



Eastern air lines flight 401 cvr

December 29, 1972 Everglades National Park, Florida Eastern Air Lines, Flight 401 Lockheed L-1011 TriStar1 N310EA The crew was concerned about a landing gear light while on autopilot and in a holding model. As the captain stood up to help, he accidentally pushed the yoke by releasing the autopilot. Without reference to the ground and in night conditions, the aircraft gradually descended until it crashed into the Everglades, 18.7 miles west-northwest of Miami killing 100 out of 176 on board. The non-monising of the crew to monitor the flight instruments during the last 4 minutes of flight and detect a descent soor enough to prevent impact with the ground. TWR = Tower APP = Approach CAM = Cockpit area mike CAM 1 = First Captain CAM 2 = First Officer Cam 3 = First Off near Miami, FL, USA. The reader of these transcripts is warned that the transcription of a CVR strip is not a precise science, but is the best possible product from a group investigative effort. The transcript, or parts thereof, if taken out of context may be misleading. Therefore, CVR transcripts should only be seen as an investigative tool to be used together with other evidence. Conclusions or interpretations should not be made using transcription as the sole source of information. In addition, this transcript is made available for educational purposes, so the reader is encouraged to read the description of the accident associated with the transcripts for a better understanding of the circumstances. Legend RDO - Radio transmission from aircraft accident CAM - Cockpit Zone Microphone sound or source -1 - Voice identified as second officer TWR - Miami Controller (turn) time source content 23.32:35 RDO-1 Miami Tower, East 401 just turned final 23.32:45 TWR Who else called? 23.32:48 CAM-1 Pass it on and throw it out 23.32:52 RDO-1 Miami Tower, read, East 401? Just turned on final 23.33:00 RDO-1 Coninue approach, roger 23.33:00 CAM-3 continuous ignition. No smoke CAM-1 Coming on CAM-3 Braking System CAM-1 Good CAM-3 Radar CAM-1 Up, off CAM-3 Hydraulic Panels Checked CAM-2 Thirty-3 CAM-1 Bert, Is that the handle in? CAM-? ** CAM-3 Motor crossbleeds are open 23.33:22 CAM-? Speed down CAM-? ** CAM-1 Must CAM-? 23.33:25 CAM-1 Must raise it back up until 23.33:47 CAM-1 Now I'm going to try it down once more CAM-2 All right CAM [horn alert altitude sound] CAM-2 (Right) gear. CAM-2 Well, I want to tell them we're going to take him. Take. and circle around and #around? 23.34:05 RDO-1 Well ah, tower, it is East, ah, 401. Looks like we're going to take him. Take. and circle around and #around? 23.34:14 TWR Eastern 401 heavy, Roger, pull up, climb straight ahead to two thousand, go back to control the approach, a twenty-eight six 23.34:19 CAM-2 Twenty-two degrees. CAM-2 Allright CAM-3 Do you want to test the lights or not? CAM-1 Yes. ** back seat CAM-1 Check it CAM-2 Uh, Bob, it could be light. Can you shake the light? CAM-3 Must, you have to come out a little bit and then snap in cam-? ** CAM-? I'm going to put them on 23.34:21 RDO-1 Okay, going up to two thousand, one twenty-eight six 23.34:58 CAM-2 We're up to two thousand 401, we're right over the airport here and climbing at two thousand meters. In fact, we only have 23.35:20 APP East 401, Roger. Turn left heading three six-zero 23.36:04 CAM-1 Put ... on autopilot here CAM-2 Allright CAM-1 See if you can get that light from CAM-2 Allright CAM-1 Now push switches just one ... Before. CAM-1 Okay. CAM-1 You've gone sideways, then. CAM-? I don't think it's going to fit. CAM-1 You've gone sideways, then. CAM-1 You've gone sideways Hey, hey, go over there and see if the wheel of the nose damn down. You'd better do that. CAM-2 Do you have a handkerchief or something, so I can get a little better grip on this? Is there anything I can do with it? CAM-1 Go out there and see if that, see if that thing # ... CAM-2 That's not going to come out, Bob. If I had a pair of pliers, I could cushion it with that Kleenex CAM-3 I can give you, but if you force it, you'll break it, just believe me CAM-2 ves, I'll pillow with Kleenex CAM-3 Oh, we can give you pliers 23.37:48 Eastern APP, uh, 401 turn left heading two seven zero 23.37:53 RDO-1 Left two seven zero. Roger 23.38:34 CAM-1 La#with this, Go down ans see if it's aligned with the red line. That's all we care about. # around with that #twenty cens piec CAM * * 23.38:46 RDO-1 East 401'll go ah in the west just a little further if we can get this light to around here 23.38:54 APP Allright, ah, I led you west there now, East 401 23.38:56 RDO-1 Allright CAM-1 How much fuel have we left on this #CAM-? Fifty-two five CAM-2 (It won't come out) any way 23.39:37 CAM-1 Have you ever got it out of there? CAM-2 hasn't had CAM-1 put it the wrong way, has it? CAM-2 There looks * square to me CAM-? Can't you line up the hole? CAM-? ** CAM-? What's going on? CAM-1 (What's that?) 23.40:05 CAM-2 I think it's over the CAM-training field? West the heading you want to go left or *CAM-2 Naw that's right, we're about to cross Krome Avenue right now 23.40:17 CAM [Sound of Click] CAM-2 I don't know what #holding that # in CAM-2 Always something, we could have done the program 23.40:38 CAM [Altitude Alert Sound] CAM-1 We can tell if that # is down by looking down at our CAM-1 It freefalls down CAM-2 tests haven't shown that the lights worked anyway CAM-1 That's right CAM-2 It's a faulty light 23.41:05 CAM-2 Bob, this # # just won't come out CAM-3 I don't see it down there CAM-3 I don't see it down there CAM-3 I don't see it CAM-1 Isn't it aligned? CAM-3 I can not see, it's dark dark and I throw little light I get ah nothing 23.41:31 CAM-4 Wheels-well lights on? CAM-3 Pardon? CAM-4 Wheels lights always on where the gears down CAM-1 Now try it 23.41:40 App East, ah 401 are things coming along there? 23.41:44 RDO-1 Okay, we'd like to turn around and come, turn in CAM-1 Clear on the left? CAM-2 Okay 23.41:47 APP Eastern 401 turn left heading an eight zero 23.41:50 CAM-1 What? 23.42:07 CAM-2 We're still at two thousand aren't we? 23.42:09 CAM-1 Hey, what's going on here? CAM [Click Sound] 23.42:10 CAM [Sound of six beeps similar to radio altimeter increase in rate] 23.42:12 [Impact sound] East Air Lines Air awarenessSiteConditionsFlorida Evergladesnear Miami International AirportMiami-Dade County, Florida, U.S. 25°51′53N 80°35′43W / 25.86472; -80.59528Coordinates: 25°51′53N 80°35′43W / 25.86472; -80.59528°W / 25.86472°N / 25.86472°N / 25.86472; -80.59528°W / 25.86472°N / 25.86472; -80.59528°W / 25.86472°N / 25 LinesRegistrationN310EAFlight originJohn F. Kennedy Int'l AirportDestinationMiami International AirportOcucans176Passengers163Crew13Fatalities101Injurys75Survivors75 Eastern Air Lines Flight 401 was a scheduled flight from New York JFK to Miami, Shortly before midnight, on December 29, 1972, Lockheed L-1011-1 TriStar collapsed in the Everglades florida, [2][2][3] causing 101 deaths. The pilots and the flight engineer, two of the 10 flight attendants and 96 out of 163 passengers died; 75 passengers and crew survived. The accident occurred while the entire cockpit crew was concerned about a burned landing gear indicator. They did not notice that the autopilot was disconnected by mistake and as a result the aircraft gradually lost altitude and crashed. This was the first fatal accident of a wide-body aircraft. [4] It was also the first fatal accident of a Lockheed L-1011 TriStar. [4] Eastern Air Lines Flight 401 was a regular flight from John F. Kennedy International Airport in Oueens, New York, to Miami International Airport in Miami, Florida. On the day of the accident, Flight 401 was operated using a TriStar Lockheed L-1011-1 (N310EA record), which had been delivered to the carrier. [6] The Flight Crew was under the command of Captain Robert Albin (Bob) Loft, 55, a veteran pilot ranked 50th in the old East. Captain Loft was with the airline for 32 years and accumulated a total of 29,700 flight hours throughout his flying career. He recorded 280 hours in L-1011. Its flight crew included first officer Albert John (Bert) Stockstill, 39, who had 5,800 hours of flight experience (with 306 of them in L-1011) and flight engineer Donald Louis (Don) Repo, 51, who had 15,700 hours of flight experience, 53 of them in L-1011. [5]:27–29 A company employee —technical officer Angelo Donadeo, 47, returning to Miami from a mission in New York — accompanied the flight crew for the voyage, but was officially an unannounced passenger. [5]:6[6]:98 Flight and accident Flight summary of the aircraft, as shown in the NTSB report Flight 401 left JFK airport in New York on Friday, December 29, 1972, at 21:20 EST, with 163 passengers and 13 crew members on board. [5]:3 The flight was routine until 11:32 p.m., when the plane began approaching Miami International Airport. After the speed drop, the first Officer Stockstill noticed that the nose step is properly locked in the lower position has not been illuminated. [5]:3 This was later discovered to be due to a burned bulb. [5]:9 Landing Landing could have been reduced manually, however. [6]:101 The pilots cycled the landing gear, but still failed to get the confirmation light. [5]:3 Loft, who was working on the radio during this stage of the flight, told the tower that they would cut off the proximity to their airport and asked to enter a detention pattern. The approach controller authorized the flight to climb up to 610 m, and then to keep west over the Everglades. [5]:3 The cockpit crew removed the light assembly, [6]:102 and second officer Repo was sent to the aircraft compartment below the flight deck to confirm through a small porthole whether the landing gear was indeed down. altitude, Captain Loft instructed first Officer Stockstill to put L-1011 on autopilot. [5]:4 For the next 80 seconds, the plane maintained the level for two more minutes, after which began a descent so gradual could not be perceived by the crew. [5]:4 In the next 70 seconds, the plane lost only 250 ft (76 m), but this was enough to trigger the C-chord bell elevation warning under the engineer's workstation. [5]:4 The Engineer (Repo) came down and no indication was heard of the voices of the pilots recorded on the CVR that they heard the bell. In another 50 seconds, the plane was at half the assigned altitude. [5]:5 As Stockstill began another turn at 180°, he noticed the discrepancy. The following conversation was recovered from the flight voice recorder later: Stockstill: I did something at altitude. Loft: What? We're still 600 yards away, right? Hey, what's going on here? [5]:5 Less than 10 seconds after this exchange, the jetliner crashed: cockpit area microphone (CAM): [Sound of click] CAM: [Sound of six beeps similar to the radio altimeter rising in rate] CAM: [Sound of initial impact][5]:5 The plane was travelling at 227 miles per hour (197 kn; 365 km/h) when it hit the ground. With the aircraft in the middle of the turn, the left wing first hit the surface, then the left engine and the left landing gear, [5]:8 making three paths through the grass, each with a width of 1.5 m and a length of over 30 m. When the main part of the fuselage hit the ground, it continued to move through the grass and water, breaking along the way. The crash sequence The outer wing structure of the Port of TriStar first hit the ground, followed by engine No. Disintegration of the aircraft that followed the wing tip, 49 ft (15 m) further than three massive 115 ft (35 m) cut strings mud and sawgrass next to the aircraft's extended running car before two of the legs are cut. Then came scattered parts from engine No. 1 (port), and fragments of the port wing itself and the port tailplan. About 490 feet (150 m) after the initial contact of the wing tip with the ground, the massive fuselage began to break, scattering components of the kitchen on the ground floor, the cargo compartments and the interior of the cabin. At 820 ft (250 m) along the wreck path, the outer section of the starboard wing broke off, gouging a 59-foot-long (18 m) crater into soft soil, so did so. From this point on, the break-up of the fuselage has become more extensive, the scattering of metal fragments, cabin accessories and passenger seats on a large scale. The three major sections of the mud towards the end of the wreck way. The fact that the tail assembly - the rear fuselage, the engine mounted on the tail no. There was no complete cross-section of the passenger cabin left, and both the port wing and the battle plan were demolished into fragments. Incongruously, not far from the center section of the roofless fuselage, with the inner portion of the starboard wing still attached, put a large, undamaged and completely inflated rubber dinghy,

one of a number performed on TriStar in the event of an emergency water landing. The breakdown of the fuselage freed him from storage and aftermath of Robert Bud Marquis (1929-2008),[7] an airboat pilot was removed from the frog with Ray Dickinsin (1929-1988) when they witnessed the accident. They rushed to rescue survivors. The Marquis received burns to his face, arms and legs—a result of the fuel spilled from the crash site that night and the next day. For his efforts, he received the Humanitarian Award from the Airboat Hero Airboat Award from the American AirBoat And Rescue Association. [8] In total, 75 survived the crash — 67 of the 163 passengers and eight of the 10 flight attendants were credited with helping other survivors and more guick-thinking actions, such as warning survivors of the danger of hitting matches due to jet fuel in the swamp water[9] and singing Christmas carols to keep hope and attract the attention of rescue teams, as flashlights were not part of the standard aircraft equipment at the time. Of the cockpit crew, only flight engineer Repo survived initials, together with Officer Donadeo, who was down in the electronic nose compartment with Repo at the time of impact. [6]:102,108 Stockstill was killed on impact, while Captain Loft died in the wreck of the flight deck before being transported to a hospital. Repo was evacuated to hospital but later died from his injuries. [6]:107–108 Donadeo, the only survivor of the four occupants of the flight deck, recovered from his injuries. Frank Borman, a former NASA astronaut and senior vice president of Eastern Operations, was woken at home by a phone call explaining a likely accident. He immediately drove to the offices of East Miami and decided to charter a helicopter to the crash site as the swampy terrain made the rescue difficult and had not heard any news of progress in rescue efforts. There he managed to land in a swampy piece of grass and coordinate rescue efforts. He accompanied three survivors in the helicopter to hospital, including a flight attendant and passenger who lost their baby in the crash. [10] Most of the dead were passengers in the mid-range of the aircraft. [11] The swamp absorbed much of the accident's energy, reducing the impact on the aircraft. The mud in the Everglades could have blocked the injuries suffered by the survivors, preventing them from bleeding to death. However, it also complicated the recovery of survivors, since the organisms in the swamp caused the infection. with the potential of gas gangrene. Eight passengers were injuries and 17 suffered minor injuries that did not require hospitalization. [6]:108 The most common injuries were fractures of the ribs, spine, pelvis and lower extremities. Fourteen survivors had varying degrees of burns. [5]:6[a] Investigation Into the National Transportation Safety Board (NTSB) found that the autopilot was accidentally switched from the altitude path to the steering mode of the control steering wheel (CWS) in step. [5]:23 In this way, once the pilot releases pressure on the yoke (control column or wheel), the autopilot maintains the selected step attitude of the pilot until he moves the yoke again. Investigators believe the autopilot changed the way the captain accidentally leaned on the yoke as he returned to speak to the flight engineer, who was standing behind and to his right. The slight forward pressure on the stick would have caused the aircraft to enter a slow descent, maintained by the CWS system. [6]:110 Investigations into the aircraft's autopilot showed that the force required to switch to CWS in channel A, possibly did not take place in channel B, thus depriving the first officer of any indication how has changed (channel A provides the captain of the while channel B provides the first officer). [5]:13 After descending 250 feet (76 m) from the selected altitude of 610 m, a C-string rang from the rear speaker. [5]:4 This altitude alert, designed to warn pilots of an accidental deviation from the selected altitude, went unnoticed by the crew. Investigators believe this was due to the fact that the crew was not in his seat when he called, so he could not have heard it. [6]:110 Visually, as it was night and the aircraft was flying over the dark terrain of the Everglades, with no ground lights or other visual signs indicating that TriStar was slowly descending. Captain Loft was found during the autopsy to have an undetected brain tumor in an area that controls vision. [5]:6,16[9] However, the NTSB concluded that the captain's tumor did not contribute to the accident. [5]:22[6]:109 The ntSB Final Report case indicated the cause of the crash as a pilot error, in particular: the failure of the flight, and to detect an unexpected descent soon enough to prevent impact with the ground. The concern for a malfunction in the position of the nose landing gear, indicating the system, distracted the crew from the instruments and allowed the descent to pass unnoticed. [5]:23-24 In response to the accident, many airlines began preparing for the management of crew resources for their pilots. [12] [13] Training is designed to make problem solving in a much more efficient cockpit, thus causing less distraction for the crew. Lanterns are now standard equipment near jumpsats, and all jumpseates are equipped with shoulder harnesses. [14] Ghost sightings of dead crew members, Captain Robert Loft, and second officer (flight engineer) Donald Repo, standing aboard other L-1011 (N318EA) flights. [15] [16] These rumors speculated that parts of the crashed plane were enly seen on aircraft using spare parts. [15] [16] Gossip about observing the spirits of Don Repo and Bob Loft spread across the Eastern Air Lines to the point where Eastern Air Lin removed all parts recovered from their L-1011 fleet. [17] Over time, the reporting of ghost observations An original plaque from Flight 401 remains in the archives of History Miami in South Florida. [19] Parts of the wreck of Flight 401 can also be found in and the Occult Museum of Lorraine Warren in Monroe. Connecticut. [20] The story of the accident and its aftermath was documented in John G. Fuller's 1976 book, The Ghost of Flight 401. Fuller recounts stories of paranormal events aboard other oriental aircraft and the belief that they were caused by equipment recovered from the wreckage of Flight 401. [21] A TV movie The Ghost of Flight 401 was broadcast in February 1978. Based on Fuller's book, he focused on observing the ghosts around the aftermath. On his 1979 album Three Hearts, musician Bob Welch also recorded a song entitled The Ghost of Flight 401. Eastern Air Lines CEO (and former Apollo astronaut) Frank Borman called the ghost stories surrounding the garbage accident. [22] Eastern considered that he had sued for libel, based on claims of a cover-up of Eastern executives, but Borman chose not to do so, feeling that a trial would only provide more publicity for the book. [22] Loft's widow and children sued Fuller for violating Loft's right of publicity, violating his private life and causing intentional emotional distress, but the trial was dismissed and the dismissed and the dismissed and the dismissed was confirmed by the Florida Court of Appeals, 4nd District. [23] According to Robert J. Serling's 1980 book, From Captain to Colonel: An Informal History of Eastern Airlines, the claim that the wreck age of Flight 401 was installed and later removed from other Eastern Aircraft was false, and no Eastern employee ever claimed to have seen or believed in the alleged ghost finds. Skeptic Brian Dunning claims the ghost-watching in which he thought [Don] Repo's ghost was on the plane. [22] [24] In popular culture The accident was documented in Rob and Sarah Eder's 1977 crash book. [25] The TV movie Crash was broadcast in October 1978. Based on the book, he dramatized the accident, rescue efforts and ntSB investigation. The flight is mentioned as part of Bob Welch's song The Ghost of Flight 401 on his 1979 album Three Hearts. The accident was featured in season five of the Discovery Channel Canada/National Geographic TV series Mayday, in a 2009 episode called Fatal Distraction. [9] Flight 401 was mentioned in season one of Supernatural, episode four: Phantom Traveler, which aired on October 4, 2005. It also appeared in season 14 of Smithsonian Television's Air Disvals, episode 9, Deadly Disruption, which aired on March 21, 2020. The film of the incident appeared in the film Days of Fury (1979), directed by Fred Warshofsky and hosted by Vincent Price. [26] See also the Aeroflot Flight aviation portal a 1994 accident in which an accidental deactivation of the autopilot by a child went unnoticed by the Eastern Air Lines Flight 212 crew, another Eastern Airlines CFIT accident caused by the distraction of the lady Be Good pilot, a B-24 B-24 was similarly the reputation of being cursed after parts recovered from it were reused in other aircraft List of accidents and incidents involving commercial aircraft Northwest Airlines Flight 705, a 1963 accident in which an aircraft broke and crashed in the Florida Everglades Scandinavian Airlines System Flight 933, a 1969 accident in which the crew were distracted by possible landing gear problems United Airlines Flight 173, a 1978 accident in which the crew was distracted by possible problems with the United Airlines Flight 232 landing gear, a 1989 accident in which an aircraft crashed at a shallow angle such as Flight 401 crashed Flight ValuJet 5 92, an accident in 1996, in which a plane crashed in the Florida Everglades not far from where flight 401 crashed Note ^ NTSB classified the injuries of a non-coming passenger and another passenger as nonfatal because their deaths occurred more than seven days after the accident. The death toll according to the final accident report was 99. References ^ Airline rafter carrying 167 accidents in everglades. Eugene Register-Guard. (Oregon), wire service reports. December 30, 1972. p. 1A. ^ Giant jetliner goes down into alligator-infested swamp. Bulletin. (Bend, Oregon). Upi. December 30, 1972. p. 1. ^ a b c Accident description at Aviation Safety Network ^ a b c d e f g h i j k l m n o p g r t u v w x y Eastern Airlines, Inc. L-1011, N310EA, Miami, Florida, 29 December 1972 (PDF). Aircraft accident report. National Council for transport safety. June 14, 1973. NTSB/AAR-73/14. February 8, 2016. ^ a b c d e f g h i j k | Job, Macarthur (1994). Chapter 12: Hey - what's going on here?. Air Disaster Volume 1. Aerospace Publications Pty Ltd. pp. 98–111. ISBN 1-875671-11-0. ^ The obituary of the Marquis Robert Bud on the San Francisco Chronicle. San Francisco Chronicle. December 10, 2017. ^ Crash Survivors Honor Everglades Hero. Prweb. 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