

National Transportation Safety Board
Office of Research and Engineering
Washington, D.C. 20594

Airplane Performance Study

Specialist Report
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A. ACCIDENT

Location:	Alexandria, LA
Date:	April 20, 2018
Time:	1420 CDT (1920 GMT)
Airplane:	MD83, Registration N807WA
NTSB Number:	DCA18FA144

B. GROUP

No vehicle performance group was formed.

C. SUMMARY

On April 20, 2018, at about 1420 CDT, the right main landing gear of Caribbean Sun Airlines flight RPN708, dba World Atlantic Airlines, a MD83, N807WA, collapsed during the landing roll at Alexandria airport (AEX), Alexandria, Louisiana (LA). Ninety-four passengers and seven crew evacuated. No injuries were reported. The flight was contracted by US Immigration and Customs Enforcement and operated under Part 121 regulations. The aircraft received substantial damage.

Figures 1 through 3 show altitude, speed, airplane attitude, and acceleration for the event landing as well as the previous two landings.

D. SUMMARY AND CONCLUSIONS

Comparisons between the event landing and previous landings show similar airspeeds and airplane attitudes at touchdown. The airplane consistently touched down at about 130 kt indicated airspeed while descending at a vertical speed of about 750 ft/min.

Comparing the recorded accelerations reveals that the event landing did experience a 1.7g spike in vertical load factor at nosewheel touchdown that was not present on previous landings.

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E. Figures

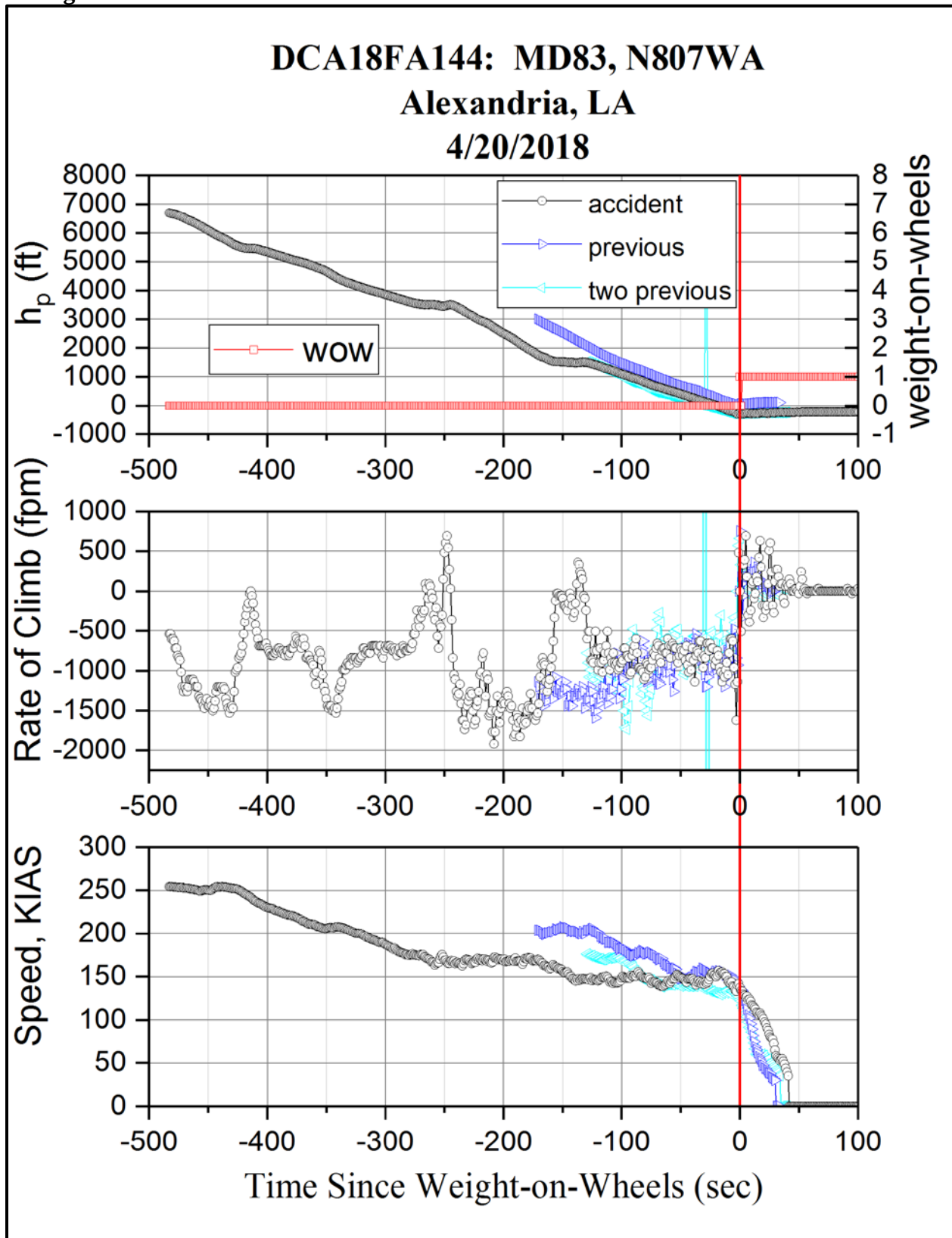


Figure 1: FDR Altitude and Speed from Accident and Previous Landings

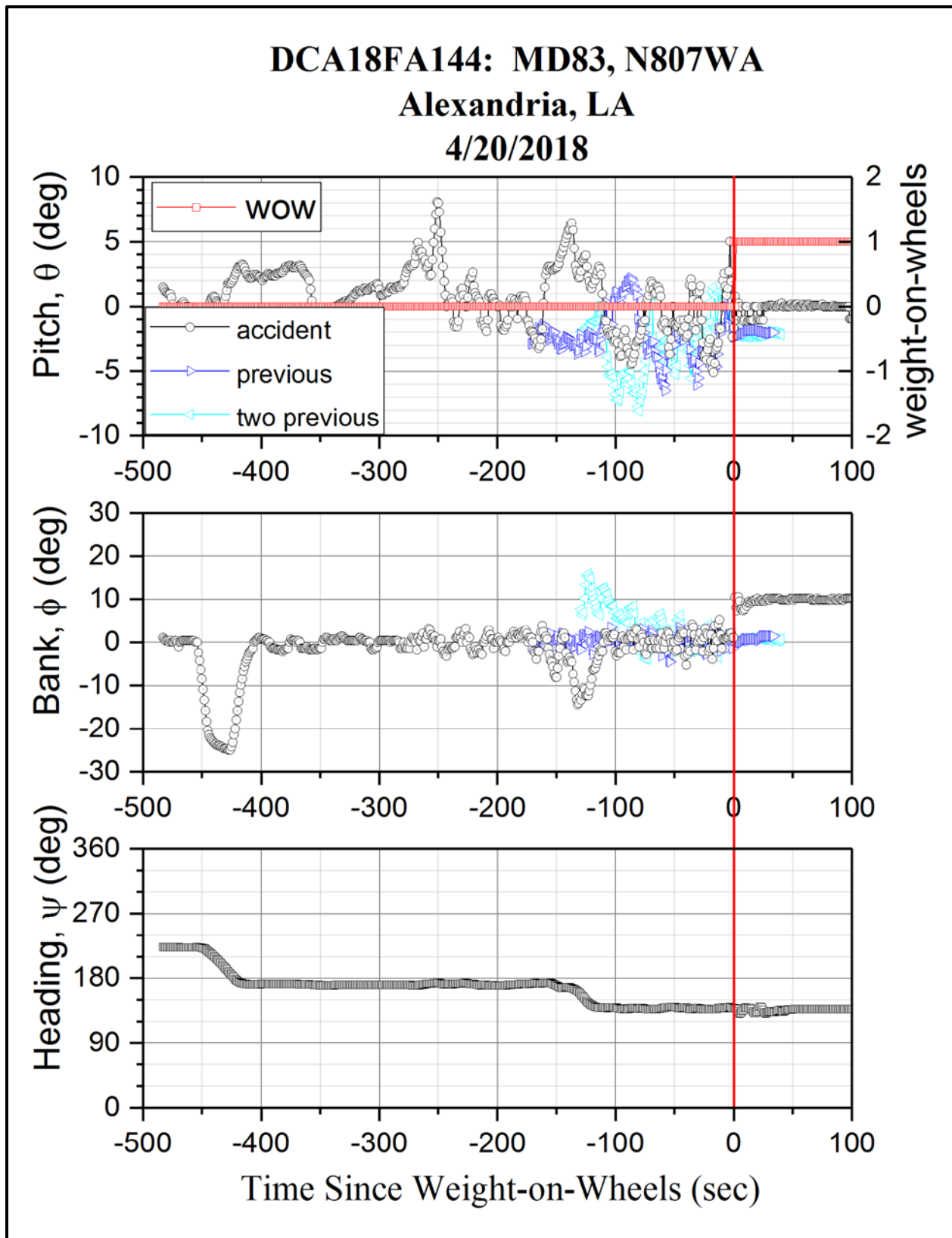


Figure 2: FDR Airplane Attitude from Accident and Previous Landings

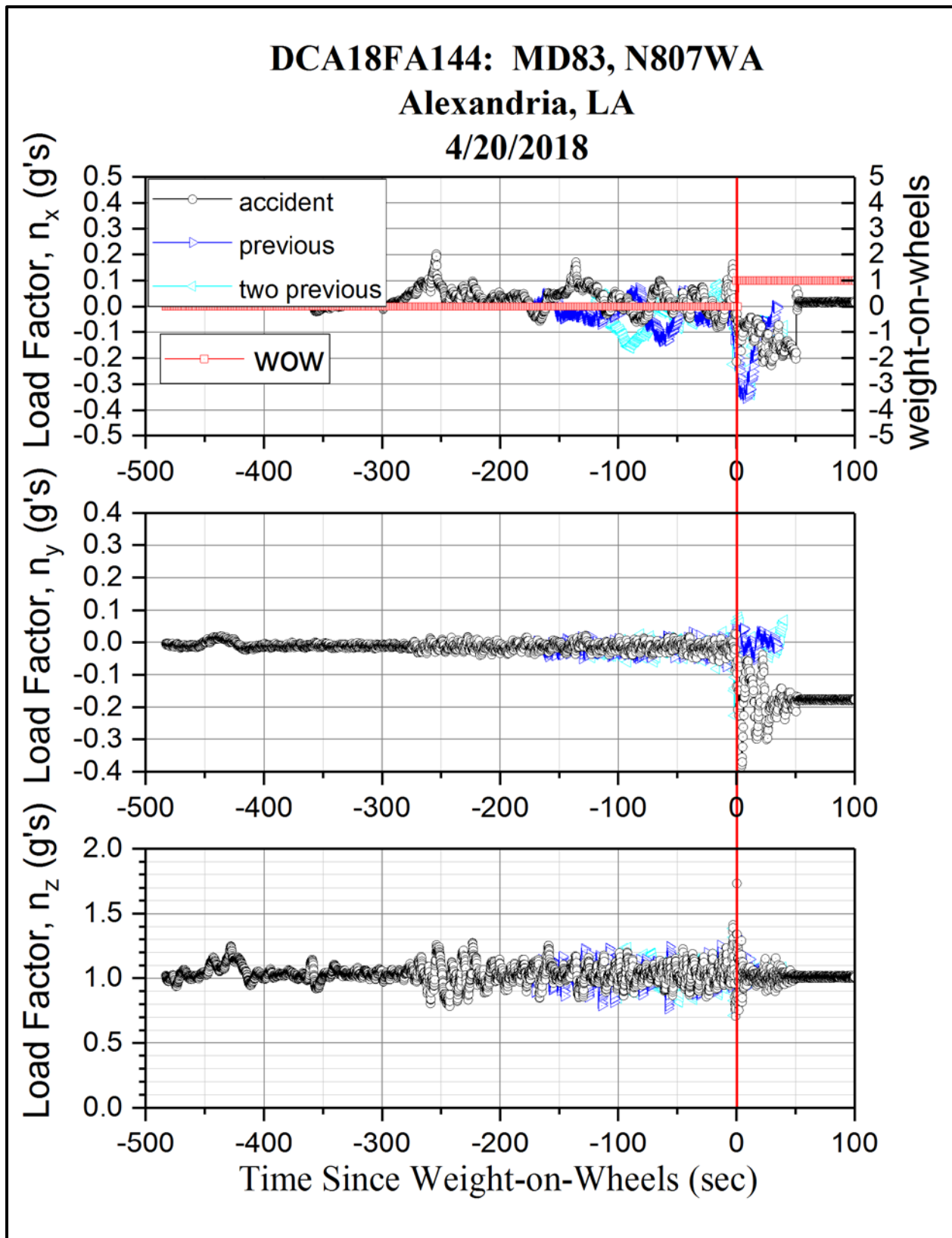


Figure 3: FDR Accelerations from Accident and Previous Landings