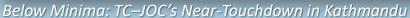


## LESSONS LEARNED

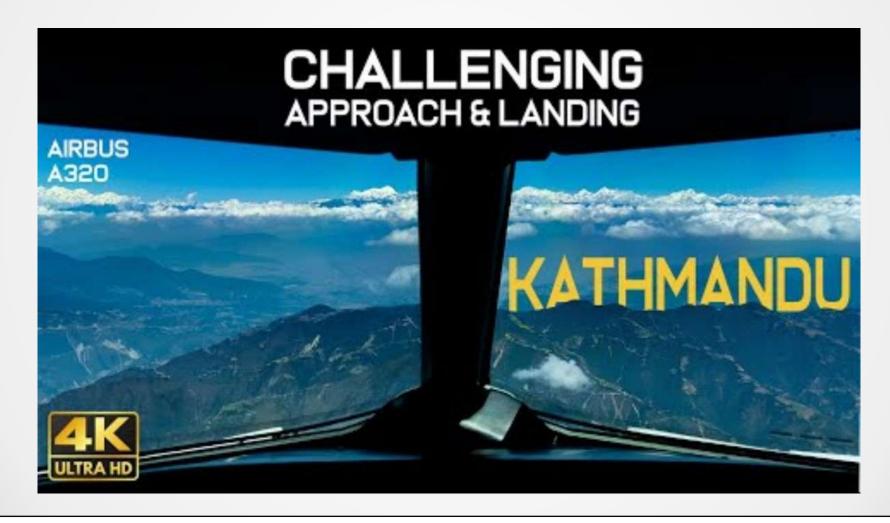
RUNWAY EXCURSION ACCIDENT OF TURKISH AIRLINES TC-JOC, A330-303, AT TIA, KATHMANDU, NEPAL MARCH 4<sup>TH</sup>, 2015







### TC-JOC Kathmandu A330: Lessons Learned



#### **MARCH 4, 2015**

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  | 31  |     |     |     |     |

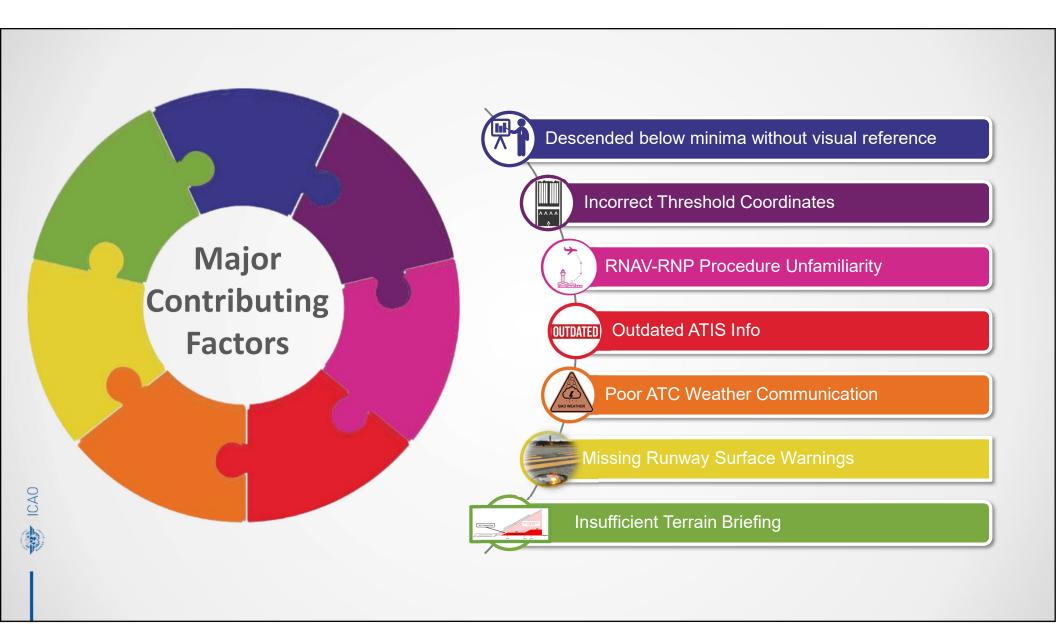
A330 TK-726
attempted
landing in
Kathmandu in fog
and Heavy Rain



The aircraft landed hard, off-center, and slid off the runway



# **TIMELINE & CONTEXT**



## **Systemic Gaps Identified**

### Threshold coordinates

#### in FMGS not validated

- Points to AIM/QMS failure or
- lack of data verification protocols

### ATIS and facilities status

### Outdated or missing

 Weakness in real-time dynamic data provision by AIM

### Flight crew

# unfamiliar with RNAV-RNP local procedures

Highlights gaps in localized SOP awareness and training

### **ATC**

# ATC failed to communicate rapid weather deterioration

 Lack of procedural reinforcement and real-time updates

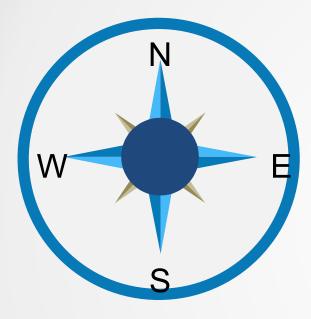
### AIM, ATC, and Ops

No cross-check mechanism between AIM, ATC, and Ops

 Structural silos hinder collaborative safety assurance



### **Lessons Learned**



### AIM's Role When Seconds Count

### Validate Navigation Data

Threshold coordinates must be accurate and routinely verified.

### Respect Minima

Never descend below limits without visual cues—go around.

### Know Local Procedures

RNAV-RNP approaches require regular training and refreshers.

### Timely ATC & AIM Updates

Visibility, outages, and facility changes must be shared fast.

### Digital AIM Saves Lives

Accurate, real-time AIM data directly supports safe operations.



## Moving Forward → AIM Call to Action



Build data validation into AIM QMS workflows



Expand digital AIM scope: thresholds, ATIS, terrain



Train AIM, ATC & pilots in integrated drills



Standardize
AIM procedures
for critical
updates



Foster crossfunctional AIM-ATC collaboration



What first step does your CAA or AIM office need to take to avoid an incident like TC-JOC?

Is it better data validation, more simulation or Improved communication procedures?





## Thank You!