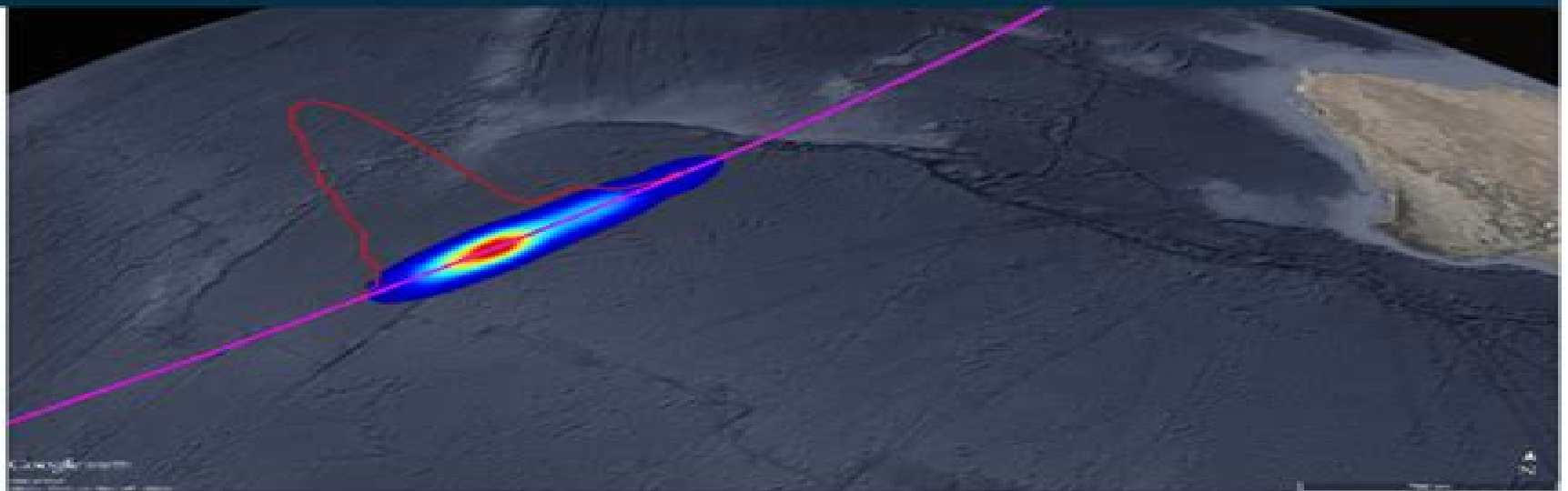




Australian Government  
Australian Transport Safety Bureau

# MH370 - Definition of Underwater Search Areas

3 December 2015



Investigation

**ATSB Transport Safety Report**  
External Aviation Investigation  
AE-2014-054  
3 December 2015

# Discovering The Mh370 Defnition Of Underwater Search Areas

**Australian Bureau, Luc Guo**



## **Discovering The Mh370 Definition Of Underwater Search Areas:**

**The Vanishing of Flight MH370** Richard Quest, 2016 CNN Aviation Correspondent Richard Quest offers a gripping and definitive account of the disappearance of Malaysian Airline Flight MH370 in March 2014. On March 8, 2014, Malaysian Airlines Flight MH370 disappeared with barely a trace, carrying 239 people on board, seemingly vanishing into the dark night. The airplane's whereabouts and fate would quickly become one of the biggest aviation mysteries of our time. Richard Quest, CNN's Aviation Correspondent, was one of the leading journalists covering the story. In a coincidence, Quest had interviewed one of the two pilots a few weeks before the disappearance. It is here that he begins his gripping account of those tense weeks in March, presenting a fascinating chronicle of an international search effort which, despite years of searching and tens of millions of dollars spent, has failed to find the plane. Quest dissects what happened in the hours following the plane's disappearance and chronicles the days and weeks of searching which led to nothing but increasing despair. He takes apart the varying responses from authorities and the discrepancies in reports, the wide range of theories, the startling fact that the plane actually turned around and flew in the opposite direction, and what solutions the aviation industry must now implement to ensure it never happens again. What emerges is a riveting chronicle of a tragedy that continues to baffle everyone, from aviation experts to satellite engineers to politicians, and which to this day worries the traveling public that it could happen again. INCLUDES PHOTOS

**Bayesian Methods in the Search for MH370** Sam Davey, Neil Gordon, Ian Holland, Mark Rutten, Jason Williams, 2016-07-15 This book demonstrates how nonlinear non-Gaussian Bayesian time series estimation methods were used to produce a probability distribution of potential MH370 flight paths. It provides details of how the probabilistic models of aircraft flight dynamics, satellite communication system measurements, environmental effects, and radar data were constructed and calibrated. The probability distribution was used to define the search zone in the southern Indian Ocean. The book describes particle filter-based numerical calculation of the aircraft flight path probability distribution and validates the method using data from several of the involved aircraft's previous flights. Finally, it is shown how the Reunion Island flapron debris find affects the search probability distribution.

**Last Flights Of Malaysian Airlines Mh370 And Mh17, The: A Firsthand-look** Azharuddin Abdul Rahman, 2022-10-14 Having always been in love with all things related to aviation since childhood, Azharuddin Abdul Rahman's dream came true when he was given a chance to enter the field of aircraft engineering. Serving as Director General for eleven years with the Department of Civil Aviation (DCA), he had had many valuable experiences. However, the two biggest tragedies that occurred in 2014, that of MH370 and MH17, had the greatest impact on his life and affected not just the victims and their families but the entire Malaysian aviation industry. Azharuddin was directly involved in leading the search missions of the tragic disappearance of MH370 on 8 March 2014 and in a series of investigations concerning the downing of MH17 in eastern Ukraine on 17 July of the same year. As Director General, Azharuddin faced a heavy burden in the aftermath of the twin disasters, of which MH370 remains unsolved to this day.

present day No one was prepared for the MH370 tragedy despite all the training they had received As for MH17 Azharuddin laments that the tragedy may have been prevented had full information on the level of conflict in Ukraine been made available during that time In both cases all passengers and crew on board were killed Both tragic events marked a new history in the aviation industry both in Malaysia and in the international arena causing new reforms to burst into action to ensure similar incidents will not happen again In writing this book Azharuddin draws from personal experience conducting his research with and around aviation industry professionals and drawing insights from others involved in both incidents to present a full and raw take on the twin disasters of the Malaysian aviation industry in 2014

**Discovering the Mh370**

Australian Bureau, Luc Guo, 2014-08-09 Malaysia Airlines Flight 370 MH370 MAS370 was a scheduled international passenger flight from Kuala Lumpur to Beijing that lost contact with air traffic control on 8 March 2014 at 01 20 MYT 17 20 UTC 7 March less than an hour after takeoff At 07 24 Malaysia Airlines MAS reported the flight missing The aircraft a Boeing 777 200ER was carrying 12 Malaysian crew members and 227 passengers from 14 nations A multinational search effort later reported as the largest and most expensive in history began in the Gulf of Thailand and the South China Sea Within a few days the search was extended to the Strait of Malacca and Andaman Sea On 15 March based on military radar data and radio pings between the aircraft and an Inmarsat satellite investigators concluded that the aircraft had diverted from its intended course and headed west across the Malay Peninsula then continued on a northern or southern track for around seven hours The search in the South China Sea was abandoned On 17 March 2014 the Australian Maritime Safety Authority took charge of co ordinating the search when it shifted to the southern part of the Indian Ocean 1 On 24 March the Malaysian government confirmed independent analyses by the British Air Accidents Investigation Branch AAIB and Inmarsat which concluded that the flight ended in the southern Indian Ocean In the first two weeks of April aircraft and ships deployed equipment to listen for signals from the underwater locator beacons attached to the aircraft s black boxes Four unconfirmed signals were detected between 6 and 8 April but after that time the batteries of the beacons were believed to have become exhausted The search continued in the area of the signals using a robotic submarine until 28 May without evidence of debris being found On 26 June 2014 a new 60 000 square kilometres 23 000 sq mi search area was announced approximately 2 000 kilometres 1 200 mi west of Perth Australia The underwater search of this area is expected to begin in August 2014 and last up to 12 months at a cost of A 60 million Analysis of communication between the aircraft and a satellite over the Indian Ocean concluded that the flight ended in the southern Indian Ocean the Malaysian government has accepted the results of this analysis An analysis by the Australian Transport Safety Bureau concluded that an unresponsive crew or hypoxia event best fit the available evidence 34 for the 5 hour period of the flight as it travelled south over the Indian Ocean without communication or significant deviations in its track 34 likely on autopilot However there is no consensus among investigators on the unresponsive crew hypoxia theory There has been no confirmation of any flight debris and no crash site has been

found resulting in many unofficial theories about its disappearance Wikipedia Common **Preventing Another MH370**  
United States. Congress. House. Committee on Oversight and Government Reform. Subcommittee on Transportation and Public Assets,2015 *Reliable Robot Localization* Simon Rohou,Luc Jaulin,Lyudmila Mihaylova,Fabrice Le Bars,Sandor M. Veres,2019-12-03 Localization for underwater robots remains a challenging issue Typical sensors such as Global Navigation Satellite System GNSS receivers cannot be used under the surface and other inertial systems suffer from a strong integration drift On top of that the seabed is generally uniform and unstructured making it difficult to apply Simultaneous Localization and Mapping SLAM methods to perform localization Reliable Robot Localization presents an innovative new method which can be characterized as a raw data SLAM approach It differs from extant methods by considering time as a standard variable to be estimated thus raising new opportunities for state estimation so far underexploited However such temporal resolution is not straightforward and requires a set of theoretical tools in order to achieve the main purpose of localization This book not only presents original contributions to the field of mobile robotics it also offers new perspectives on constraint programming and set membership approaches It provides a reliable contractor programming framework in order to build solvers for dynamical systems This set of tools is illustrated throughout this book with realistic robotic applications

Summary of Analyses Undertaken on Debris Recovered During the Search for Flight MH370 Maggie Tran,Christian Thun,John Pugh,Tanya Whiteway,Jacob Sohn,Ziqing Hong,Junhong Chen,W. A. Nicholas,2017 On 8 March 2014 the Boeing 777 200ER aircraft registered as Malaysia Airlines 9M MRO and operating as flight MH370 MH370 disappeared from air traffic control radar after taking off from Kuala Lumpur Malaysia on a scheduled passenger service to Beijing China with 227 passengers and 12 crew on board After analysis of satellite data it was discovered that MH370 continued to fly for over six hours after contact was lost All the available data indicates the aircraft entered the sea close to a long but narrow arc of the southern Indian Ocean On 31 March 2014 following an extensive sea and air search the Malaysian Government accepted the Australian Government s offer to take the lead in the search and recovery operation in the southern Indian Ocean in support of the Malaysian accident investigation On behalf of Australia the Australian Transport Safety Bureau ATSB coordinated and led the search operations for MH370 in the southern Indian Ocean Geoscience Australia provided advice expertise and support to the ATSB in sea floor mapping bathymetric survey and the underwater search GA has also provided quarantine facilities for receipt of possible debris and has undertaken laboratory analyses for a number of these pieces This record is a collation of reports describing quarantine procedures and parts analysis undertaken by Geoscience Australia for some of the debris recovered and processed through Geoscience Australia laboratories during the search for flight MH370 online abstract *The Hunt for MH370* Ean Higgins,2019-02-26 A staggering meticulous and frequently spine chilling work of longform journalism Trent Dalton Somewhere deep beneath the wild seas of the southern Indian Ocean perhaps in the eerie underwater canyons of Broken Ridge along the Seventh Arc satellite band lies the answer to the world s greatest aviation

mystery Why on the night of 8 March 2014 did Malaysia Airlines Flight MH370 suddenly U turn zig zag up the Straits of Malacca then vanish with 239 souls on board Was it an elaborate murder suicide by a rogue pilot A terrible accident such as onboard fire rapid decompression or systems failure A terrorist hijacking gone wrong Or something else entirely Award winning journalist Ean Higgins has led the world media s coverage of this incredible saga and draws on years of interviews with aviation experts victims families air crash investigators and professional hunters across land sea and sky to dissect the riddle of MH370 s fate PRAISE FOR THE HUNT FOR MH370 The Hunt for MH370 is a riveting page turner written with the drama and intrigue of a thriller Piece by tantalising piece Ean Higgins unpuzzles this most baffling of mysteries asking dangerous questions and revealing shocking truths Dick Smith The disappearance of MH370 remains the greatest and most pressing mystery in aviation history that demands answers for both the families of the stricken passengers and the travelling public No journalist has been more relentless in the pursuit of the truth of MH370 than Ean Higgins The Hunt for MH370 is an engrossing book in which Higgins has meticulously pieced together the puzzle of the doomed flight from its vanishing to the flawed investigation and the largest maritime search ever that leads the reader to a chilling conclusion that is almost impossible to comprehend Paul Whittaker Chief Executive Sky News and former editor in chief The Australian *MH370* Larry Vance, 2018-05-23 On March 8th 2014 Malaysia Airlines Flight 370 with 239 people on board disappeared into the dark of the night never to be heard from again The disappearance of MH370 has been described as the greatest mystery in the history of aviation Despite the efforts of an international investigation team and millions of dollars spent searching the ocean bottom for the wreckage site no one has been able to determine what really happened Until now For this book three professional accident investigators each with decades of real world experience in crash dynamics examined the available evidence The results of their work reveal the actual sequence of events and what really happened to MH370 This book uses plain language easy to understand schematics and clear photos of the actual wreckage to bring the evidence to life Even those with little or no aviation connection will be able to understand and appreciate the validity of this eye opening analysis You will see that the official investigation was deficient They missed or misinterpreted crucial evidence that was available on the recovered wreckage pieces Therefore they used incorrect assumptions about what was happening onboard MH370 when they calculated the boundaries for their search zones This book will reveal why the multi million dollar ocean bottom search efforts had almost no chance of success You will be guided through a basic investigation and analysis process to show what caused MH370 to disappear from radar and to fly on an unexplained and mysterious track that led to the southern Indian Ocean Many people have presented theories to try to explain the MH370 disappearance This book shows you a basic investigation framework where theories that are based on speculation and guesswork can be invalidated You are left with only one scenario that is totally based on confirmed facts The known and indisputable evidence fits with only one chain of events and that is the chain of events presented by the author With this book the mystery of MH370 has been solved **The**

**Disappearance Of Flight MH370: Lost In The Ocean's Depths** ANONYMOUS, The Disappearance Of Flight MH370 Lost In The Ocean's Depths is a gripping exploration of one of aviation's greatest mysteries Vanishing without a trace Flight MH370 sparked worldwide speculation and conspiracy theories This book delves into the theories and speculations surrounding the disappearance including pilot suicide hijacking and government cover ups It examines the controversies surrounding the underwater search operations the challenges of deep sea exploration and the intricate details of the enigmatic Indian Ocean The emotional turmoil experienced by the families of the passengers and the ongoing search for closure are highlighted Multinational investigations unanswered questions and the debate over aviation safety reforms are also thoroughly examined The book not only offers a meticulous account of the MH370 case but also explores the impact it has had on aviation security and the future of underwater exploration With echoes of similar air disappearances and lessons learned this book leaves readers with a lingering mystery and the potential for future discoveries [The Mysterious Final Flight of MH-370](#) Robert Dominguez, 2019-03-08 When we board a modern twenty first century aircraft we are all confident of hopefully a smooth flight and delivery to our destination of choice This was not the case of Malaysia Airlines Flight no MH 370 It never landed at its destination nor any other airport This chronology of the facts of its final flight is written to help soothe the nerves of the international flying public Because MH 370 vanished mysteriously its story was written beginning as an unsolved mystery disappearance Later when arriving at the conclusion of a tale of a mysteriously missing aircraft with 239 souls aboard I realized I had composed a history of the facts and human stories chronicled within the saga of The Mysterious Final Flight of MH 370 Therefore the inclusion of the safety of today's human flight is annotated but also the future of human air flight safety by describing new safety measures designed to replace outdated twentieth century black box invention with twenty first century digitized data recording innovative technologies Cost seems to be the inhibition of installing then implementing the now preexisting twenty first century technologies on all aircraft worldwide hopefully sooner rather than later The good news is the United States Air Force has it already implemented and utilized daily today One day MH 370 may be located certainly providing solace and closure for the 239 families missing their loved ones who comprised the flight manifest of the 239 missing souls aboard MH 370 Plus both black boxes may provide answers to what transpired during The Mysterious Final Flight of MH 370 Additionally it is said and felt Hope springs daily living eternally [Into Oblivion](#) Samir Kohli, Pranav Kohli, 2014-07-22 Into Oblivion presents a comprehensive scientific evaluation of each and every theory regarding the disappearance of Malaysia Airlines flight MH370 While this book doesn't speculate about how and why the flight was lost it scientifically interprets whatever little evidence is available at this time An explanation of the scientific basis of the search techniques and methodology has also been provided in this book Into Oblivion therefore seeks not to sensationalize or speculate but only to inform and educate by sifting fact from fiction Into Oblivion is a must read for all those intrigued by the sudden and as yet unexplained disappearance of MH370 This book does not tell you what happened to

MH370 If you seek a book that explains what happened to the flight then this is not the book for you At the time of writing there is insufficient evidence to arrive at any conclusion regarding what actually happened to MH370 This book merely states the facts without any speculation and explains how they should be interpreted based on the available scientific and historical data The reason for writing this book is to state the facts explain them and differentiate between what the facts represent scientifically and what amounts to conjecture Then based on the facts available draw some scientific conclusions on the basis of which the many theories that abound in the media today can be evaluated and either considered plausible subject to further evidence or rejected altogether Various technical terms that are being frequently used in relation to this incident have also been explained An explanation has also been given of the technology that is being used in the search along with some basic scientific data to help the reader understand the complexities involved in this operation The reason and focus of this book lies in truth and where there is no truth known at this time in scientific and data driven analysis of all possibilities No speculation no allegations and certainly no favorite theory Every theory out there is just as good as the other in the absence of any proof Lastly if you re looking to read an emotional account of this tragedy then this book is not for you I have no interviews with any of victims family members because I believe that people need to be allowed to grieve in private This book focuses on pure science and facts and on weighing not counting the evidence exactly the way an Accident Investigator is expected to

**MH370: the Plane at Batavia** Michael Chillit, 2017-05-12 MH370 disappeared from radar screens suddenly without warning on March 8 2014 The first formal search for the plane ended in failure early in 2017 In an unprecedented two year underwater search no sign of the plane was found on a small strip of South Indian Ocean seafloor near the edge of Antarctica s Circumpolar Current Yet we know the plane is in the South Indian Ocean Nearly 30 pieces of debris have been recovered from the Mascarene Island area as well as Madagascar and from various places along the East African coast Two of the items are large wing sections but most are only a meter or so in length South Indian Ocean currents tend to move counterclockwise Debris drifts from the southeast to the northwest then south again toward the tip of South Africa Drifting debris almost never crosses the equator in either direction Searchers have known the plane could be almost anywhere along a 4 000 kilometer Arc that extends from just south of balmy Jakarta Indonesia to the frigid les Saint Paul halfway to Antarctica Were they careless to spend all of their time and resources searching such a small portion of the Arc Now for the first time there is compelling evidence that the plane is near the center of that Arc close to an underwater mountain region west of Australia known as Batavia Seamount What happened to 239 passengers and crew aboard the plane Come along as researcher and author Michael Chillit explains how we know where the plane is almost certainly lying Be part of the effort to photograph the fuselage before it is raised and help bring closure to its victim s next of kin

**Mh370** Aaron Aaberg, 2025-08-20 On March 8 2014 Malaysia Airlines Flight 370 vanished from the skies beginning one of the most perplexing mysteries in aviation history The Boeing 777 carrying 239 passengers and crew on a routine journey from Kuala



Lumpur to Beijing disappeared without warning What followed was the largest most expensive and most complex search effort ever mounted spanning years oceans and international borders This book traces the story from the flight s final routine messages to the discovery of debris on far flung coastlines It details the unprecedented search operations across the Indian Ocean the satellite data analysis that reshaped investigative methods and the painstaking efforts to understand what could have happened to the aircraft Alongside the technical and logistical challenges it reflects on the human cost the families waiting for answers the communities involved in the search and the enduring grief and resilience Drawing on confirmed facts official reports and scientific evidence MH370 What We Know What We Searched What Remains offers a comprehensive chronicle of the disappearance the search and its legacy It is both a record of an extraordinary investigation and a sober reminder of the limits of modern technology in solving a mystery that continues to resonate worldwide **The**

**Disappearing Act: The Impossible Case of MH370** Florence de Changy, 2021-02-04 People often say that non fiction books read like fast moving thrillers but this one genuinely does This is a splendid book and highly recommended Daily Mail A remarkable piece of investigative journalism into one of the most pervasive and troubling mysteries of recent memory

**MH370** Australian Transport Safety Bureau, 2017

## Reviewing **Discovering The Mh370 Definition Of Underwater Search Areas**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Discovering The Mh370 Definition Of Underwater Search Areas**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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