

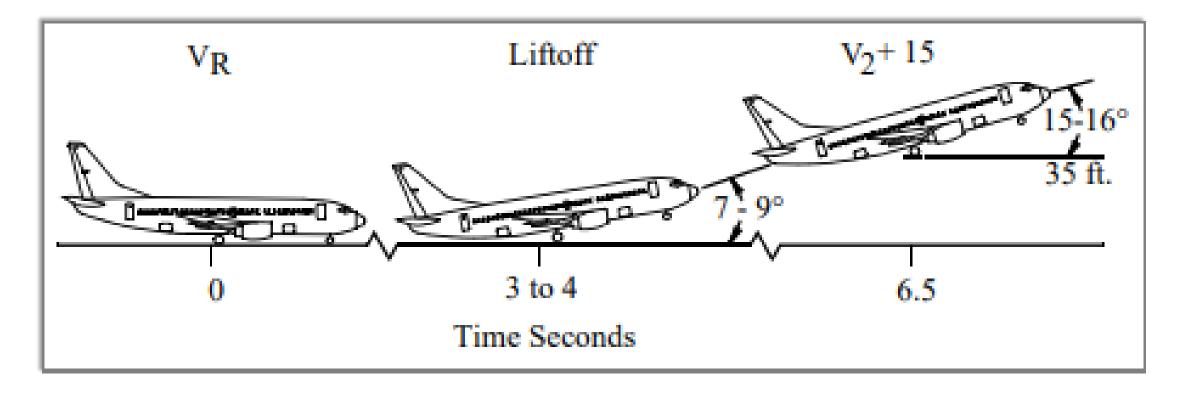
SIRM 31
Brussels, March 14-15
2024



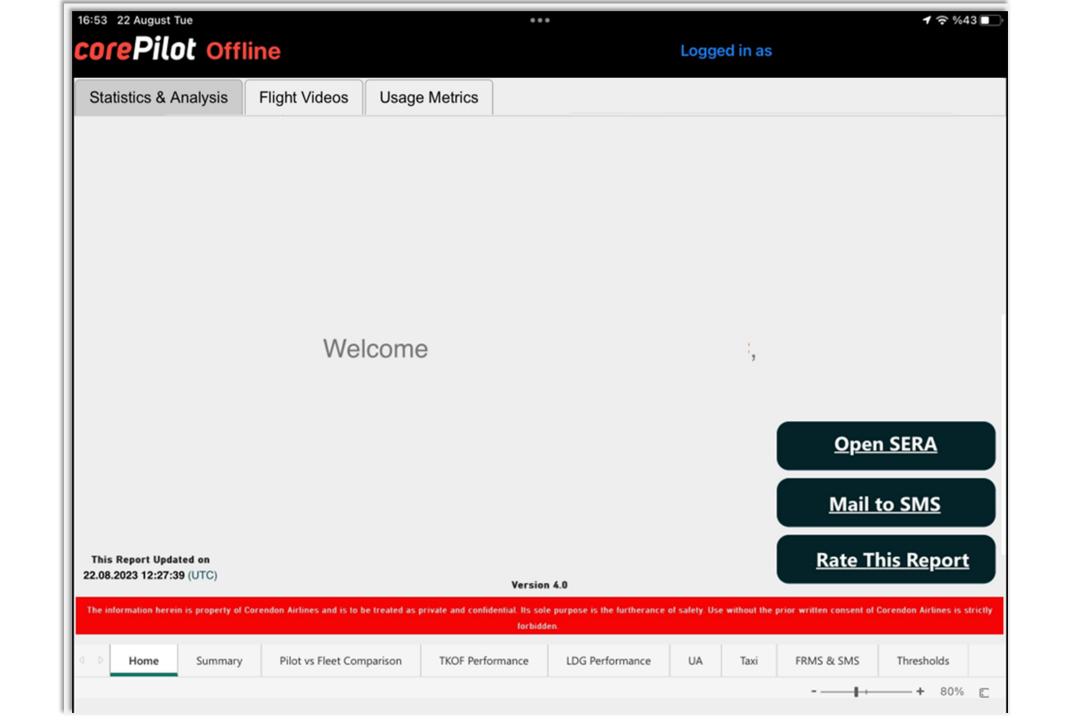
SIRM 31: Use of Flight Data (Tailstrike)



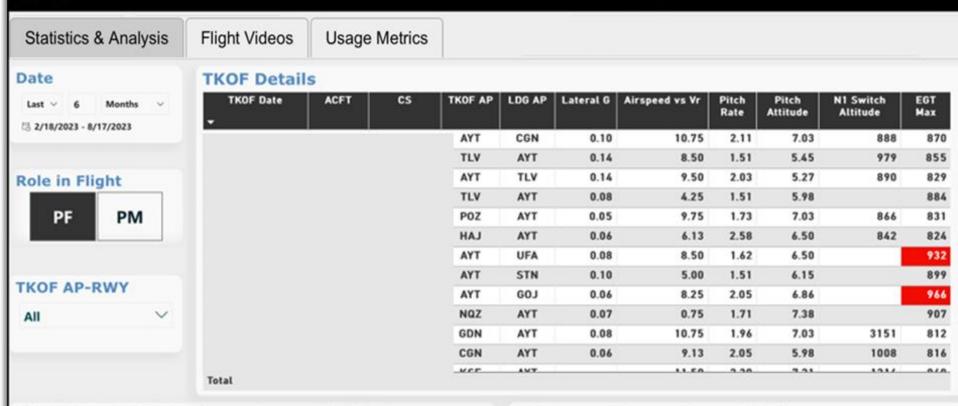
Background

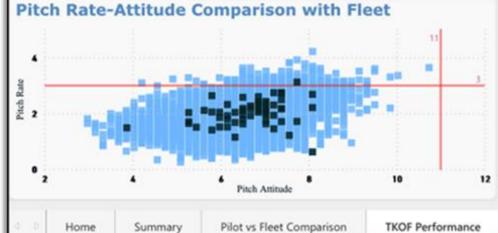


- ➤ Rotation rate: 2-3 degrees per second
- ➤ Pitch attitude: 7-9 degrees
- Duration: 3-4 seconds.





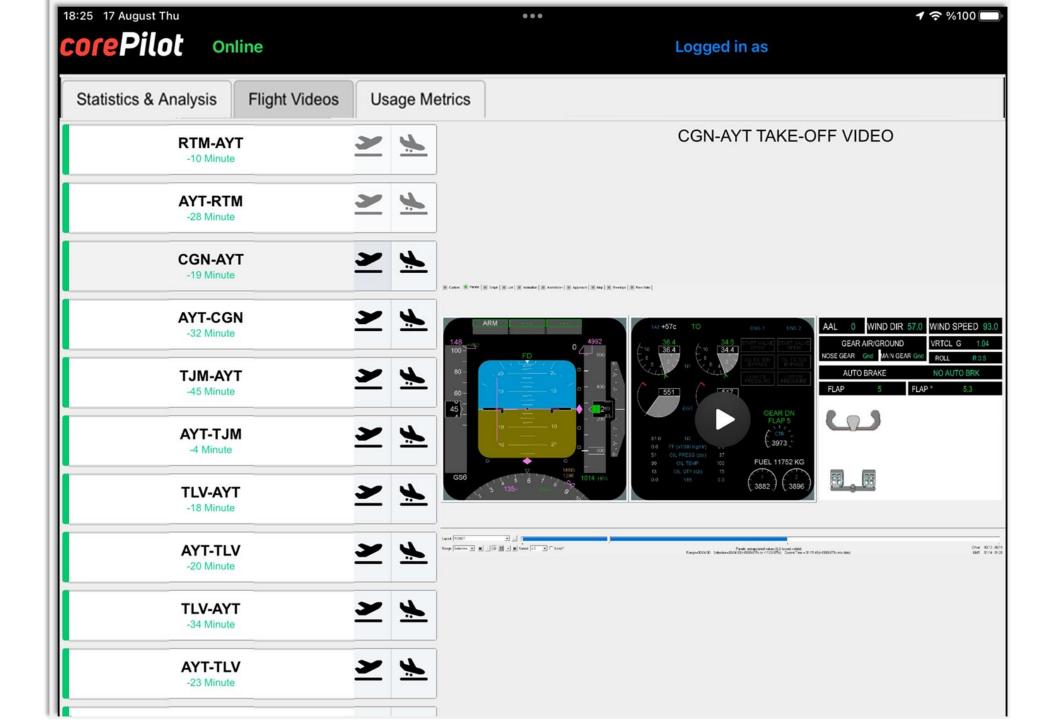




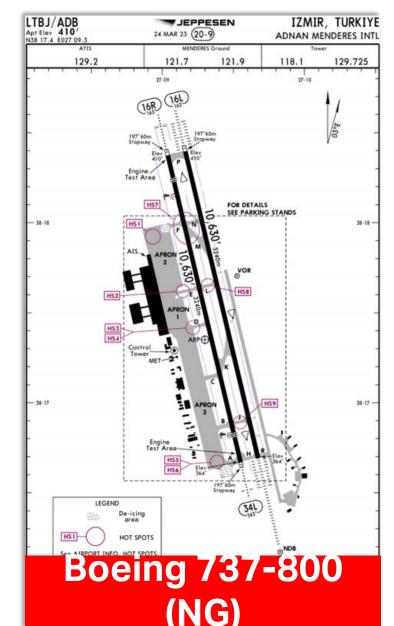
Pilot Event Comparison with Fleet

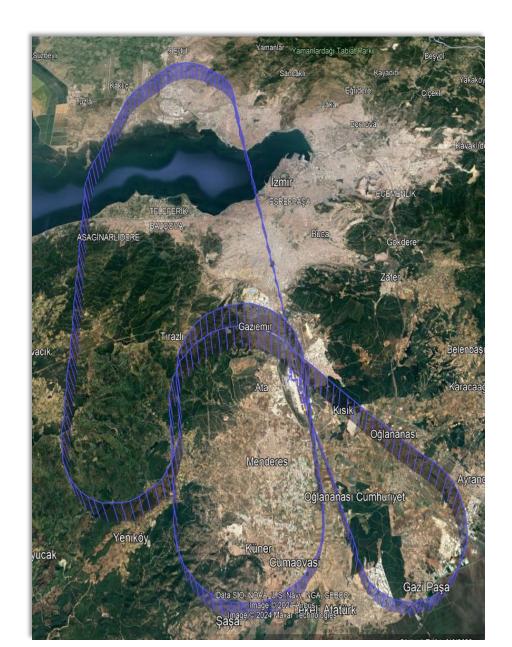
Event Name	Event Count	Pilot Score	Fleet Score
GPWS Warning Sink Rate	1	162	20
Pitch rate high on take-off	1	61	67

LDG Performance UA Taxi FRMS & SMS Thresholds



Tailstrike, ADB Airport



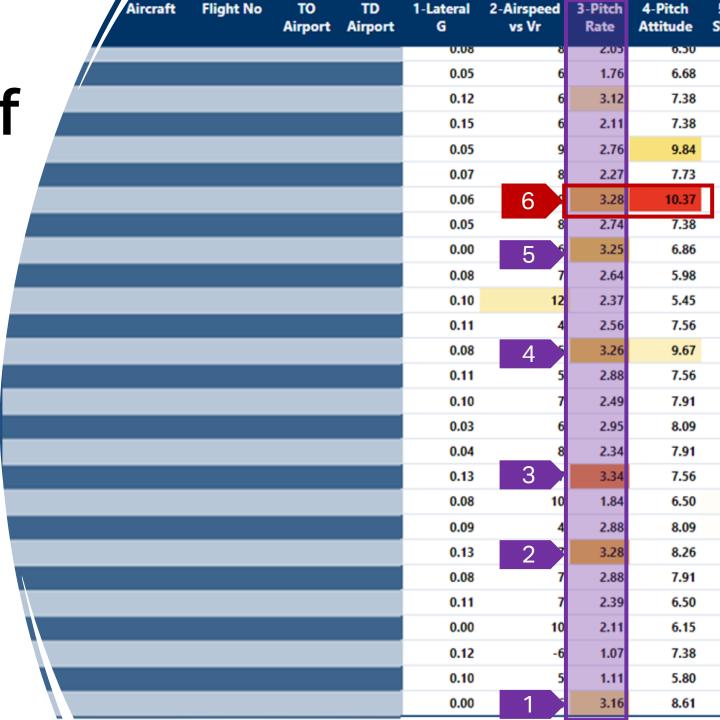


Damage



- High rotation rate,
- ➤ Unexpected sudden changes in wind speed and direction.

Pilots' Takeoff History



Findings

Pilot

ignored the data.

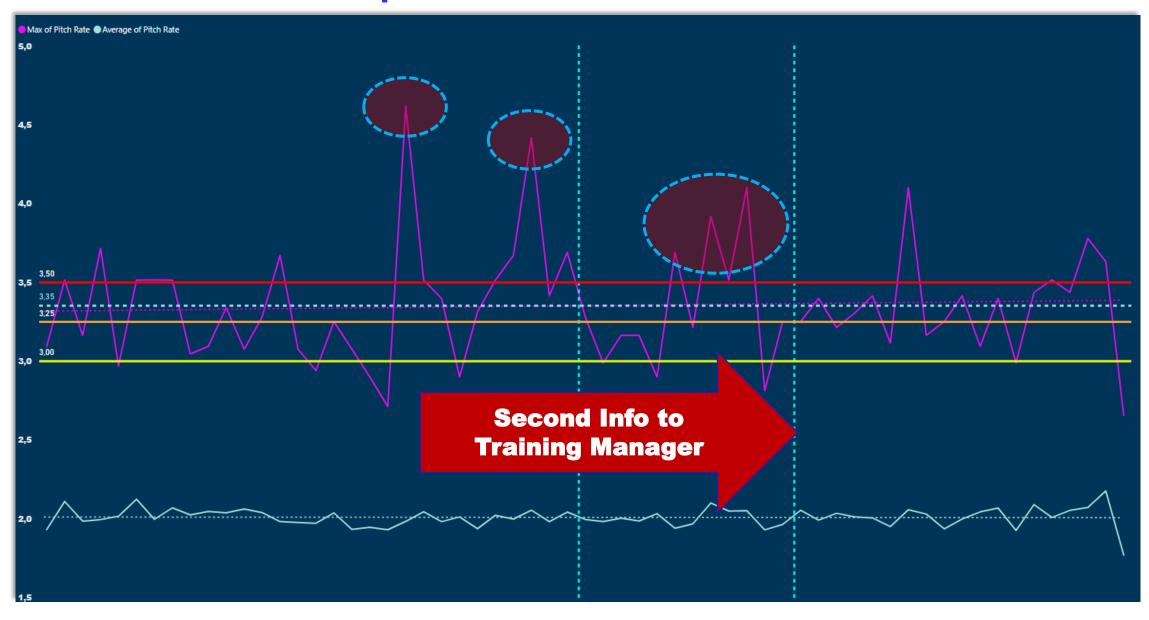
SMS

failed to notice the negativity.

Trend Follow-up of Pitch Rate Values



Trend Follow-up of Pitch Rate Values



Outcome

Trainee Group

No tailstrike during training

Fleet

No tailstrike since 2021

Lesson Learned

