

Airborne Conflict



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CAA Flight Operations

It does happen ...



...and the consequences are clear



**Boeing 727/Cessna 172
San Diego September 1978**

Task Force Tasks

- **Review Airborne Conflict causal factors**
- **Establish 'Safety Performance Indicator' to monitor risk**
- **Recommend strategies to reduce risk**

Task Force Team

- CAA Flight Operations
- Strategic Analysis
- Directorate of Airspace
- Air Traffic Standards
- Guild of Air Pilots & Air Navigators (GAPAN)
- UK AIRPROX Board

Plus:

- *NATS*
- *Directorate of Aviation Regulation & Safety (DARS)*
- *DfT*

Key Risk Area: Airborne Conflict



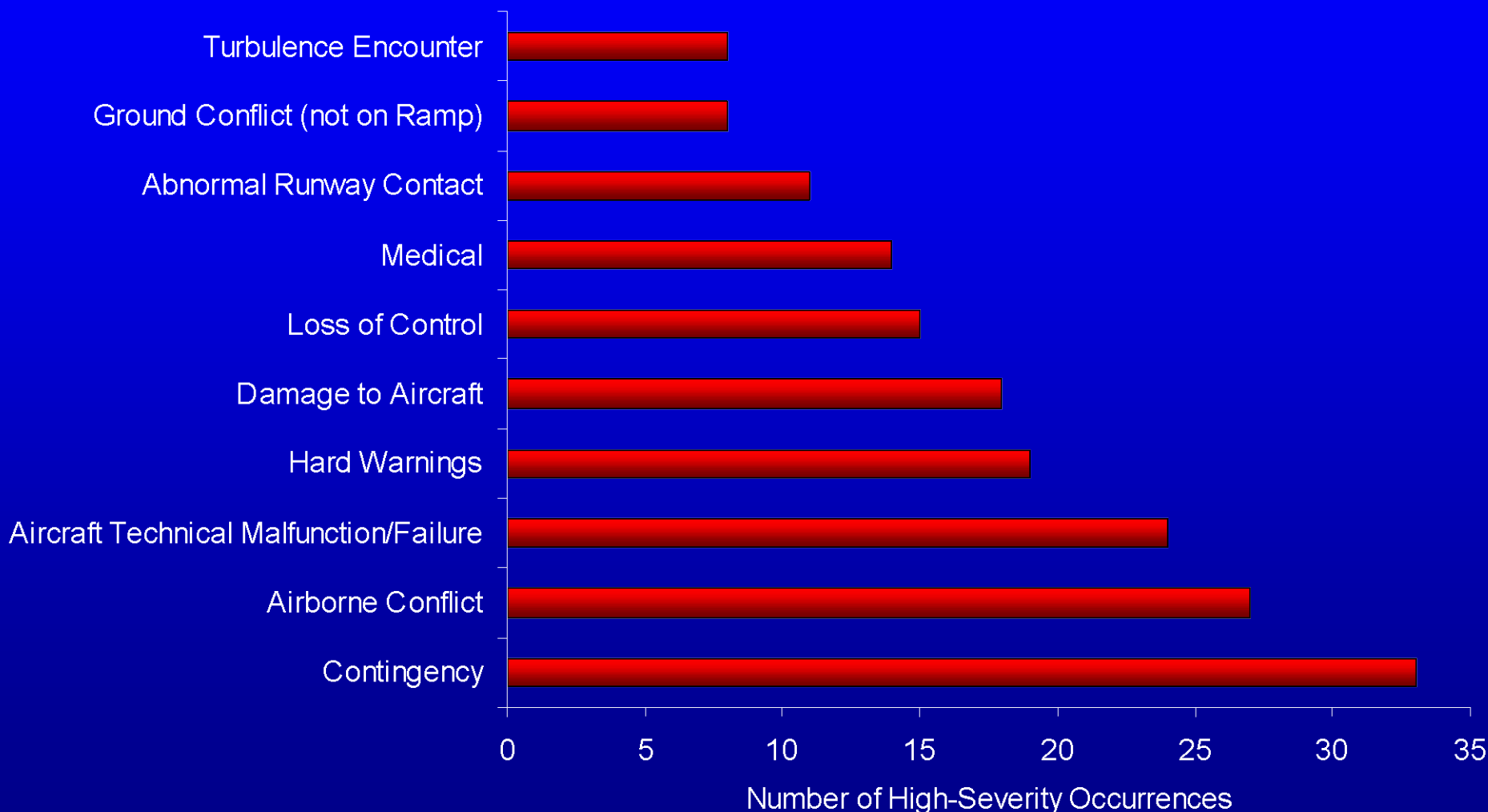
Risk Information

- **Second highest number of UK High Severity Events (2005-08)**
- **27 Occurrences**
 - **8 UK AIRPROX and 19 Non-UK AIRPROX**
 - **5 involving a Loss of Separation**
- **17 Mid-Air Collision Fatal Accidents last 25 years**
 - **Over 1,000 fatalities**
 - **Uberlingen July 2002 (B757/Tu 154)**
 - **Peixoto September 2006 (B737/Embraer Legacy)**

UK High-Severity Events (2005 to 2008)



Top-Ten Event Groups (not mutually exclusive)



Airborne Conflict Occurrences



	UK High-Severity Occurrences (2005 to 2008)	
Airborne Conflict	Non-UK Airprox	19
	UK Airprox	8
	TOTAL	27
	<i>Loss of Separation</i>	5
	<i>Airspace Infringement</i>	2
	<i>Level Bust</i>	1

Key Risk Area: Airborne Conflict



Actions

- **Work in progress, but current focus ...**
 - **Improving understanding of events outside UK airspace**
 - **Improving crew awareness of events outside UK airspace**
 - **Reviewing equipment fitment and serviceability (ACAS)**
 - **Reviewing operational procedures**
 - **Reviewing training (ACAS)**

Key Risk Area: Airborne Conflict



Performance Indicator

Two options being considered:

- **Loss of Separation**
 - Tracking events where a loss of separation occurred
- **‘Barrier’ Model**
 - Reviewing events to determine which barriers failed and which remained

How can you help?

- **Experience outside UK**
 - Known areas of concern?
 - How mitigate concerns?
 - How improve data collection?

- **Current Equipment/Procedures**
 - ACAS Training effective (06/2009)?
 - Lateral Offsets
 - RT Communication

- **What would help?**
 - Future Technology?
 - Training Facilities/Techniques?

Airborne Conflict Task Force

Questions?

