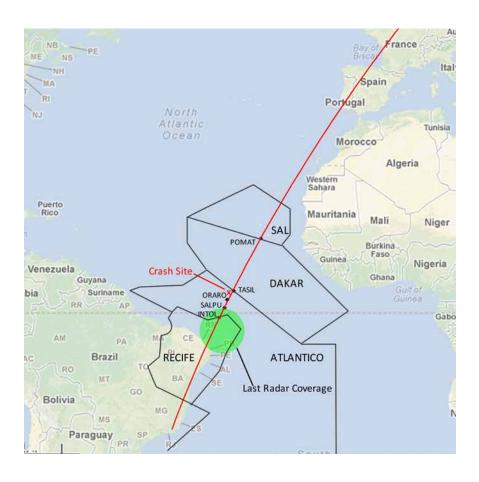
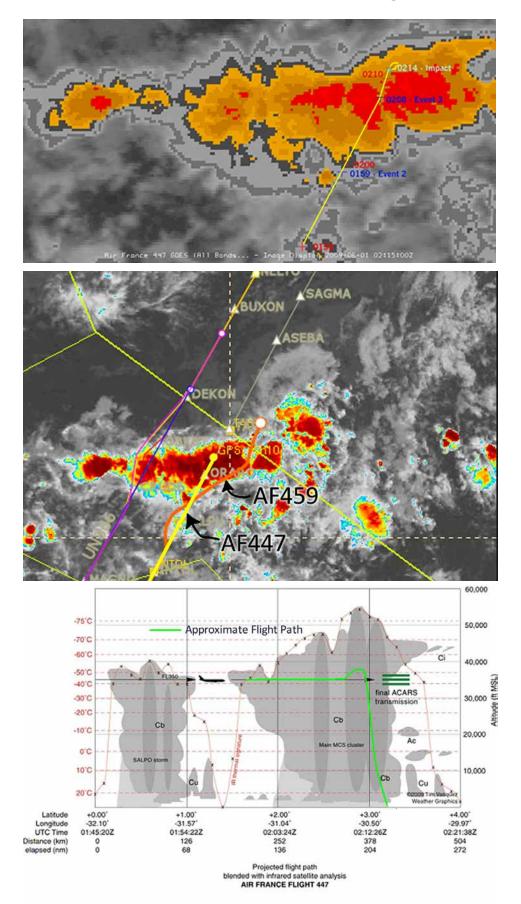
Understanding Air France 447: Images Collection Chapter 1: Chronology



Chapter 2: The Flight Crew

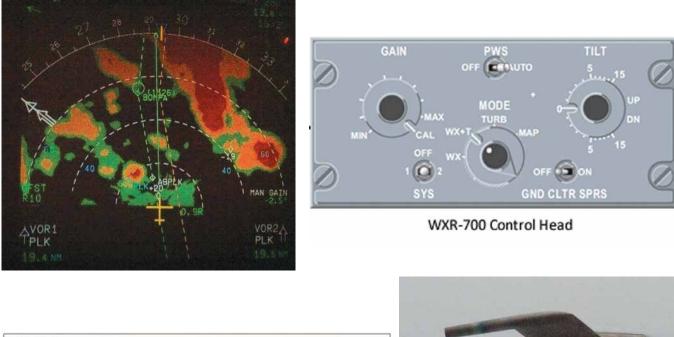


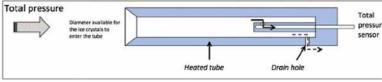
Chapter 4: Intertropical Convergence





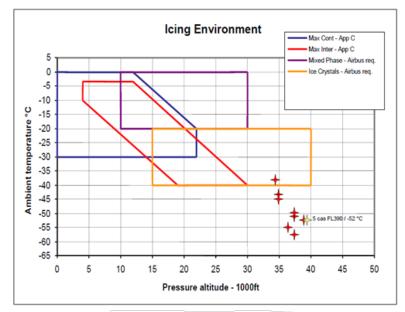
Chapter 5: Into the Weather



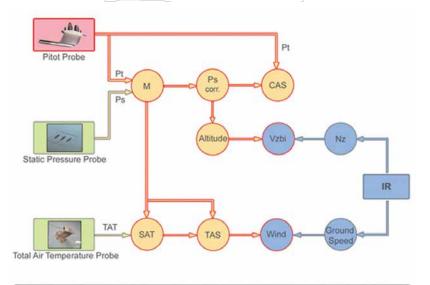




Pitot Tube (Goodrich)

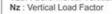


Certification Envelope of Pitot Probes



- CAS : Calibrated Airspeed speed indicated on the PFD
- TAS : True Airspeed aircraft velocity relative to the air mass
- M : Mach Number ratio between true airspeed and sound velocity
- Ps : Static Pressure pressure of outside air

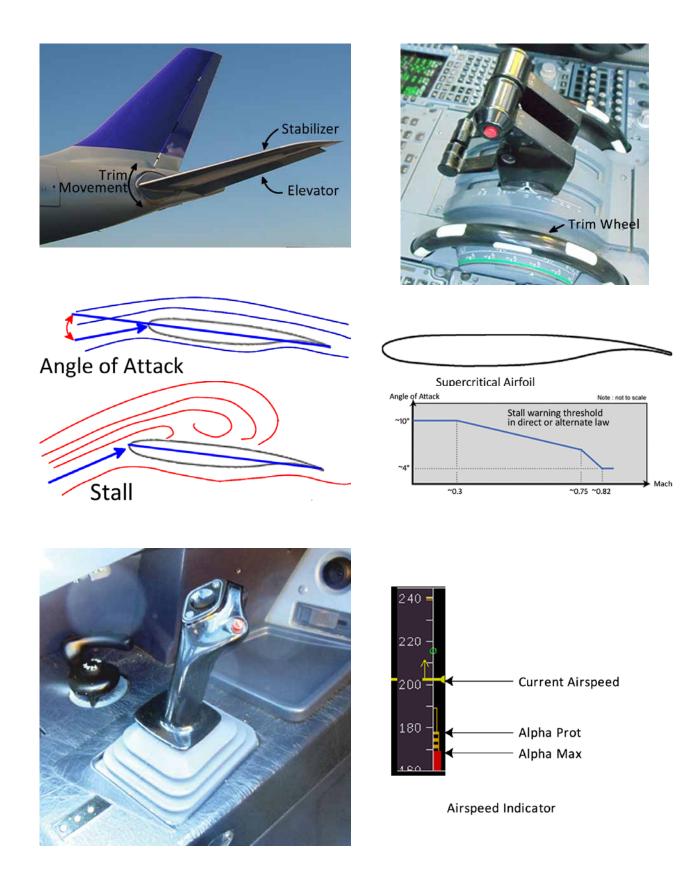
- Pt : Total Pressure static pressure of outside air Pt : Total Pressure static pressure added to the pressure due to aircraft speed SAT : Static temperature outside air temperature TAT : Total Temperature static temperature added to the temperature due to aircraft speed Vzbi : Baro-Inertial Vertical Speed

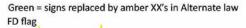


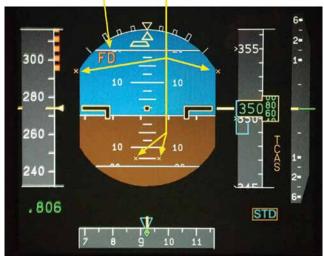


BEA

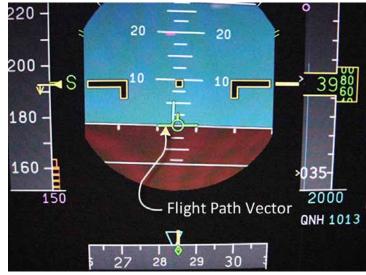
Chapter 6: "I have the Controls"











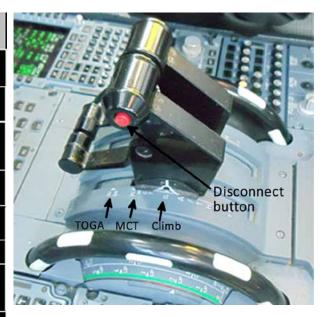


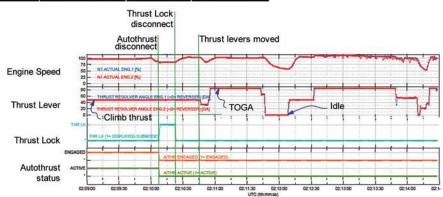
Message display zone



ECAM 02:10:08	ECAM 02:10:15
AUTO FLT AP OFF F/CTL ALTN LAW (PROT LOST) -MAX SPEED330/.82 AUTO FLT REAC W/S DET FAULT	AUTO FLT AP OFF ENG THRUST LOCKED -THR LEVERSMOVE AUTO FLT A/THR OFF -THR LEVERSMOVE F/CTL ALTN LAW (PROT LOST)
ECAM 02:10:10	
AUTO FLT AP OFF AUTO FLT A/THR OFF -THR LEVERSMOVE F/CTL ALTN LAW (PROT LOST) -MAX SPEED330/.82 AUTO FLT	

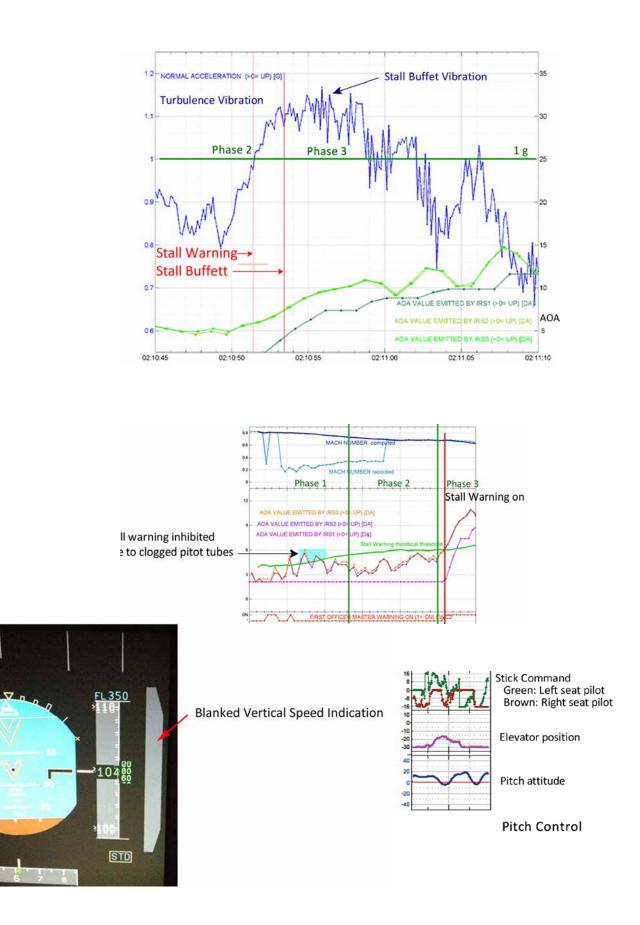
Title	Theoretical symptoms	Time	Display Time
AUTO_FLT AP OFF	cavalry charge + MW	02:10:05	02:10:05
AUTO FLT REAC W/S DET FAULT	SC + MC	02:10:06	02:10:07
F/CTL ALTN LAW (PROT LOST) -MAX SPEED330/.82	SC + MC	02:10:06	02:10:08
AUTO FLT A/THR OFF -THR LEVERSMOVE	SC + MC	02:10:08	02:10:10
ENG THRUST LOCKED -THR LEVERSMOVE	SC + MC	02:10:08	02:10:15
NAV TCAS FAULT	SC + MC	02:10:xx	02: 10:xx
F/CTL RUD TRV LIM FAULT RUD WITH CARE ABV 160 KT	SC + MC	02:1 0:18	02:10:19
NAV ADR DISAGREE -AIR SPDX CHECK •IF NO SPD DISAGREE -AOA DISCREPANCY •IF SPD DISAGREE -ADR CHECK PROCAPPLY	SC + MC	02:12:xx	02:12:xx
F/CTL PRIM 1 FAULT	SC + MC	02:13:37	02:13:39
F/CTL SEC 1 FAULT	SC + MC	02:13:39	02:13:41



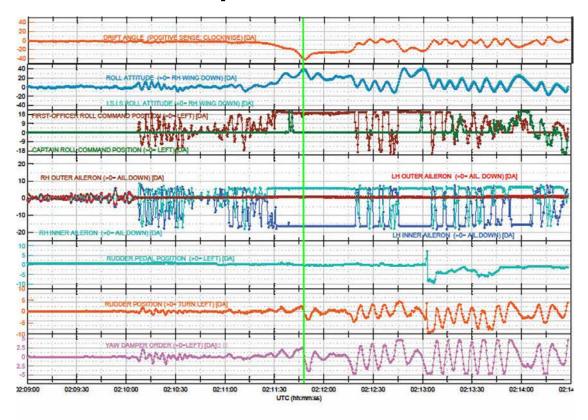


Chapter 7: Stalling and Falling



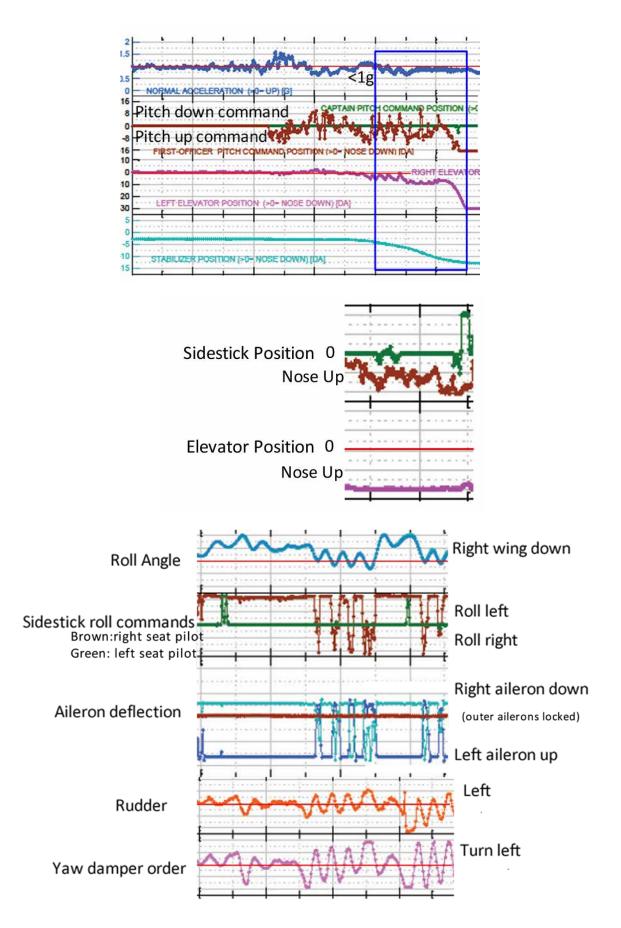


Chapter 8: Aftermath





Chapter 10: Lessons Learned



Key Flight-Recorder Parameters

