

SUNlite

Shedding some light on UFOlogy and UFOs

Remember, for every valid UFO judgment there were nine UFO impostors - IFOs - where the sincere witnesses were most certainly wrong.

Allan Hendry

Volume 14 Number 5

September-October 2022



Calvine UFO photo surfaces

Cover: Meteors tend to produce UFO reports. This issue covers two cases, which were probably meteors.

Left: The Calvine photograph from an original scan. Is this a hoax or one of the greatest pieces of evidence for UFOs being "something not of this earth"?

TABLE OF CONTENTS

Weeding out the Weinstein catalogue September 20, 1950 Denver, Colorado.....	2-4
UFO evidence under review: September 6, 1956. Pasadena, CA.....	4-5
The 701 club: Case 2150 Alamogordo, New Mexico. October 7, 1952.....	6
Project Blue Book case review: January - April 1966.....	7-22

In an interesting piece of news, [David Clarke found a high quality image of the Colvine UFO photograph](#). All images previous to this were very low quality and were not that impressive. The photograph released by Clarke looks very good and appears worthy of close examination. David also has released an analysis that could not find any evidence of a hoax. He thinks the photograph may be of a top secret aircraft.

In my opinion, there are only three possibilities with the photograph. These are the same possibilities with most UFO photographs showing an object that is obviously not natural or man-made:

1. A photograph of a top secret craft. This seems unlikely because the object is of such an odd shape and has never been seen before or since. Was this the only time it was flown and why was it flown in Scotland and not at a secret airbase in the desert?
2. A photograph of an exotic craft not made by man. This seems unlikely since there is no verifiable evidence that such objects exist. That does not mean they don't exist. It just means that their existence has a low probability.
3. A hoax. This possibility seems to be the more likely of the three.

While no evidence of a hoax is visible at this point, there are some problems with the story told by the photographers. [According to the daily mail, they left their place of work at 9PM on August 4th, 1990](#). They then drove to Calvine, where the photograph was taken. Considering the distance and time of day, the photograph would have been taken some time after sunset. This does not match the sky conditions in the photograph. Supposedly, there are five other photographs but those are missing.

Explanations for how the hoax was created have sprung up in discussion groups. One that has a following on metabunk was the reflection hypothesis. That being the photograph was of a rock in water and the rest of the image is just a reflection of the sky in the water. I am not overly fond of this explanation. I want to think this is a case of "Keep It Simple Stupid" (KISS) and may have involved thread/fishing line and a model (Wim Van Utrecht suggested it was a "Christmas star" tree ornament seen from the side and a toy Harrier model). Of course, there are other methods that could have been used. I did some examinations of the string theory back in SUNlite 5-3, 5-4, and 5-5. Fishing line was not visible in many of the images. The background sky has a lot to do with if the string can be seen. In the Calvine photograph, the sky background is a pretty uniform white/gray behind the object. So, it could be possible that a fishing line was used. Further evaluation will be required.

Speaking of potential UFO hoax photographs, [the Scientific Coalition for UAP studies \(SCU\) published a piece supporting the authenticity of the Gulf Breeze photographs](#). I find it interesting that a group interested in trying to present a scientific evaluation of the subject would put out a piece that supports a case that has many indications of a hoax. It was listed as an "opinion" piece. I assume using that category was to allow the writer, Keith Conry, to avoid any peer review. Conroy avoided any reference to the model and evidence presented that photograph 19 was probably a fake. His primary source was my web site about the case (and not primary sources). I am not going to re-litigate the case here since [my website on the case says enough](#). My real question about this article is why it appeared in such a "professional" UFO newsletter, where higher standards of research should appear. I suspect this has to do with the prior affiliations of many in the SCU with the Mutual UFO Network (MUFON). MUFON's leadership declared the Gulf Breeze photographs authentic despite some of their own investigators suggesting it was a hoax. Some of the SCU members may have even been involved in their promotion and that could have influenced their decision to allow the article to be published in their "journal". Science has no place for personal beliefs and this demonstrates the SCU is not interested in objective analysis.

WEEDING OUT THE WEINSTEIN CATALOG

September 20, 1950 - Denver, Colorado ¹

50.09.20	05:45ZT	USA	10 mi. south of Akron, Denver, Colorado	M	a USAF B-25 (3416th training squad.) crew	one brilliant white star-like object, accelerated and decelerated emitting sparks.				13.8
----------	---------	-----	---	---	---	--	--	--	--	------

The source of this information is from Project Blue Book's files. The date and time listed is not exactly correct. The local time was 2245 MT on the 20th. Using Zulu time means the date should have been listed as the 21st.

Source information

While the Weinstein list mentions a B-25 crew, the case file also includes a list of reports from a variety of observers in Colorado and neighboring states. These are a sample of some of the observations:

- Mrs. Borah of Eagle, Colorado sighted "five balls of fire" headed south at 2245 MT
- Capt. McFadden, First officer Hansen of United Airlines and others, saw "balls of fire" heading south over Lowry and Stapelton fields at 2245 MT
- Captain Graves, of Continental Airlines, reported a UFO that was triangular in shape. It was seen at 2245 MT "gliding along"
- Captain Gurney, flying United 648, sighted an object over St. George, Utah. It was traveling west to east and broke into four pieces. No time was given.
- A state Policeman sighted five objects in the sky over Akron, Colorado. There were estimated to be 500 feet above the ground and headed south.
- Major Taylor, of Lowry AFB, sighted two round white lights near Cheyenne Wells, Colorado at 2245 MT. They were first seen at 16,000 feet. They then descended to 11,000-12,000 feet before returning to 16,000 feet. They went north, then east, and finally towards the south.
- Mr. Wagner, at the Cornhusker Ordinance Depot (near Grand Island Nebraska), called the CAA station to report an aircraft in distress at 2247 MT. It had a bright blue light in front and white light in the rear. It appeared long and was traveling at great speed towards the south.

It is clear they were seeing the same object as the B-25 crew. The B-25 crew reported the following:

- They first saw the object as a bright star approaching them at the same altitude (8000 feet).
- They made a turn and the object appeared to also make a turn. At this point, they realized that they were going to miss the object.
- The object now either accelerated or decelerated. It is not clear. They used both words.
- It began to emit sparks, which quickly burned out.
- They then noticed the object was actually two objects. One was traveling faster than the other.
- The objects changed from white to orange.
- After 10-30 seconds, the objects disappeared.
- They estimated the initial altitude as 8000 feet but the final altitude was 8500 feet.
- They stated the object accelerated away rapidly.
- They described the object as an airplane on fire.
- They also stated it was not a conventional aircraft or jet and must have been rocket powered.
- The object was traveling towards 154 degrees magnetic (about 149 degrees true azimuth).

Analysis

All of these reports sound a lot like the Chiles-Whitted case from two years previously. However, in this instance, Blue Book/Grudge got this one correct. It was a bright fireball and there was a lot of evidence in the case file to confirm this.

Some of the descriptions in the case file, that I did not list, stated the observers thought it was a meteor. There were also additional sources in the Newspaper archive. A common AP story that appeared in multiple newspapers described Captain Gurney, of United flight 648 (one of the Blue Book file witnesses), stating he saw the meteor go from west to east and slightly south. His remark, "I've seen a lot of meteorites. But I never saw one stay in sight like that." There is also a comment that Astronomy students claimed they couldn't be meteors and the CAA control tower at Pueblo mentioned "mystery rocket ships".

Airliner's Crew Describes Behavior of Giant Meteor

DENVER, Sept. 21.— (AP) — An airliner crew had a ringside seat for the rare behavior of a meteor which apparently prompted reports of weird rocket ships flashing across Wyoming and Colorado last night.

The hundreds of reports from the ground followed a definite pattern. Witnesses told of two strange crafts scooting southeast along the eastern edge of the Rockies about 3,000 feet above the ground and between 500 and 1,000 miles an hour.

But Capt. H. A. Gurney, piloting a United airliner, believes he and his crew witnessed the incident that caused it all. And, he adds, "if I hadn't seen it from start to finish, I would have been ready to believe anything, too."

The airline crew saw the meteor as they flew just east of St. George, Utah.

"A giant meteorite — or meteor — flashed by us, traveling east and a bit south," Gurney related on landing here. "It was white hot,

shaped something like a football. The tail was almost as hot, coming out from behind like a V."

"When it was about 150 miles ahead of us, three peices broke off the head. They turned from white to red to black. But they didn't fall. They faded out without seeming to drop."

"Then that white hot nose blew into two pieces. They turned red. They just kept going into space, following the curvature of the earth and the whole thing swinging from east to southeast with the orbit of the earth."

"I've seen a lot of meteorites. But I never saw one stay in sight like that."

Reports from pilots and others who caught glimpses of the display came in all the way from northwestern Colorado. But a bulk of them followed a path from Laramie, Wyo., through Fort Collins and Greeley, across Denver, to Colorado Springs, Pueblo and Trinidad.

The CAA control tower at Pueblo referred to mystery rocket ships. The control tower at Denver's Lowery air base said they were flying horizontally. Lowery airmen agreed with astronomy students that "they couldn't be meteors."

Meteors in the Records

The American Meteoritics Society, whose members specialize in the study of meteors and meteorites, for years have collected reports of such phenomena. From a large enough number of good descriptions of a given meteor, astronomers can analyze the data mathematically and determine the meteor's radiant—the point in the heavens from which it seems to come. The meteor is then identified by its radiant and given an AMS number. The data were published in *Meteoritics*, the journal of the society, and thus made available for future research.

September 20, the same year, was a big day for meteors. At 1:35 A.M. a giant fireball (AMS 2326) roared over southeastern Illinois from north to south, leaving a luminous train visible in five states and illuminating the sky and countryside from St. Louis to Louisville and from Memphis to Knoxville. The final detonation, over western Kentucky, was heard over an area 1000 miles square and shook buildings from Paducah to Memphis. Fragments showered farms over a twenty-five mile area, struck five buildings, and penetrated one roof. About fifty pounds of meteorites dropped in Murray, Calloway County, Kentucky, and are now in the Smithsonian Institution in Washington. That same night about 10:45 P.M.,

fireballs were reported by plane crews flying over a six-state area—Idaho, Wyoming, Utah, Colorado, Arizona, and New Mexico [9, p. 115]. Similar fireballs that vanished without trace were reported on September 28, 1953 (AMS 2331); October 4, 1953 (AMS 2330); May 15, 1954; and October 27, 1954 (AMS 2337).

Stock Market Is Coasting Today

The file also contains a selection of the American Meteor Society. Unlike the unknown "Astronomy students" mentioned in the AP story, they declared this a meteor.

The UFO had all the characteristics of a meteor. It was seen over a wide area and lasted a short period of time. For most observations, the object flew in a straight path and made no sound. Any additional characteristics (low altitude, changes in direction/altitude/speed, observed craft behind the lights, etc.) are all standard misconceptions of meteor observations reported as UFOs.

Conclusion

This case was a meteor fireball. The only reason it was considered something strange is because the B-25 pilot felt it was some sort of craft. However, after examining all the reports, it is obvious the pilot was in error and he, like many "expert" observers before and after this, had conceived that the bright fireball they had seen was something else. It should be removed from the list.

Notes and references

1. Weinstein, Dominique F. Unidentified Aerial Phenomena: Eighty years of pilot sightings. NARCAP. February 2001. P. 46

2. "Airliner's crew describes behavior of giant meteor". The High Point Enterprise. Highpoint, North Carolina. September 21, 1950. P. 1
3. "Case file - September 20, 1950 Denver, Colorado" Fold 3 web site. Available WWW: <https://www.fold3.com/image/9616708>

September 6, 1956 Pasadena, California

September 6, 1950--Pasadena, California. Western Airlines pilot reported erratically moving white lights to Air Defense Command; visual confirmation from ground. [V]¹

In section V is a table with the following description:

Reported UFO to Air Defense Command; erratically moving white light source confirmed visually from ground by 1st Lt. Mark Matlock, USAF.[21]²

Footnote 21 comes from Leonard Stringfield's Civilian Research, Interplanetary Flying Objects (CRIFO) ORBIT newsletter of October 5, 1956 case 210.³

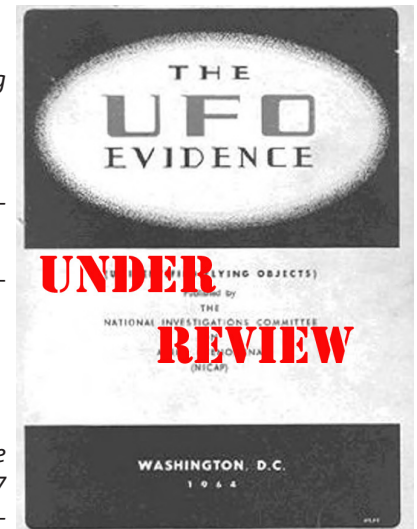
ORBIT

Stringfield's account in his newsletter read⁴:

Case 210, Pasadena, Cal, Sept. 6, 1956-The Los Angeles Times reported that members of the Air Force and the GOC spotted a strange light which moved erratically in the night sky for 47 minutes. According to the Times, 1st Lt. Mark Matlock of the Air Defense Command said, "Pasadena police had many calls from people who saw it. So did we. Our first call was from a Western Air Lines pilot. I hurried to the roof of our building and saw a white light in the sky. It was moving slowly northwest. It kind of paused and jerked in flight and then would snake along. I knew it wasn't a conventional aircraft." ... Finally two jets were scrambled.¹⁴

Footnote 14 states the information came from Viviane Machu of Los Angeles California. I assume that she sent Stringfield a newspaper clipping. A check of the LA Times archive revealed the story appeared in the September 10, 1956 edition.⁵ It mentions the events were "last Thursday", which was the 6th.

Checking the Newspaper archive reveals that the Pasadena Independent noted something happening on the evening of the 6th but it seems that those reports did not agree with the LA Times account. Many people were seeing a bright object (or two) in the East.⁶ This, as the paper noted, probably involved the planet Mars, which was at opposition and exceptionally bright at magnitude -2.8. Fomalhaut was also in the same area of sky and could have been the second object reported. However, this is not the sighting covered by "The UFO Evidence". On September 11, 1956, the Independent reported that the object visible for 47 minutes mentioned by the LA times was an unknown helicopter. However, they could not locate who was flying it.⁷ I could find no additional information about sightings on the 6th in Pasadena.



Strange Object Seen Over Pasadena for 47 Minutes; Air Force Baffled

Although in Northern Ireland they are able to grab their flying saucers, in Pasadena they merely spot 'em.

With due respect to Ireland's Thomas Hutchinson, who claims one escaped from his grasp, the observers who said they spotted an as-yet-unidentified flying object over Pasadena last Thursday are greater authorities at sky gazing.

They are members of the U.S. Air Force and civilian members of the Ground Observer Corps. Their observation points were the Air Defense Filter Center at 171 S Grand Ave., Pasadena, another observation post in that city and one in Whittier.

The unidentified object was a strange light which moved

erratically in the night sky over Pasadena for 47 minutes.

"Pasadena police had many calls from people who saw it, starting a little after 10 p.m.," disclosed 1st Lt. Mark Matlock of the Air Defense Filter Center. "So did we. Our first call was from a Western Air Lines pilot.

"I hurried to the roof of

THE WEATHER

Smog today. Alert possible. Light to heavy eye irritation 9:30 a.m. to 2:30 p.m. Morning burning prohibited.

U.S. Weather Bureau forecast: Clear and continued hot today and tomorrow. High today about 105. Yesterday's high, 102; low, 70.

our building and saw a white light in the sky. It was moving slowly northwest. It kind of paused and jerked in flight and then would snake along.

"I know it wasn't on a conventional aircraft and thought it must be a helicopter or dirigible. But telephone checks showed that none was aloft."

An AF radar station on San Clemente Island kept calling for information.

Miss Patricia Pearson, a volunteer observer at the center, said she saw three lights, two white ones and a red one. All the observers agreed that the lights were constant.

Finally, two jets were "scrambled" from Oxnard Air Force Base. They found nothing.

PASADENA SKY ENDS UP WITH TOO MANY MARS

Mars-conscious Pasadena-ans took a squint up in the east late last night and began phoning The Independent.

"There are two of them," one man insisted. "We are being invaded," another said hopefully. "We are not," said the switchboard operator. "Help!"

Well, it was flying saucer time all over again.

The red planet, hovering only 35,120,000 miles away in one of its closest visits to earth, loomed bright in the sky. Moisture in the air gave it an added glow. But callers swore there were two of them. "Like two peas in a pod," said one man.

But if you are reading this morning you can rest assured that there has been no invasion. Or have you looked outside yet?

HELICOPTER, SAYS CD CENTER, BUT FLYING OBJECT MYSTERY

Air Force ground observer authorities here claimed yesterday that the unidentified flying object which appeared for 47 minutes over Pasadena Thursday night was a helicopter.

Capt. Joe Fry, commander of the Air Defense Filter Center here, indicated, however, that the object has not been located. It disappeared before planes could intercept it after it was spotted.

Phone calls flooded into the local police station and the filter center after a strange light appeared in the sky and moved erratically for 47 minutes until it disappeared.

Blue Book file

Project Blue Book did have a case file for September 6.⁸ Details of that sighting involved a round gray object traveling East to West in a straight line at 0810Z. The record card gives conflicting information about the duration for their September 6 sighting. The duration is listed as 30 seconds but the comments mentions 30 minutes. There is no supporting report in the file. Blue Book identified this as an aircraft. While this event happened on the morning of the 6th, the event described by the LA Times was on the evening of the 6th.

What is more interesting is that the same file has an additional sighting on 9 September.⁹ This involves an object that was visible in the west for 41 minutes. The record card states it was stationary at an elevation angle of 45 degrees. This was between 2208 and 2255Z. While there is only a brief teletype report in the case file, the record card mentions that the object eventually went behind trees indicating it was slowly decreasing in elevation. It also mentioned an East to West motion. Blue Book explained this object as Venus.

Analysis

I agree with Blue Book's evaluation of the September 6 and 9 cases. The sighting on the 6th, assuming the duration was 30 seconds, had all the characteristics of an aircraft. The September 9th case was recorded as being between 2208-2255Z, which was 1508-1555 PDT. Venus was a morning object but was visible in daylight in the west if one used binoculars or had a really clear sky. It is too bad the teletype of the September 9 case was so brief.

It is possible that the time listed in the teletype, on the 9th, was local time but we can't be sure. If it were local time, and the date in the paper was wrong about this particular event, this sighting would be consistent with what was described in the media account. Lt. Matlock is even listed in the report as one of the observers. Despite the similarities with the news account, we have to assume it is Zulu time and is unrelated what was described in the LA Times.

Since the Blue Book sightings don't match the account in the news media, we have to assume they are different sightings. As a result, we only have the story in the LA Times as a source of information. The media account gives us the following observations:

- It was visible for 47 minutes after 10PM
- The Pasadena defense center received a call from Western Airlines pilot to alert them of the UFO. No details exist for this sighting.
- Apparently, based on this report, Lt. Matlock had gone to the roof of the building and saw a light in the Northwest that slowly drifted in that direction.
- Another witness saw three lights. Two were white and one was red.
- Two jets were scrambled but there is no information about what they found.
- The San Clemente radar station was calling for information about the UFO.

The object was low in the west around 10PM. The bright star Arcturus matches that description. It set around 11 PM at an azimuth of 294 degrees. Also visible was the star Antares and the planet Saturn in the Southwest (The moon was also present on the 9th). Saturn set around 10:30 PM and Antares set around 10:45 PM. These may be the additional objects mentioned by the other witness if they were looking in the same direction but there is not enough information to draw that conclusion. The fact that the radar had to call to locate any possible unknowns tends to indicate that the object was not visible on their display. If so, that reinforces the possibility that the sighting was astronomical in nature.

Conclusion

While the case can be considered "Insufficient information", there appears to be a solution for at least one part of the sighting. The sighting by LT. Matlock was possibly the star Arcturus setting in the West-Northwest. The case should be classified as "Possibly Arcturus/insufficient information". If it is "insufficient information", one cannot classify this as "evidence" and it should be removed from the "UFO 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. 136
2. *ibid*. P. 36
3. *ibid*. P. 47
4. Stringfield, Leonard. "The great saucer boom - A preliminary report U.S.A." ORBIT. October 5, 1956. P. 4
5. "Strange object seen over Pasadena for 47 minutes; Air Force baffled". Los Angeles Times. Los Angeles, California. September 10, 1956 P. 1
6. "Pasadena sky ends up too many Mars" Pasadena Independent. Pasadena, California. September 7, 1956. P. 1

7. "Helicopter, says CD center, but flying object mystery". Pasadena Independent. Pasadena, California. September 11, 1956. P. 3
8. "Case file - September 6, 1956 Pasadena, California" Fold 3 web site. Available WWW: <https://www.fold3.com/image/7070687>
9. "Case file - September 9, 1956 Pasadena, California" Fold 3 web site. Available WWW: <https://www.fold3.com/image/7070689>

THE 701 CLUB: CASE #2150 ALAMOGORDO, NEW MEXICO OCTOBER 7, 1952

Don Berliner's list describes the case as follows:

Oct. 7, 1952; Alamogordo, New Mexico. 8:30 p.m. Witness: USAF Lt. Bagnell. One pale blue oval, with its long axis vertical, flew straight and level for 4-5 seconds, covering 30 in that time.¹

Brad Sparks has no additional information.²

The Blue Book file³

The Blue Book file consists of a report form and statement by the witness:

- The UFO was seen at 2030 MST.
- The officer and his wife were in a car at a drive-in. The wife first noticed the object in the northwest.
- The object went from Northwest to Northeast in 4-5 seconds and then faded.
- The object maintained a straight line course and maintained a constant elevation angle of about 20 degrees.

Analysis

While there does not appear to be a lot of information here, I think what is available is enough to draw a conclusion. The only reason I can see this was listed as unknown was because of the reported shape. Any shape perceived probably had more to do with the fact they were looking through a windshield, were observing an object that was rapidly moving, and the duration it was visible was a brief period of time. Once the shape is dismissed as due to the witnesses interpretation of what was seen, we can identify this as a probable meteor because all of the characteristics reported were the same as one would expect from a bright meteor.

Conclusion

There is no reason to reject the meteor explanation for this sighting. It was short duration, traveled in a straight line, and then dimmed out. All of these are characteristics of a meteor. It should be labeled "Probable meteor" and removed from the list of Blue Book unknowns.

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. 175
3. "Case file - October 7, 1952 Alamogordo, New Mexico". Fold 3 web site. Available WWW: <https://www.fold3.com/image/6383733>

Project Blue Book case review: January - April 1966

This is the latest edition of the Project Blue Book case review covering January through April 1966. 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.

January 1966

Date	Location	BB explanation	My evaluation
Jan	Poulsbo, WA	Insufficient data	Agreed. No date. Witness new it was a Saturday but could not recall exact date.
1	Mather AFB, CA	Meteor	Agreed
1	Liberty Center, OH	Moon	Agreed
3	Waverly, NY	Stars/Planets	Agreed. Probably Capella, Jupiter, and Betelgeuse.
3	Miamisburg, Trotwood, Oberling, OH	Meteor	Agreed
3	Burbank, OH	Advertising aircraft	Airplane contrail illuminated by moon. (witness stated the moon was not visible but it was)
3	PA, VA, NY	Meteor	Agreed
3	West Duluth, MN	Meteor	Agreed
4	Dayton, OH	Aircraft	Agreed
4	Buffalo, NY	Meteor	Agreed
4	Utica, NY	Insufficient data	Agreed. 17 year old reported multiple sightings over a 3-4 hour period. Witness felt they were same object but description indicates they were separate objects. Details of each sighting were insufficient for evaluation.
4	Cincinnati, OH	Satellite	Agreed. Echo I
4	Dayton, OH	Meteor	Agreed
4	NJ area	Insufficient data	Agreed. Missing positional data.
5	Syracuse, NY	Aircraft	Agreed
7	3 Mi SW of Georgetown, AL	Psychological	Agreed. 18-year old sighting. Single witness reporting seeing a craft over the highway for 1-2 minutes.
9	Houston, TX	Jupiter	Agreed
9	Sheridan, IN	Insufficient data	Possibly Venus
9	Houston, TX	Insufficient data	Aircraft
9-14	Indianapolis, IN	Satellite	Agreed. Echo 1
10	S. of Ellsworth AFB, SD	Aircraft	Agreed
11	Pacific	Satellite decay	Agreed. Cosmos 53 rocket. See Molczan.
11	Wayne, NJ	Aircraft	Agreed
11	Lewisburg, PA	Psychological	Agreed. Witness reported talking to aliens.
13	Houston, TX	Insufficient data	Agreed. No positional data
14-17	Weston, MA	1. Unidentified 2. Cloud	1. Possibly Pegasus 1 satellite 2. Agreed. Barium release from Wallops Island launch.
15	Houston, TX	Insufficient data	Possibly Pegasus 3 Satellite
15	Houston, TX	Aircraft	Agreed
15	Haslett, MI	Meteor	Agreed
16	Saugerties, NY	Jupiter	Agreed
16	Waikiki Beach, HI	Daylight meteor	Agreed
16	Van Buren, IN	Venus	Agreed

17	Colverdale, OR	Insufficient data	Agreed. Missing elevation data.
18	Far East	1. Satellite 2. Insufficient data	1. Agreed. Pegasus 3 or 1 2. Possible aircraft
20	North of Marlboro, NY	Aircraft	Agreed
21	Big Sur Hot Springs, CA	Aircraft	Agreed
26	Bridgeport, NY	Moon	Agreed. Witness probably got direction wrong because they were driving on a road that shifted from south to southeast and then to southwest. Witness reported object in SE but moon was to west. The description matches the setting moon.
30	Morocco	Meteor	Agreed
31	Atlantic	Contrails	Luna 9 rocket decay. See Molczan.

February 1966

Date	Location	BB explanation	My evaluation
1	Morocco	Meteor	Agreed
2	Duluth, MN	Mars	Agreed
2	Salisbury, NC	UNIDENTIFIED	Arcturus. See SUNlite 12-1
4	Atlanta, GA	Insufficient data	Possibly Arcturus. 17-year old witness woke up early in morning and saw object through window.
4	Houston, TX	Conflicting data	Agreed. Witness gave two different times for event.
6	Nederland, TX	UNIDENTIFIED	UNIDENTIFIED
7	Tampa, FL	Stars/Planets	Sighting was after sunrise. Possible birds.
12	Duson, LA	Aircraft	Agreed
15-16	Greenville, OH	Moon	Agreed
16	Brunswick NAS, ME	1. Jupiter 2. Insufficient data	Conflicting data. This is a confusing report. Witness reported three objects landing to the east while driving in a vehicle in report form. Initial report made no mention of landings or multiple objects. Witness reported bright moonlight but moon was not visible.
17	Centerville, OH	Venus	Agreed
18	Pacific	Meteor	Agreed
20	Fairborn, OH	Aircraft	Agreed
22-23	Sandyhook, CT	Venus	Agreed
24	Rochester, NY	1. Insufficient data 2. Photo: Insufficient data	1. Unreliable report. Photograph by 15-year old and submitted in July of 1967. The late date makes it unreliable. Based on submitted form, visual observation could have been of setting moon. Witness could not recall if moon was visible (it was and in the location he describes) and his sketches are somewhat similar to the crescent moon. 2. Agreed. Images shows two blurry smears. No details visible.
26	Bartlett, NH	Aircraft	Agreed
26	Farmington, IL	Insufficient data	Agreed. Form never returned by witness
26	Manchester, NH	1. Conflicting data 2. Photo: Insufficient data	1. Agreed. Witnesses disagreed on sky conditions (cloudy vs clear) and direction of observation. 2. Agreed. Image just shows a white light.
28	Sells, AZ	Venus	Agreed

March 1966

Date	Location	BB explanation	My evaluation
Mar	Phoenix, AZ	Film/processing defect	Agreed. Image shows twilight sky. UFO not visible in image in files but witness stated there was a red light surrounded by some white ones. Witness submitted one year after the event and never saw the objects when photographing. Original slide not submitted.
Mar	Urbana, OH	Insufficient data	Possibly Antares. Witness saw object on two nights around same time.
Mar	Sylvania, OH	Insufficient data	Agreed. Witness reported having photographs but did not submit them despite requests for them.
Mar	Hopewell, VA	Insufficient data	Agreed. Young witness (probably pre-teen) reported seeing a blob of light in sky for a few seconds. No other details.
Mar	Anaheim, CA	Insufficient data	Agreed. 10-year old submitted report with no date or time. Possible star in NW.
1	Stafford Springs, CT	Conflicting data	Echo 1 satellite. Report by 10-year old. Direction listed SE to NW but Echo made pass around same time from SE to NE.
1	Beloit, WI	Insufficient data	Agreed. Probably a star or planet but witness gave no positional data.
2	Cambria, WI	Aircraft	Agreed
2	Atlantic	Insufficient data	Echo 1
3	Freer, TX	Venus	Agreed
3	Aswego, NY	Conflicting data	Echo 1 (conflicting data had to do with reported size and details observed)
4	Bluffton, IN	Aircraft	Agreed. 12 year old reported object going south to north and crossed moon. Moon to the west. Witness also did not know time zone.
6	Los Angeles, CA	Insufficient data	Agreed. Report revolved around a photograph that the witness did not provide.
8	Langley AFB, VA	Venus	Agreed
8	Dayton, OH	Clouds/Contrails	Agreed
9	Brazil, IN	Aircraft	Echo 2
10	Youngstown, OH	Venus	Agreed
11	Middletown, PA	Aircraft	Case file missing
12	Moultrie, GA	Moon	Agreed
13	Baker, MT	Venus	Agreed
13	Artigo, Lone Rock, WI	Meteor	Agreed
13-14	Springfield, Clyde, OH	1. Aircraft 2. Jupiter	Insufficient data. The only reference to this case is a news paper clipping with a typed letter that did not contain details.
14	Youngstown, OH	Venus	Agreed
14	Trenton, MI	Conflicting data	Agreed. Possible sighting of Cosmos 70 with 13-year old witness exaggerating movements after reading about UFOs. Witness gave conflicting details regarding object's behavior.
15	Orfordville, MI	Balloon	Agreed. Witness stated it moved against wind but surface winds and 6000 feet winds supported trajectory
16	Uniontown, OH	Satellite	Agreed. Echo 2.
16-17	Norwood, MA	Unreliable report	Agreed Report from 6-year old.
16-17	Whitstone, NY	Insufficient data	Agreed. Witness could not give firm date and appeared to be pre-teen or teenager. Reported strange flash of light that pulsat-ed for three minutes.

16-18	Fair Lawn Village, OH	Meteor	Agreed
17	Milan, MI	Insufficient data	Unidentified. While the data in the file is sufficient to identify potential solutions, The description of the object does not lend itself to explanation. Observer reported same object on three different occasions. All were at night. All described a craft of some kind. One even involved a landing. One event lasted 90 minutes. The negative on this is the witness that is the only individual making the report.
17	New Palestine, IN	Insufficient data	Possible aircraft. Witnesses reported multiple objects with red lights (one flashing).
17	Kokomo, IN	Satellite	Agreed. Echo 2.
18	Kansas City, KS	Aircraft	Echo 2
18	Dayton, OH	Satellite	Agreed. Echo 1
19	Bethesda, MD	1. Satellite 2. Stars/planets 3. Meteor	1. Agreed. Echo 2 2. Agreed. Arcturus 3. Agreed
19	Blacksburg, VA	Satellite	Agreed
20	Mims, FL	UNIDENTIFIED	Jupiter or Capella See SUNlite 14-2
20	Surfside, TX	Blown Transformer	Agreed
20	Elyria, OH	Insufficient data	Sirius
20	Twig, MN	Arcturus	Agreed
20	Houston, TX	Insufficient data	Aircraft
20-21	Michigan Flap	Marsh gas	Agreed. After reading Hynek's report, I felt this explanation was acceptable concerning the sightings in the file.
21	Cambridge, PA	Aircraft	Agreed
21	Handsboro, MS	Aircraft	Agreed
21	Condon AFS, OR	Satellite	Agreed. Echo 2.
22	Richmond, ME	Searchlights	Agreed
22	Canon AFB, NM	Venus	Agreed
22	Vanwert, OH	Clouds/Contrails	Agreed
22	Normal, IL	Aircraft	Agreed
22	Houston, TX	Meteor	Agreed
22	Dayton, OH	1. Satellite 2. Insufficient data	1. Agreed Echo 2 2. Echo 1 and Cosmos 54.
22	Security, CO	Meteor	Agreed
22	Houston, TX	UNIDENTIFIED	UNIDENTIFIED
23	Ft. Pierce, FL	Insufficient data	Agreed. Two boy scouts reported seeing an object crash into the ground and explode. However, there were no physical specimens provided even though they knew exactly where it landed.
23	New Orleans, LA	Aircraft	Agreed
23	Alvion, CA	1. Stars/Planets 2. Photo: Lighthouse	1. Agreed. Most likely Sirius, Betelgeuse, Jupiter, and Capella. 2. Agreed. Stars/Planets were underexposed on film (ISO 25 film to slow to record much).
23	Klamath, CA	Stars/Planets	Agreed. Most likely Sirius, Betelgeuse, Jupiter, and Capella.

23	Ft. Jackson, SC	1. Aircraft 2. Stars/Planets 3. Venus	1. Agreed 2. Agreed. Probably Altair or Vega. Insufficient information to determine which. 3. Agreed.
23	Temple, OK	UNIDENTIFIED	UNIDENTIFIED
23	Portsmouth, NH	Aircraft	Agreed
23	Houston, TX	Satellite	Agreed. Echo 2 Rocket Body
24	Kilamath, OR	Jupiter	Sirius
24	Lincoln, NE	Insufficient data	Conflicting data. Witnesses reported moon being visible but moon was not in sky. Apparent confusion about date as it was initially reported to be in March or February before a date was determined.
24	Sheboygan, WI	Aircraft	Agreed
24	Central, WI	Aircraft	Agreed
24-5Apr	San Francisco	Satellite decay	Meteor
25	New York, NY	Insufficient data	Agreed. The only source of information is a letter written by young adult with no specific details about sighting of multiple objects.
25	Macon, GA	1. Satellite 2. Aircraft	1. Agreed. Echo 2 2. Agreed
25	Hammet, CA	Insufficient data	Jupiter
25	Chicago, IL	Insufficient data	Possible balloon. Object moving with direction of wind.
25	Truax Field, WI	Insufficient data	Possible balloon. Object moving with direction of wind.
25	Houston, TX	Venus	Agreed
25	Portland, ME	Satellite	Agreed. Possibly Cosmos 44 Rocket Body
25	Pine Bluff, AR	Satellite	Aircraft (witness reported red flashing light)
25	Toledo, OH	Moon	Agreed
25	Cambria, CA	Aircraft	Agreed
25	Colorado Springs, CO	Stars/Planets	Agreed. Very probably Sirius, Jupiter, Capella, and Rigel/Betelgeuse
26	Erlanger, KY	Satellite	Agreed. Possibly Echo 1
26	Preble County, OH	Satellite	Agreed. Possibly Explorer 19
26	Texahoma, OK	UNIDENTIFIED	UNIDENTIFIED
26	Greenvield, WI	Insufficient data	Agreed. No directional information. Probably Jupiter setting.
26-7	Kent, Tacoma, McCord AFB, WA	Balloon	Agreed
27	Greenville, Vandalia, Piqua, OH	Venus	Agreed
27	Winnfield, LA	Meteor	Agreed
27	Rome, NY	Aircraft	Agreed
27	Bridgeton, NJ	Clouds/Contrails	Agreed
27	Between Salem and Ash Flat, AR	Insufficient data	Possible aircraft
27	Xenia, OH	Insufficient data	Agreed. Witness saw multiple lights around the sky moving about. No clear directions/course given.
27	Swansee, MA	Moon	Agreed
28	Rome, NY	Insufficient data	Capella. Data is not clear but witness appeared to indicate the object was in the NW at 45 degrees elevation. Capella was at 23 degrees in NW.

28	Malden, MA	Venus	Agreed
28	Sulpher Grove, Oldtown, OH	Stars/Planets	Agreed. One witness thought it was a "small star". Appeared stationary in the east with some motion of jumping up and down. One witness thought this motion was an illusion. Possibly Enif.
28	Colorado Springs, CO	Venus	Agreed
28	West Hampton Beach, NY	Insufficient data	Possible sighting of Echo 1 Satellite. 14-year old witness viewed object through window.
28	West Milton, Kettering, Fairborn, OH	Satellite	Agreed. 0030Z - Echo 2 0050Z - Pegasus 2 0355Z - Echo 1
28	Toledo, OH	Conflicting data	Agreed. Original sighting was apparently of Arcturus but witness' story became more elaborate with airplane pursuing object.
28	Kettering, OH	Satellite	Agreed. Pegasus 2
28	Toledo, OH	Aircraft	Agreed
28	Eastmont, OH	Satellite	Agreed. Northern Satellite was Echo 2. Southeastern satellite was Echo 1.
28	Dayton, OH	Insufficient data	Agreed. No positional data.
28	Toledo, OH	Stars/Planets	Objects reported being seen visually were probably birds. Photographs not in file but evaluation indicated they were of the stars and moon.
29	Enon, OH	Aircraft	Agreed
29	Lacrosse, WI	Moon	Agreed
29	Findlay, OH	1. Venus 2. No image	1. Agreed 2. Agreed. Probably underexposed the film.
29	Ottawa, OH	Insufficient data	Duplicate report. This appears to be a duplicate entry for the 30 March sighting, which is labeled UNIDENTIFIED. 15-year old witness dated letter as 29 March but filled out form as 30 March. This resulted in two record cards/two entries for same sighting.
29	Wilmington, DE	Jupiter	Sirius. Object reported to the south and not to the west. Description included scintillation effects, which Jupiter normally does not do when it is not close to the horizon (Jupiter at 52 degrees elevation).
29	Freeport, Far Rockaway, NY	Stars/Planets	Agreed. Probably Arcturus.
29	Brighttown, NJ	Insufficient data	Agreed. No positional data.
29	Houston, TX	Aircraft	Agreed
29	Trenton, NJ	Stars/Planets	Agreed. No direction to identify which star or planet.
29	Henniker, NH	Stars/Planets	Agreed. Witness reported multiple objects while watching sky between 9PM and 3:45 AM. All observations matched positions of stars rising and setting.
29	Stanford, CT	Stars/Planets	Agreed. No direction to identify which star or planet.
29 Mar -5 Aug	East Hampton, NY	1. Aircraft 2. Conflicting data 3. Aircraft 4. Aircraft	Agreed to all. A collection of sightings by an individual who seemed prone to seeing UFOs which appeared to be aircraft.
30	Pacific	Meteor	Agreed
30	Beverly Shores, IN	Venus	Agreed

30	Wall Township, NJ	Insufficient data	Agreed. I think this is a possible hoax. 13-year old witness with a simple camera. Photographs could have been a model tossed into the air and photographed. Witness enjoyed much local publicity. BB labeled it as insufficient evidence because details about the camera lens focal length were missing.
30	Kettering, OH	Satellite	Agreed. Echo 1
30	Ottawa, OH	UNIDENTIFIED	UNIDENTIFIED
30	Houston, TX	Satellite	Agreed. Echo 1
30	Lewisburg, IN	Insufficient data	Possible sighting of Echo 1
30	Marnette City, WI	Insufficient data	Agreed. Second hand report lacking details.
30	Topeka, KS	1. Stars/Planets 2. Processing aberration	1. Agreed. Jupiter, Arcturus, and Spica appear to be likely sources. 2. Photographs not in case file.
30	Wausau, WI	Capella	Arcturus (Object in NE not NW)
31	Wichita Falls, TX	Aircraft	1. Jupiter 2. Aircraft
31	Lakehurst, NJ	Insufficient data	Possible meteor
31	Colorado Springs, CO	Jupiter	Probably Capella (Jupiter had already set), Procyon, or the moon. Not clear what photographs show as they are of poor quality. Wide field image appears to be moon trailing during time exposure. Blue Book identified star as Alphecca but this was not low in west. Reproduced images inadequate for evaluation.
31	Chicago, IL	Satellite	Aircraft (witness reported flashing light)
31	Dayton, OH	Insufficient data	Agreed. No information other than an object like a parachute in sky that was rotating.
31	Panama City, FL	Satellite	Agreed. Possibly Cosmos 70.
31	Houston, TX	Venus	Agreed
31	Roy, UT	Gulls	Agreed
31	Selma, AL	Aircraft	Agreed
31	Long Branch, NJ	Insufficient data	Possibly Jupiter or Capella
31	Uttica, NY	Aircraft	Agreed
31	Rehoboth, MA	Aircraft	Agreed
31	Toms River, NJ	Aircraft	Echo 1
31	Fallmouth, MA	Meteor	Agreed
31	Houston, TX	Arcturus	Agreed
31	LaJunta, CO	1. Aircraft 2. Satellite	1. Agreed 2. Agreed Echo 2
31	Columbus, OH	Insufficient data	Agreed. Witness reported landing at OSU campus. No further information available.
31	Gunterville, AL	Aircraft	Agreed
31	Highland Heights, KY	Sirius	Agreed
31	Ent AFB, CO	Stars/Planets	Agreed. Probably Arcturus
31	Ely, NV	Aircraft	Agreed in part. This is a collection of sightings between March and April 1966 made by one witness and her friends. Aircraft may be the source of some of the sightings. However, several satellites make good candidates. The Cosmos 58 rocket body may have been the source of several of the sightings in early April.

April 1966

Date	Location	BB explanation	My evaluation
Spring	Raleigh, NC	Insufficient data	Meteor. No date given but description matches meteor.
April	Vandalia, OH	Insufficient data	Agreed. No date.
1	Moorestown, NJ	Aircraft	Agreed
1	Bristol, VT	Moon	Agreed
1	Falmouth, MA	Balloon	Agreed
1	Shreveport, LA	Insufficient data	15-year old witness. Possible aircraft.
1	Salem, AR	Chaff	Agreed
1	Houston, TX	Satellite	Agreed. Possibly Echo 2 rocket body
1	LaGrange, GA	Stars/Planets	Agreed. Probably Betelgeuse, Jupiter, Capella.
1	Tangier, OK	Meteor	Agreed
1	Riverton, IL	Aircraft	Agreed
2	Pacific	Meteor	Agreed
2	Houston, TX	Aircraft	Agreed
2	Truth or Consequences, NM	Aircraft	Agreed. Witness' report was filed one month later and could not remember if moon was even visible (it was and in direction he was looking). Witness was looking towards El Paso and White Sands/Alamogordo. Record card has Zulu time incorrect. Actual Zulu time was 0249Z (MST = Z-7hrs)
2	Nigeria, West Africa	Aircraft	Satellite. Pegasus 3.
2	Gainesville, FL	Insufficient data	Agreed. Witness wrote letter, which lacked positional data, course, duration.
2	Brooklyn, NY	Psychological	Agreed. Witness kept reporting UFOs following him and firing a beam at him.
3	Union, NJ	Unreliable report	Agreed reports filed by 8 and 10-year olds. Forms completed one year latter.
3	Madison, WI	1. Aircraft 2. Electric light	1. Agreed 2. Agreed. All that is visible in the image is a squiggly line, which is from a distant light of some kind.
3	Coney Island, NY	Satellite	Agreed. Saturn rocket body.
3	Waukesha, WI	Insufficient data	Possible aircraft
3	Harrisville, MI	Aircraft	Agreed
4	Tacoma, WA	Aircraft	Agreed
4	East of Haga, FL	Insufficient data	Possible hoax. Witness reported examining landed craft that took off when he attempted to touch it. No evidence of craft landing in location described. Witness did not fill out report form.
4	Corpus Christi, TX	Insufficient data	Possible aircraft/contrail. Witnesses claimed object was moving very fast but it was visible for 15 minutes and moved north with a trail. Seen near sunset.
4	Cincinnati, OH	Insufficient data	Agreed. The only information is a handwritten letter by a young individual.
5	Alto, TN	UNIDENTIFIED	UNIDENTIFIED
5	Lycoming, NY	UNIDENTIFIED	UNIDENTIFIED
5	Brooklyn, NY	Antares	Agreed
5	Cincinnati, OH	Aircraft	Possible moon setting.
5	Loveland, OH	Moon	Agreed (Record card has wrong time - form indicates it was 1100Z and not 2300Z)

5	Kittery, ME	Insufficient data	Agreed. No positional data.
5	Houston, TX	Aircraft	Satellite. Pegasus 2
5	Philadelphia, PA	Aircraft	Possibly Capella
5	San Angelo, TX	Aircraft	Case file missing
5	Orlando AFB, FL	Jupiter	Agreed
5	Iowa City, IA	Stars/Planets	Insufficient data. Directional data missing despite multiple witnesses.
6	Wauwatosa, WI	Meteors	Agreed
6	Houston, TX	Aircraft	Agreed
6	Enid, OK	Meteor	Agreed
7	Bradford, RI	Aircraft	Agreed
7	Long Beach, CA	Insufficient data	Agreed. 8-year old making report. No positional data and questionable reliability.
7	Adamsville, MI	Arcturus	Agreed
7	Shreveport, LA	Reflecting ground light	Agreed. Teens reported seeing lights moving back and forth above tree tops. Local carnival in that direction.
8	Ellenville, NY	Moon	Agreed. Objects observed by teens through window of building for twenty minutes.
8	Eastman, GA	Meteor	Agreed
8	Bossier City, LA	Reflection	Agreed. This appears to be similar to the Shreveport sighting. Bossier city is adjacent to Shreveport.
8	Houston, TX	Meteor	Agreed
8	Schenectady, NY	Aircraft	Agreed
8	Colorado Springs, CO	Stars/Planets	Agreed. Insufficient data to determine which stars or planets.
8	Colorado Springs, CO	Meteor	Agreed
9	Philadelphia, PA	Conflicting data	Agreed. Witness gave different time than from initial report.
9	Dalton, NY	Aircraft	Agreed. Report from 15-year old
10	Garden City, MI	1. Hoax 2. Man-made object	1. Agreed. Photographs appear to be of an object that was thrown in the air and photographed. 15 and 16-year olds involved. 2. Agreed
10	Colorado Springs, CO	Birds	Agreed
10	Osterville, MA	Meteor	Agreed
10	Battlecreek, MI	Aircraft	Agreed
11	Sharpsville, PA	Moon	Agreed
11	Greensburg, PA	Aircraft	Agreed
11	Teaneck, NJ	Aircraft	Agreed
11	Millard, NE	Sirius	Agreed
11	Colorado Springs, CO	Artillery Flares	Agreed
11	Catskill, NY	Insufficient data	Possible aircraft
11-14	Tampa, FL	Unreliable report	Possible aircraft/birds. Witness considered unreliable because they were a "repeater".
12	Brookville, IN	Aircraft	Agreed
12	Dewitt, AR	Venus	Agreed
12	Waterloo, IA	Aircraft	Possible balloon
13	Boston, MA	Insufficient data	Possible aircraft. Report filed by 9-year old.
13	Syracuse, NY	Meteor	Agreed
14	Kettering, OH	Aircraft	Possible meteor

14-15	Staten Island, NY	Venus	Agreed
15	Alexandria, VA	Venus	Agreed
15	Pueblo, CO	Balloon	Agreed
15	Salem, MA	Aircraft	Agreed
15	Bovey, MN	Jupiter	Capella
15	Colorado Springs, CO	Aircraft	Agreed
15	Arvada, CO	Balloon	Agreed
15	Houston, TX	Balloon	Agreed
15	Superior, WI	Meteor	Agreed
15	Miles City, MT	Unreliable report	Possible parahelia.. Witness' estimated location was within 10 degrees of suns position. Unreliable based on witnesses responses to questions.
16	Newburgh, NY	Aircraft	Agreed
16	Columbus, IN	Aircraft	Possible meteor. Report by 12-year old.
16	Colorado Springs, CO	Meteor	Agreed
16	Colorado Springs, CO	Stars/Planets	Agreed. Possibly Antares.
17	Millersville, TX	Reflection	Agreed
17- 7 Jul	Laker Carmel, NY	Aircraft	Multiple causes. Observers reporting multiple objects over this time period that could be aircraft, satellites, stars, and meteors. Hynek's note on the card is "The frequency of these reports by these particular people makes the whole situation suspect". The one sighting that had a form submitted with the data filled in appears to have been observations of Jupiter, Aldebaran, Capella, Betelgeuse, and Sirius.
17	Tampa, FL	Satellite	Agreed. Echo 1
17	Ravenna, Mantun, OH	1. Defects 2. Satellite 3. Venus	1. Agreed. Film was fogged. Nothing of significance on prints/negatives in file. 2. Meteor 3. Agreed See my examination of this case at http://www.astronomyufo.com/UFO/Venusufo.htm
17	Philomath, OR	Venus	Agreed
17	Teaticket, MA	Aircraft	Agreed
17	Sioux City, IA	Stars/Planets	Agreed. Probably Jupiter or Capella. Insufficient data to determine which.
17-19	New Castle, ME	Stars/Planets	Agreed. Witness reports seeing multiple objects at different times. All appeared to have been either stars/planets or meteors.
18	Norfolk, VA	Insufficient data	Possible prank fire balloon. Drifted with wind and debris observed apparently falling off object.
18	Ranton, WA	Insufficient data	Possibly Vega. Report is confusing but object was visible in East for 26 minutes slowly rising. Witness thought aircraft had near miss/collision with it.
18	Onchiota, NY	Aircraft	Agreed
18	Centerville, OH	Aircraft	Agreed
18	Brunswick, ME	Meteor	Agreed
18	Battlecreek, MI	Insufficient data	Agreed. Witness reported object followed car but have no direction of travel for vehicle.
18	Laos	Meteor	Agreed

19	Wappingers Falls, NY	Meteor	Agreed
19	Dayton, OH	Aircraft	Agreed
20	Barre, VT	Balloon	Agreed
20	Newport News, VA	Aircraft	Agreed
20	Orlando AFB, FL	Sirius	Agreed
20	Apopka, FL	Aircraft	Agreed.
20	Albany, NY	Aircraft	Agreed
21	Lima, OH	Insufficient data	Agreed. Just a letter. No time or duration given.
21	Napa, Camp Pendleton, LA, CA	Meteor	Aeronomy launch from Tonopah Nevada (See San Mateo Times final edition April 21, 1966 p.1)
21	St James, NY	Meteor	Agreed
21	Lewiston, ME	Meteor	Agreed
21	Miamisburg, OH	Aircraft	Agreed
22	Belchertown, MA	Insufficient data	Possible aircraft. Report by 12-year old
22	Ovid, Bannister, MI	Insufficient data	1 - 2. Possibly Arcturus 3. Combination of Echo2 pass and Venus
22	Newburgh, NY	Meteor	Agreed
22	Kingston, MA	Insufficient data	Contrail at sunset
22	Willston Park, Long Island, NY	Aircraft	Agreed. One observer identified it as helicopter with illuminated advertising sign.
22	Brunswick, ME	1. Aircraft 2. Stars/Planets	1. Agreed 2. Agreed. Probably Sirius and Jupiter.
22	Centerville, OH	Aircraft	Agreed
22	Akron, OH	Aircraft	Agreed
22	Middlebury, VT	1. Aircraft 2. Stars/Planets	1. Agreed 2. Agreed. Probably Arcturus.
22 or 29	Leesburg, FL	Insufficient data	Agreed. Witness could not remember date. Witness heard/saw Jet and noticed some objects next to the jet.
23	Tettersville, OH	Conflicting data	Agreed. 17-year old witness stated object was moving faster than jet but object took 45 minutes to go from North to South.
23	Colverdale, CA	Birds	Agreed
24	Thomaston, GA	Venus	Agreed
25	Walton, NY	Meteor	Agreed
25	Northeastern US	Meteor	Agreed
25	Middletown, NY	Insufficient data	Possible aircraft
25	Ashby, MA	Insufficient data	Observation of bright fireball seen over northeastern US.
25	Thornwood, NY	Aircraft	Meteor
25	Baltimore, MD	Birds	Agreed
25	Ghent, NY	Moon	Agreed
25	Chicago, IL	Satellite	Agreed. Echo 2
26	Scituate, MA	Insufficient data	Possibly Arcturus and Vega. Witnesses saw rectangular objects to east that had flashing lights and were rectangular shaped. Visible for one hour and were still there when witnesses left.
27	Solvay, NY	Aircraft	Agreed
27	South Macon, GA	Aircraft	Agreed
27	Baton Rouge, LA	Birds	Agreed
28	Raceland, KY	Venus	Agreed

28	Rochester, MI	Insufficient data	Agreed. No positional data or duration.
28	Sacramento, CA	Insufficient data	Aircraft
29	Colorado Springs, CO	Ground Lights	Agreed
29-30	Sacramento, CA	1. Venus 2. UNIDENTIFIED	Venus See SUNlite 9-2

Reclassification

I evaluated 383 cases in the Blue Book files from January through April 1966. In my opinion, 77 were improperly classified (about 20%). 40 (about 10% of the total number of cases/52% of the reclassifications) of these were listed as "insufficient data". This table describes these cases and how I felt they should have been classified.

Date	Location	Reclassification	Reason
1/3	Burbank, OH	Advertising aircraft	Airplane contrail illuminated by moon. (witness stated the moon was not visible but it was)
9	Sheridan, IN	Insufficient data	Possibly Venus
9	Houston, TX	Insufficient data	Aircraft
14-17	Weston, MA	1. Unidentified 2. Cloud	1. Possibly Pegasus 1 satellite 2. Agreed. Barium release from Wallops Island launch.
15	Houston, TX	Insufficient data	Possibly Pegasus 3 Satellite
18	Far East	1. Satellite 2. Insufficient data	1. Agreed. Pegasus 3 or 1 2. Possible aircraft
31	Atlantic	Contrails	Luna 9 rocket decay. See Molczan.
2/2	Salisbury, NC	UNIDENTIFIED	Arcturus. See SUNlite 12-1
4	Atlanta, GA	Insufficient data	Possibly Arcturus. 17-year old witness woke up early in morning and saw object through window.
7	Tampa, FL	Stars/Planets	Sighting was after sunrise. Possible birds.
16	Brunswick NAS, ME	1. Jupiter 2. Insufficient data	Conflicting data. This is a confusing report. Witness reported three objects landing to the east while driving in a vehicle in report form. Initial report made no mention of landings or multiple objects. Witness reported bright moonlight but moon was not visible.
24	Rochester, NY	1. Insufficient data 2. Photo: Insufficient data	1. Unreliable report. Photograph by 15-year old and submitted in July of 1967. The late date makes it unreliable. Based on submitted form, visual observation could have been of setting moon. Witness could not recall if moon was visible (it was and in the location he describes) and his sketches are somewhat similar to the crescent moon. 2. Agreed. Images shows two blurry smears. No details visible.
Mar	Urbana, OH	Insufficient data	Possibly Antares. Witness saw object on two nights around same time.
3/1	Stafford Springs, CT	Conflicting data	Echo 1 satellite. Report by 10-year old. Direction listed SE to NW but Echo made pass around same time from SE to NE.
2	Atlantic	Insufficient data	Echo 1
3	Aswego, NY	Conflicting data	Echo 1 (conflicting data had to do with reported size and details observed)
9	Brazil, IN	Aircraft	Echo 2
13-14	Springfield, Clyde, OH	1. Aircraft 2. Jupiter	Insufficient data. The only reference to this case is a news paper clipping with a typed letter that did not contain details.

17	Milan, MI	Insufficient data	Unidentified. While the data in the file is sufficient to identify potential solutions, The description of the object does not lend itself to explanation. Observer reported same object on three different occasions. All were at night. All described a craft of some kind. One even involved a landing. One event lasted 90 minutes. The negative on this is the witness that is the only individual making the report.
17	New Palestine, IN	Insufficient data	Possible aircraft. Witnesses reported multiple objects with red lights (one flashing).
18	Kansas City, KS	Aircraft	Echo 2
20	Mims, FL	UNIDENTIFIED	Jupiter or Capella See SUNlite 14-2
20	Elyria, OH	Insufficient data	Sirius
20	Houston, TX	Insufficient data	Aircraft
22	Dayton, OH	1. Satellite 2. Insufficient data	1. Agreed Echo 2 2. Echo 1 and Cosmos 54.
24	Kilamath, OR	Jupiter	Sirius
24	Lincoln, NE	Insufficient data	Conflicting data. Witnesses reported moon being visible but moon was not in sky. Apparent confusion about date as it was initially reported to be in March or February before a date was determined.
24-5Apr	San Francisco	Satellite decay	Meteor
25	Hammet, CA	Insufficient data	Jupiter
25	Chicago, IL	Insufficient data	Possible balloon. Object moving with direction of wind.
25	Truax Field, WI	Insufficient data	Possible balloon. Object moving with direction of wind.
25	Pine Bluff, AR	Satellite	Aircraft (witness reported red flashing light)
27	Between Salem and Ash Flat, AR	Insufficient data	Possible aircraft
28	Rome, NY	Insufficient data	Capella. Data is not clear but witness appeared to indicate the object was in the NW at 45 degrees elevation. Capella was at 23 degrees in NW.
28	West Hampton Beach, NY	Insufficient data	Possible sighting of Echo 1 Satellite. 14-year old witness viewed object through window.
28	Toledo, OH	Stars/Planets	Objects reported being seen visually were probably birds. Photographs not in file but evaluation indicated they were of the stars and moon.
29	Wilmington, DE	Jupiter	Sirius. Object reported to the south and not to the west. Description included scintillation effects, which Jupiter normally does not do when it is not close to the horizon (Jupiter at 52 degrees elevation).
30	Lewisburg, IN	Insufficient data	Possible sighting of Echo 1
30	Wausau, WI	Capella	Arcturus (Object in NE not NW)
31	Wichita Falls, TX	Aircraft	1. Jupiter 2. Aircraft
31	Lakehurst, NJ	Insufficient data	Possible meteor
31	Colorado Springs, CO	Jupiter	Probably Capella (Jupiter had already set), Procyon, or the moon. Not clear what photographs show as they are of poor quality. Wide field image appears to be moon trailing during time exposure. Blue Book identified star as Alphecca but this was not low in west. Reproduced images inadequate for evaluation.
31	Chicago, IL	Satellite	Aircraft (witness reported flashing light)

31	Long Branch, NJ	Insufficient data	Possibly Jupiter or Capella
31	Toms River, NJ	Aircraft	Echo 1
Spring	Raleigh, NC	Insufficient data	Meteor. No date given but description matches meteor.
4/1	Shreveport, LA	Insufficient data	15-year old witness. Possible aircraft.
2	Nigeria, West Africa	Aircraft	Satellite. Pegasus 3.
3	Waukesha, WI	Insufficient data	Possible aircraft
4	East of Haga, FL	Insufficient data	Possible hoax. Witness reported examining landed craft that took off when he attempted to touch it. No evidence of craft landing in location described. Witness did not fill out report form.
4	Corpus Christi, TX	Insufficient data	Possible aircraft/contrail. Witnesses claimed object was moving very fast but it was visible for 15 minutes and moved north with a trail. Seen near sunset.
5	Cincinnati, OH	Aircraft	Possible moon setting.
5	Houston, TX	Aircraft	Satellite. Pegasus 2
5	Philadelphia, PA	Aircraft	Possibly Capella
5	Iowa City, IA	Stars/Planets	Insufficient data. Directional data missing despite multiple witnesses.
11	Catskill, NY	Insufficient data	Possible aircraft
11-14	Tampa, FL	Unreliable report	Possible aircraft/birds. Witness considered unreliable because they were a "repeater".
12	Waterloo, IA	Aircraft	Possible balloon
13	Boston, MA	Insufficient data	Possible aircraft. Report filed by 9-year old.
14	Kettering, OH	Aircraft	Possible meteor
15	Bovey, MN	Jupiter	Capella
15	Miles City, MT	Unreliable report	Possible parahelia.. Witness' estimated location was within 10 degrees of suns position. Unreliable based on witnesses responses to questions.
16	Columbus, IN	Aircraft	Possible meteor. Report by 12-year old.
17- 7 Jul	Laker Carmel, NY	Aircraft	Multiple causes. Observers reporting multiple objects over this time period that could be aircraft, satellites, stars, and meteors. Hynek's note on the card is "The frequency of these reports by these particular people makes the whole situation suspect". The one sighting that had a form submitted with the data filled in appears to have been observations of Jupiter, Aldebaran, Capella, Betelgeuse, and Sirius.
17	Ravenna, Mantun, OH	1. Defects 2. Satellite 3. Venus	1. Agreed. Film was fogged. Nothing of significance on prints/negatives in file. 2. Meteor 3. Agreed See my examination of this case at http://www.astronomyufo.com/UFO/Venusufo.htm
18	Norfolk, VA	Insufficient data	Possible prank fire balloon. Drifted with wind and debris observed apparently falling off object.
18	Ranton, WA	Insufficient data	Possibly Vega. Report is confusing but object was visible in East for 26 minutes slowly rising. Witness thought aircraft had near miss/collision with it.
21	Napa, Camp Pendleton, LA, CA	Meteor	Aeronomy launch from Tonopah Nevada (See San Mateo Times final edition April 21, 1966 p.1)
22	Belchertown, MA	Insufficient data	Possible aircraft. Report by 12-year old

22	Ovid, Bannister, MI	Insufficient data	1 - 2. Possibly Arcturus 3. Combination of Echo2 pass and Venus
22	Kingston, MA	Insufficient data	Contrail at sunset
25	Middletown, NY	Insufficient data	Possible aircraft
25	Northeastern US	Meteor	Agreed. Bright fireball seen over Northeast.
25	Ashby, MA	Insufficient data	Observation of bright fireball seen over northeastern US.
25	Thornwood, NY	Aircraft	Meteor
26	Scituate, MA	Insufficient data	Possibly Arcturus and Vega. Witnesses saw rectangular objects to east that had flashing lights and were rectangular shaped. Visible for one hour and were still there when witnesses left.
28	Sacramento, CA	Insufficient data	Aircraft
29-30	Sacramento, CA	1. Venus 2. UNIDENTIFIED	Venus See SUNlite 9-2

Summary

The bulk of the cases in the late March/April time period were probably inspired by the media reports surrounding the March 20/21 sightings in Michigan. This was the case that had Hynek present the swamp gas explanation to the press. I read Hynek's report on this sighting and I think he made a convincing argument that the lights in the woods could have been produced by swamp gas. The two Hillsdale and Dexter sightings were the only cases in the file. There is also the mention of the Moon and Venus photograph that appeared in the media but the main cases in the file were the two that Hynek explained as swamp gas.

I added one UNIDENTIFIED case because I just could not find a good explanation for the sighting. This was the March 17th event from Milan, Michigan. It involved an individual who saw a craft on three different occasions. One sighting lasted 90 minutes while another involved a landed craft seen from a distance that took off. I could have called these all aircraft but the reports were detailed to the point, I felt I could not simply put that label on them. The only information about the case was a report from July of 1966, so one has to wonder how much of an influence all the media reports of the time period had on this witness.

Another interesting sighting happened in California on April 21. Reports described a large cloud to the northeast that drifted westward. Blue Book thought it was produced by a meteor but nobody saw a meteor. It turns out it was an aeronomy launch from Tonopah, Nevada. It was explained as such in the media from Northern California but it seems that was missed in the area around Los Angeles. Blue Book, on the east coast, never got this explanation in the reports filed by the UFO officers handling these observations.

The bright fireball of April 25th produced quite a few UFO reports. Some were misidentified by Blue Book as insufficient information or aircraft. This is because the witnesses distorted their sightings to the point that they did not sound like meteors. The important point with those sightings were that were made at the same time and general area of the sky the fireball was visible. This type of erroneous observations of such events became more evident two years later with the Zond IV sightings.

Satellites continue to produce UFO reports but at a reduced rate. I counted 32 satellite observations, which computes to only 8% of the sightings. The last two evaluations of Blue Book files had satellites in the 20% range. It is possible that observers were getting better at identifying satellites.

In an amusing twist, a witness in the April 28 Rochester, Michigan case requested they been sent "a copy of Blue Book" in their letter/report! It sounded like they thought it was a book of some kind you could purchase. I wonder if Major Quintanilla obliged him by sending them copies of all the record cards?

Next issue, I will be only evaluating the months of July and August of 1966. There are roughly 400 cases for those two months and it should take some time to sift through that collection.

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/>
4. "Stratospheric balloons: Chronological lists of launches worldwide since 1947" StratoCat. Available WWW: <http://stratocat.com.ar/globos/indexe.html>
5. "Space History Chronology". Astronautix. Available WWW: <http://www.astronautix.com/s/spacehistorychronology.html>
6. Condon, E. U., et al., eds. Scientific Study of Unidentified Flying Objects. New York: Bantam 1968.
7. McDowell, Jonathan. Historical TLE Elements. Available WWW: <https://www.planet4589.org/space/ele.ht>
8. Molczan, Ted. Visually Observed Natural Re-entries of Earth Satellites. December 18, 2015