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## Turbulence injury, Airbus A300-B4-203, YR-BNK, January 28, 1994

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**Micro-summary:** One jolt of turbulence seriously injured a passenger on this A300.

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**Event Date:** 1994-01-28 at 1230 EST


**Investigative Body:** National Transportation Safety Board (NTSB), USA


**Investigative Body's Web Site:** <http://www.nts.gov/>


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1. Accident reports can be and sometimes are revised. Be sure to consult the investigative agency for the latest version before basing anything significant on content (e.g., thesis, research, etc).
  2. Readers are advised that each report is a glimpse of events at specific points in time. While broad themes permeate the causal events leading up to crashes, and we can learn from those, the specific regulatory and technological environments can and do change. ***Your company's flight operations manual is the final authority as to the safe operation of your aircraft!***
  3. Reports may or may not represent reality. Many many non-scientific factors go into an investigation, including the magnitude of the event, the experience of the investigator, the political climate, relationship with the regulatory authority, technological and recovery capabilities, etc. It is recommended that the reader review all reports analytically. Even a "bad" report can be a very useful launching point for learning.
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		NTSB ID: MIA94LA061		Aircraft Registration Number: VRBNK	
		Occurrence Date: 01/28/1994		Most Critical Injury: Serious	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place ORMOND BEACH	State FL	Zip Code 32074	Local Time 1230	Time Zone EST	
Airport Proximity: Off Airport/Airstrip		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Airbus Industrie		Model/Series A-300 B4-203		Type of Aircraft Airplane	
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>On January 28, 1994, about 1230 eastern standard time, VRBNK, an Airbus A-300, operated by Air Jamaica, a scheduled, international, passenger flight from Baltimore, Maryland, to Montego Bay, Jamaica, encountered turbulence at flight level 310 in cruise flight. Visual meteorological conditions prevailed at the time and an IFR flight plan was filed. The airplane was not damaged and one passenger received serious injuries. Two hundred eight were not injured. The flight originated from Baltimore, Maryland, about 1115 the same day.</p> <p>Air Jamaica personnel reported the flight was cruising at flight level 310 clear of clouds when the airplane encountered one jolt of turbulence. The one passenger who received a fracture of the left leg was walking in the aisle at the time. The seatbelt sign was illuminated and the flightcrew had made an announcement for all passengers to be seated and attach their seatbelts. The flight diverted to Miami, Florida, and the passenger was evacuated to a local hospital.</p> <p>Evaluation of the weather in the area revealed that a combination of upper level high winds and radiative activity may have produced isolated turbulence.</p>					
FACTUAL REPORT - AVIATION					

 <b>National Transportation Safety Board</b> <b>FACTUAL REPORT</b> <b>AVIATION</b>		NTSB ID: MIA94LA061			
		Occurrence Date: 01/28/1994			
		Occurrence Type: Accident			
<b>Landing Facility/Approach Information</b>					
Airport Name	Airport ID:	Airport Elevation Ft. MSL	Runway Used 0	Runway Length	Runway Width
Runway Surface Type:					
Runway Surface Condition:					
Type Instrument Approach: NONE					
VFR Approach/Landing: None					
<b>Aircraft Information</b>					
Aircraft Manufacturer Airbus Industrie		Model/Series A-300 B4-203		Serial Number 247	
Airworthiness Certificate(s): Transport					
Landing Gear Type: Retractable - Tricycle					
Homebuilt Aircraft? No	Number of Seats: 254	Certified Max Gross Wt.	363000 LBS	Number of Engines: 2	
Engine Type: Turbo Fan	Engine Manufacturer: GE	Model/Series: CF6-50-C2	Rated Power: 50000 LBS		
<b>- Aircraft Inspection Information</b>					
Type of Last Inspection Continuous Airworthiness	Date of Last Inspection 12/1993	Time Since Last Inspection 276 Hours	Airframe Total Time 20782 Hours		
<b>- Emergency Locator Transmitter (ELT) Information</b>					
ELT Installed? Yes	ELT Operated? No	ELT Aided in Locating Accident Site?			
<b>Owner/Operator Information</b>					
Registered Aircraft Owner  AIRBUS LEASING CORP.		Street Address 593 HERNDON PARKWAY			
		City HERNDON	State VA	Zip Code 22070	
Operator of Aircraft  AIR JAMAICA		Street Address 72-76 HARBOUR STREET			
		City KINGSTON	State OF	Zip Code 00	
Operator Does Business As:			Operator Designator Code:		
<b>- Type of U.S. Certificate(s) Held:</b>					
Air Carrier Operating Certificate(s): Flag Carrier/Domestic					
Operating Certificate:			Operator Certificate:		
Regulation Flight Conducted Under: Part 129: Foreign					
Type of Flight Operation Conducted: Scheduled; International; Passenger Only					
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		Occurrence Type: Accident																																																																																			
<b>First Pilot Information</b>																																																																																					
Name		City		State	Date of Birth	Age																																																																															
On File		On File		On File	On File	48																																																																															
Sex: M	Seat Occupied: Left	Principal Profession: Civilian Pilot		Certificate Number: On File																																																																																	
Certificate(s): Airline Transport; Foreign																																																																																					
Airplane Rating(s): Multi-engine Land; Single-engine Land																																																																																					
Rotorcraft/Glider/LTA: None																																																																																					
Instrument Rating(s): Airplane																																																																																					
Instructor Rating(s): None																																																																																					
Type Rating/Endorsement for Accident/Incident Aircraft? Yes				Current Biennial Flight Review?																																																																																	
Medical Cert.: Class 1		Medical Cert. Status: Valid Medical--no waivers/lim.		Date of Last Medical Exam: 12/1993																																																																																	
<table border="1"> <tr> <th rowspan="2">- Flight Time Matrix</th> <th rowspan="2">All A/C</th> <th rowspan="2">This Make and Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multi-Engine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> <tr> <td>Total Time</td> <td>14300</td> <td>6000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pilot In Command(PIC)</td> <td></td> <td>6000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Instructor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 90 Days</td> <td></td> <td>200</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td></td> <td>75</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							- 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	14300	6000									Pilot In Command(PIC)		6000									Instructor											Last 90 Days		200									Last 30 Days		75									Last 24 Hours		3								
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Seatbelt Used? Yes		Shoulder Harness Used? Yes		Toxicology Performed? No		Second Pilot? Yes																																																																															
<b>Flight Plan/Itinerary</b>																																																																																					
Type of Flight Plan Filed: IFR																																																																																					
Departure Point		State	Airport Identifier	Departure Time	Time Zone																																																																																
BALTIMORE		MD	KBWI	1108	EST																																																																																
Destination		State	Airport Identifier																																																																																		
MONTEGO BAY		OF	MKJS																																																																																		
Type of Clearance: IFR																																																																																					
Type of Airspace: Class A																																																																																					
<b>Weather Information</b>																																																																																					
Source of Briefing: Commercial Weather Service																																																																																					
Method of Briefing:																																																																																					

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		Occurrence Type: Accident	


<b>Weather Information</b>					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
DAB	1251	EST	23 Ft. MSL	17 NM	195 Deg. Mag.
Sky/Lowest Cloud Condition: Scattered			3000 Ft. AGL	Condition of Light: Day	
Lowest Ceiling: Overcast		15000 Ft. AGL		Visibility: 10 SM	Altimeter: 29.00 "Hg
Temperature: 26 °C	Dew Point: 19 °C	Wind Direction: 220			Density Altitude: Ft.
Wind Speed: 7	Gusts:	Weather Conditions at Accident Site: Visual Conditions			
Visibility (RVR): 0 Ft.	Visibility (RVV) 0 SM	Intensity of Precipitation: Unknown			
Restrictions to Visibility: None					
Type of Precipitation: None					

<b>Accident Information</b>					
Aircraft Damage: None		Aircraft Fire: None		Aircraft Explosion: None	
Classification: Foreign Registered/U.S. Soil					

- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot				2	2
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants				8	8
Other Crew					
Passengers		1		197	198
- TOTAL ABOARD -		1		208	209
Other Ground	0	0	0		0
- GRAND TOTAL -	0	1	0	208	209

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FACTUAL REPORT - AVIATION					
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	Occurrence Date: 01/28/1994	
	Occurrence Type: Accident	
<b>Administrative Information</b>		
<b>Investigator-In-Charge (IIC)</b> ANDREW A. ALSTON		
<b>Additional Persons Participating in This Accident/Incident Investigation:</b>  DAN HUTCHINGS FAA/FSDO MIAMI, FL 33159		
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