FDM Working Group



Agenda

- * Anti Trust Statement
- * Welcome
- * R-IAT Update
- * Event Review
 - * Birdstrike Mitigation
 - * GM Worksheet
 - * 690-5 Parameter update

HSACSafety Through Cooperation

* TCAS II / RA Discussion

Participants

- * Tim Guidry, Chevron
- * Mitch Olshansky, FAA
- * Bob Herak, FAA
- * Tasha Louviere, RLC
- * Jacob Schexnayder, PHI
- * Mike Hanson, BSEE
- * Joao Arantes, BMT

- * Jason Melancon, RLC
- * Jim Evans, HeliOffshore
- * Mike Turner, PHI
- * David Geldmacher, Bristow
- * Amanda Roberts, Bristow

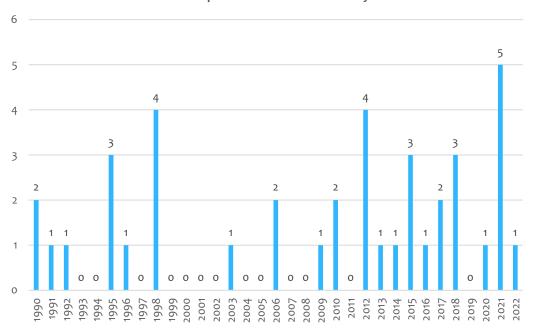
R-IAT and InfoShare

- * R-IAT Next meeting scheduled for Nov 10th
- * Contacts:
 - * John Walberg, FAA john.Walberg@faa.gov
 - * Ed Stockhausen, Metro Aviation estockhausen@metroaviation.com

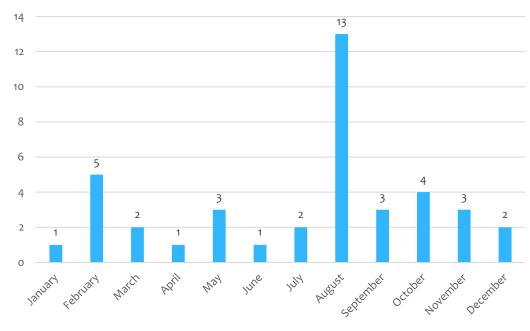
- * InfoShare Next meeting scheduled for Nov 1 4 Bellevue, WA
- * Contact:
 - * Sean Mulholland sean. Mulholland@gmr.net

KHUM Birdstrikes

KHUM Reported Birdstrikes by Year

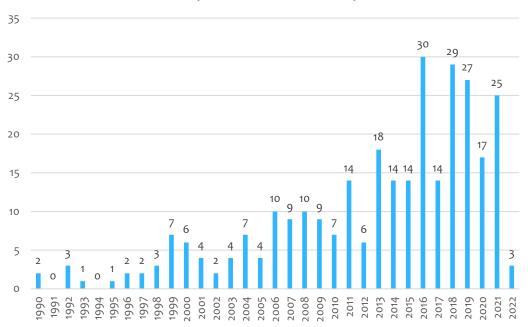


KHUM Reported Birdstrikes by Month

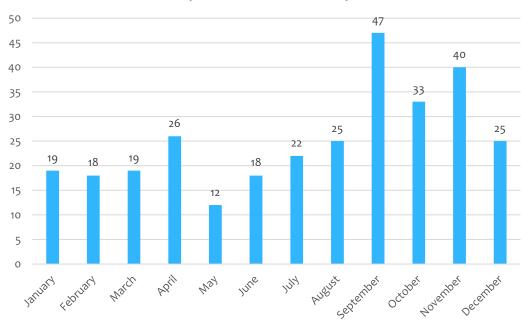


KLFT Birdstrikes



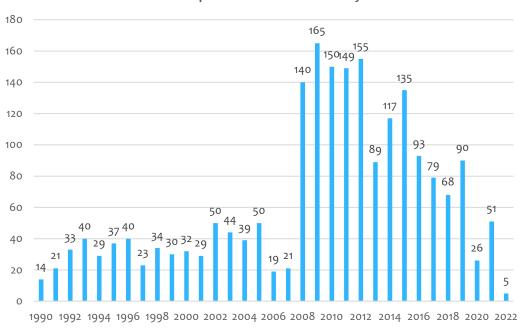


KLFT Reported Birdstrikes by Month

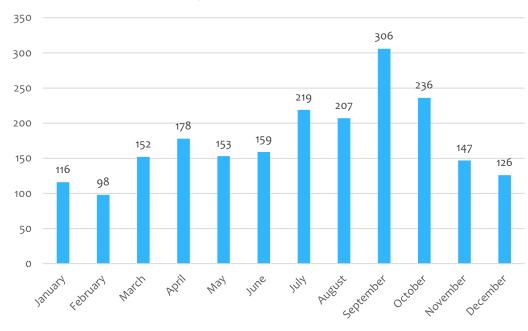


KMSY Birdstrikes



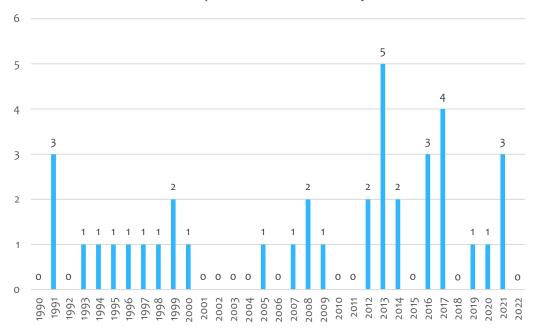


KMSY Reported Birdstrikes by Month

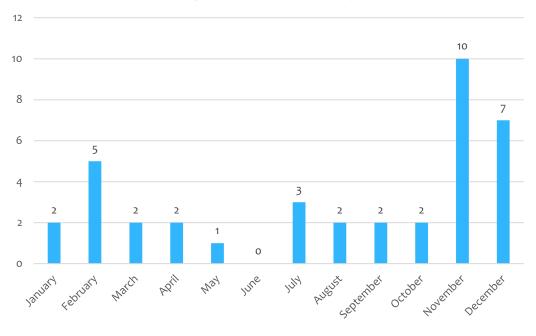


KLCH Birdstrikes



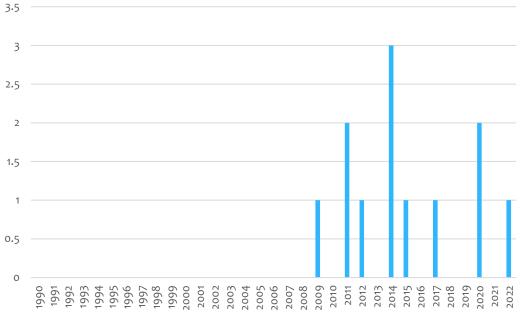


KLCH Reported Birdstrikes by Month

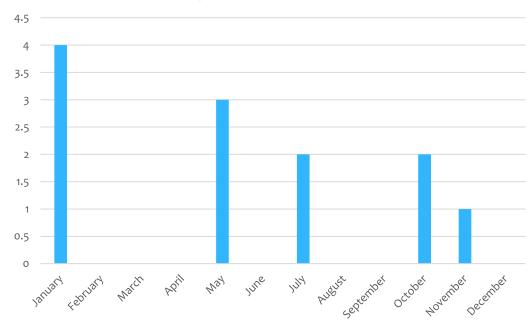


KGAO Birdstrikes





KGAO Reported Birdstrikes by Month



Birdstrike Monitoring

- * In addition to HSAC RP 2010-3 Bird Strike Avoidance
- * Using roll rates as indicator of potential collision/close call with birds.
- * Roll rate limits set per fleet and mission.

GM2 SPA.HOFO.145 Events

(Proposed Helicopter Specific)

Event Name	
High airspeed with power	Torque split
High airspeed without power	Rotor speed outside limits – power
High airspeed at low altitude *	Rotor speed high— power off
Low airspeed at altitude*	Fuel content low
Low airspeed on departure*	HTAWS / EGPWS alert triggered
Altitude high	TCAS TA or RA
Rate of climb high*	Airspeed Low
Rate of descent high*	Groundspeed change high*
Rate of descent high at low speed *	Groundspeed high*
Minimum altitude in autorotation	Pitch attitude excessive
Excessive pitch attitude*	Pitch rate high*
Excessive pitch rate *	Roll attitude high*
Excessive roll attitude *	Roll rate*
Excessive roll rate *	Altitude excessive*
Excessive yaw rate *	Rate of descent on approach high*
Excessive cyclic input	Heading difference high*
Excessive pedal input	Glideslope deviation
Excessive vertical acceleration*	Localiser deviation
Outside air temperature high	Go-around
One Engine Inoperative	Stability Augmentation System (SAS) / autopilot (AP) disengaged
Torque limits exceeded	SAS/AP disengaged on take-off
	Higher modes engaged out of limits
	ingite: modes engaged out of minus
	High airspeed with power High airspeed without power High airspeed at low altitude * Low airspeed at altitude* Low airspeed on departure* Altitude high Rate of climb high* Rate of descent high at low speed * Minimum altitude in autorotation Excessive pitch attitude* Excessive pitch rate * Excessive roll attitude * Excessive yaw rate * Excessive yedal input Excessive vertical acceleration* Outside air temperature high One Engine Inoperative

Legend

Ground (onshore and offshore)

Flight – take-off and landing

Flight - speed

Flight - height

Flight – attitude and controls

Flight - general

Flight - approach

Flight - automation

Traffic Collision Avoidance System Traffic or Resolution Advisory (TA/RA)

- * How many aircraft are fitted with TCAS II?
- * How are you currently tracking/trending TA/RA events?
- * Follow up for January meeting.

Questions

* Thank you and Safe travels!

