

 <b>National Transportation Safety Board</b> <b>FACTUAL REPORT</b> <b>AVIATION</b>		NTSB ID: DCA09IA055		Aircraft Registration Number: PT-MVB	
		Occurrence Date: 05/21/2009		Most Critical Injury: None	
		Occurrence Type: Incident		Investigated By: NTSB	
Location/Time					
Nearest City/Place Los Cayes		State	Zip Code	Local Time 2147	Time Zone EDT
Airport Proximity: Off Airport/Airstrip		Distance From Landing Facility: 60			
Aircraft Information Summary					
Aircraft Manufacturer AIRBUS		Model/Series A330/200		Type of Aircraft Airplane	
Revenue Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>*** Note: NTSB investigators used data provided by various sources and may not have traveled in support of this investigation to prepare this aircraft incident report. ***</p> <p>On May 21, 2009, at 2147 EDT, an Airbus A330-200, Brazilian registration PT-MVB, operated by TAM Airlines as flight 8091 from Miami International Airport, Florida, to Sao Paulo Guarulhos International Airport, Brazil, experienced a loss of primary speed and altitude information while in cruise flight at FL370. Initial reports indicated that the flight crew noted an abrupt drop in outside air temperature and observed St. Elmo's Fire, followed by the loss of the Air Data Reference System, disconnections of autopilot and autothrust, and loss of primary airspeed and altitude. The flight crew continued using backup instruments, and after approximately 5 minutes, primary data was restored. The airplane remained in alternate flight law and displayed a rudder travel limit flag. The crew determined they could not restore normal law and continued the flight under the appropriate procedures. The flight landed at Sao Paulo with no further incident and there were no injuries or damage.</p> <p>With the concurrence of the Brazilian Centro de Investigação e Prevenção de Acidentes Aeronáuticos (CENIPA), the NTSB initiated an incident investigation into this event.</p> <p>The final report for this incident was combined with and can be found under NTSB investigation number, DCA09IA064.  Updated on Jul 18 2011 3:06PM</p>					
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<b>Landing Facility/Approach Information</b>					
Airport Name Los Cayes	Airport ID:	Airport Elevation 0 Ft. MSL	Runway Used N/A	Runway Length	Runway Width
Runway Surface Type:					
Runway Surface Condition:					
Approach/Arrival Flown: NONE					
VFR Approach/Landing: None					
<b>Aircraft Information</b>					
Aircraft Manufacturer AIRBUS		Model/Series A330/200		Serial Number 238	
Airworthiness Certificate(s): Transport					
Landing Gear Type: Retractable - Tricycle					
Amateur Built Acft? No	Number of Seats:	Certified Max Gross Wt. LBS		Number of Engines: 2	
Engine Type: Turbo Fan	Engine Manufacturer: Pratt & Whitney		Model/Series: PW4000	Rated Power:	
- Aircraft Inspection Information					
Type of Last Inspection	Date of Last Inspection	Time Since Last Inspection Hours		Airframe Total Time Hours	
- Emergency Locator Transmitter (ELT) Information					
ELT Installed?/Type Yes / Unknown		ELT Operated? No	ELT Aided in Locating Accident Site? No		
<b>Owner/Operator Information</b>					
Registered Aircraft Owner TAM		Street Address			
		City	State	Zip Code	
Operator of Aircraft TAM		Street Address			
		City Sao Paulo	State	Zip Code	
Operator Does Business As:			Operator Designator Code:		
- Type of U.S. Certificate(s) Held:					
Air Carrier Operating Certificate(s): Foreign Operation					
Operating Certificate:			Operator Certificate:		
Regulation Flight Conducted Under: Part 129: Foreign					
Type of Flight Operation Conducted: Scheduled; International; Passenger Only					

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**First Pilot Information**

Name	City	State	Date of Birth	Age
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Sex:	Seat Occupied:	Occupational Pilot?	Certificate Number:
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Certificate(s):

Airplane Rating(s):

Rotorcraft/Glider/LTA:

Instrument Rating(s):

Instructor Rating(s):

Current Biennial Flight Review?

Medical Cert.:	Medical Cert. Status:	Date of Last Medical Exam:
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- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time										
Pilot In Command(PIC)										
Instructor										
Instruction Received										
Last 90 Days										
Last 30 Days										
Last 24 Hours										

Seatbelt Used?	Shoulder Harness Used?	Toxicology Performed?	Second Pilot? Yes
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**Flight Plan/Itinerary**

Type of Flight Plan Filed: IFR

Departure Point	State	Airport Identifier	Departure Time	Time Zone
Same as Accident/Incident Location		KMIA	0021	UTC

Destination	State	Airport Identifier	
Sao Paulo		SGRU	


Type of Clearance: IFR

Type of Airspace:

**Weather Information**

U.S. Source of Wx Information:

Unknown

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**Weather Information**

WOF ID	Observation Time	Time Zone	WOF Elevation Ft. MSL	WOF Distance From Accident Site NM	Direction From Accident Site Deg. Mag.
Sky/Lowest Cloud Condition:				Ft. AGL	Condition of Light: Night/Dark
Lowest Ceiling:			Ft. AGL	Visibility: SM	Altimeter: "Hg
Temperature: °C	Dew Point: °C	Weather Conditions at Accident Site: Visual Conditions			
Wind Direction:	Wind Speed:	Wind Gusts:			
Visibility (RVR): Ft.	Visibility (RVV): SM				
Precip and/or Obscuration:					

**Accident Information**

Aircraft Damage: None	Aircraft Fire: None	Aircraft Explosion: None
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- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot				1	1
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants				6	6
Other Crew					
Passengers				168	168
- TOTAL ABOARD -				176	176
Other Ground					
- GRAND TOTAL -				176	176

National Transportation Safety Board

**FACTUAL REPORT**  
**AVIATION**



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Administrative Information

Investigator-In-Charge (IIC)

William R. English

Additional Persons Participating in This Accident/Incident Investigation: