**CAPTAIN'S FLIGHT SIMULATOR FILES (V5)**

The purpose of this draft document is to create a list of facts (for the MH370 Captain's Flight Simulator Data.

This could help in working out a possible link between the reported data and the MH370 mystery.

Please see Appendix A.

## Appendix A.

**This is the provisional list of some of the facts relating to the MH370 Captain's flight simulator data.**

| Fact number | Details | Comments |
|---|---|---|
| 1 | The flight simulator was taken away from the captain's home 7 days after the aircraft went missing 8/3/2014. This would mean the Malaysian police arrive at his residence on 15/3/2014 | |
| 2 | The plots points that was reported in the official report that seemed to have a similar route as per the route derived from the Inmarsat satellite data were located as shown in Appendix B. | |
| 3 | The plot points found on the Captain's Flight simulator are shown in Appendix 'C' | |
| 4 | The Captains Flight simulator session was over a 72 minute period and very likely dated 2nd February 2014. This would be 34 days prior the aircraft went missing. The Flight files held by the Australian Transport Safety Bureau (ATSB) have no date/time stamp so the 2nd February 2014 cannot be definitively confirmed as is possible to amend this parameter. However as there is generally no reason to change it then it extremely likely this is the correct date. | This was gleaned from the [DateTimeSeason] field from the recovered flight files.<br>All had Day=33, Year=2014 and Season= Winter.<br>The time ranges were from 15:26 to 16:38.<br><br>Note, this information was redacted from the released data but the that Australian Transport Safety Bureau (ATSB) kindly verbally provided this information to one of the MH370 researchers. |
| 5 | Large amounts of the reported flight simulator data has been redacted in the RMP report. The original data e.g. '[DateTimeSeason]' etc has been replaced with other data for example:<br><br>Õ!∏∑LÕ!This progra<br>m cannot be run in DOS mode.<br><br>However it has been confirmed that Australian Transport Safety Bureau (ATSB) has all the data. | It is strange why files from a flight simulator game has large amounts of data redacted and replaced mainly by non Ascii characters (i.e. gibberish). |

| Fact number | Details | Comments |
|---|---|---|
| **6** | **It has been shown the fuel levels when the aircraft was deep into the Southern Indian Ocean were set to zero by the user (See Table 1 - Files E and F).**<br><br>**This could be done by either manually setting the fuel levels to zeroes or possibly by using the flight simulator fuel dump option.** | **However whatever method was used it shows the user purposefully creating the situation where the engines would flame out due to lack of fuel. Therefore the aircraft if it was continued to be flown would have had to ditch deep into the Southern Indian Ocean.** |
| **7** | **The ATSB have verbally confirmed the time duration between file D(10N) and File E (45S) was roughly 42.5 minutes.**<br>**This could ADD weight to the user using the Fuel Dump feature to get rid of all the fuel (See 6 Above). The reason being the simulator fuel usage plus dump rates could reduce the fuel levels to zero in that time frame.** | **To Dump fuel uncage the two dump valves. Rotate fuel to remain knob to 1000 lbs (= 454 KG) and pull out.** |

## Appendix B - Where were the plot points found etc.

| Fact no | Sub-Fact_Id | Details | Comments |
|---|---|---|---|
| 2 | A | A PC with an Intel Core I7 CPU | |
| 2 | B | Windows 7 operating system (Ultimate edition) | |
| 2 | C | Flight simulator used was Microsoft Flight Simulator 2004 | |
| 2 | D | The add on aircraft used was a Phoenix Simulation Software Boeing 777 Professional. | |
| 2 | E | The disk the files were found on was a Sandisk 240 Gigabyte SSD. This was an offline disk (i.e. not connected to the computer).<br>It was referred in the report as MK25. | |
| 2 | F | The report specifically states that all the plot points were found in the Windows 7 backup area. This is called the Volume Shadow Copy. | |
| 2 | G | All the plot points were saved with the same Volume Shadow Copy Shapshot ID which is ' OOd7ef6c-8bcb-11e3-b3f7-ee8a9181afad - 3808876b-cl76-4e48-b7ae-04046e6cc752. | |

## Appendix C - Details on plot points that have a similar path as per the satellite derived route.

| Fact no | Sub-Fact_Id | Details | Comments |
|---|---|---|---|
| 3 | A | See Table 1 below for the plot point details. | |
| 3 | B | All the files in table 1 below that are of type ' Program generated temporary flight' were not manually created by the user. Instead the when using the MAP function to move the aircraft or change its altitude etc they are automatically created by the flight simulator. For this simulator session they are Referenced by 'B,C,D and E'. | |
| 3 | C | All the these temporary files (B,C,D and E) are stored in the same directory and all have the same file name 'Program generated temporary flight'.<br><br>This means the prior temporary file will be deleted and new one created when the user moves the aircraft with the MAP function (with the same name).<br><br>When the user ends the flight simulator session the last temporary file will be deleted.<br><br>Therefore if you look in the directory after the flight simulator session has terminated where these temporary files are stored there will be none present. i.e. you will not see File B, C, D or E. | |
| 3 | D | So just covering the temporary files (B,C,D and E) they were all said to be found in the Windows 7 backup area (Volume Shadow Copy).<br><br>Therefore for that to occur it must be possible for the volume shadow copy process to be able to backup up all the temporary files (B,C,D and E) during his 72 minute flight simulator session.<br><br>Please See Fact 2/ Sub-Fact_Id G above. | |

## Table 1 - Plot Points taken from Volume Shadow Copy Area

| Ref-erence ID | Approx Latitude/Longitude | Altitude (ft) | Fuel | Flight file Type | Comments |
|---|---|---|---|---|---|
| A | N2 44'/E101 43' | 70 | 100% | Previous Flight | |
| B | No Data *Note 1 | No Data | No Data | Program generated temporary flight | Aircraft position etc missing from the file. |
| C | N5 06'/ E98 35' | 32,245 | 99% | Program generated temporary flight | |
| D | N10 10'/E90 13' | 40,003 | 99% | Program generated temporary flight | |
| E | S45 05'/E104 08' | 37,651 | 0% | Program generated temporary flight | |
| F | S45 07/E104 08' | 3999 | 0% | Unknown | |

Note references to RMP report are as follows: A=6,B=1,C=2,D=3,E=4 and F=5.

Note 1

It appears in one version of the RMP report the it contains an entry with latitude/longitude is N 3 24' / E100 53'. In another version it appears this entry is missing.

See entry no 2 in Appendix D - Parameters derived from the Raw Simulator Data.

# Appendix D - Parameters derived from the Raw Simulator Data.

*Table 1. Parameters Derived from the Raw Simulator Data*

| | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Latitude | (deg) | 2.7480 | 3.4151 | 5.1116 | 10.1831 | -45.0852 | -45.1277 |
| Longitude | (deg) | 101.7223 | 100.8856 | 98.5879 | 90.2245 | 104.1455 | 104.1408 |
| Altitude | (ft) | 70 | 23,247 | 32,246 | 40,003 | 37,651 | 4,000 |
| Heading | (deg) | 326.2 | 305.3 | 314.8 | 255.5 | 178.2 | 193.0 |
| Ground Speed | (kt) | 0.0 | 403.1 | 433.6 | 469.5 | 363.8 | 195.1 |
| Vertical Speed | (fpm) | 0 | 3,507 | 1,456 | 3,570 | 663 | 2,029 |
| Turn rate | (deg/s) | 0.000 | 0.000 | 0.001 | -0.888 | 0.584 | 0.169 |
| Center Tank Cap | (lb) | 182,840 | 182,840 | 182,840 | 182,840 | 182,840 | 182,840 |
| Right Tank Cap | (lb) | 69,010 | 69,010 | 69,010 | 69,010 | 69,010 | 69,010 |
| Left Tank Cap | (lb) | 69,010 | 69,010 | 69,010 | 69,010 | 69,010 | 69,010 |
| Center Tank Fuel | (lb) | 27,426 | 19,830 | 18,243 | 14,233 | 0 | 0 |
| Right Tank Fuel | (lb) | 69,010 | 69,010 | 69,010 | 69,010 | 0 | 0 |
| Left Tank Fuel | (lb) | 69,010 | 69,010 | 69,010 | 69,010 | 0 | 0 |
| Total Fuel | (lb) | 165,446 | 157,850 | 156,263 | 152,253 | 0 | 0 |
| Fuel Level | (%) | 51.56 | 49.20 | 48.70 | 47.45 | 0.00 | 0.00 |

## Appendix E - Summary of Facts/Sub-facts

| Fact no | Sub Fact | Summary |
|---|---|---|
| 1 | N/A | Date flight simulator taken away |
| 2 | A | PC Type |
| 2 | B | Operating System |
| 2 | C | Flight Simulator |
| 2 | D | Add on Aircraft |
| 2 | E | SSD data found on |
| 2 | F | Where flight files were located |
| 2 | G | All temporary files saved with same Snapshotid |
| 3 | A | Plot point details |
| 3 | B | Temporary files created automatically |
| 3 | C | End of flight sim session all Temporary flight files deleted |
| 3 | D | Volume Shadow copy would need to backup all temporary flight files |
| 4 | N/A | Likely Date and duration of flight simulator session |
| 5 | N/A | Some flight file data was redacted in the report |
| 6 | N/A | Fuel levels were set to zeroes |
| 7 | N/A | Time between file D (10N) and E (45S) was confirmed to be around 42.5 minutes. |