# **Pilots Face Brick Wall-Like Icing**

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May 1, 2015 By Dr. R. Norris Keeler R. Norris Keeler's article in Signal Magazine is the only instance where the Catastrophic Equatorial Icing Event theory has appeared in the media, despite all efforts: eg, Journal of Cosmology Press releases, emails, and phone calls. CHG

## A freak weather condition that spoofs sensors and controls may be the cause of airliner disappearances.

A spate of commercial airliner crashes along the equator in Southeast Asian waters has taken the lives of several hundred passengers and cost hundreds of millions of dollars in aircraft equipment. A lack of concrete evidence of mechanical causes often results in a default decision of pilot error.

Yet, the aircraft may have been done in by an unavoidable freak atmospheric effect unique to the equatorial region. The airline flights involved include: Air France AF447, lost June 1, 2009, over the Atlantic near the equator; Adam Air DHI 574, January 1, 2007; Malaysia Airlines MH370, March 7, 2014; and most recently, AirAsia Flight QZ 8501, December 28, 2014.

These flights cited do not include other equatorial crashes or disappearances that involved only a few casualties, and for which in most cases there were no major investigations nor available detailed flight track information.

The only final decision of any possible cause was in the case of AF447, in which a report says ice crystals in vital pitot tubes generated false sensor information ultimately leading to pilot error. This conclusion was reached with the recovery of aircraft wreckage

and the flight data recorder. The mystery surrounding missing Malaysia Airlines flight MH370 persists. Engine-to-satellite communications suggest the airliner flew for several hours off course after losing radar contact, ending up crashing in the ocean. No wreckage was found.

That all these events took place in equatorial regions causes Carl Gibson of the Scripps Institution of Oceanography to rely on earlier research. A widely recognized turbulence specialist, Gibson's research, together with that of Mark A. Baker of the Applied Physics Laboratory/Johns Hopkins University, involves the behavior of air turbulence in equatorial regions.

The Coriolis effect is caused by the rotation of the Earth and the inertia of the mass experiencing the effect—in this case, water and air. On Earth, one way it manifests itself is in the circular motion of cyclonic storms—counterclockwise in the Northern Hemisphere, clockwise in the Southern Hemisphere. Because Coriolis forces vanish on the equator, the horizontal scale of turbulence extends from centimeter Kolmogorov scales to hundreds of kilometers. These effects vastly increase the amplitude and power of extreme turbulence events in equatorial regions.

The Earth completes one rotation per day, making the Coriolis force quite small. The resulting effects generally become noticeable only for motions occurring over large distances and long periods of time, such as large-scale movement of air in the atmosphere or water in the ocean. Gibson and Baker's work (Journal of Physical Oceanography, October 1987) shows that the mean-to-mode ratio of turbulence dissipation rate on the equator is 30,000-to-1. This ratio probably has increased in recent years, according to Gibson.

As a result, a deadly combination of turbulence, waves and wind is

causing aircraft crossing the equator to crash with increasing frequency because of higher ocean temperatures, according to Gibson. His research states that conditions along the equator cause extreme and rapid icing to occur in rare instances, even though most aircraft cruising at the same altitude pass through unharmed. The complex mechanism, termed Catastrophic Equatorial Icing, involves extreme maxima of stratified turbulence in natural fluids such as the ocean, atmosphere, astrophysical and cosmological flows. This icing phenomenon would explain the ice crystals clogging the pitot tubes in AF447.

A major oceanographic experiment in 2005 in Hawaii showed that the generic mechanism of stratified turbulent mixing involves mixing chimneys powered by fossil turbulence waves in the vertical direction. Combining extreme turbulence events of the equator with a mixing chimney of supercooled water vapor provides the equivalent of a brick wall to aircraft cruising at altitude. Within about four minutes, all pitot tubes and control surfaces would ice over, and the doomed plane ultimately would hit the water. Nothing can be done by any pilot once this condition is established. The loss of the aircraft is not pilot error.

## - See more at: <u>http://www.afcea.org/content/?q=Article-pilots-</u> <u>face-brick-wall-icing-along-equator#sthash.RVqEoMMy.dpuf</u>

The standard model for aircraft crashes is that "planes just don't fall out of the sky". First discovery of MH370 debris suggests the crash was due to catastrophic equatorial icing in the South China Sea, not due to "Rogue Pilots" in the South Indian Ocean. See http://JournalofCosmology.com/JOC24/ AGUfinal.pdf Gibson Poster at 2014 AGU meeting, San Francisco, CA. The average drift rate from the crash location at 103E 6.7N, where radar contact was lost, would be ~ 5.6 miles per day along the dotted path shown in the figure, South to the Sunda Strait between Sumatra and Java, and West with the trade wind drift to Reunion Island where the Boeing 777 flaperon was discovered (see central inset). The questionable "Rogue Pilot" crash location has remarkably produced no debris on the coast of Australia, and would require unreasonably high drift rates and directions for the flaperon to appear on Reunion Island so soon. Obviously, drifters that replicate the Boeing 777 flaperon should be released in March, 2016, from the two locations shown by yellow stars in the figure to see where they go. Better yet, search the bottom near 103E, 6.7 N immediately.

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### Catastrophic Equatorial Icing Hypothesis Published by Signal Magazine



This chart plots the location of Southeast Asia anime crashes. Note the ploximity to the equator, because the AP447 light

was lost in the equatorial Atlantic Ocean, its location is shown as an insert in the upper right hand portion of the chart. The

equator is correctly located for all events.

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Currents in March 2014 should carry debris south across the Equator into the trade wind drift toward Reunion Island, as shown by the dotted line below.

