Date of Occurrence (dd/mn/yy)	
Time of Occurrence (Local) Hrs (24hr) Dawn <input type="checkbox"/> Day <input type="checkbox"/> Dusk <input type="checkbox"/> Night <input type="checkbox"/>	
Aerodrome of Departure	
Aerodrome of Intended Arrival	
Aerodrome of Occurrence	
Runway in Use	
Altitude (AGL)	
Speed (IAS)	
Position (if en-route)	
ATC Informed YES <input type="checkbox"/> NO <input type="checkbox"/>	
Phase of Flight	
Taxi <input type="checkbox"/>	Descent <input type="checkbox"/>
Take-off run <input type="checkbox"/>	Approach <input type="checkbox"/>
Climb <input type="checkbox"/>	Landing roll <input type="checkbox"/>
En-Route <input type="checkbox"/>	Ground Checks <input type="checkbox"/>
Part(s) of Aircraft (Attach sheet for description if any) Struck <input type="checkbox"/> Damaged <input type="checkbox"/>	
Radiome <input type="checkbox"/>	
Windshield <input type="checkbox"/>	

Number of Birds/Animals (Enter actual number if known)	Seen <input type="checkbox"/>	Struck <input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>
2-10	<input type="checkbox"/>	<input type="checkbox"/>
11-100	<input type="checkbox"/>	<input type="checkbox"/>
100+	<input type="checkbox"/>	<input type="checkbox"/>

Pilot warned of birds/Animals	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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Bird/Animal Size	Small <input type="checkbox"/>	Medium <input type="checkbox"/>	Large <input type="checkbox"/>
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Note 1: Copies of this form should be submitted as soon as practicable to the recipient shown below-

DGCA Headquarter (DAS)
New Delhi

MANDATORY

Aircraft time out of service(hrs)	Estimated cost of repairs or replacement (₹)	Estimated other cost(₹)

How do we manage this threat?



- Briefings, Speed Control,
- Landing through birds Vs Go Around
- Idle descents, Max Rate of Climb at low levels
- Stricter regulations, effective monitoring
- Strong and easy reporting culture

I THOUGHT I WAS ALONE

Thankyou

