

The Search for MH370

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MH370

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Chronology

2014

8th March 2014 – MH370 departs Kuala Lumpur, Malaysia at 00:42 UTC.

9th March 2014 – Inmarsat announce MH370 flight continued for Several Hours after Loss of Contact.

11th March 2014 – Inmarsat release Burst Timing Offset (BTO) data to Investigators.

15th March 2014 – Inmarsat publish Arc with Last Known Possible Positions of MH370.

18th March 2014 – AMSA starts Aerial Search for MH370 in the Southern Indian Ocean.

24th March 2014 – Malaysia announce MH370 Flight Ended in the Southern Indian Ocean.

4th April 2014 – Malaysia releases Military Primary Radar Trace of MH370 to Next of Kin in

Beijing.

5th April 2014 – Duncan Steel publishes a Full Set of Arcs based on the Inmarsat Satellite Ephemeris.

7th April 2014 – Inmarsat release Burst Frequency Offset (BFO) Data showing MH370 “Possible Turn” at 18:29 UTC.

13th April 2014 – Victor Iannello publishes Line Of Sight Flight Routes both North and South with Turn at 18:29 UTC.

15th April 2014 – Mike Exner publishes BFO Analysis Showing Southern Track Match to L-Band Predicted Doppler.

16th April 2014 – AMSA ends Aerial Search for MH370 in the Southern Indian Ocean.

16th April 2014 – Richard Godfrey publishes MH370 Flight Model V1 for Northern Route.

18th April 2014 – Richard Godfrey publishes MH370 Flight Model V1 for Southern Route.

24th April 2014 – Victor Iannello publishes MH370 Flight Model for Northern and Southern Routes.

26th April 2014 – Mike Exner publishes BFO Calibration, AES Compensation, ROC, Track and Turn Calculations from BFO.

16th May 2014 – Birth of the Independent Group (then called “The BFO Group”) with Duncan, Mike, Don, Rand and Richard.

28th May 2014 – Inmarsat release the Raw Satellite Data (Signalling Unit Log) for MH370.

28th May 2014 – Mike Exner publishes Deriving Net L-Band Propagation Delay and Range from BTO values.

3rd June 2014 – Henrik Rydberg publishes MH370: Finding the Path.

5th June 2014 – Extension of the “The BFO Group” including Victor, Brian, Curon, Bill, Tim, Barry M., Sid and Geoff.

6th June 2014 – Don Thompson publishes MH370 Flight Path using BTO and BFO with “Turn South” at Waypoint LAGOG.

7th June 2014 – Barry Martin publishes MH370 Flight Path Model.

9th June 2014 – Duncan Steel publishes the “Perth North” Error in the Ground Station.

12th June 2014 – Victor Iannello publishes the BFO Model with Yap Fook Fah and Henrik Rydberg.

12th June 2014 – Alec Duncan (Curtin University) publishes Sound Clue in Hunt for MH370.

13th June 2014 – Yap Fook Fah discovers Burum as Ground Station Location for Pilot Generator.

17th June 2014 – BFO Group renamed the Independent Group (IG) and publishes First Statement [Download](#)

26th June 2014 – ATSB publishes MH370 – Definition of Underwater Search Areas.

3rd July 2014 – Paul Sladen publishes a Briefing Note Deciphering the Inmarsat Raw Satellite Data.

3rd July 2014 – Richard Stead (Los Alamos) publishes Seismic and Hydro-Acoustic Analysis relevant to MH370.

14th July 2014 – IG publishes Second Statement [Download](#)

15th August 2014 – ATSB updates MH370 – Definition of Underwater Search Areas including “Perth North Compensation”.

4th September 2014 – Inmarsat publishes The Search for MH370.

9th September 2014 – IG publishes Third Statement [Download](#)

14th September 2014 – Alec Duncan (Curtin University) publishes Results of Analysis of Scott Reef IMOS Underwater Sound Recorder Data for the Time of the Disappearance of Malaysian Airlines Flight MH370 on 8th March 2014.

25th September 2014 – Barry Martin publishes a MH370 Fuel Flow Model.

25th September 2014 – Bobby Ulich publishes The Location of MH370.

26th September 2014 – Fugro starts the Underwater Search for MH370.

26th September 2014 – IG publishes Fourth Statement [Download](#)

8th October 2014 – ATSB updates MH370 Flight Path Analysis.

22nd October 2014 – Barry Martin and Geoff Hyman publish Estimates of BFO Bias Terms: Summary of Preliminary Findings.

3rd November 2014 – Mike Exner runs MH370 Flight Path in a Boeing 777 Level D Flight

Simulator.

26th December 2014 – Brian Anderson publishes Deducing the Speed of Malaysia Airlines MH370, Mid-Flight.

2015

21st January 2015 – Tom Kunkle (Los Alamos) publishes The Mathematical Search for MH370.

17th March 2015 – Sid Bennett and Geoff Hyman publish Further Studies on the Path of MH370: Turn Time and Final Azimuth.

24th March 2015 – Yap Fook Fah publishes Autopilot Flight Path BFO Error Analysis.

16th April 2015 – Geoff Hyman publishes Middle Game Uncertainties in Azimuth, with Implications for the MH370 Endpoint.

29th July 2015 – Flaperon Debris found in Reunion by Johnny Begue.

2nd August 2015 – Henrik Rydberg publishes MH370: Finding the Debris Origin.

2nd September 2015 – Airbus confirms that the Flaperon Debris is from aircraft 9M-MRO and Flight MH370.

30th November 2015 – DSTG publishes Bayesian Methods in the Search for MH370.

23rd December 2015 – Engine Cowling Name Plate “Roy” Debris found in South Africa by Schalk Lückhoff.

27th December 2015 – No.7 Flap Fairing 676EB Debris found in Mozambique by Liam Lotter.

2016

2nd February 2016 – Paul Smithson publishes Head for Home – A Theory of MH370’s Disappearance and Final Resting Place.

28th February 2016 – Horizontal Stabiliser Panel “No Step” Debris found in Mozambique by Blaine Gibson.

30th March 2016 – Cabin Divider Bulkhead Debris found in Rodrigues by Jean Dominique and Suzy Vitry.

9th May 2016 – Jonathan Durgadoo (Geomar) publishes Backtracking of the MH370 Flaperon from La Réunion.

6th June 2016 – 5 Items of Debris found in Madagascar by Blaine Gibson.

12th June 2016 – 3 Further Items of Debris found in Madagascar by Blaine Gibson.

20th June 2016 – Outboard Flap Debris found in Tanzania by Fishermen.

26th July 2016 – DGA sends a report on the Flaperon Debris to the investigators.

27th July 2016 – Eric Jansen (EMCCC) publishes Drift Simulation of MH370 Debris using Super-Ensemble Techniques.

28th July 2016 – Charitha Pattiaratchi (UWA) publishes Ocean Currents Suggest Where we should be Looking for Missing Flight MH370.

12th August 2016 – Zaharie Shah Home Flight Simulator Data leaked.

14th August 2016 – IG publishes a Preliminary Assessment of Zaharie Shah's Recovered Flight Simulation Data [Download](#)

19th August 2016 – Panel Debris found in Mozambique by Barry McQuade.

25th August 2016 – Victor Iannello and Richard Godfrey publish Possible Flight Path of MH370 towards McMurdo Station, Antarctica

26th August 2016 – Right Vertical Stabiliser Debris found in Mozambique by Jean Viljoen.

1st September 2016 – Right Engine Inner Vortex Generator Debris found in Madagascar by Fishermen and Blaine Gibson.

30th September 2016 – Joaquin Trinanés (NOAA) publishes Analysis of Flight MH370 Potential Debris Trajectories using Ocean Observations and Numerical Model Results.

2nd November 2016 – ATSB publish the MH370 – First Principles Review.

11th November 2016 – Mick Gilbert publishes Exploring the First Log-On – First Phone Call Gap.

26th November 2016 – Victor Iannello and Yves Guillaume publish a Further Analysis of Simulator Data Related to MH370.

2nd December 2016 – Royal Malaysian Police Report leaked.

8th December 2016 – CSIRO publishes The Search for MH370 and Ocean Surface Drift.

21st December 2016 – Mick Gilbert publishes An Analysis of MH370's Flight Path Between Waypoint IGARI and the top of the Malacca Strait, a Review of Potential Vulnerabilities

Specific to Airplane 9M-MRO and a Hypothesis Regarding Possible In Flight Events and an End-of-Flight Scenario.

2017

17th January 2017 – Fugro ends the Underwater Search for MH370.

27th January 2017 – Right Wing No. 7 Flap Support Fairing Debris found in South Africa by a Local.

7th February 2017 – Ian Holland publishes The Use of Burst Frequency Offsets in the Search for MH370.

13th April 2017 – CSIRO publishes The Search for MH370 and Ocean Surface Drift Part II.

26th June 2017 – CSIRO publishes The Search for MH370 and Ocean Surface Drift Part III.

9th September 2017 – RNZAF releases 204 Pictures of Floating Debris taken during the Aerial Search.

3rd October 2017 – ATSB publishes a Final Report entitled The Operational Search for MH370.

3rd October 2017 – CSIRO publishes The Search for MH370 and Ocean Surface Drift Part IV.

22nd October 2017 – Bobby Ulich publishes Predicted MH370 Range and Endurance Using Fuel Model V5.4.

7th December 2017 – Ocean Infinity Conference in London.

2018

7th January 2018 – Ian Holland publishes MH370 Burst Frequency Offset Analysis and Implications on Descent Rate at End-of-Flight.

21st January 2018 – Ocean Infinity restarts the Underwater Search for MH370.

8th June 2018 – Ocean Infinity ends the Underwater Search for MH370.

28th June 2018 – Geoscience Australia release the MH370 Underwater Search Data.

30th July 2018 – Malaysia publishes the Safety Investigation Report for Malaysia Airlines Boeing B777-200ER (9M-MRO).

20th August 2018 – Panel Debris found in Madagascar by Fisherman.

2019

17th February 2019 – Richard Godfrey publishes How to play Russian Roulette and Win.

4th June 2019 – Niels Tas publishes MH370 Path Reconstruction based on Polynomial Interpolation of BTO and BFO derived Data.

24th June 2019 – Richard Godfrey (with Bobby Ulich and Victor Iannello) publishes Blowin' in the Wind.

2020

7th March 2020 – Richard Godfrey (with Bobby Ulich, Victor Iannello and Andrew Banks) publishes The Final Resting Place of MH370.

5th April 2020 – Steve Kent publishes The Covariance Matrix and the Route Parameters for the Flight Path of MH370.

30th May 2020 – Niels Tas publishes MH370 Path Generation by (BTO only) Polynomial Following.

2021

1st January 2021 – Richard Godfrey publishes MH370 Floating Debris – Drift Analysis.

22nd March 2021 – Dr. Robert Westphal publishes Geocaching in the Ionosphere – WSPRnet Technology.

4th April 2021 – Richard Godfrey publishes Using the WSPRnet and Inmarsat Satellite data in the search for MH370.

28th August 2021 – Richard Godfrey publishes GDTAAA Test Flight from Samoa to Adelaide.

9th September 2021 – Richard Godfrey publishes WSPRnet Propagation Technical Analysis.