

1st Asia Pacific Workshop on Flying at High Altitude under Adverse Weather Conditions



Flight at High Altitude in Adverse Conditions Context and Patterns

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Organisers



Supporting Partners



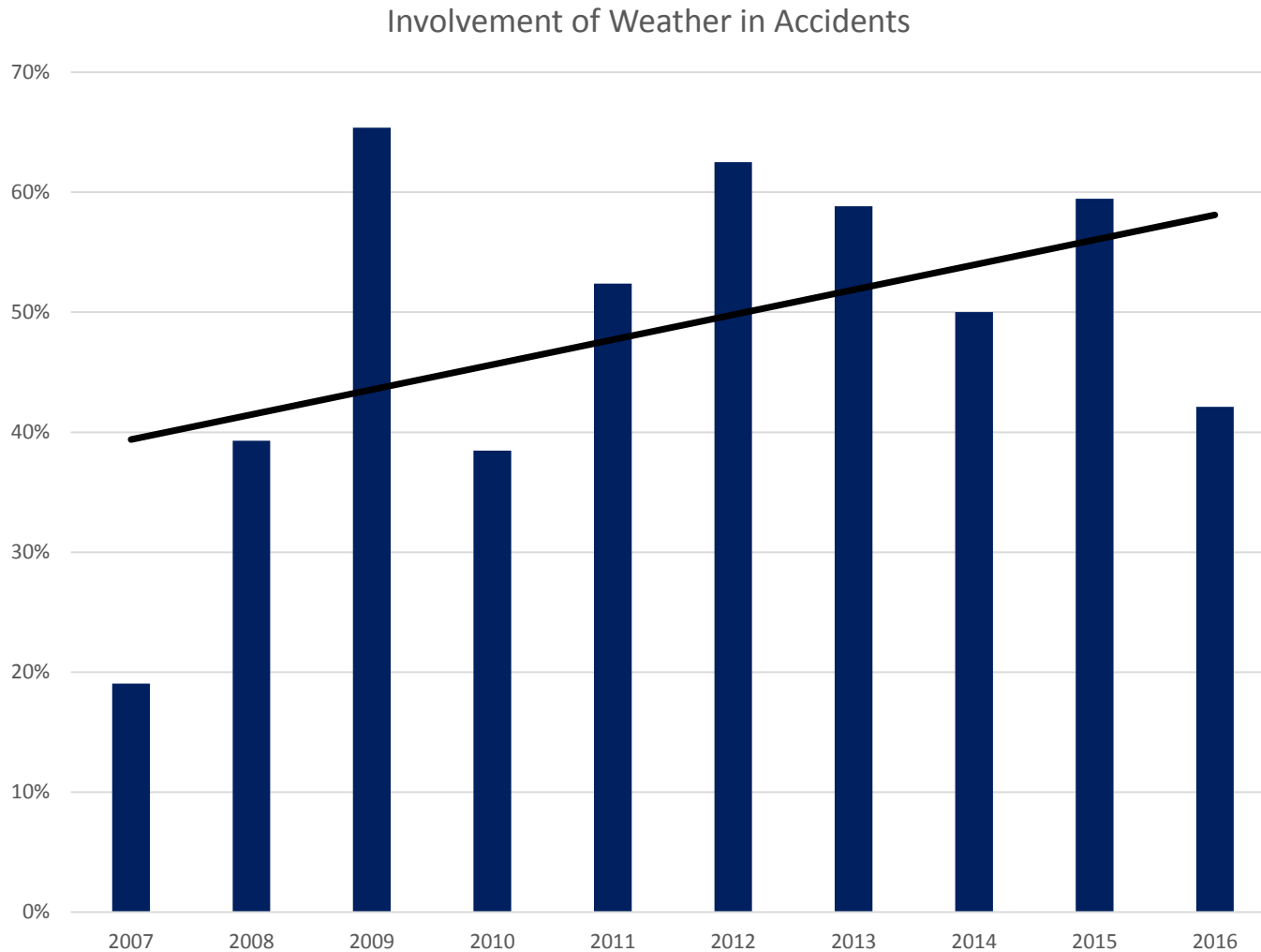


Worldwide Accident Data

- Data for fixed wing commercial air transport between 2007 and 2016 (Past 10 years)
- Environmental and Weather during Cruise
 - Weather was a factor **14%** of fatal accidents (14)
 - Weather was a factor in **48%** of all accidents (175)
- Human cost
 - 662 fatalities in total
 - 281 serious injuries
 - 957 minor injuries

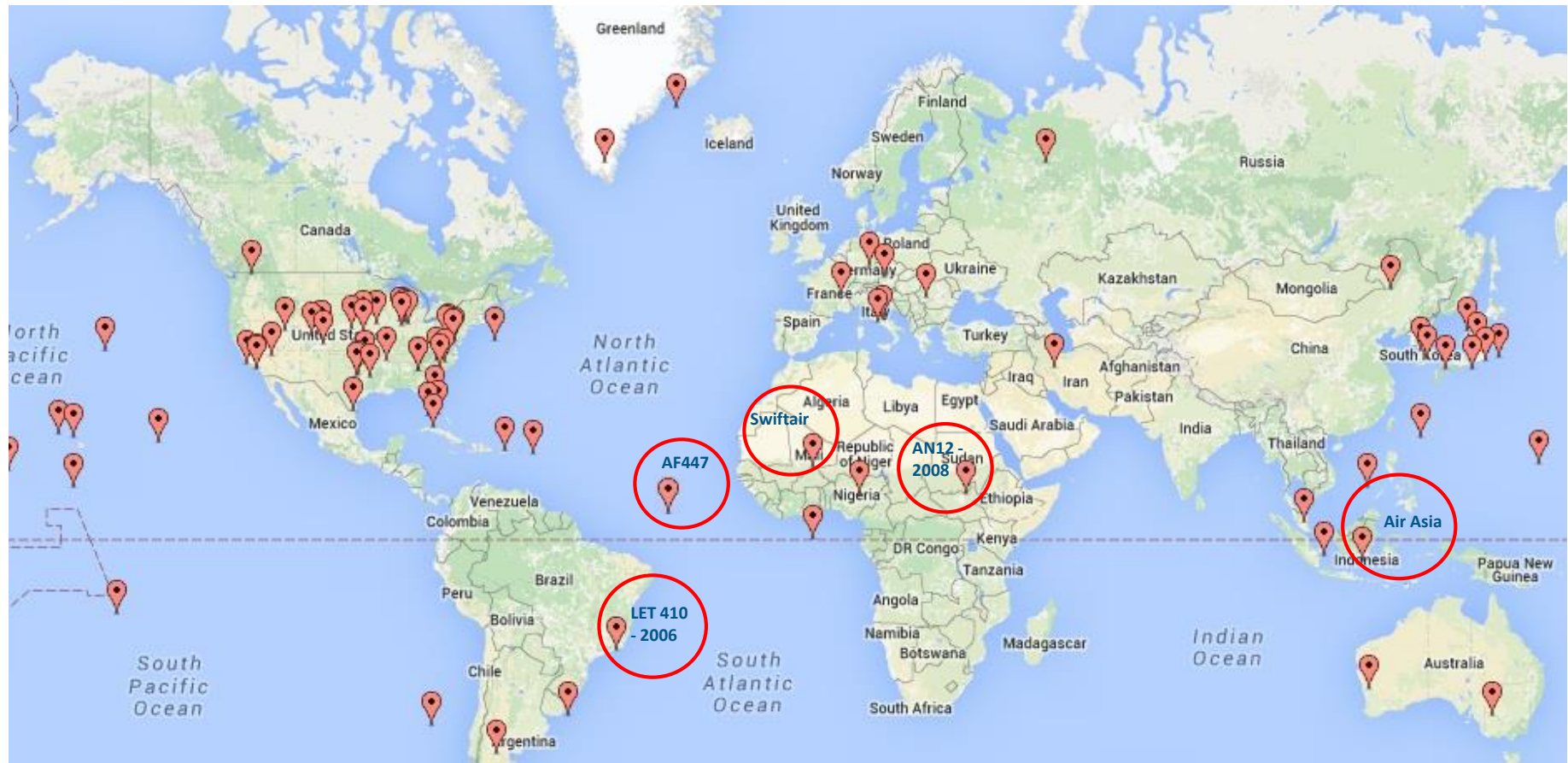


Increasing Influence of Weather





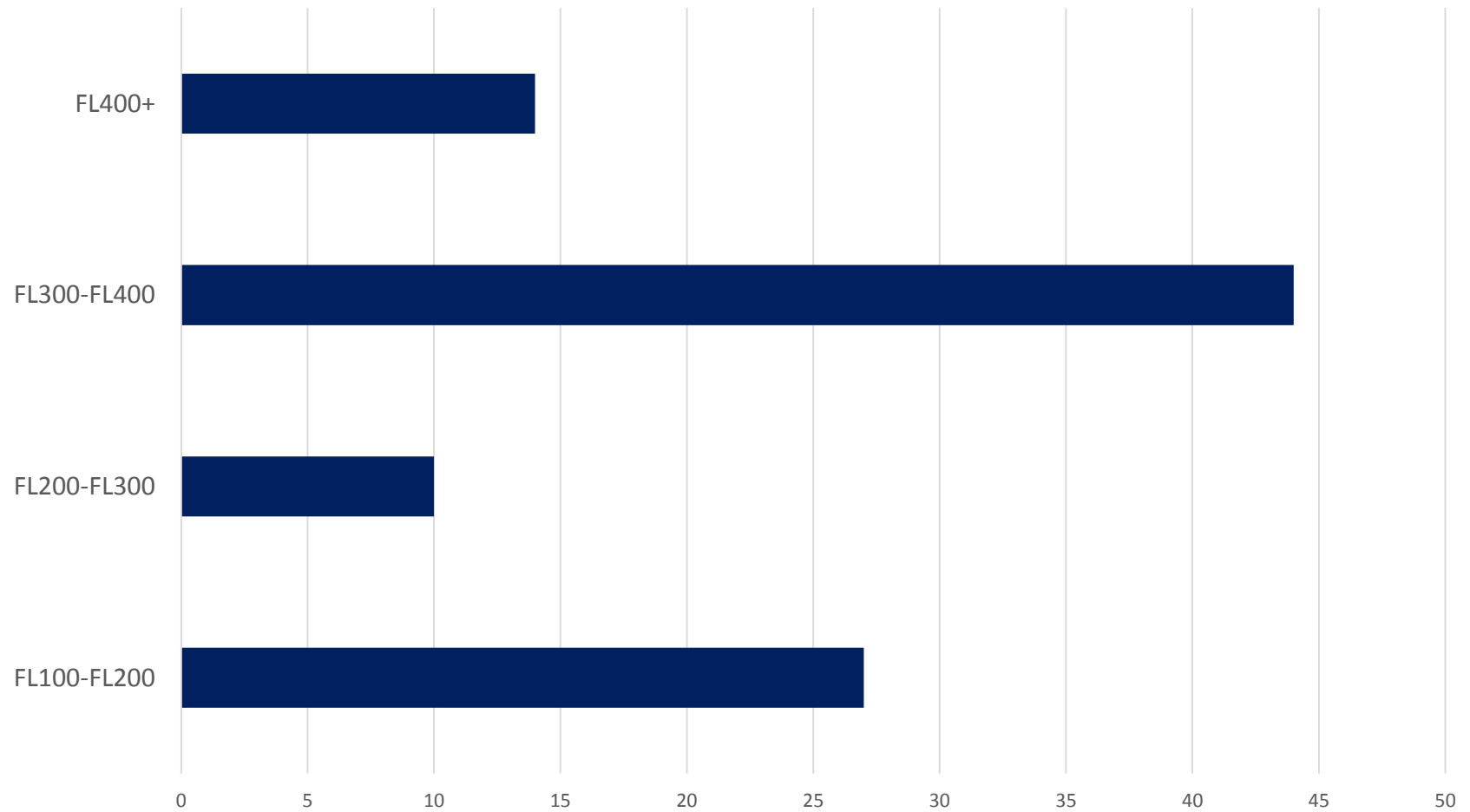
Location Of These Occurrences





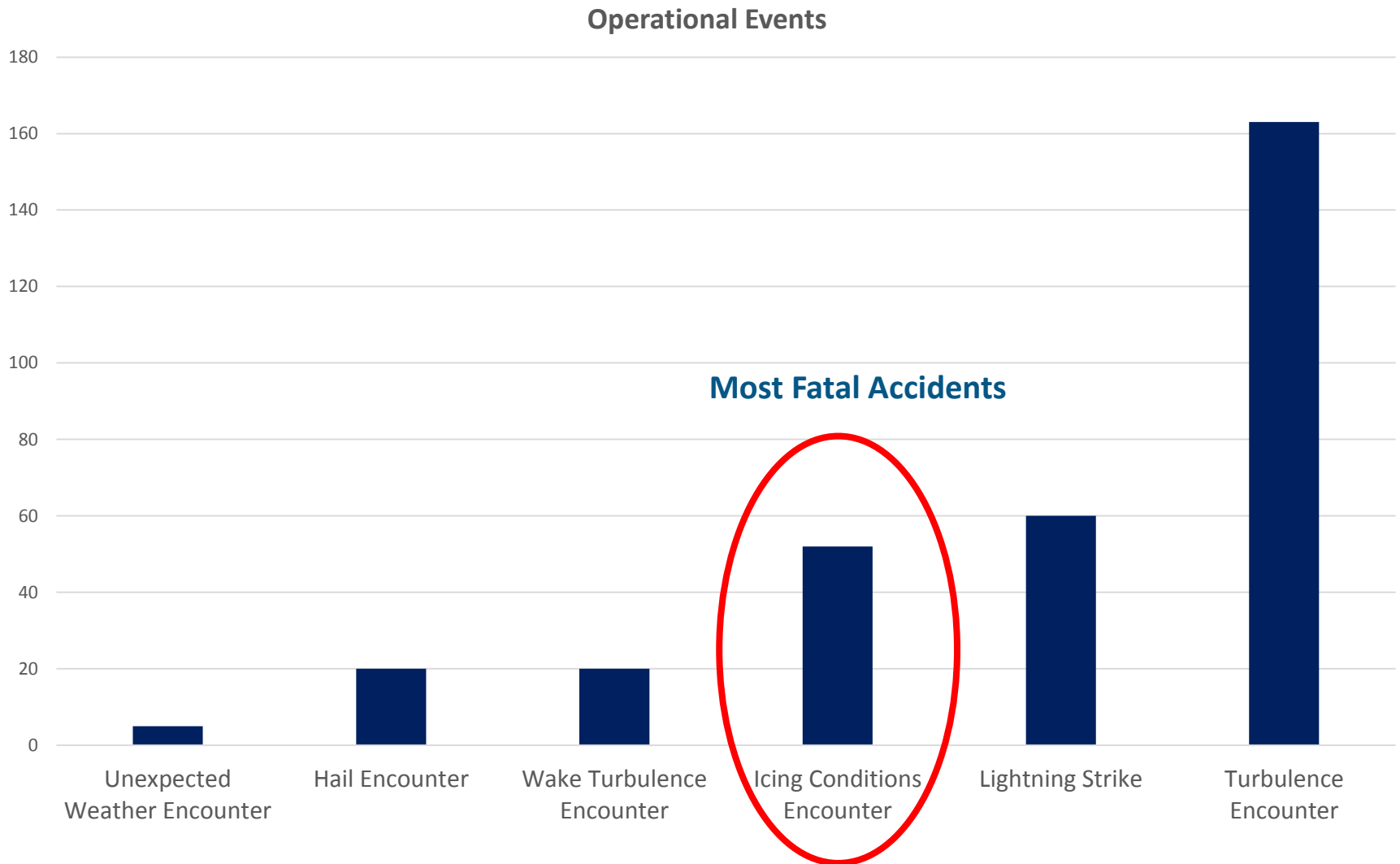
Height/ FL

Altitude





Types of Flight Operations Events





Accidents in Cruise Flight

- Loss of Control is the most frequent type of accident
- Last 10 years
 - 32 Accidents and Serious Incidents
 - 662 fatalities in 10 years





Further Analysis and Conclusions

- Loss of Control is most common type of accident
- 36% of all Loss of Control accidents occur in the cruise flight
- Weather and environmental conditions is the most common factor in these accidents
- Icing conditions
 - Flight crew monitoring of equipment/ instruments
 - Deviation and incorrect application of procedures
- Turbulence and Windshear
 - Most frequent cause of injuries



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