

# SUNlite

Shedding some light on UFOlogy and UFOs

*I'm embarrassed to say that the brilliant light we watched moving across the sky turned out to be the ECHO balloon satellite, seen under rather unusual circumstances. Also, Stanley and I were in a rather exalted mood, and perhaps not as critical as we should have been.*

Arthur C. Clarke (Greetings, Carbon-Based Bipeds!)

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## Spring cleaning

Cover: This image of Cosmos 1943's rocket body traveling through Coma Bernices is typical for many bright satellites. It was about magnitude +2 during this pass. A satellite was the cause of the Blue Book unknown I address in this issue's 701 club.

Left: James Easton has restarted his "UFO research" forum on Facebook. One of the first items he posted were some "colorized" versions of the infamous Jesse Marcel Fort Worth photographs. I believe the colorization brings out some interesting details. It looks like some of the materials (probably the old balloon fragments) came out of a paper bag laying on the floor behind Marcel. The ML-307 fragments had been wrapped up in the paper on the floor.

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There has been some news about the Advanced Aerospace Weapon System Application Program (AAWSAP) and the Advanced Aerospace Threat Identification Program (AATIP). [Thanks to John Greenwald, and others, it seems that most of the money that was allocated to the program was given to Robert Bigelow for his research.](#) I personally believe that it was a waste of money since all it did was line the pockets of Bigelow, and others, for little gain. The research papers were nothing more than a UFOlogy's "greatest hits" collection. However, this expenditure of funds demonstrated one thing. That being, the great UFO cover-up does not exist. If the US government really did know that UFO reports represented something unknown to earth, there would have been no need to waste money on such research.

Of course, the great UFO conspiracy still has Roswell as its centerpiece. One of the chief architects of the Roswell myth, Kevin Randle, [started his annual "Mogul Offensive"](#). Kevin likes to think he has proven things as absolute fact but does not realize he is only presenting his interpretation of what is known. There are other interpretations. For instance, he commonly states flight #4 was "canceled" based on Crary's journal entry. Ignoring all the other rebuttals I have made about this interpretation, I have one simple point that appears to be ignored, "If flight #4 was canceled, why is the next day's flight called flight #5?" The answer would probably sound like, "Well they simply chose to use the next number because that flight had been canceled and was never flown." That sounds reasonable but then we have to wonder about the flight that was assembled but canceled on June 3, the day before flight #4's scheduled release. Why didn't they number that flight #4? The obvious reason is because, as Randle probably realizes (but is afraid to admit), flight #4 was launched and it was the "cluster of balloons with a microphone" mentioned by Crary in the same entry where he stated the flight had been canceled. Why else do you put a microphone on a bunch of balloons if you aren't going to attempt to perform a controlled flight? I have spent several issues of SUNlite debunking most of Randle's arguments about flight #4 and I am not going to repeat them here. I suggest readers go back to SUNlite 5-5, where I summarized my rebuttals.

James Easton has surfaced on Facebook. For those who remember James, he had a discussion group with the title of "UFO research" back in the late 1990s. James did a lot of research in the late 90s regarding UFO cases. Most notable was his work on Rendlesham and the Arnold sighting. His [Voyager newsletter](#) was something I always looked forward to reading. Hoping to resurrect the interest in discussing these topics, he has started a discussion group, with the same name, on Facebook. His first major discussion involved Roswell with James posting colorized versions of the Fort Worth photographs. I really don't see much of anything new being discovered with regards to Roswell. That ground has been plowed over and over. The crashologists are entrenched and so are the skeptics. Without a time machine, nobody is ever going to change the other side's opinion no matter what approach is made. I hope that the research group might move onto a different topics that have not been examined closely.

[Finally, Mick West put together a video regarding the Gimbal footage that is "must watch" for UFO enthusiasts.](#) In that video, West discusses four "observables" in the video, which cannot be denied. The observables demonstrate that the object's shape is glare and any rotation has to do with the camera system and not the target. It takes over twenty minutes to watch but it is well worth it.

# WEEDING OUT THE WEINSTEIN CATALOG

May 24, 1952 - Zuni, New Mexico<sup>1</sup>

52.05.24	01:27LT	USA	Zuni, New Mexico	A	a TWA airliner pilot	two reddish torpedo-shaped objects appeared directly in front of the airliner					13.10
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This is another Blue Book case with no other source of information.

## Blue Book

Blue Book classified this as a meteor. They had the following information about the sighting:

- Two objects were visible in formation
- The object(s) were visible for 15 seconds
- It was visible at 0827Z on the 24th of May, 1952
- The pilot's aircraft was traveling towards an azimuth of 50 degrees.
- The object(s) appeared in front of the aircraft and traveled towards the south.
- They traveled an arc of 60 degrees and then disappeared.
- They had an elevation of 45 degrees and descended slowly.
- The object(s) were described as two reddish torpedoes with no distinct center.

## Analysis

This sighting has all the characteristics of a meteor. The object(s) did not change direction. The two objects traveled together. They lasted a short period of time and then "disappeared". The description of their speed was fast. The only issue appears to be that the pilot reported two objects instead of one. Of course, this can be explained as a meteor breaking up/fragmenting, which is a common observation for fireball meteors.

## Conclusion

I see no reason to reject Blue Book's explanation for this case and it can be considered a fireball meteor. It should never have been placed on the list in the first place. I noticed that Brad Sparks also listed this case in his Blue Book unknowns.<sup>3</sup> It is not clear if he copied Weinstein or Weinstein copied him. This case should be removed from any UFO list.

## Notes and references

1. Weinstein, Dominique F. Unidentified Aerial Phenomena: Eighty years of pilot sightings. NARCAP. February 2001. P. 18
2. "Case file - Zuni, New Mexico May 24, 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9614031>
3. Sparks, Brad. Comprehensive Catalog of 1,700 Project Blue Book UFO Unknowns: Database Catalog Not a Best Evidence List -NEW: List of Projects & Blue Book Chiefs Work in Progress Version 1.30. Jan. 26, 2020. P. 134

# May 17, 1958 - Ft. Lauderdale, FL

May 17, 1958--Ft. Lauderdale, Florida. UFO sped away when light was shone at it. [III]<sup>1</sup>

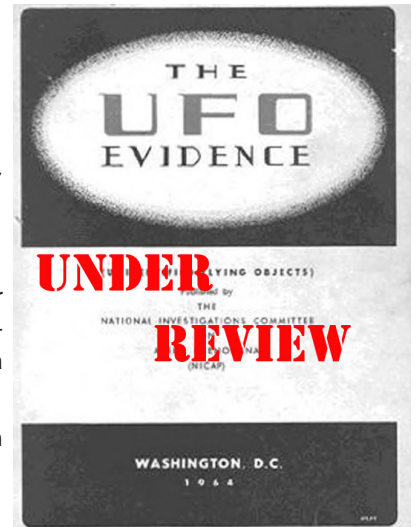
Section II lists no source but gives the following description:

*Approached from N at low altitude; high- powered spotlight turned on it, UFO flared brilliantly, shot out of sight.<sup>2</sup>*

## Blue Book file<sup>3</sup>

Blue Book has a file for the 18th that matches this description. It was seen shortly after midnight (5/17-18), describes the high powered spotlight and even matches the two observers (a man and his son). It is probably the same sighting. It was listed as "insufficient data for analysis". The particulars of the sighting are as follows:

- It was described as cigar-shaped when it was horizontal and triangular shaped when vertical.
- It was dull orange but changed to white when it altered direction.
- It was first observed at 5-10 degrees elevation due north.
- It was last observed at 80 degrees elevation to the north.
- It was seen coming directly towards the observers. They shined a spotlight on it and the object went into a steep climb before disappearing.



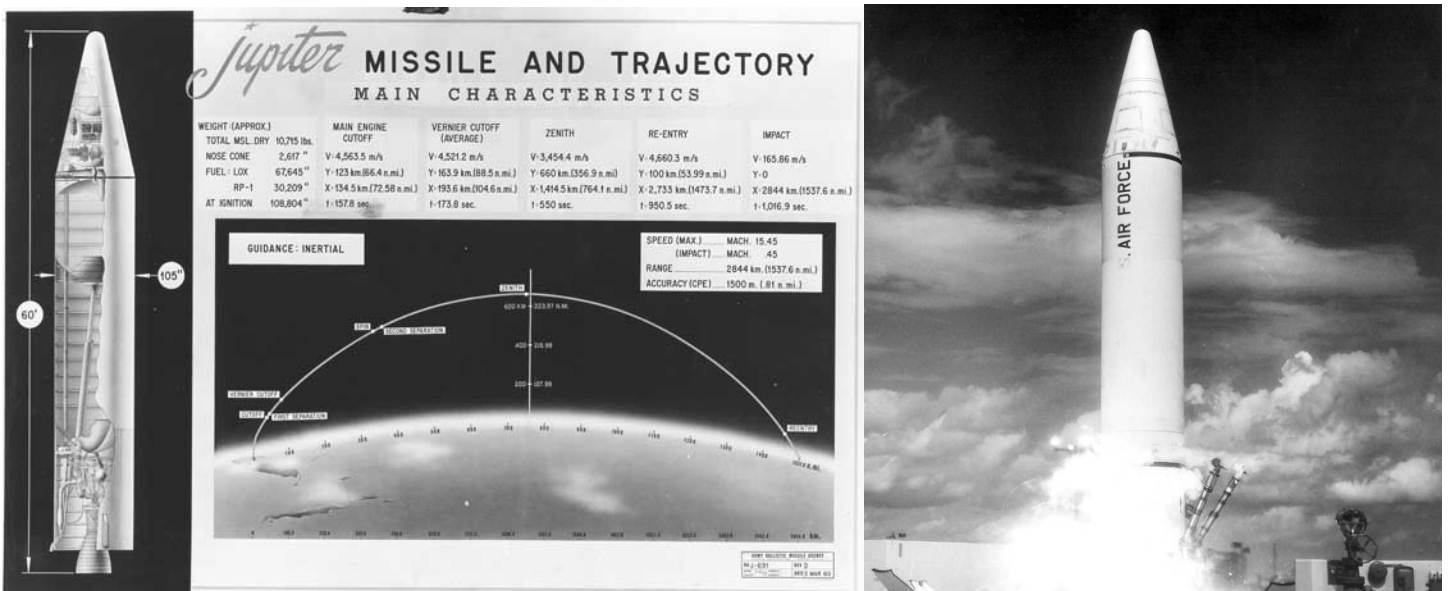
## Analysis

I had previously evaluated this case, as part of my Blue Book review in SUNlite 11-6, as a probable aircraft. After closer examination, it seems that I was in error. The Fort Lauderdale area is roughly 140 miles south of Cape Canaveral. That fact made me wonder if some missile activity might explain the event. Astronautix lists the following<sup>4</sup>:

*1958 May 18 - . 05:05 GMT - . Launch Site: Cape Canaveral. Launch Complex: Cape Canaveral LC26B. LV Family: Jupiter. Launch Vehicle: Jupiter IRBM.*

- *Gaslight Re-entry Vehicle test - . Nation: USA. Agency: NASA Huntsville, USAF. Apogee: 500 km (310 mi).*

*AM-5, carrying America's first tactical type re-entry nose cone, was fired from AMR at 0005 hours EST. This was also the first flight test. for first and second stage separation. Impact was 28.3 nm under and 15.6 nm to the right at a range of about 1,275 nm after approximately 960 seconds of flight. In less than five hours, the nose cone was recovered - the world's first recovery of an IRBM nose cone.*



A Jupiter missile's boost phase lasted about 158 seconds and the vernier engines cutoff around 174 seconds. This all happened between 80 and 120 miles altitude. For a distance of 140 miles, the angle of elevation would be between 30 and 40 degrees.

Considering the limitations of an observers ability to accurately measure elevation angles, one can assume that it is possible the witness overestimated the angle of elevation. Additionally, shining the light at the object had little to do with it disappearing. The important point was the witnesses were looking north at the time of the rocket launch and did not see it. Instead, they saw a UFO that had all the characteristics of a rocket launch. The following image of an Atlas V rocket launch during the boost phase, prior to



booster separation at 100 seconds, is "cigar shaped" when it started to move down range.

### Conclusion

There is no good reason to dismiss the possibility that the source of this sighting was the Jupiter missile launch. The witnesses were looking north towards Cape Canaveral, they saw the UFO at the same time as the rocket launch, and their description is consistent with a rocket launch. I would classify this as "Jupiter rocket launch" and remove it from the best evidence category.

#### Notes and references

1. Hall, Richard M. (Ed.) The UFO evidence. The National Committee on Aerial Phenomena (NICAP). New York: Barnes and Noble. 1997. P. 137
2. *ibid.* P. 12
3. "Case file - 23 miles SE of Belle Glade, Fla May 17, 1958. ". Fold 3 web site. Available WWW: <https://www.fold3.com/image/7228152>
4. "1958 Chronology". Astronautix web site. Available WWW: <http://www.astronautix.com/1/1958chronology.html>

# THE 701 CLUB: CASE 7437, JUNE 2, 1961 MIYAKO JIMA AFS, JAPAN

D on Berliner's describes the case as follows:

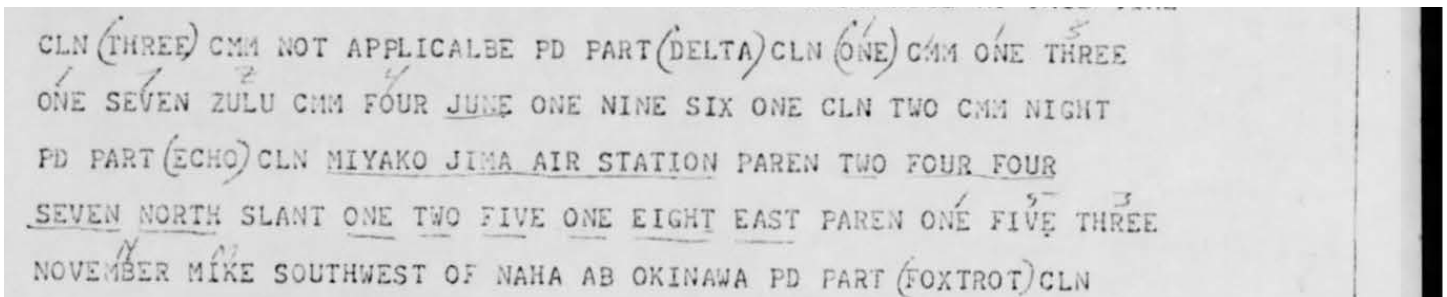
June 2, 1961; Miyako Jima, Japan. 10:17 P.M. Witnesses: 1st Lt. R.N. Monahan and Hazeltine Electric Co. technical representative D.W. Mattison. One blue-white light flew erratic course at varying speed, in an arc-like path for 5 minutes. <sup>1</sup>

Sparks' entry is basically a repeat of Berliner's and adds nothing in the way of new information. <sup>2</sup>

## The Blue Book file

The Blue Book file consists of just the message from Miyako Jima AFS. <sup>3</sup> The record card reflects most of what Berliner wrote. However, the message revealed some information that explains the sighting:

- The numbers were written out (as is common in some message traffic). Apparently, there was a transposition error and the actual date was NOT June 2. The message containing the date and time actually reads: "...ONE THREE ONE SEVEN ZULU CMM FOUR JUNE ONE NINE SIX ONE..." Numbers were written above the words and the number "4" is over FOUR but somebody at Blue Book goofed and decided it was 2 June. Confirming a later date was the fact that the message was sent on 5 June indicating it was more likely the event happened on the evening of the 4th.



- The object was first seen at an azimuth of 350 degrees. It was last seen at an azimuth of 190 degrees with an elevation of 60 degrees.
- The speed was described as "appeared to be erratic".
- The end of the sighting was described as: "It appeared as if somebody turned off the light".
- The duration was five minutes.

## Analysis

All of the descriptions match what one would expect of a satellite observation. When I first checked this sighting using Heavensat, I used the 2 June date. The only thing that was close was an Altair rocket body from the Echo launch. However, this bit of debris never gets very bright (it is still in orbit) so I really did not have a good solution. I then thought the time listed may have been wrong so I checked the message closely. That was when I discovered the date was wrong. After running the numbers with an Echo TLE that was only a few days old, a better candidate for the sighting appeared.

The Echo satellite made a pass around 1300Z (Japan is GMT +9), which was only 17 minutes before the event in question. This was pretty close in time. The track was also similar (see next page). It rose in the NW and disappeared in the south.

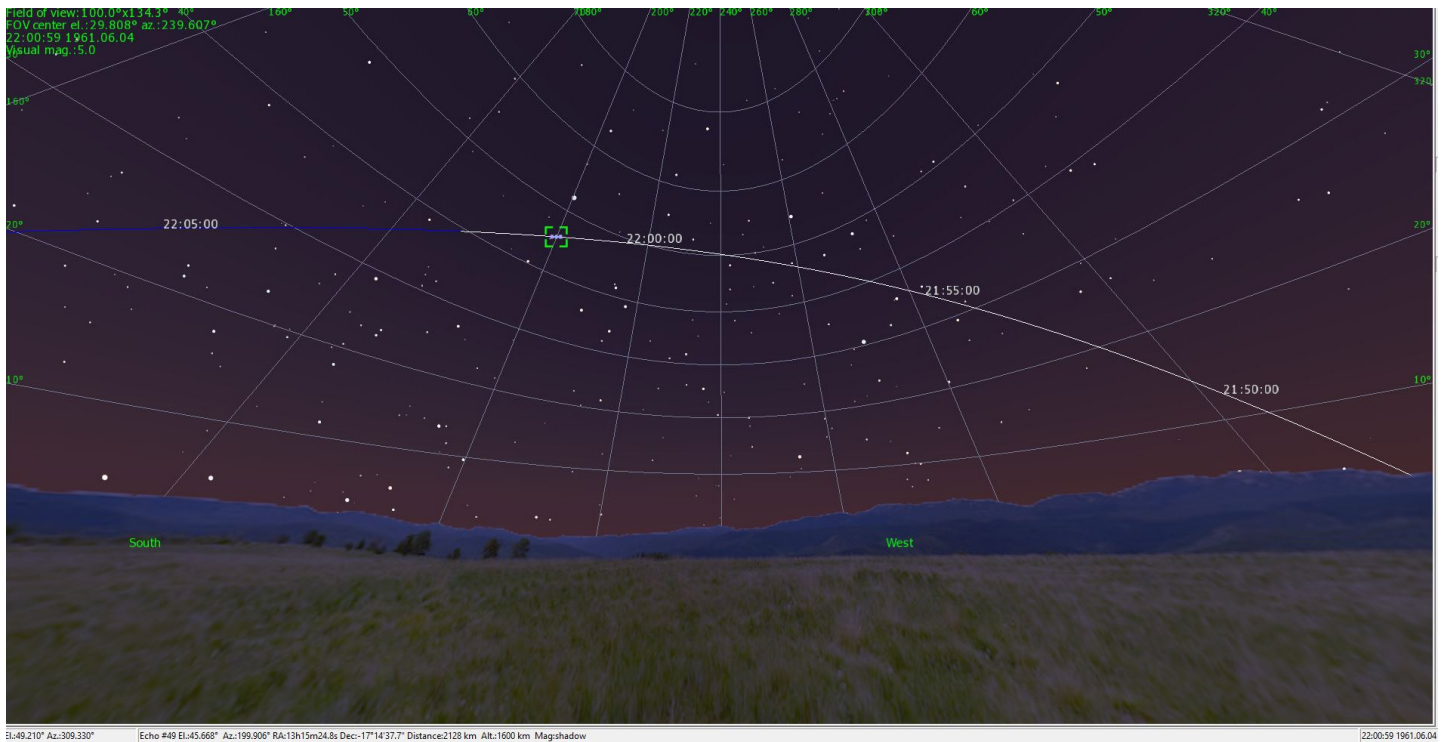
There were three discrepancies between the report and the Echo pass. The first has to do with the track. Comparing the observed an Echo's track, we see some slight differences that can be explained as observer error:

	Initial Azimuth	Elevation	Final Azimuth	Elevation
Reported	350	not listed	190	60
Echo	Approx 310	0	Approx 190	Approx 40

Additionally, the witness reported the duration of the pass was 5 minutes. This pass lasted 15 minutes. It is possible the witness only saw the last five minutes of the pass and approximated the point of origin as being near 350 based on what they had observed. The disappearance position is pretty close and the description of it entering earth's shadow is pretty accurate.

A third issue with the explanation is the time of the event. There is a difference of about 15-17 minutes between the reported time and the Echo satellite passing into Earth's shadow. That could be explained as when the incident was reported to the command and not the actual time of the event. It is also possible the witness just reported the time wrong for various reasons. I don't consider 15-17 minutes to be that significant an issue with this explanation.

The reader has to remember that this was 1961 and satellite observations were not very common. Echo, the brightest satellite at



the time, had been launched less than a year before and was producing UFO reports in the United States despite newspapers listing the times of visible passes. It would be no surprise that individuals overseas would not be aware of the times for each pass and, as a result, report it as a UFO.

It is important to note that both Sparks and Berliner describe the course as erratic but that is not what the message states. It never mentions an erratic course. The message states only the speed appeared erratic. It is the record card that added the "erratic course" comment. Like the date, there seemed to be some sort of transposition error. Even if they did report an erratic course and speed, it is not unusual for observers to think a satellite is moving erratically in course and/or speed. This is sort of an extension of the auto-kinetic effect. The only difference is that the light source is moving instead of being stationary.

### Conclusion

This case was difficult until the date was corrected. At that point, the Echo satellite became a prime candidate for this sighting. In my opinion, this case can be explained as probably the Echo satellite and should be removed from the list of the unidentifieds.

#### Notes and references

1. Berliner, Don. "The Bluebook Unknowns". NICAP Available WWW: <http://www.nicap.org/bluebook/unknowns.htm>
2. Sparks, Brad. Comprehensive Catalog of 1,700 Project Blue Book UFO Unknowns: Database Catalog Not a Best Evidence List –NEW: List of Projects & Blue Book Chiefs Work in Progress Version 1.30. Jan. 26, 2020. P. 288
3. "Case file - Miyako Jima AFS June 2, 1961". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8689151>

## Project Blue Book case review: July-August 1965

This is the latest edition of the Project Blue Book case review covering July and August 1965. Like the previous evaluations, I tried to examine each case to see if the conclusion had merit. I added comments to help clarify the explanation or if I felt it was not correct or adequate. There are three sightings that are marked with an asterisk. They contain multiple sightings which are examined in separate tables.

### July 1965

Date	Location	BB explanation	My evaluation
Jul	Racine, WI	Aircraft	Unreliable report. 11-year old reporting in April 1967.
1	Manitoba, Canada	Meteor	Agreed
1	Des Plaines, IL	1. Aircraft 2. Arcturus	Agreed
2	South Africa	Meteor	Agreed
2	Gunneson National Monument, NM	Satellite	Agreed. Echo 1.
2	Jemez Springs, NM	Aircraft	Agreed
3	Carlton, MI	Satellite	Agreed. Echo 1.
3	Lebanon, OH	Aircraft	Agreed
3	Rochester, MN	Balloon	Agreed
3	New Milford, CT	Insufficient data	Aircraft at sunset
4	Columbus, OH	Insufficient data	Agreed. Witness phoned in report but never gave specifics or filled out report form.
4	Dayton, OH	Satellite	Agreed. Echo 1
4	Massillon	Fireworks	Agreed
4	Taiwan	1. Balloon 2. Aircraft	Inconsistent data. Card indicates it was daylight but time listed (1900Z) indicates about 0300 local. No accompanying information to resolve issue.
4	Bloomsburg, PA	Aircraft	Agreed. 11.5 -year old
4	Arlington, MA	Satellite	Agreed. Echo 1. 13-year old
5	Lake Michigan	Insufficient data	Agreed. Witness sent letter but did not return report form. Description was too brief.
5	Chicago, IL	Unreliable report	Possible aircraft reflection. Seen at sunset. Investigator classified as unreliable because of witness stating that somebody was signaling SOS to object with light from a nearby hospital. Data is also conflicting. Time listed as 0100Z but report states it was dark. Sunset around 0120Z.
5	Xenia, OH	Aircraft	Agreed
5	Independence, MO	Satellite	Agreed. Echo 1.
5	Bellingham, WA	Satellite	Agreed. Possibly Cosmos 58 or Cosmos 58 RB.
6	McKeesport, PA	Aircraft	Agreed. Hynek investigated and could not identify. Note on the record card states that it was a refueling operation, with a specific track number, and not helicopters.
6	Nicosia, Cyprus	Balloon	Agreed
6	Fossil, OR	Insufficient data	Agreed. Description of flight path limited and no follow-up investigation.
6	Arlington, TX	Aircraft	Radar contact probably light aircraft. Visual was probably Echo 1 satellite
6	Kiel, WI	UNIDENTIFIED	UNIDENTIFIED



8	Cincinnati, OH	Satellite	Insufficient data. No time listed. Possibly Echo 1, which made a pass similar to the described path.
8	Peru, IN	Aircraft	Agreed
8	San Lorenzo Island (pacific)	Insufficient data	Conflicting data. Position does not reflect location of San Lorenzo island. Possible meteors
9	Dayton, OH	Satellite	Agreed. Echo 1.
11	Dayton, OH	Insufficient data	Agreed. Witness' description was not very good. Time listed was a range of time between noon and 1615. It could have been a balloon.
11	Summerset, PA	Aircraft	Agreed. Second observation, not listed on record card, was possible balloon with package.
11	Dayton, OH	Satellite	Agreed. Echo 2.
12	Taiwan	Satellite	Agreed. 1. Saturn RB 2. Echo 1 3. Pegasus 2 4. Echo 2
12	Dayton, OH	Balloon	Agreed
12	WV, MD, OH, PA	Balloon	Agreed. Source was balloon launched from Fort Churchill, MB.
12	Xenia, OH	Insufficient data	Agreed. Data is not specific
12	McArthur, OH	Satellite	Agreed. Echo 1.
12	Union City, OH	Satellite	Agreed. Either Explorer 19, Cosmos 58, or Cosmos 58 RB.
12	Dayton, OH	Aircraft	Agreed
12	Dayton, OH	Arcturus	Agreed
12-21	Xenia, OH	Venus/Regulus	Venus and Mercury. Drawings/azimuth-elevations in report form demonstrate that what was observed was these two planets and did not involve Regulus (which was nearby).
13	Chicago, IL	Aircraft	Agreed
13	Blauvelt, NY	Reflection of moon	Agreed. Best described as Moon through fog. Report by 13 year old.
13	Englewood, OH	Aircraft	Agreed
13	Toronto, Canada	Satellite	Agreed. Echo 1. Note: Zulu time incorrectly calculated because Toronto used DST not standard time.
13	Burlington, MA	Insufficient data	Possibly Explorer 19. Witness appears to have been 10-14 years old.
13	Smyrna, TN	Satellite	Aircraft
13-14	OH, PA	Balloon	Agreed. Source was balloon launched from Fort Churchill, MB.
14	Chicago, IL	Saturn	Agreed
14	Charleston, SC	Satellite	Agreed. Echo 1.
15	Dayton, OH	Satellite	Agreed. Echo 1.
15	Sweet Home, OR	Satellite	Agreed. Echo 1.
16	Howell, UT	Mirage	Possible moon. Object came from south heading towards observer. It approached Thikol plant, hovered and receded. This happened two more times over a two minute period. Shape similar to moon on two of the sightings. Moon in position at time of sighting. Witness did not note on form if moon was visible or not (although there is a mark near "no moon light" but it was not circled). Moon to south in direction witness reported objects appearing each time. Witness also indicated it was clear with some clouds and a few stars were visible. Hill AFB, 50 miles to SE, reported overcast. It is possible that he was viewing the moon peaking in and out of a cloud layer.
16	Dayton, OH	Venus	Agreed
16	Presto, PA	Aircraft	Agreed

16	Crystal Lake, OH	Aircraft	Agreed 14-year old
16	Dudley, MA	Regulus	Arcturus (BB originally suggested this but chose Regulus because it was setting but Arcturus is a more correct evaluation).
16	Chicago, IL	Aircraft	Agreed
16-17	Bermuda	Satellite	Agreed. Pegasus 2.
17	Glencoe, MN	Aircraft	Agreed
17	Burbank, CA	Reflection	Agreed. Visual sighting could have been contrail.
17	Richmond, MO	Satellite	Agreed. Pegasus 2.
17	Raytown, MO	1. Satellite 2. Altair	1. Agreed. Echo 1. 2. Agreed
18	Greenville, OH	Satellite	Agreed. Two sightings. First of Echo 1. Second of Echo 2.
18	Dayton, OH	Satellite	Agreed. Echo 1.
18	Vandalia, OH	Aircraft	Agreed
18	Miamisburg, Dayton, OH	Satellite	Agreed. Echo 1.
18	Vandalia, OH	Satellite	Agreed. Echo 1.
19	Dayton, OH	Ground light	Agreed
19	West Carrollton, OH	Satellite	Agreed. Explorer 19.
19	Dayton, OH	Satellite	Agreed. Echo 1.
19	Eastlake, OH	Satellite	Agreed. Echo 1. (NOTE: Eastlake observed DST, which caused incorrect Zulu time on record card).
20	Roswell, NM	Star/Planets	Agreed. Arcturus and possibly Vega. (BB listed Capella as a possible source for second object but Capella had not risen yet)
20	West Fairview, PA	Aircraft	Agreed
20	Dayton, Kettering, OH	Satellite	Agreed. Pegasus 2. Other observation on record card with no classification was a possible meteor.
20	Kettering, OH	Satellite	Possible meteor. 15-year old
20	Centerville, OH	Aircraft	Agreed
20	Pittsburgh, PA	Satellite	Insufficient data. No course given. No supporting documentation with record card.
21	Far East	Meteor	Agreed
21	Bohemia, MD	Insufficient data	Agreed. Letter written by teen/pre-teen claiming to have seen flying saucer with no specifics.
21	Monticello, NY	Aircraft	Agreed
21	Corpus Christi, TX	Balloon	Two objects seen. Too late for research balloon. Satellites Saturn 1RB and Echo 1 made pass with both being close together and following similar track.
22	Forbes AFB, KS	Parahelia	Agreed
22	Pittsburgh, PA	Meteor	Agreed
22	Heidelberg, PA	Meteor	Agreed
22	Dayton, OH	Meteor	Agreed
22	Normal, IL	Aircraft	Possibly Cosmos 42 rocket body
23	Kelso, WA	Satellite	Agreed. Possibly Proton 1 (Zulu Time on record card does not account for DST). Letter from teen/pre-teen.
24	Lincoln, NE	Aircraft	Satellites. Proton 1 and Pegasus 2
24	Anacortes, WA	Meteor	Agreed
25	Pittsburgh, PA	Insufficient data	Agreed. The only information was a paragraph about multiple observers reporting lights.

25	Gales Ferry, CT	Insufficient data	Agreed. Witness did not provide duration of event in phone call. Did not return form.
25	Bloomingsburg, NY	Aircraft	Agreed. 11 and 13-year old
25	Dayton, OH	Meteor	Agreed 12-year old.
25	Clinton County, OH	Aircraft	Possibly Echo 1 satellite.
25	Battle Creek, MI	Satellite	Agreed. Echo 1 and Pegasus 2.
25	Dayton, OH	Satellite	Agreed. Echo 1.
25	Castalia, OH	UNIDENTIFIED	UNIDENTIFIED
25	Truax Field, WI	Aircraft	Agreed
25	Bruni, TX	Satellite	Agreed. Proton 1.
25	Winnetka, IL	Satellite	Agreed. Proton 1.
25	Dayton, OH	Satellite	Agreed. Proton 1. 14-year old.
25	Chicago, IL	Satellite	Agreed. Proton 1
25	Dayton, OH	Insufficient data	Echo 2
26	Cumberland, MD	1. Poor photo processing 2. Insufficient data	1. Agreed. Image is over-processed and only shows a squiggly line due to the long exposure time. It could be anything that was moving. Echo 1 made a visible pass during the time in question. 2. Agreed. Witness gives no specifics about sighting other than photographs. It could have been Echo 1 but no positional data is available.
26	Richards Gebaur AFB, MO	Satellite	Agreed. Echo 1 and Pegasus 2
26	Nashville, TN	Aircraft	Agreed. Aircraft with electronic advertising banner.
26	Albuquerque, NM	Meteor	Agreed
26	Covina, CA	Conflicting data	Agreed. Witness stated two objects were seen at high speed (est. 2000 mph) moving in opposite directions. However, witness also stated the duration of the sighting was 20 minutes. It is possible he saw two meteors over a twenty minute period.
26	Pike County, MO	Aircraft	Agreed. Possible helicopter.
27	Mt. Lebanon, PA	1. Satellite 2. Aircraft	Conflicting data. Observations at night but time listed as 1414Z.
27	Williston, SC	Insufficient data	<b>NO CASE FILE</b>
27	Pittsburgh, PA	1. Mars 2. Meteor	1. Agreed 2. Agreed
28	Aguada, Puerto Rico	1. No image 2. Aircraft	1. Agreed 2. Agreed
28	Carswell AFB, TX	Aircraft	Agreed
28	Chicago, IL	Satellite	Agreed. Possibly Explorer 19.
28	Spokane, WA	Altair and Arc-turus	Agreed
29-30	Twin Falls, ID	Meteor	Agreed
30	East Coast US	Insufficient data	Agreed. Radar data provided did not contain enough information for ATIC analysis.
30	Dayton, OH	Meteor	Agreed
30	Oklahoma City, OK	Meteor	<b>NO CASE FILE</b>
30	Bellingham, WA	Satellite	Agreed. Possibly Cosmos 58 or Cosmos 58 RB.
30	Watauga, SD	Stars/planets	Agreed. Possibly Capella and Vega.
31	Connersville, IN	Insufficient data	Possible aircraft. Report completed three months after event. 16-year old

31	Elmhurst, IL	1. Meteor 2. Moon	1. Agreed 2. Agreed
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### August 1965

Date	Location	BB explanation	My evaluation
Aug	Hamilton, OH	Insufficient data	Agreed. No date.
Aug	Waynesville, OH	Insufficient data	Agreed. No date/time or positional information
Aug	Piers, MN	Meteor	Agreed. While no date or time is given, the description is that of a meteor.
Aug	Charles City, IA	Insufficient data	Agreed. No specific date. It is possible this was Arcturus and a meteor. 16-year old.
Aug	Avon, NY	Misinterpretation of conventional objects	Insufficient data. Multiple observations over different nights. BB felt they were all conventional objects but letter does not provide sufficient details to conclude this.
Aug	Bakersfield, CA	Aircraft	Agreed
Aug	Albuquerque, NM	Aircraft	Agreed
Aug-Sep	Yonkers, NY	Insufficient data	Agreed. No specific date or time. Reported 6 months later.
Aug-Dec	Houston, TX area*	Misinterpretation of conventional objects	Agreed. This appears to be related to multiple sightings over a long period of time. See addendum pages 19-21.
1	W. of Topeka, KS	Ground targets	Agreed
1	Pittsburgh, PA	Unreliable report	Agreed. Investigator determined witness was unreliable. Data missing from record card.
1	Chicago, IL	Satellite	Agreed. Possibly Cosmos 58
1	Hereford, TX	Meteor	Agreed
1	Kansas City, KS	Satellite	Possible aircraft. No satellite visible matching characteristics listed.
1	Ent AFB, CO	Stars	Agreed. Possibly Arcturus and Antares followed by Echo 2 observation one hour later.
1	Idaho Falls, Pocatello, ID	Meteor	Agreed
2	Auburn, NY	Insufficient data	Jupiter. 12-year old.
2	Ft. Worth, TX	Satellite	Agreed. Echo 2.
2	Kansas City, MO	Satellite	Possible aircraft. No satellite visible matching characteristics.
2	Cuyahoga Falls, OH	Aircraft	Possible balloon. Observations by 14-year old and friend. Object nearly stationary. Described as small, dark, and round.
2	Dayton, OH	1. Mars 2. Spica	1. Agreed 2. Agreed
2	Kettering, OH	Meteor	Agreed
2	Kansas City, KS	Saturn	Agreed
2	Alexandria, VA	Reflection	Agreed. Hynek evaluated as window reflection.
2	Albuquerque, NM	Meteor	Agreed
2	Florence, AZ	1. Aircraft 2. Satellite	1. Aircraft 2. Agreed. Cosmos 54.
2	Algodones, NM	Insufficient data	Agreed. Report made by police officer who heard report on radio. No report in file by observer.
2	Austin, TX	Satellite	Possible meteor

2	Honolulu, TH	Misinterpretation of conventional objects	Insufficient data. Report made to Hickam AFB by family at Waikiki stating they saw objects moving about sky. No other information available.
3	Brooklyn, NY	Insufficient data	Agreed. Witness requested report form in letter but gave no details. No report form was returned.
3	Colorado Springs, CO	Meteor	Agreed
3	Santa Ana, CA	Hoax	Agreed. Heflin case.
3	Gregory, TX	Venus	Agreed
3	Albuquerque, NM	Flares/Fireworks	Meteors
3	Sioux City, IA	Aircraft	Agreed
3	Schenectady, NY	Aircraft	Agreed. 13 and 14-year olds
3	Chicago, IL	Imagination	Agreed. 15-year old looking through telescope at moon for over an hour. Reported seeing object fire rockets and land on moon. It is possible witness may have seen satellite Ferret 4, which made a close pass of the moon about 15 minutes after reported event.
3	Laredo, TX	Aircraft	Agreed
3	Cocoa, FL	Mirage	UNIDENTIFIED
3	Salt Springs, CA	Meteor	Agreed
3	Honolulu, HI	Meteor	Agreed
3	San Mateo, CA	Meteor	Agreed
4	Casa Grande, AZ	Insufficient data	Possible Meteor
4	Dallas, TX	Meteor	Agreed
4	Laredo AFB, TX	Stars/planets	Agreed. Could not identify which star/planet because witness gave no direction.
4	Hawaii/Pacific area	Atlas Missile	Meteor. Duration not listed but description indicates it was too short for missile launch and missile launch 13 minutes later and would not be visible from Hawaii for about 15 minutes.
4	Sacramento, CA	Atlas Missile	Agreed
4	Savielle, NY	Meteor	Agreed
4	Bangor, ME	Aircraft	Agreed
4	Pittsburgh, PA	Insufficient data	Agreed. No positional data or duration. Echo 2 making pass in area could have been source.
4	Dallas, TX	UNIDENTIFIED	Meteor (See SUNlite 13-4)
4	Glenmora, LA	Meteor	Agreed
4	Albany, OR	Arcturus	Agreed
4	Alexandria, LA	Conflicting data	Possible meteor and Echo 2 Rocket. Object initially appeared to be on same track as aircraft (towards NW) off aircrafts starboard wing (azimuth approx. 45 degrees). Echo 2 would have been at azimuth 65 degrees and moving towards 35 degrees where it disappeared over the horizon a minute or two after sighting began. Witness then stated object disappeared rapidly in an upward motion to the two bottom stars in the big dipper (Merak and Phecda). Phecda was at azimuth 323 and elevation 16 degrees. Time similar to that of Ottawa, Kansas sighting making it a possible sighting of same meteor. Possible combination of the two events and perceived as one object. Witness did not remember if moon was visible but it was. It was first quarter in the southwest off his port wing. Report completed a month later on September 14 contributing to potential inaccuracies.
4	Ottawa, KS	Meteor	Agreed. Possibly related to Alexandria LA sighting.

4	Honolulu, HI	Insufficient data	Agreed.
4	Tinley Park, IL	UNIDENTIFIED	UNIDENTIFIED
4	Martinez, CA	Stars/planets	Agreed. Probably Vega and nearby stars.
4	Clovis, CA	Satellite decay	Meteor
4	Waldport, OR	Satellite	Meteor
4-8	San Francisco Area, CA	1. Mars 2. Arcturus 3. Venus 4. Satellite 5. Insufficient data 6. Aircraft	1. Venus 2. Agreed 3. Agreed 4. Insufficient data (no course given) 5. Arcturus 6. Agreed
5	Castleton, NY	Reflection	Possible bird. Object briefly seen moving from west to east in front of southbound car. Altitude estimated to be only 50 feet away and 15-20 feet above ground.
5	Pacific	Rocket	Agreed. Atlas missile launch.
5	San Antonio, TX	1. No image 2. Insufficient data	1. Agreed 2. Possible balloon
5	Dayton, OH	Venus	Agreed
5	Bellbrook, OH	Meteor	Agreed
5	Dayton, OH	Insufficient data	Agreed. Two reports made. Only one (a 13-year old) filled out the form. Description was confusing and inadequate.
5	Dayton, OH	Aircraft	Agreed
5	Pittsburgh, PA	Aircraft	Agreed
5	Des Moines, IA	Venus	Antares (Venus explanation was given only if time of observation was when the object disappeared)
5	Greensburg, PA	Aircraft	Agreed
5	Albuquerque, Farmington, NM	Meteor	Agreed
5	Dayton, OH	Satellite	Agreed. Cosmos 54 or Cosmos 58 Rocket body
5	Chicago, IL area	Balloon	Agreed. Intermittent radar reflections of slow moving targets from two different radar sites.
5	North Highlands, CA	1. Aircraft 2. Arcturus	1. Arcturus 2. Satellite. Echo 2. The report is confusing on which object was which.
5-8	Laredo, TX	1. Mars/Venus 2. Aircraft	1. Agreed 2. Agreed
5-11	Sioux City, IA	1. No image 2. Star/Planets/ birds or insects	1. Agreed. Witness threw negatives away because they did not record anything. 2. Agreed.
6	Macon, GA	Aircraft	Altair. Object stationary but disappeared. Cloud cover was 9/10ths. Altair seen through clouds.
6	Sioux City, IA	Balloon	Agreed
6	Yap Island	Insufficient data	Agreed. Data missing (Duration, final elevation angle)
6	Manitou Springs, CO	Toy Balloons	Agreed
6	Chicago, IL	Psychological	Agreed. Interviewed by Hynek, Vallee and Powers. All thought witness was paranoid. Hynek's handwritten note states he was "a complete nut".
6	Albuquerque, NM	Satellite	Agreed. Possibly Cosmos 58.

6	San Raefel, CA	Aircraft	Agreed. Confusing report by 15-year old
7	Pittsburgh, PA	Insufficient data	Agreed. Missing duration, time, positional data.
7	Andrews, TX	Meteor	Agreed
7	McKinney, TX	Insufficient data	Possible meteors
7	San Pablo, CA	1. No image 2. Insufficient data	1. Agreed 2. Agreed. Very little information associated with visual observation.
7	Pittsburgh, PA	Aircraft w/advertising lights	Agreed
7	Ft. Carson, CO	Aircraft	Possible satellite. Cosmos 54 or 58. 14 and 12-year olds.
7	Colorado Springs, CO	Arcturus	Agreed. 14-year old.
8	Calumet, MI	Stars/Planets	Agreed. Possibly Vega. Limited positional data other than "very high".
8	Pittsburgh, PA	Aircraft w/advertising lights	Agreed
8	Seneca, KS	Insufficient data	Agreed. No positional data.
8	Baltimore, MD	Aircraft	Agreed
8	Pittsburgh, PA	Satellite	Agreed. Echo 2.
8	Palos Verdes, CA	Mars	Arcturus. 14 and 15-year old.
8	Minot, SD	Satellite	Agreed. Echo 2.
8	Fresno, CA	Insufficient data	Antares setting
9	Cedar Rapids, IA	Meteor	Agreed
9	Proctor, MN	Antares	Agreed
9	Hollywood Hills, CA	Satellite decay	Satellite. Pegasus 1. Witness called it a ball of fire while looking at it through small telescope. Track similar to witness description.
9	Calumet Park, IL	Satellite	Agreed. Echo 2.
9	Montrose, CO	Aircraft	Agreed. 16-year old
10	Calumet, MI	Arcturus	Agreed
10	Suffolk county, NY	Aircraft w/advertising lights	Agreed
10	Richards Gebaur AFB, MO	Aircraft	Agreed. 8 and 12-year olds.
10	Orlando, FL	Venus	Agreed
10	Prarie Village, KS	Aircraft	Agreed
10	Phoenix, AZ area	Meteor	Agreed
10	Los Angeles, CA	Unreliable report	Mars and Spica
10	Freemont, CA	Aircraft	Agreed
11	Pittsburgh, PA	Unreliable report	Agreed. Investigator determined unreliable. Time, duration, positional data missing from record card.
11	Waterford, CT	Imagination	Agreed. Witness claimed to see small object orbiting the moon.
11	Richmond, Walnut creek, CA area	Reflected Moonlight	Agreed. Moonlight reflecting off of clouds observed and identified by planetarium director.
11	Albany, NY	Aircraft	Agreed
11	Kansas City, MO	Antares/Mars	Antares/Arcturus
11	Kansas City, MO	Antares	Agreed
11	Greensburg, PA	Aircraft	Agreed
11	Far Rockaway, NY	Meteor	Agreed

11	Zionsville, IN	Aircraft	Echo 2. Witness stated object going NNW, which prevented BB from classifying as satellite. Echo 2 made pass going north at time of sighting indicating witness made error in direction.
11	Pueblo, CO	Stars/Planets	Agreed. Altair
11	Prospect Heights, IL	Capella	Agreed
11	Chicago, IL	Aircraft	Agreed
11-14	Dayton, OH	Venus	Agreed
11-12	Whiteman AFB, MO	1. Inversion effect 2. Meteor 3. Stars/Planets 4. Aircraft	1. Agreed 2. Agreed 3. Agreed (insufficient data to determine which stars) 4. Agreed
11-31*	Ellington AFB, Houston TX area	Separate folder	See addendum pages 19-21.
12	Ramona, CA	Insufficient data	Meteor
12	Duluth, MN	Satellite	Agreed. Echo 2.
12	Sioux City, IA	Balloon	Agreed
12	Chicago, IL	Aircraft	Agreed
12	WPAFB, OH	Mirage	Agreed. Reflection of sun off of haze. Motion of aircraft produced perceived motion.
12	Amarillo, TX	Insufficient data	Possible birds. 13-year old.
12	Sioux City, IA	1. Stars 2. Meteor	1. Agreed. Positional data missing and cannot determine which stars/planets but characteristics are of astronomical objects. 2. Agreed.
12	Happy, TX	Meteor	Agreed
12	Seattle, WA	Aircraft	Conflicting data. Witness lists time as 8:20 PM PDT and states it was dark with stars and moon present. Sun did not set until 8:26 PM PDT and moon did not rise until about 8:50 PM PDT. 13 year old
12	Big Springs, TX	1. Satellite 2. Meteors	1. Agreed. Echo 2. 2. Agreed
12	Duluth, MN	Satellite	Agreed. Echo 2.
12	Providence, RI	Aircraft	Agreed
12	Pleasant Hill, MO	Antares	Agreed
12	Toledo, OH	Aircraft	Agreed
13	Greensburg, PA	Aircraft	Agreed
13	Beaver, PA	Stars/planets	Agreed. Positional data missing and cannot determine which stars/planets but characteristics are of astronomical object.
13	Pueblo, CO	Arcturus	Vega (Arcturus set 30 minutes prior to sighting).
13	Courcelles, Belgium	Satellite	Agreed. Echo 2.
13	Miamisburg, OH	Stars/planets	Agreed. Positional data missing and cannot determine which stars/planets but characteristics are of astronomical object.
13	Duluth, MN	Mars	Satellite. Echo 2.
13	Baden, PA	Hoax	Insufficient data. Witness had eyesight problems that may have been related to welding and then proposed UFO produced his vision malady. No other witnesses to sighting.
13	Kansas City, MO	Aircraft	Agreed
13	Kansas City, MO	Inconsistent data	Agreed. 14 year old reporting about seeing multiple UFOs. Reported sighting is confusing and difficult to analyze.



13-16	Urbana, OH	Psychological	Agreed. Witness watching sky on multiple nights for many hours and reported multiple UFOs each night. No specifics but witness' imagination appears to have played a significant role in his perception of what was seen. Most of the descriptions are of stars, aircraft, satellites, and meteors. No specifics on each individual sighting.
14	Duluth, MN	Meteor	Agreed
14	Newport News, VA	Satellite	Possible balloon
14	Duluth, MN	Satellite	Agreed. Echo 2.
14-15	Austin, TX	Stars/planets	Agreed. Arcturus.
15	Calumet City, IL	Aircraft	Agreed
15	Duluth, MN	Aircraft	Agreed
15	Portsmouth, VA	Unreliable report	Agreed. Witness demonstrated unreliable behavior during interview.
15	Bryte, CA	Mars	Venus (Zulu time incorrect)
15	Thackery, OH	Aircraft	Satellite. Echo 2.
15	Dayton, OH area	Satellite	Agreed. Echo 2
16	Albuquerque, NM	Balloon	Agreed. 15-year old.
16	Little Rock, AR	Satellite	Possible Aircraft. No bright satellite matches the description. 13-14 year old.
16	Laredo, TX	Stars/planets	Agreed. Arcturus
16	Columbus, OH	Aircraft	Agreed. 11-year old
16	South Wardsboro, VT	Aircraft	Agreed. Letter written by teen/pre-teen
16	Chicago, IL	Aircraft	Agreed
16	Auburn, NY	Aircraft	Agreed
16	Cleveland, OH	Satellite	Agreed. Witness reported object in SE but did not indicate if object was going in that direction or what direction it was last seen. Possible Echo 2, which went from SE to NE.
16	Dayton, OH	Aircraft	Agreed
16	Kingston, NY	Satellite	Agreed. Echo 2.
16	Trotwood, OH	1. Satellite 2. Capella	1. Agreed. Echo 2. 13-year old 2. Agreed
17	Dayton, OH	Arcturus	Agreed. 12-year old.
17	Ottawa, IL	Meteor	Agreed
17	Trenton, OH	Capella	Agreed
17-30	Columbus, OH	Stars/planets	Agreed. Positional data missing and cannot determine which stars/planets but characteristics are of astronomical object.
18	Traverse City, Alden, Platte Lake, MI	1. No image 2. Satellite	1. Agreed 2. Agreed. Echo 2
18	Sumner, WA	Ground lights	Agreed. Faint lights visible on clouds. Stationary for almost two hours.
19	Cherry Creek, NY	UNIDENTIFIED	UNIDENTIFIED
19	Harrison, NY	Satellite	Agreed. Echo 2.
19	Dayton, OH	Capella	Saturn
19	Duluth, MN	Satellite	Agreed. Echo 2.
20	Elko, NV	Meteor	Agreed
20	Scranton, PA	Aircraft w/advertising lights	Agreed

20	Plattsburgh AFB, NY	1. Aircraft 2. ECM	1. Agreed 2. Insufficient data. Reported jamming of radar unrelated to visual sighting. Operator stated it was jamming but there was no evidence presented to confirm his conclusions.
20	Pease AFB, NH	1. Aircraft 2. Satellite 3. Arcturus Radar: Aircraft	1. Agreed 2. Agreed. Echo 2. 3. Agreed Radar: Agreed
20	Amityville, NY	Aircraft	Possible meteor
21	Cape Kennedy, FL	Emulsion flaws	Agreed
21	Island Park, NY	Ground lights	Reflection of lights. Lights viewed through window for two hours. Images just show point sources of lights. Taken through bedroom window. Could be reflections on window.
21	Orting, WA	Ground lights	Possible moon sighting through clouds. Witness looking in direction of rising moon while driving. Azimuth of object did not change during 2-3 minutes of sighting.
21	New Milford, CT	Birds	Agreed
21	Charles City, IA	Arcturus	Agreed
21	Laredo, TX	Stars/Planets	Agreed. Arcturus and Altair. 15 and 16-year olds
22	Lancaster, CA	Aircraft	Agreed
22	Sioux City, IA	Insufficient data	Possible aircraft
22	Duluth, MN	Satellite	Agreed. Echo 2. Time listed as 0300Z but Echo 2 pass at 0400Z matches the description given. Duluth had controversy over DST in 1965 with some portions of the area observing standard time and others observing DST.
23	Bogota, Columbia	Jupiter	Moon. Witness described object as moon shaped. Moon in direction seen. Jupiter was also present.
23	Grand Canyon national park, AZ	Aircraft	Pegasus 2 and Apollo module 2
23	Jamestown, NY	1. Venus 2. Insufficient data	1. Agreed 2. Agreed. Positional data missing.
23	Laredo, TX	1. Arcturus 2. Aircraft	1. Venus 2. Agreed
23	Wooddale, IL	Aircraft	Agreed
23	Pine City, MN	Stars/Planets	Agreed. Capella, Aldebaran, Jupiter and possibly El Nath.
23	Superior, WI	Stars/Planets	Agreed. Capella.
23	Holmcroft, MN	Satellite	Agreed. Echo 2.
24	Fayetteville, AR	Plastic bags w/ flashlight and cellophane	Agreed
24	Shallop Cove, Newfoundland	Satellite	Agreed. Echo 2.
24	Roswell, NM	Birds	Agreed
24	Amarillo, TX	1. Refueling op 2. Stars/planets	1. Agreed 2. Agreed. Insufficient data to determine which star.
25	Burlington, MA	Capella	Agreed
25	Kingston, NY	Satellite	Agreed. Echo 2.
25	Washington township, OH	Satellite	Agreed. Echo 2. 16-year and 12-year old.
25	Oakwood, OH	Satellite	Agreed. Echo 2.

25-29	Sequoia National Forest, CA	Aircraft	Satellite. Echo 2. Witness gave direction as SE to NW. Echo went S to N. Passes on all three nights occurred within 30 minutes of time reported
26	Seine Maritime, France	Cloud formation	Agreed
26	Houston, TX area	Jupiter	Sirius. Jupiter was visible to East but Sirius appears to fit description (witnesses indicated object in SE).
26	Alexandria, LA	Arcturus	Agreed
26	Austin, TX	Capella	Aircraft reflecting setting sun (visible less than one minute). Time listed on record card is wrong. Sighting listed as local time 1935. Austin observed DST in 1965, which indicates 0035 Z. Sun had not set.
26	Plainview, Long Island, NY	Satellite	Agreed. Echo 2 rocket body.
26	Erie, PA	Meteor shower	Agreed
26	Missile Site, NE	Aircraft	Agreed
26	Amarilo, TX	Birds	Agreed
26	Sioux Army Depot	Aircraft	Agreed
26	Nebraska Area	Aircraft	Agreed
27	Lombard, IL	Aircraft	<b>NO CASE FILE</b>
27	Pacific	Satellite	Agreed. Gemini 5.
27	Tacoma, WA	Aircraft	Agreed. Contrail at sunset.
27	Corpus Christi, TX	Satellite	Agreed. Echo 2.
27	Hilo, HI	Insufficient data	Agreed. The only information is that red and green lights were seen falling into the ocean. No positional data or durations.
28	Washington Township, OH	Satellite	Agreed. Echo 2.
28	Glasgow AFB, MT	Balloon	Agreed. Possible research balloon from Fort Churchill
29	Pittsburgh, PA	Insufficient data	Possible aircraft
29	Austin, TX	Aircraft	Possible satellite. Echo 2.
29	Tipp City, OH	Satellite	Agreed. Echo 2.
29	Northeast Harbor, ME	Arcturus	Agreed
29	Springfield, MD	Insufficient data	Agreed. Duration, direction of travel, speed, etc. missing.
30	Pittsburgh, PA	Other (not a UFO)	Agreed. Report of 8-foot tall glowing man walking around chased away by teens throwing rocks at him.
30	Urbana, OH	UNIDENTIFIED	UNIDENTIFIED
30	Detroit Lakes, MN	Satellite	<b>NO CASE FILE</b>
31	Turner, MT	Vega	Agreed
31	Laredo AFB, TX	Arcturus	Agreed
31	FE Warren AFB, WY	Insufficient data	Satellite. Echo 2.
31	Cheyenne, WY	Insufficient data	Possible satellite Echo 2 (witness gave confusing directions but eventually indicated object traveled north).
31	FE Warren AFB, WY	Stars/Planets	Agreed. Capella, Arcturus, and probably Vega.
31	Falloon NAAS, Winneumucca AFS, Tonopah AFS, NV	1. Capella 2. Weather	1. Agreed 2. Agreed
31	Cheyenne, WY	Insufficient data	Agreed. Lack of positional data. Verbal report. Possibly Capella.
31-7 Sep	Bunkie, LA	1. Aircraft 2. Satellites	Agreed. Letter written to BB. Contained three observations. Echo 2 made several passes that agree with the descriptions. One of the sightings was not Echo 2 and probably was aircraft.

31-Sep 3	Midwest Flap*	Inversion effect	Disagree. The dates appear to be wrong. There is mention of a Midwest flap from late July to early August in the Bunkie, LA folder. There is also a list of sightings that appear to cover this "Midwest flap". While "inversion" might explain one or two radar cases, it does not explain all. Most of the incidents were at Cheyenne, WY, Omaha, NE, Oklahoma City, OK, and Rapid City, SD. See table on pages 21-2.
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### Houston area July/August 1965

The Houston area was a hotbed of UFO reports in late July and August. There is one document where there are numbered cases for each sighting. Another case file document sightings from August 11-31. After the 29th, the files were missing. This table documents all of these sightings and my evaluations of those sightings.

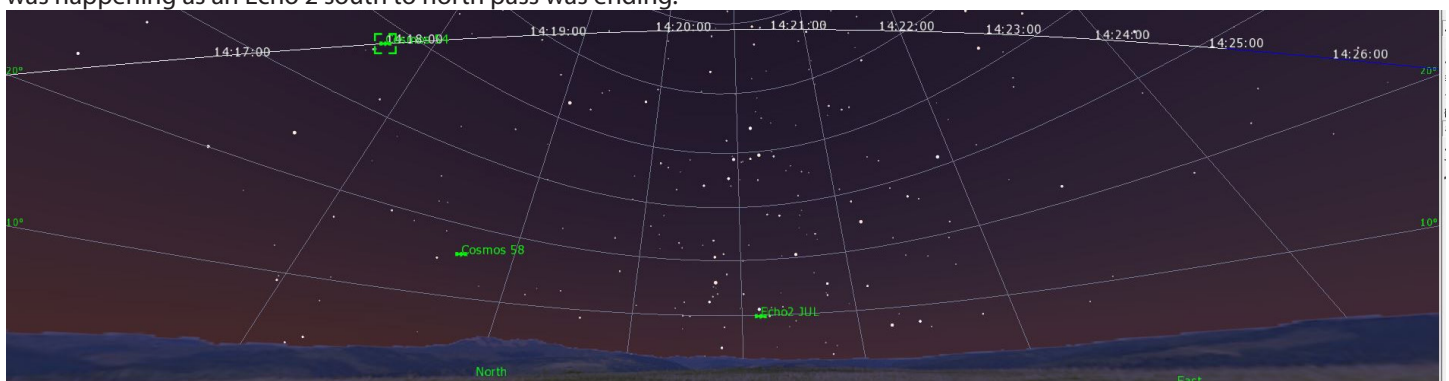
Date	Location	BB explanation	My evaluation
4	S. of Pasadena, TX	Star/planet	Pegasus 1 satellite
4	Houston, TX	Star/planet	Agreed. Venus. 14-year old.
4	Houston, TX	Insufficient data	Agreed. Witness hung up during report. 14-year old.
4	Houston, TX	Aircraft	Agreed
4	SW of Houston, TX	Aircraft	Venus
4	Houston, TX	Vega	Agreed
4	SW of Houston, TX	Aircraft	Agreed
4	S. of Houston, TX	Possible Meteor	Agreed 11-year old
4	Houston, TX		Satellite. Pegasus 1
4	Houston, TX	Aircraft	Satellite. Pegasus 1
4	S. of Houston, TX	Aircraft	Agreed
4	Houston, TX	Arcturus	Agreed
4	Houston, TX	Aircraft	Satellite. Pegasus 1
4	Above Pasadena, TX	Capella	Agreed
4	N and S of Houston, TX	Stars	Agreed. Arcturus and Antares.
5	W over Ellington AFB, TX	Aircraft	Agreed
5	S of Houston, TX	Meteor	Agreed
5	N of Houston, TX	Meteor	Agreed
5	N of Houston, TX	Aircraft	Agreed
7/10-20	N. of Houston, TX	Venus	Agreed
7/19	Houston, TX	Insufficient data	Agreed. No duration.
3	S. of Houston, TX	Aircraft	Agreed
4	NW of Houston, TX	Balloon	Agreed 12-year old
5	Pasadena, TX	Aircraft	Agreed. 8-year old
4	S. of Houston, TX	Aircraft	Agreed
4	N. of Houston, TX	Meteor	Agreed. 16-year old
2	W of Houston, TX	Possible Helicopter	Possible aircraft
4	Houston, TX	Birds	Agreed. 13-year old
4	W and SW of Houston, TX	Insufficient data	Agreed. No time.
4	Houston, TX	Insufficient data	Agreed. Other than "overhead" and time, no other information available.
3	Houston, TX	Stars	Insufficient data. Very little in description. No positional data.
4	Pasadena, TX	Aircraft	Agreed
4	SW of Houston, TX	Aircraft	Agreed

4	NE of Houston, TX	Aircraft	Agreed
4	Seabrook, TX	Stars/planets	Agreed. No positional data to determine which star/planet
5	N of Houston, TX	Probable meteor	Agreed
5	NW of Houston, TX	Arcturus	Agreed
	N of Houston, TX	Meteor	Agreed
	Meyerland, Houston, TX	Aircraft	Agreed
7	NNE of Houston, TX	Meteor	Agreed 16-year old
7	W of Houston, TX	Arcturus	Venus
7	Houston, TX	Aircraft	Agreed
	Houston and Ellington, TX	Meteor	Agreed
11	Houston	Aircraft/Satellite	Agreed. Possibly Cosmos 70.
11	SE Houston	Conflicting data	Missing case file
13	NW Houston	Balloon	Arcturus
13	Houston	Aircraft/Satellite	Agreed. Pegasus 1.
	NE of Houston	Aircraft	Missing case file
18	SW of Houston	Unreliable report	Aircraft
18	W of Alandale	Psychological	Possible meteor
19	Houston	Aircraft	Agreed
19	Houston area	Aircraft/Satellite	Agreed. Pegasus 3 satellite.15-year old
19	Houston	Prob Meteor	Agreed
19	West of Houston	Arcturus	Agreed
19	West of Houston	Arcturus	Agreed
19	North of Houston	Insufficient data	Possible meteor
19	West of Houston	Arcturus	Agreed
19	Bellaire	Arcturus	Agreed
20	NW of Houston	Aircraft	Agreed
20	E of Pasadena	Jupiter	Agreed
19	N of Houston	Aircraft	Agreed
22	N of Houston	Aircraft	Agreed
18	WSW of Houston	Venus	Agreed
20	S of Houston	Aircraft/Satellite	Agreed. Aircraft
20	SE of Houston	Aircraft/Satellite	Agreed. Aircraft
20	N of Houston	Aircraft	Agreed
21	Deer Park	Aircraft/Satellite	Agreed. Pegasus 3 Satellite.
21	NW of Houston	Aircraft/Satellite	Agreed. Echo 2 Satellite
25	Houston	Star/Planet	Agreed. Insufficient information to determine which star/planet
25	NE of Houston	Capella	Agreed
26	Houston	Jupiter	Sirius
26	Houston	Jupiter	Sirius
26	Houston	Jupiter	Sirius
27	Houston	Aircraft	Agreed
27	Huntsville	Meteor	Agreed
27	North of Houston	Insufficient data	Aircraft
27	NE Spring Branch	Echo 2	Agreed
27	S of Houston	Meteor	Agreed
28	NNE Pasadena	Capella	Agreed

28	E of Houston	Jupiter	Agreed
28	S of Houston	Insufficient data	Possible Echo Satellite
29	SW of Houston	Insufficient data	Aircraft
29	E of Houston	Echo 2	Missing case file
29	SW of Houston	Aircraft	Missing case file
29	N of Houston	Star/Planet	Missing case file
29	E of Houston	Echo 2	Missing case file
29	W of Houston	Echo 2	Missing case file
29	SW of Houston	Insufficient data	Missing case file
28	S of Houston		Missing case file
30	West Columbia	Satellite	Missing case file
30	Houston	Satellite	Missing case file
30	SE of Houston	Satellite	Missing case file
30	N of Houston	Echo 2	Missing case file
30	N of Houston	Satellite	Missing case file
30	N of Houston	Satellite	Missing case file
30	N of Houston	Altair	Missing case file
31	NW of Houston	Aircraft	Missing case file
31	E of Pasadena	Echo 2	Missing case file
31	SW of Houston	Echo 2	Missing case file
31	Bellaire	Meteor	Missing case file
31	Houston	Echo 2	Missing case file
31	Houston	Star/Planet	Missing case file
31	Lake Jackson	Aircraft	Missing case file
31	Houston	Echo 2	Missing case file
31	Pasadena	Capella	Missing case file

### Midwest flap

In the Bunkie, Louisiana folder, there was a listing of reports that contains the “Midwest flap” reports mentioned for August 31-September 3. However, the dates appear to be wrong and the actual “flap” happened from the 31 July to 4 August. Most of the sightings on the list are from the Oklahoma, Wyoming, South Dakota, and Nebraska and do not appear on the master list. The Oklahoma events were missing from the Bunkie, Louisiana folder but were, instead, located the Carson City, Nevada sighting of 27 September 1965 folder. Blue Book did not classify these cases outright but did indicate what they thought they might be in some instances. I went through the files and summarized the sightings. There were many cases but they were all very similar with people reporting nocturnal lights that were either stationary or moving. During this time period, the satellite Echo 2 made at least two passes over the entire Midwest going from south to north each night. Additionally, the bright satellites Cosmos 54, 58, and the Cosmos 58 rocket made passes over the Midwest from west to east on successive nights. Since they were in very similar orbits, the satellites were often seen within a few minutes of each other. On 1 August, around 0515Z, both Cosmos 54 and 58 made a pass from west to east, where their paths were parallel to each other as viewed from the Midwest. They would have appeared to be flying in formation. This was happening as an Echo 2 south to north pass was ending.



While the summary below is far from complete, I hope to revisit this “flap” in the future when I have more time.

Date	Location	My evaluation
31 July	Tinker AFB, OK	Balloon south of Oklahoma City about 26 miles north of radar contact at 0657Z. Located at 100,000 feet. Radar contact at 10,000 feet at 0740Z and moved to northwest. Winds were from Northwest at 10-40 knots above 10,000 feet. Balloon descent could produce radar contact assuming it did not burst and, instead, leaked and descended. The visual observation by the police officer in Wynnewood is confusing but it appears the object was visible to the northeast for over an hour. Some sketches in the file seem to indicate that Capella may have been the source of the sighting. File found in Carson City Nevada sighting report of 27 September.
31 July - 2 Aug	Cheyenne, WY	Multiple reports. Many appear to be stars/planets and meteors. It is difficult to determine a lot of details about each sighting since each sighting contains only a few sentences of information and often lack positional data. Many of the sightings happened around 0500Z and lasted a few hours. It appears Jupiter as well as Capella, Saturn, Vega, Altair, and Betelgeuse were involved. In addition to stationary lights, they also reported moving lights, which could have been satellites or aircraft. On all three nights, there was a temperature inversion, which is part of the reason they classified this entire case as a weather inversion effects. Despite all of these sightings, it is interesting to note that there were no photographs or reports that could be used for triangulation. The report forms that exist in the file contain no positional data for evaluation.
2	Rapid City, SD	Probably stars/planets. Most likely Capella, Saturn, Fomalhaut, and Arcturus. While the airman were observing these UFOs and reporting them to the center, a pilot attempted to see UFOs as well. He went outside to look but saw nothing, other than stars, after an hour of observing.
2-4	Omaha, NE	Stars and planets along with satellites/aircraft. Multiple sightings of stationary nocturnal lights and moving lights. As noted in the Cheyenne cases, there were multiple satellite passes that could explain the sightings but the details of each sighting are too limited to make any sort of reasonable identification.
2	Wichita, KS	Radar photographs were submitted but the target clutter on the images and lack of details prevented ATIC from making a proper analysis of the photographs.

### Reclassification

I evaluated 448 cases in the Blue Book files from July through August 1965. This includes 80 in the Houston area collection. I did not include the Midwest flap since individual cases were not easy to identify. In my opinion, 90 were improperly classified (about 20%). Nineteen (about 4% of the total number of cases/21% of the reclassifications) of these were listed as “insufficient information”. This table describes these cases and how I felt they should have been classified.

Date	Location	Reclassification	Reason
Jul	Racine, WI	Aircraft	Unreliable report. 11-year old reporting in April 1967.
7/3	New Milford, CT	Insufficient data	Aircraft at sunset
7/4	Taiwan	1. Balloon 2. Aircraft	Inconsistent data. Card indicates it was daylight but time listed (1900Z) indicates about 0300 local. No accompanying information to resolve issue.
7/5	Chicago, IL	Unreliable report	Possible aircraft reflection. Seen at sunset. Investigator classified as unreliable because of witness stating that somebody was signaling SOS to object with light from a nearby hospital. Data is also conflicting. Time listed as 0100Z but report states it was dark. Sunset around 0120Z.
7/6	Arlington, TX	Aircraft	Radar contact probably light aircraft. Visual was probably Echo 1 satellite
7/8	Cincinnati, OH	Satellite	Insufficient data. No time listed. Possibly Echo 1, which made a pass similar to the described path.

7/8	San Lorenzo Island (pacific)	Insufficient data	Conflicting data. Position does not reflect location of San Lorenzo island. Possible meteors
7/12-21	Xenia, OH	Venus/Regulus	Venus and Mercury. Drawings/azimuth-elevations in report form demonstrate that what was observed was these two planets.
7/13	Burlington, MA	Insufficient data	Possibly Explorer 19. Witness appears to have been 10-14 years old
7/13	Smyrna, TN	Satellite	Aircraft
7/16	Howell, UT	Mirage	Possible moon. Object came from south heading towards observer. It approached Thikol plant, hovered and receded. This happened two more times over a two minute period. Shape similar to moon on two of the sightings. Moon in position at time of sighting. Witness did not note on form if moon was visible or not (although there is a mark near "no moon light" but it was not circled). Moon to south in direction witness reported objects appearing each time. Witness also indicated it was clear with some clouds and a few stars were visible. Hill AFB, 50 miles to SE, reported overcast. It is possible that he was viewing the moon peaking in and out of a cloud layer.
7/16	Dudley, MA	Regulus	Arcturus (BB originally suggested this but chose Regulus because it was setting but Arcturus is a more correct evaluation).
7/20	Kettering, OH	Satellite	Possible meteor. 15- year old
7/20	Pittsburgh, PA	Satellite	Insufficient data. No course given. No supporting documentation with record card.
7/21	Corpus Christi, TX	Balloon	Two objects seen. Too late for research balloon. Satellites Saturn 1RB and Echo 1 made pass with both being close together and following similar track.
7/22	Normal, IL	Aircraft	Possibly Cosmos 42 rocket body
7/24	Lincoln, NE	Aircraft	Satellites. Proton 1 and Pegasus 2
7/25	Clinton County, OH	Aircraft	Possibly Echo 1 satellite.
7/25	Dayton, OH	Insufficient data	Echo 2
7/27	Mt. Lebanon, PA	1. Satellite 2. Aircraft	Conflicting data. Observations at night but time listed as 1414Z.
7/31	Connersville, IN	Insufficient data	Possible aircraft. Report completed three months after event. 16 year old
Aug	Avon, NY	Misinterpretation of conventional objects	Insufficient data. Multiple observations over different nights. BB felt they were all conventional objects but letter does not provide sufficient details to conclude this.
8/1	Kansas City, KS	Satellite	Possible aircraft. No satellite visible matching characteristics listed.
8/2	Auburn, NY	Insufficient data	Jupiter. 12-year old.
8/2	Kansas City, MO	Satellite	Possible aircraft. No satellite visible matching characteristics.
8/2	Cuyahoga Falls, OH	Aircraft	Possible balloon. Observations by 14-year old and friend. Object nearly stationary. Described as small, dark, and round.
8/2	Austin, TX	Satellite	Possible meteor
8/2	Honolulu, TH	Misinterpretation of conventional objects	Insufficient data. Report made to Hickam AFB by family at Waikiki stating they saw objects moving about sky. No other information available.
8/2	W of Houston, TX	Possible Helicopter	Possible aircraft
8/3	Houston, TX	Stars	Insufficient data. Very little in description. No positional data.
8/3	Albuquerque, NM	Flares/Fireworks	Meteors



8/4	Casa Grande, AZ	Insufficient data	Possible Meteor
8/4	Hawaii/Pacific area	Atlas Missile	Meteor. Duration not listed but description indicates it was too short for missile launch and missile launch 13 minutes later and would not be visible from Hawaii for about 15 minutes.
8/4	Dallas, TX	UNIDENTIFIED	Meteor (See SUNlite 13-4)
8/4	Alexandria, LA	Conflicting data	Possible meteor and Echo 2 Rocket. Object initially appeared to be on same track as aircraft (towards NW) off aircrafts starboard wing (azimuth approx. 45 degrees). Echo 2 would have been at azimuth 65 degrees and moving towards 35 degrees where it disappeared over the horizon a minute or two after sighting began. Witness then stated object disappeared rapidly in an upward motion to the two bottom stars in the big dipper (Merak and Phecda). Phecda was at azimuth 323 and elevation 16 degrees. Time similar to that of Ottawa, Kansas sighting making it a possible sighting of same meteor. Possible combination of the two events and perceived as one object. Witness did not remember if moon was visible but it was. It was first quarter in the southwest off his port wing. Report completed a month later on September 14 contributing to potential inaccuracies.
8/4	Clovis, CA	Satellite decay	Meteor
8/4	Waldport, OR	Satellite	Meteor
8/4	S. of Pasadena, TX	Star/planet	Satellite. Pegasus 1
8/4	SW of Houston, TX	Aircraft	Venus
8/4	Houston, TX		Satellite. Pegasus 1
8/4	Houston, TX	Aircraft	Satellite. Pegasus 1
8/4	Houston, TX	Aircraft	Satellite. Pegasus 1
8/4-8	San Francisco Area, CA	1. Mars 2. Arcturus 3. Venus 4. Satellite 5. Insufficient data 6. Aircraft	1. Venus 2. Agreed 3. Agreed 4. Insufficient data (no course given) 5. Arcturus 6. Agreed
8/5	Castleton, NY	Reflection	Possible bird. Object briefly seen moving from west to east in front of southbound car. Altitude estimated to be only 50 feet away and 15-20 feet above ground.
8/5	San Antonio, TX	1. No image 2. Insufficient data	1. Agreed 2. Possible balloon
8/5	Des Moines, IA	Venus	Antares (Venus explanation was given only if time of observation was when the object disappeared)
8/5	North Highlands, CA	1. Aircraft 2. Arcturus	1. Arcturus 2. Satellite. Echo 2. The report is confusing on which object was which.
8/6	Macon, GA	Aircraft	Altair. Object stationary but disappeared. Cloud cover was 9/10ths. Altair seen through clouds.
8/7	McKinney, TX	Insufficient data	Possible meteors
8/7	Ft. Carson, CO	Aircraft	Possible satellite. Cosmos 54 or 58. 14 and 12-year olds.
8/7	W of Houston, TX	Arcturus	Venus
8/8	Palos Verdes, CA	Mars	Arcturus. 14 and 15-year old.
8/8	Fresno, CA	Insufficient data	Antares setting

8/9	Hollywood Hills, CA	Satellite decay	Satellite. Pegasus 1. Witness called it a ball of fire while looking at it through small telescope. Track similar to witness description.
8/10	Los Angeles, CA	Unreliable report	Mars and Spica
8/11	Kansas City, MO	Antares/Mars	Antares/Arcturus
8/11	Zionsville, IN	Aircraft	Echo 2. Witness stated object going NNW, which prevented BB from classifying as satellite. Echo 2 made pass going north at time of sighting indicating witness made error in direction.
8/12	Ramona, CA	Insufficient data	Meteor
8/12	Amarillo, TX	Insufficient data	Possible birds. 13-year old.
8/12	Seattle, WA	Aircraft	Conflicting data. Witness lists time as 8:20 PM PDT and states it was dark with stars and moon present. Sun did not set until 8:26 PM PDT and moon did not rise until about 8:50 PM PDT. 13 year old
8/13	Pueblo, CO	Arcturus	Vega (Arcturus set 30 minutes prior to sighting).
8/13	Duluth, MN	Mars	Satellite. Echo 2.
8/13	Baden, PA	Hoax	Insufficient data. Witness had eyesight problems that may have been related to welding and then proposed UFO produced his vision malady. No other witnesses to sighting.
8/13	NW Houston	Balloon	Arcturus
8/14	Newport News, VA	Satellite	Possible balloon
8/15	Bryte, CA	Mars	Venus (Zulu time incorrect)
8/15	Thackery, OH	Aircraft	Satellite. Echo 2.
8/16	Little Rock, AR	Satellite	Possible Aircraft. No bright satellite matches the description. 13-14-year old.
8/18	SW of Houston	Unreliable report	Aircraft
8/18	W of Alandale	Psychological	Possible meteor
8/19	North of Houston	Insufficient data	Possible meteor
8/19	Dayton, OH	Capella	Saturn
8/20	Plattsburgh AFB, NY	1. Aircraft 2. ECM	1. Agreed 2. Insufficient data. Reported jamming of radar unrelated to visual sighting. Operator stated it was jamming but there was no evidence presented to confirm his conclusions.
8/20	Amityville, NY	Aircraft	Possible meteor
8/21	Island Park, NY	Ground lights	Reflection of lights. Lights viewed through window for two hours. Images just show point sources of lights. Taken through bedroom window. Could be reflections on window.
8/21	Orting, WA	Ground lights	Possible moon sighting through clouds. Witness looking in direction of rising moon while driving. Azimuth of object did not change during 2-3 minutes of sighting.
8/22	Sioux City, IA	Insufficient data	Possible aircraft
8/23	Bogota, Columbia	Jupiter	Moon. Witness described object as moon shaped. Moon in direction seen. Jupiter was also present.
8/23	Grand Canyon national park, AZ	Aircraft	Pegasus 2 and Apollo module 2
8/23	Laredo, TX	1. Arcturus 2. Aircraft	1. Venus 2. Agreed
8/25-29	Sequoia National Forest, CA	Aircraft	Satellite. Echo 2. Witness gave direction as SE to NW. Echo went S to N. Passes on all three nights occurred within 30 minutes of time reported

8/26	Houston, TX area	Jupiter	Sirius. Jupiter was visible to East but Sirius appears to fit description (witnesses indicated object in SE).
8/26	Austin, TX	Capella	Aircraft reflecting setting sun (visible less than one minute). Time listed on record card is wrong. Sighting listed as local time 1935. Austin observed DST in 1965, which indicates 0035 Z. Sun had not set.
8/26	Houston	Jupiter	Sirius
8/26	Houston	Jupiter	Sirius
8/26	Houston	Jupiter	Sirius
8/27	North of Houston	Insufficient data	Aircraft
8/28	S of Houston	Insufficient data	Possible Echo Satellite
8/29	SW of Houston	Insufficient data	Aircraft
8/29	Pittsburgh, PA	Insufficient data	Possible aircraft
8/29	Austin, TX	Aircraft	Possible satellite. Echo 2.
8/31-9/3	Midwest Flap*	Inversion effect	Disagree. The dates appear to be wrong. There is mention of a Midwest flap from late July to early August in the Bunkie, LA folder. There is also a list of sightings that appear to cover this "Midwest flap". While "inversion" might explain one or two radar cases, it does not explain all. Most of the incidents were at Cheyenne, WY, Omaha, NE, Oklahoma City, OK, and Rapid City, SD. See table on pages 21-2.

### Summary

As I expected, this time period was going to be challenging to evaluate. There were many sightings over a brief period of time, which swamped the Blue Book staff. Many have probable explanations and it is hard to say exactly why there was a sudden flurry of UFO reports. I suspect it had a lot to do with the beginnings of the Gemini space program and other space activities. Adding that to the normal summer peak of UFO sightings, could explain the massive influx of reports.

There is a lot to say about these cases. Some were interesting and challenging to examine. I decided that the Cocoa Beach, Florida event (August 3) would be reclassified as "UNIDENTIFIED". I just could not see a reflection producing the effect described and I could not come up with a potential solution. These were some lights, in a diamond formation, that hovered for quite some time and, after fifteen minutes, the police officers stopped watching them. Nobody knows what happened to the objects! I thought they might be stars in the constellation Delphinus but they are fairly faint and would not be prominent under city lights. It is too bad the police officers did not bother to see what happened to the UFOs. It is almost as if they were not that unusual or did not care to figure out what happened to them.

There continued to be reports filed by teens and tweens. One report was filed by an 8-year old. Some of these reports have to be looked at skeptically when reading them. A few of the reports are pretty good and the witnesses did a good job presented the data. However, like the adults, these are a minority of the reports. Many of the youth reports appear to be more imagination than objective observation.

Last issue I complained about how Blue Book was taking multiple sightings and placing them in a single case file. Little did I realize that local UFO officers were making this a bad habit. Pittsburgh submitted multiple reports, which involved nothing more than a typed summary with dates and brief descriptions of each sighting. There were some report forms but the rest had very little information about the sighting. The area around Houston, Texas had two case files with a total of 104 individual sightings! A good percentage of those were missing. To their credit, they did use some type of local reporting form. Some of these did have most of the pertinent information for analysis. Others had missing information.

Then there was the "Midwest flap". There was no distinct case file but there seemed to be indications that they were in a folder at some point. These files were spread out and out of order to the point that, after a week of on-and-off examination, I grew frustrated and chose to just summarize the main events that marked the flap. Blue Book's listed explanation for the "flap" as "inversion effects" was not sufficient (it might explain some radar targets) but they received little help from the various bases collecting the reports. Very few, if any, formal UFO reports were filed. What was presented were very short paragraphs describing each sighting. Many of them were missing pertinent information. It seems that a significant number of these involved misperceptions of stars, planets, satellites, aircraft, and meteors. Despite dozens of reports being made from the area of Cheyenne, Wyoming (the location of FE Warren AFB), nobody managed to record any UFO on film or provide any triangulation maps from the various observations. It seems to me

that what happened was that once a few airmen started reporting UFOs, others around the base joined in and started seeing them as well. Once that happened, just about anything in the sky was suddenly a UFO. The local UFO officer just did not seem up to the task to collect the information.

Satellites continue to be a source of UFO reports. Echo 1 and Echo 2 are the primary source of these. The Echo satellites were not the only UFO report generators. The Pegasus series was producing reports as well. In a May 1965 letter to Hynek, there was a list of 34 satellites that reached magnitude 3.0 or brighter. Among that list were several Russian satellites and rocket bodies. It listed Cosmos 54 as “debris” from Cosmos 56. Below is a breakdown of satellites and the number of sightings they probably produced:

Echo 1	Echo 2	Proton 1	Echo 2 RB	Cosmos 70	Cosmos 42 RB	Cosmos 54	Cosmos 58	Cosmos 58 RB	Explorer 19
25	42	6	2	1	1	1	5	3	3
Apollo mod 2	Pegasus 1	Pegasus 2	Pegasus 3	Saturn RB					
1	5	8	2	2					

This is 107 total sightings produced by Satellites. That is almost 24% of the sightings from this time period.

Next issue, I will be taking on the last four months of 1965. I can already see having to examine the Houston area separately again as I have seen case files with multiple reports in September.

#### References

1. “Project Blue Book investigations.” Fold 3 web site. Available WWW: <https://www.fold3.com/title/461/project-blue-book-ufo-investigations>
2. Project Blue Book archive. Available WWW:<http://bluebookarchive.org/> (Note: This website is no longer active but some of my files come from this location. It may become active again in the future.)
3. National Oceanic and Atmospheric Administration (NOAA). NOAA/ESRL Radiosonde Database. Available WWW: <https://ruc.noaa.gov/raobs/>
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