

# SUNlite

Shedding some light on UFOlogy and UFOs

*The weight of evidence for an extraordinary claim must be proportioned to its strangeness.*

Pierre-Simon Laplace, 1749-1827

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# More much ado.....

Cover: The first quarter moon during the day. This may be a possible solution for a Blue Book unidentified on May 22, 1961. See my 701 club entry on pages 5-6.

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It seems like a clockwork sort of thing. Every few months, more UFO videos/photographs are leaked from the Department of Defense's (DOD) UAP Task force (UAPTF). Because of their apparent official nature, certain UFO proponents, and the media, go into hyper-drive in promoting them as if they were the new "Best evidence" of UFOs being exotic craft. However, most of these seem to have conventional explanations. For instance, Mick West's demonstration that the ["pyramid UFO" video](#) is not in focus and is very likely [an aircraft and background stars](#) is very convincing. Anybody with experience imaging stars at night is quite familiar with the characteristic out of focus issues present in the video. This brings us to the question as to why is the UAPTF even bothering to collect these images if they have obvious explanations? Additionally, can't these military personnel figure out what they are seeing when they record them?

All one has to do is look at Project Blue Book to answer these questions. As I review the cases from the early 1960s, I am amazed at all of the satellite cases. The Echo satellite is often reported even though some of the files indicate the observers thought it might be, or compared it to, the Echo satellite. The reason these reports were being filed was because Project Blue Book had directed such reports be made for unidentified objects. There was probably an additional emphasis on sending reports by local area commanders in order identify potential Soviet missile tests or satellites. This is probably the case here. The UAPTF probably has requested, in some form, that all military facilities are to send any, and all, photographs, images, videos, radar data, or observations to the UAPTF for evaluation no matter how mundane they may appear. They want to get to the root cause of all these UAP reports and do not want any information withheld. This all has a familiar ring to it. I believe what the UAPTF is going to eventually say is they have found no evidence that these UAP reports represent a threat and that many/most of them are just balloons, aircraft, and other mundane phenomena. Does this sound familiar? The Condon report and Blue Book reached that conclusion over fifty years ago.

Speaking of the UAPTF, Anthony Bragalia continued his defense that the documentation he obtained via FOIA definitively indicates that the Advanced Aerospace Threat Identification Program (AATIP) had obtained actual crashed UFO debris and analyzed it. [John Greenewald strongly disagreed and invited Bragalia onto his pod cast to discuss it.](#) Bragalia really could not offer a sound defense but decided to continue the argument on [Kevin Randle's pod cast, where he and John had a debate with Randle as the moderator.](#) Shortly after the program was put up on the web, Bragalia e-mailed me and stated that he had won the debate. Listening to the pod cast indicated to me that Bragalia's claim, like so many of his assertions, are not backed up by solid evidence. In my opinion, Bragalia actually lost the debate because he walked out when Kevin Randle had to tell him to shut up because Bragalia kept trying to interrupt him. Like a child, he picked up his toys and left when he did not get his way. That does not sound like a "winning" debate strategy. I think Greenewald summed up Bragalia's motivations best near the end of the pod cast:

*...he knows better than everyone else ergo if he says its alien its alien...he will not ever allow anyone else to challenge that and I think that is sad. It is a bad approach and it is one that has gotten him in trouble before especially with those Roswell slides...*

My observation of Bragalia over the years (which I have documented in SUNlite multiple times) is that there is a distinct difference between what he says is true and what is actually true. His conclusions are based on his highly subjective interpretation of the documentation instead of an objective examination, which is what is required when dealing with evidence of this nature.

[Bruce Maccabee decided to post a statement that indicated he felt the UAPTF was going to conclude that some UAPs are controlled by "NON-HUMAN INTELLIGENCE" \(NHI\).](#) Call me skeptical but I think that Maccabee is just repeating the same old announcement that "disclosure" is just around the corner. Nothing I have seen to date, that has been leaked out, indicates that the UAPTF is going to arrive at that conclusion.

Lastly, I saw that Rich Reynolds doesn't like skeptics very much and [posted an article critical of two skeptics in particular.](#) The first was Gilles Fernandez, whom he seems to dislike very much these days. The other skeptic was myself. Reynolds suggested that my explanations were "non-astute" and that I was too critical of eyewitness testimony. We had an exchange on face book where I presented my sources about the reliability of eyewitness testimony. He suggested that his opinion was more informed and directed me towards various discussion groups where he has made his arguments in the past. I found it amusing that in all of his writings on his blog, he has never once addressed any of my specific explanations with sound rebuttals. He conceded to me that he has never read, or only scanned through, SUNlite! If he hasn't looked at them, how can he state these explanations aren't very good? I acknowledge that not all of my explanations are perfect. I often describe them as "possible", "probable", or explained based on my confidence in the solution. I also find that blindly accepting testimony, no matter how "good" the witness is, ignores everything that has been learned about the reliability/accuracy of UFO reports in the past sixty-plus years. Perhaps, Mr. Reynolds can actually read SUNlite before drawing his conclusions.



# WEEDING OUT THE WEINSTEIN CATALOGUE

66.06.26	15:30ZT	Pacific Ocean	between Hawaii Island and Wake Island	A	Saturn Airways aircraft pilots + 6 other planes	one bright light seemed to expand like a gas bubble with a bright blinking light in center.		X	03
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## June 26, 1966 - Pacific Ocean

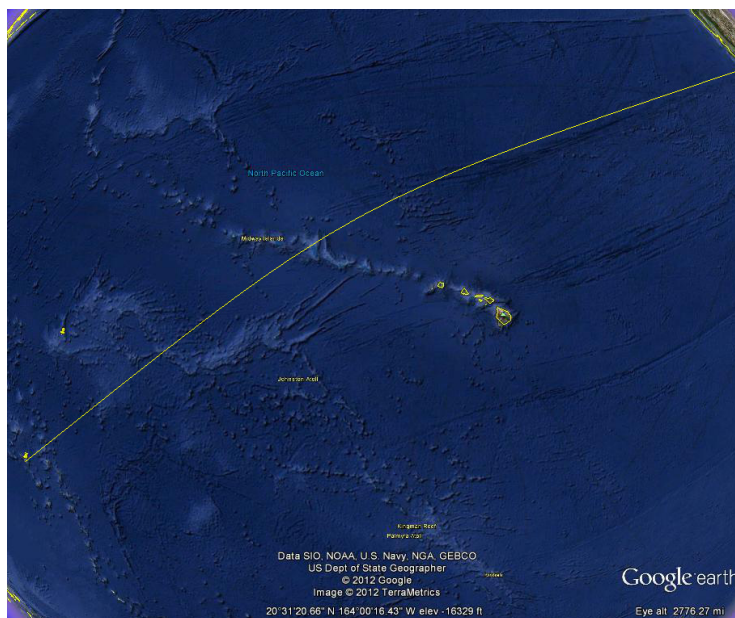
The source of this information is from the project 1947 files. The table states the event was seen from a Saturn Airways pilot and six other airlines that were between Hawaii and Wake Island. The description is, *"one bright light seemed to expand like a gas bubble with a bright blinking light in the center."*

## Project 1947 files

These files are not readily available so I had to send e-mail requests to Jan Aldrich or Barry Greenwood. Requests were made for information but I never received any response from either individual. As a result, I had to make some assumptions about what was reported. I could find no references to these cases anywhere else indicating that they were not very high profile events.

## Analysis

This case really did not require much analysis. The event was probably the launch of an Atlas ICBM.<sup>2</sup> The time listed in the table was 1530Z on the 26th. At 1534Z, the missile was launched westward from Vandenberg towards Kwajalein atoll. Its trajectory would have taken it between the Hawaiian islands and Wake island, which is the location given in the table.



I had examined a sighting from this launch before. In SUNlite 4-6, it was the explanation of a Blue Book UNIDENTIFIED. In that case it was an officer aboard the SS Mount Vernon, who saw a UFO at approximately 1600Z. He also described a bright flashing light in the center of an expanding gas cloud. It appears that he saw the same thing. While I don't have the Project 1947 files, the descriptions, given in the table, match the description of an ICBM test pretty well. I don't consider the time being off by about 30 minutes that significant either.

## Conclusion

In my opinion, unless the sightings indicate completely different directions than the expected trajectory, this case is explained.. This should be removed from the Weinstein catalogue.

## Notes and references

1. Weinstein, Dominique F. Unidentified Aerial Phenomena: Eighty years of pilot sightings. NARCAP. February 2001. P. 10
2. "Space History Chronology 1966". Astronautix. Available WWW: <http://www.astronautix.com/1/1966chronology.html>

## May 29, 1950 White Sands, N.M.

The NICAP document states:

*May 29, 1950--White Sands, N. Mex. UFO spotted by two theodolite stations just before firing of a missile. Object tracked and photographed by both stations. [VIII]*<sup>1</sup>

Section VIII is the photographic evidence section and it simply quotes Ruppelt's book. Ruppelt does not give a specific date. He simply states it was a month after an incident at White Sands on April 27, 1950:

*Almost exactly a month later another UFO did appear, or at least at the time the camera crews thought that it was a UFO. This time the crews were ready — when the call went out over the telephone net that a UFO had been spotted, all of the crews scanned the sky. Two of the crews saw it and shot several feet of film as the shiny, bright object streaked across the sky.*

*As soon as the missile tests were completed, the camera crews rushed their film to the processing lab and then took it to the Data Reduction Group. But once again the UFO had eluded man because there were apparently two or more UFO's in the sky and each camera station had photographed a separate one. The data were no good for triangulation.*

*The records at ATIC didn't contain the analysis of these films but they did mention the Data Reduction Group at White Sands. So when I later took over the UFO investigation I made several calls in an effort to run down the actual film and the analysis. The files at White Sands, like all files, evidently weren't very good, because the original reports were gone. I did contact a major who was very cooperative and offered to try to find the people who had worked on the analysis of the film. His report, after talking to two men who had done the analysis, was what I'd expected — nothing concrete except that the UFO's were unknowns. He did say that by putting a correction factor in the data gathered by the two cameras they were able to arrive at a rough estimate of speed, altitude, and size. The UFO was "higher than 40,000 feet, traveling over 2,000 miles per hour, and it was over 300 feet in diameter." He cautioned me, however, that these figures were only estimates, based on the possibly erroneous correction factor; therefore they weren't proof of anything — except that something was in the air.<sup>2</sup>*

One wonders how they arrived at May 29th based on this information.

### Blue Book file

Examining the Blue Book file, we discover the actual date was May 24th. Ruppelt got one thing right. Blue Book had concluded that the two objects were not the same. However, his quoting the "Major" seems to be significantly off. The two station azimuths and elevations were listed in the file<sup>3</sup>:

Station	Co-ordinates			Initial Azimuth	Initial Elevation	Final Azimuth	Final Elevation
8	13549	20190	106	58-19-30	47-32-20	58-26-30	47-25-20
10	43309	23819	113	106-1-40	25-48-0	105-39-40	25-7-50

I could not figure out the Co-ordinate system listed. I have to assume it is some sort of grid map that White Sands/Holloman used. Unfortunately, I did not have access to this map and could not locate one. Therefore, it is not possible to perform any triangulation.

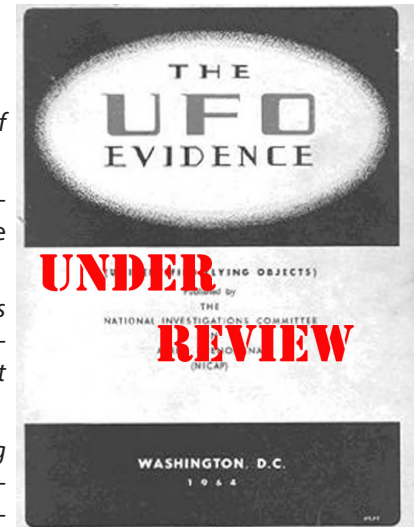
According to the file, station 8 had only recorded 6 frames on a camera that was recording five frames per second. Station 10 had recorded 74 frames on the same type of camera. So station 8 recorded its UFO for only 1.2 seconds. Station 10 had recorded for longer at 14.8 seconds. The difference in azimuth was 22' for station 10 and 7' for station 8. The difference in elevation was 42.17' for station 10 and 7' for station 8. This computes to roughly 47.5' motion in 14.8 seconds at station 10 (3.2'/sec) and 9.9' in 1.2 seconds (8.25'/sec) at station 8. These motions were not of astronomical objects but they were not moving at a fast angular rate either. One station was looking ENE and the other was looking to the ESE. The paths of the two objects were similar. Station 8's object was moving in a eastward motion. Station 10's object was moving towards the east as well.

### FBI file

The FBI files contain only a minor reference to this case. An August 23, 1950 interoffice memo indicated that on May 24, personnel had sighted "8 to 10 objects of aerial phenomena".<sup>4</sup> This information may or may not be accurate on the number but even if 8-10 objects were in the sky, it does not mean that 8-10 had been tracked with the cameras.

### Analysis

Winds for this date were all from the west indicating that the motion of the objects could have been wind borne.<sup>5</sup> If the object was only one mile away for station 8, the angular rate would be roughly 10 mph. The same speed would be achieved for the station 10 observation if it were three miles away. These numbers indicate that the object being recorded by both cameras were possibly have been propelled by the wind. They may have been airborne debris of some kind that were reflecting light for a short



period of time. I would not consider these to be anything extraordinary.

Like I mentioned last issue, Ruppelt is not to be considered the most reliable source when it comes to details. Once again, we are treated to a story from some mysterious Major, who gave details that just don't match the information found in the Blue Book files. To get the numbers mentioned by this "mystery Major", the objects would have had to be hundreds of miles away and many miles high. Such objects would have been visible of a large area and multiple UFO reports would have been created. As a result, we can discount anything Ruppelt states about what the Major supposedly told him.

### Conclusion

This case is another lesson in questioning Ruppelt's account of events. The UFO Evidence considered Ruppelt's retelling of his time at Blue Book as being highly accurate, as long as it promoted their interpretation of UFO reports. To me, this case is closed and should not be considered evidence of anything significant.

#### 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. 130
2. Ruppelt, Edward. The Report on Unidentified Flying Objects. New York: Doubleday 1956. P. 89
3. "Case file - May 24, 1950. Holloman AFB, New Mexico". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9615026>
4. "Office Memorandum from A.H. Belmont to D. M. Ladd: Summary of Aerial Phenomena in New Mexico miscellaneous - information concerning." FBI UFO files. August 23, 1950 Available WWW: <https://vault.fbi.gov/UFO/UFO%20Part%2011%20of%2016/view>
5. National Oceanic and Atmospheric Administration (NOAA). NOAA/ESRL Radiosonde Database. Available WWW: <https://ruc.noaa.gov/raobs/>

## THE 701 CLUB: CASE 7417: TYNDALL AFB, MAY 22, 1961

Don Berliner's describes the case as follows:

*May 22, 1961; Tyndall AFB, Florida. 4:30 p.m. Witnesses: Mrs. A.J. Jones and Mrs. R.F. Davis. One big silver dollar disc hovered and revolved, then suddenly disappeared after 15 minutes.*

Sparks mirrors Berliner's comments with a few added values of elevation angles:

*May 22, 1961. Tyndall AFB, Florida. 4:30 p.m. (CST). AF wives Mrs. A. J. Jones and Mrs. R. F. Davis saw revolving silver-dollar disc hover at about 3.5° elevation in the SE, rise to 35° elevation then suddenly disappear. No sound, no trail, no exhaust. (Sparks; BB files; Castner/ CUFOS; Berliner; NICAP)*

### The Blue Book file

The Blue Book file does not contain very much. It contains only a basic investigation conducted by the assistant UFO officer, MSGT Henry J. Lacour. It says a lot that this job had been assigned to a non-commissioned officer. As a retired senior enlisted, I understand that sometimes these things happen but it seems that the Master Sergeant might have been somewhat out of his element in making any evaluation. While he appeared to try and conduct a serious investigation, what he reported was very limited in scope<sup>3</sup>:

- The time of the event was 1630 CST and it was visible for 15 minutes
- It was visible in the southeast.
- It was first seen at an elevation at 3.5 degrees and last seen at an elevation of 35 degrees.
- The witnesses stated that it was stationary and revolving in place. After fifteen minutes, it suddenly disappeared.
- It was considered a bright object that was reflecting the light of the sun.
- Weather was listed as a ceiling of 10,000 feet, visibility was 10 miles, winds from the south and southwest.

### Analysis

One issue I had with the Master Sergeant's report was his description of the weather. It really did not describe the cloud conditions other than the ceiling of the clouds. Therefore, I tried to verify the percentage of sky covered by clouds. Weather underground did not have any data for Panama City. Tallahassee (80 miles to the ENE) reported that it varied between partly to mostly cloudy during the afternoon.<sup>4</sup> Weather maps for the date in question did not show completely cloudy conditions in the Florida Panhandle but did show clouds in the Tallahassee area.<sup>5</sup> There was no rainfall detected in nearby Apalachicola and Wewahitchka.<sup>6</sup> Weather forecasts for the Florida panhandle indicated partly cloudy skies in the news papers.<sup>7</sup> This indicates that while the ceiling was described as 10,000 feet, it does not mean that it was overcast. More than likely, sky conditions were partly to mostly cloudy with a chance of a thunderstorm/rain shower. Having grown up and lived in Florida, this is the usual weather pattern in Florida

during the summer months of May to September.

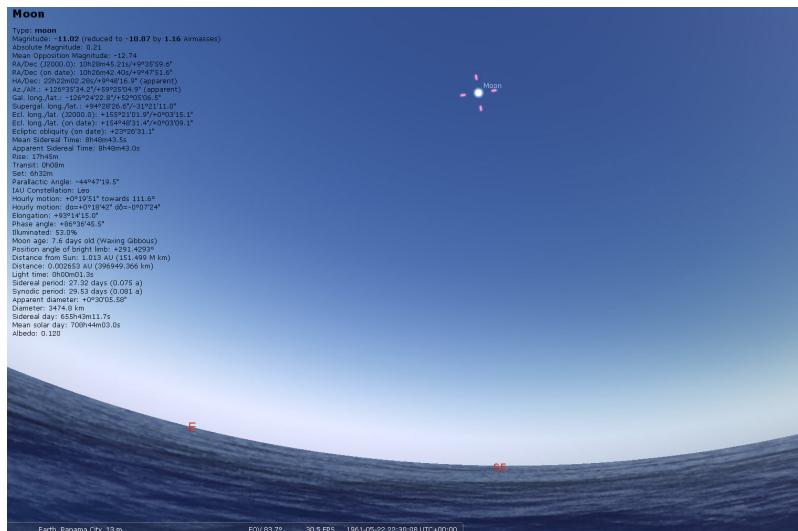
There was also conflicting information in the report. That being the report stated the initial elevation was 3.5 degrees and final elevation was 35 degrees. However, the witnesses stated the object was stationary the entire time they observed it. One would think they would have mentioned it rocketing up in altitude. I suspect the 3.5 degrees was actually 35 degrees and the decimal point is a typographical error. For the purpose of analysis, I have made this assumption.

One possibility I considered was that it was a rocket launch. The direction was towards Cape Canaveral. However, there were no launches on that date.

This brings us to the possibility of it being a weather balloon. However, the stationary nature indicates a weather balloon would have had to been some distance away and, as a result, would have been a small object.

Thinking it might have been a high altitude research balloon, I examined Stratocat. Goodfellow Air Force base had launched an Ashcan balloon on May 22 but stratospheric winds in the summer usually blew westward. It seems unlikely that, in late May, a balloon would have traveled towards Florida.

Wondering if this might have been a daylight sighting of a possible astronomical object, I checked Stellarium. I was surprised to see that a first quarter moon was at azimuth 127 degrees 60 degrees at 1630 CST. This is in the direction the witnesses were looking. If sky conditions were partly to mostly cloudy, the moon could have been visible and, maybe, confused as a hovering object.



## Conclusion

To me this case is missing some important information about the weather. Rather than giving us the percentage cloud cover, the report only lists the cloud ceiling. Weather data indicates it was not overcast so what was the percentage of cloud cover? If the weather was partly to mostly cloudy and the witnesses were looking into a clear patch of sky, this could have been a daylight sighting of the moon. A certain percentage of the population is unaware one can see the moon during daytime and it seems possible that this was the case here.

I found the investigation to be inadequate. The witnesses were looking in the direction of a military operating area, where military aircraft would be present. There is no mention of looking into any activities from the base that might have produced the report. It seems that this was not a very thorough investigation. I will list this as "possible moon" and it is my opinion that it be removed from the unidentified list.

## 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 - May 22, 1961 Tyndall AFB". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8685973>
4. "Weather history Tallahassee, Florida." Weather Underground. Available WWW: <https://www.wunderground.com/history/daily/us/fl/tallahassee/KTLH/date/1961-5-22>
5. Daily Weather Maps. Available WWW: <https://library.noaa.gov/Collections/Digital-Collections/US-Daily-Weather-Maps>
6. Florida historical weather data. Available WWW: <https://climatecenter.fsu.edu/climate-data-access-tools/downloadable-data>
7. "State Weather forecast". Daytona Beach Morning Journal. Daytona Beach, Florida. May 22, 1961. Page 2. Available WWW: [https://news.google.com/newspapers?nid=OWslULmVb\\_UC&dat=19610522&printsec=frontpage&hl=en](https://news.google.com/newspapers?nid=OWslULmVb_UC&dat=19610522&printsec=frontpage&hl=en)



## Project Blue Book case review: July-December 1962

This is the latest edition of the Project Blue Book case review covering July through December 1962. 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.

### July 1962

Date	Location	BB explanation	My evaluation
July	North Brunswick, NJ	Insufficient data	Agreed. Report was three years old with no specific date or time.
July	Glenside, PA	Insufficient data	Possible birds
July	Ashland, WI	Aircraft	Possible fireball
2	Baltimore, MD	Satellite	Agreed. Transit 4B rocket.
2	New York, NY	Meteor	Agreed
3	Hyattsville, MD	Meteor	Agreed (duration listed as 1 minute but speed estimated at 20,000 mph)
3	Hutchinson, KS	Satellite	Agreed. Echo satellite
3	Pacific	Satellite	Agreed. Echo satellite
4	San Juan, Puerto Rico	Satellite	Agreed. Transit 4B rocket.
4	Pacific	Missile	Possible fireball (duration not listed but characteristics indicate a possible fireball meteor)
4	Veracruz, Mexico	Insufficient data	Agreed. Transit 4B rocket.
4	Kinsville, LA	Satellite	Agreed. Echo satellite
5	Pacific	Satellite	Insufficient data. Ship's location not given. Echo satellite made pass in eastern Pacific that would match the observations.
6	Beeville, TX	Meteor	Agreed
6	Sagatuck, MI	Insufficient data	Aircraft
6	Cheverly, MD	Satellite	Agreed. Echo satellite
7	Hallet Station, Antarctica	Meteor	Corona 9037 re-entry. See Ted Molczan's visually observed re-entries database.
7	Malden, MA	Insufficient data	Agreed. No azimuths or elevations.
7	Hanscomb field, MA	Aircraft	Agreed.
7	Albuquerque, NM	Insufficient data	Possible fire balloon
7	Dayton, OH	Aircraft	Agreed
8	British Honduras	Insufficient data	Possible aircraft
9	Jacksonville, FL	Meteor	Agreed
9	Moraine, OH	Satellite	Agreed. Echo satellite
9	Paterson, NJ	Aircraft	Agreed
10	Dayton, OH	Aircraft	Agreed
10	Meredith, NH	Aircraft	Agreed
10	Newark, NJ	Aircraft	Agreed
10-12	Keller, WA	Aircraft	Agreed
11	Kankakee, IL	Insufficient data	Agreed. No directions given other than it disappeared on the horizon.
12	Pacific	Satellite	Agreed. Echo satellite
12	Westover AFB, MA	Meteor	Agreed
12	Los Angeles, CA	Aircraft	Agreed

12	Atlantic Ocean	Satellite	Conflicting data. USS Falgout (sighting ship) stationed in Hawaii. Messages to CINCPACFLT and not CINCLANT confirming ship was located in Pacific. Error in recorded longitude. Location unknown.
13	Springfield, VA	Meteor	Agreed
13	Pacific	Satellite	Duration too short for satellite. Possible aircraft
13	Carlsbad, NM	Jupiter	Saturn. Jupiter rose an hour later. Saturn was in location described as last location. Witness gave inaccurate report about objects direction of movement because they sent follow up letter identifying the object as the "evening star".
14	Rock Hill, SC	Insufficient data	Possible aircraft/balloon passing in front of moon seen through 30X telescope
14	Evanston, IL	Aircraft	Insufficient data. Report filed in February 1967
15	Evanston, IL	Insufficient data	Agreed. Report filed in February 1967
17	Dayton, OH	Satellite	Agreed. Echo Satellite
18	Pacific	Satellite	Agreed. Echo Satellite
18	Toledo, Spain	Satellite	Agreed. Echo Satellite
18	Centerville, OH	Aircraft	Agreed
18	Dayton, OH	Jupiter	Agreed
18	Dunbar, PA	Aircraft	Agreed
18	Blind River, Canada	Capella	Agreed
18-19	Houtydale, PA	Satellite	Agreed. Witness gave description of Echo Sighting on both nights and identified it as such (not sure why this was a UFO report).
19	Southern France	Insufficient data	Echo Satellite
19	Metuchen, NJ	UNIDENTIFIED	UNIDENTIFIED
19	Meriden, CT	Satellite	Agreed. Echo Satellite
20	Westville, IN	Insufficient data	Echo Satellite (comments on record card about Echo satellite pass incorrect)
22	Kansas City, MO	Insufficient data	Possible aircraft
23	Bremerton, WA	Meteor	Insufficient data. Letter written by high school student recalling reading UFO sightings by pilots in Seattle newspaper. No specific information and AF could not locate the article/report except for a report of sightings on July 23, three months earlier. This only described a "lighted object" being seen and one pilot stating it was a meteor.
24	Culebra Island, Caribbean	Insufficient data	Possible meteor
25	Silver Grove, KY	Aircraft	Agreed
25	Langley AFB, VA	Meteor	Agreed
26	Fairborn, OH	Venus	Agreed
26	Duluth, MN	Balloon	Agreed
29	Pacific	Insufficient data	Echo Satellite
29	Atlantic	Satellite	Conflicting information. Actual location was near Suez Canal. Description does not match sky conditions for time at that location. Regulus not visible at 2129Z. Either position is wrong or time incorrectly calculated.
29	Edgerton, WI	Satellite	Agreed. Echo Satellite
30	Pacific	Satellite	Agreed. Echo Satellite
30	Ocean Springs, MS	UNIDENTIFIED	UNIDENTIFIED
31	Pacific	Satellite	Agreed. Echo Satellite



## August 1962

Date	Location	BB explanation	My evaluation
1	Dayton, OH	Aircraft	Agreed
2	Hauge, NY	Aircraft	Agreed
2	Liberal, KS	1. Meteor 2. Jupiter	1. Agreed 2. Agreed
3	Azuna, CA	Aircraft	Agreed
6	Santa Cruz, Boliva	Meteor	Agreed
6	Colorado Springs, CO	Insufficient data	Contrail
Week of 6 Aug	Hayden, CO	Meteor	Agreed. No specific date but characteristics are like a meteor.
7	Curacao, Netherlands Antilian	Insufficient data	Agreed. No time given.
7	Petersburg, VA	Satellite	Agreed. Echo Satellite
8	Pacific	Satellite	Agreed. Echo Satellite
8	Pacific	Satellite	Agreed. Echo Satellite
10	Greenville, ME	Aircraft	Agreed
10	Kettering, OH	Venus	Agreed
10	Fairbanks, AK	Meteor	Agreed
11	Knox, NY	Jupiter	Agreed
11	Lincoln, NE	Meteor	Agreed
11-19	Reynoldsville, PA	Stars/planet	Agreed. Witness making reports of multiple sightings. One description was likely Jupiter (witness telescope description sounds like Jupiter with moons).
12	Danbury, CT	Occultation	Agreed. Occultation of magnitude 3.5 star in Sagittarius (37 Sgr) observed with telescope.
12	Gulf of Mexico	Satellite decay	Agreed. Vostok 3r. See Ted Molczan's visually observed re-entries database.
12	Portland, OR	Unreliable report	Agreed. Report submitted five months after event. Could have been misperceived meteor or birds seen briefly. Visible only a few seconds at night.
12-14	Managua, Nicaragua	Insufficient data	Agreed. Reports are second hand. The times listed seem to be in error because they are daytime observations but descriptions appear to be made at night. It is possible one sighting is of the Re-entry mentioned in Gulf of Mexico sighting on 12 August with the time listed being in error by 12 hours.
DR-13	Orlando, FL	Physical specimen:Dirt	Agreed.
14	Upper Volta, Africa	Physical specimen: Meteorite	Agreed. Description does sound like meteorite but no analysis of object in file. Research indicates a meteorite did fall in the region on this date.
14	Kindley AFB, Bermuda	Meteor	Agreed
14	Maywood, IL	Aircraft	Agreed
17	Medina, NY	Physical specimen: Chaff	Agreed
17	Ogden, UT	Meteor	Agreed
18	Bermuda	UNIDENTIFIED	UNIDENTIFIED
18	Hatchville, MA	Conflicting data	Agreed. Time listed as dusk but description states witness got up in the night and saw object.
18	Dayton, OH	Altair-Jupiter	Saturn and Jupiter

20	Fort McKinley, OH	Insufficient data	Venus
20-21	Cleveland, OH	Balloon	Contrail at dusk
21	Newark, OH	Insufficient data	Contrail at dusk
21	Chicago, IL	Insufficient data	Possible aircraft
22	Pacific	Satellite	Agreed. Echo Satellite
22	Cleveland, OH	Aircraft	Meteor
22	Pacific	Satellite	Agreed. TRAAC satellite
23	Pacific	Satellite	Agreed. Echo Satellite
22-3	Dayton, OH	Jupiter	Agreed. Very little information in file but record indicates it was visible all night, which indicates Jupiter (near opposition).
23	Baltimore, MD	Aircraft	Agreed
24	Harvey Mountain, CA	Physical specimen: Chaff	Agreed
25	Poughkeepsie, NY	Star	Agreed. Probably Vega. This is a confusing report. Witness states object went from overhead to treetop level and back to overhead. Other than this small addition, the description matches that of a star.
26	Perrin, TX	Aircraft	Agreed
26	Aurora, CO	Insufficient data	Possible meteor
26	Casper, WY	Meteor	Agreed
27	Las Cruces, NM	Insufficient data	Black object seen briefly while driving. Possible bird.
28	Orcas Island, WA	Insufficient data	Possible aircraft
29	Pacific	Satellite	Agreed. Echo Satellite
29	Alexandria, VA	Insufficient data	Possible meteor
28	Pacific	Insufficient data	Echo Satellite
30	Port Au Prince, Haiti	Venus	Agreed
30	Bickmore, WV	Aircraft	Insufficient data. Report made 10 months later with no direction or duration reported.

### September 1962

Date	Location	BB explanation	My evaluation
Sep	Snokomish, WA	Physical Specimen: Cinder	Agreed
Sep	Gary, MN	Physical Specimen: Slag	Agreed
1	Antiago, WI	Meteor	Agreed
1	Atlantic	Missile	Aircraft
2	Pacific	Insufficient data	Echo Satellite. Error on record card stating it was daylight observation. Entry probably confused East and West Longitude. Sighting occurred in morning twilight.
2	Jackson, MN	Insufficient data	Agreed. No time listed. Observation by 11-year old, who was able to estimate altitude of unknown object in tens of thousands of feet.
4	Joplin, MO	Insufficient data	Agreed. No directional information. Probably astronomical in nature.
4	Quincy, WA	Physical Specimen: Aluminum	Agreed. File also includes observations of Sputnik 4 re-entry. See Ted Molczan's visually observed re-entries database.
5	North Central US Manitowoc, WI	Physical Specimen: Sputnik 4	Agreed. File also includes observations of Sputnik 4 re-entry. See Ted Molczan's visually observed re-entries database.

5	Priest Lake, ID	Physical Specimen: Slag	Agreed
6	Wickliffe, OH	Meteor	Agreed
6	Hanksville, UT	Jupiter	Daytime sighting of Venus
6	Kansas City, MO	Aircraft	Agreed
9	Atlantic	Satellite	Agreed. Echo Satellite
9	Topeka, KS	Balloon	Insufficient information. No direction. Possibly Venus.
9	Yonkers, NY	Aircraft	Unreliable report. 13-year old making a report in January 1965.
10	Brewster, OH	Physical Specimen: Chaff	Agreed
10	Macon, GA	Meteor	Agreed
11	S. China Sea	Meteor	Agreed
11	Madisonville, KY	Physical Specimen: Spider Gossamer	Agreed
12	Columbus, OH	Aircraft	Agreed
12	Chicago, IL	Insufficient data	Aircraft (appears to be ad plane see sighting on same date, same approximate time, and same general location - both descriptions are consistent with Ad plane sightings mentioned by Hendry)
12	Chicago, IL	Aircraft	Agreed
13	Newark, OH	Physical Specimen: Slag	Agreed
14	Oklahoma City, OK	Aircraft	Agreed
14	Barbados, BWI	Meteor	Agreed
14	Steeleville, MO	Hallucinations	Agreed. Report very difficult to accept.
15	Lamone, MO	Insufficient data	Meteor
15-24	Oradell, NJ	Birds	Unidentified
15	Greenwich, CT	Aircraft	Agreed
15	Pacific	Meteor	Agreed
16	Pacific	Insufficient data	Echo Satellite. Record card stated Echo was too far east but Echo set over horizon only a few minutes before sighting reported and in direction report indicated. Probably minor error in time.
17	Des Plaines, IL	Aircraft	Agreed
18	Ft. Bragg, SC	Flares	Tiros 6 launch.
18	Southern Ohio, IL, MI, TN	Meteor	Tiros 6 launch. See SUNlite 4-5.
18	Wake Island	Satellite decay	Meteor
19	Fairfield, IA	Aircraft	Agreed
18-24	Hawthorne, NJ	Insufficient data	Agreed. NICAP letter listing various sightings in New Jersey with little in the way of specific information. Many were missing durations, positional data, or times.
20	Eveleth, MN	Aircraft	Agreed
20	Kansas City, KS	Hoax	Agreed.
21	Cato, NY	Satellite	Unreliable report. Witness reported in February 63 and not sure of date.
21	WSW Biloxi, MS	UNIDENTIFIED	UNIDENTIFIED
21	Fork Union, VA	Insufficient data	Possible aircraft
21	Sidney, OH	Aircraft	Agreed

22	Newark, NJ	Mirage-Inversion	Insufficient data. There are basic descriptions of sightings but the reports are missing specific data. These could have been aircraft but, without further information, one cannot draw a conclusion.
22	Pacific	Insufficient data	Meteor
22	Uruguay	Balloon	Agreed
23-29	Iran	Insufficient data	Agreed. Multiple reports of objects over a week time period that appear to be meteors but the information in each sighting lack specific information.
24	Atlantic	Meteor	Agreed
25	Arlington Heights, IL	Aircraft	Agreed
26	Cairo, Egypt-Israel	Meteor	Agreed
27	Chicago, IL	Insufficient data	Agreed. No duration.
27	Los Angeles, CA	Insufficient data	Possible aircraft reflection
27	Silver Springs, MD	After image	Unreliable report. Made 18 months after event by 14-year old.
29	Brooklyn, NY	Aircraft	Agreed
29	Farallon Islands	Aircraft	Insufficient data. Specific time, duration, and positional data not listed. Possible observation of KH-4 launch from Vandenberg.
30	Dew line, AK	Insufficient data	Possible meteor.

### October 1962

Date	Location	BB explanation	My evaluation
Oct	North Carolina	Flaw in negative	Agreed
1	Duluth, MN	Venus	Agreed
2	Pacific	Insufficient data	Failed Atlas D Missile test. Seen between Hawaii and California 6 minutes after launch of Atlas D missile from Vandenberg that failed after an apogee of 500 miles. Azimuth is in direction of expected track.
2	Buck Island, Caribbean	Meteor	Agreed
2	Philadelphia, PA	Aircraft	Agreed
2	Moses Lake, WA	Auroral Reflection	1. Possible meteor 2. Venus and Moon setting seen through scattered clouds.
3	Pacific	Satellite	Agreed. Echo Satellite
3	Tyndall AFB, FL	Meteor	Agreed
4	Des Plaines, IL	Insufficient data	Agreed. Witness reported a 1-2 second glow outside their window but did not look directly out the window to see what it was.
4	Baldwin, ND	Insufficient data	Agreed. Witness in aircraft reported seeing something fall downward from the sky. No other information.
5	Pacific	Satellite	Agreed. Echo Satellite
5	Ouagaougou, Upper Volta	Physical specimen: Atlas Booster	Agreed
6	Charlottesville, VA	Satellite	Agreed. Echo Satellite. Witness description indicated retrograde motion. However, track given lines up with track of Echo except in opposite direction. Witness probably confused event in reporting.
6-7	Naha, Okinawa	Satellite	Agreed. Echo Satellite. Photographs similar to that of satellite track.



7	Springfield, OH	Reflection	Possible moon set. Witness listed time of report was while driving to Dayton 45 minutes after moon set. However, witness made initial report via a phone call five minutes prior to time of sighting. Witness probably confused time of sighting. Description of crescent shape and direction consistent with seeing setting moon.
7-8	Upper Volta, Africa	Physical specimen: Atlas Booster	Agreed
10	Chicago, IL	Satellite	Agreed. Echo Satellite. Time was CDT and time on card should be 0200Z.
12	Forbes AFB, KS	Aircraft	Agreed
14	Granby, Quebec, Canada	Aircraft	Agreed
14	6 mile SW pass, MS	Meteor	Agreed
16	Atlantic	Insufficient data	Possible sighting of Alouette 1 Rocket body
17	Donaldsville, LA	Missile	No missile launch on that date and time. Witness did not give duration but description indicates possible aircraft seen in twilight.
17	Stamford, CT	Aircraft	Agreed
18	Chicago, IL	Insufficient data	Possible Aircraft.
18	Nebraska-SD	Meteor	Agreed
18	Pacific	Insufficient data	Agreed. No direction or positional data.
19	Eutaw, AL	Sirius	Agreed
20	Bristol, RI	Physical Specimen: Plastic	Agreed
20	Wells, ME	Meteor	Agreed
20	Pacific Grove, CA	Meteor	Agreed
22	Atlantic	Satellite	Agreed. Echo Satellite.
23	Atlantic	Satellite	Agreed. Echo Satellite.
23	Farmington, UT	UNIDENTIFIED	UNIDENTIFIED
25	Neosho, MO	Munitions test	Agreed
25	Nadi-Honolulu near Canton Island, Pacific	Insufficient data	Agreed. No duration listed.
26	Pacific	Refraction Moon	Agreed. Moon was just rising and distortion of moon created effect reported.
26	Corpus Christi, TX	Physical specimen: Bottle Glass	Agreed
27	Auburn, AL	Insufficient data	Agreed. Confusing report. Object seen at 90 degrees relative with aircraft on 270 degree course but was described as being to south towards Auburn, Alabama (25 miles away). Without specific information of aircraft's location and more precise direction, one cannot resolve this sighting.
27	Atlantic, E. of Canaveral	Missile	Agreed
27	Norton, CT	Insufficient data	Possible meteor
29	Moorehead, MN	Insufficient data	Possible aircraft
29	Altadena, CA	Balloon	Agreed
29	Cora, WY	Balloon	Agreed
31	Kettering, OH	Aircraft	Agreed

## November 1962

Date	Location	BB explanation	My evaluation
Nov/ Dec	Tanganyika, East Africa	Contrail	Agreed
1	Sudan, East Africa	Noctilucent Cloud	Description is of a cloud. There is no evidence that it was noctilucent.
1	Woburn, MA	Psychological	Agreed. Witness reported a large craft being visible in the middle of the day from a rooftop in the middle of a densely populated city. No confirming witnesses.
1	Metairie, LA	Aircraft	Agreed
1	Atlantic	Meteor	Agreed
2	Alexis Creek, British Columbia	Physical Specimen: Chaff Container	Agreed
2	Pacific	Satellite	Agreed. Echo Satellite.
3	Paramaribo, Surinam, SA	Satellite	Agreed. Echo Satellite. Witness gave wrong Zulu time. Surinam is in GMT-3 not GMT -4.5.
4	Pacific	Meteor	Agreed
5	Little Rock, AR	War Games	Mercury and contrails
5	Westover AFB, MA	Aircraft	Agreed
7	Baltimore, MD	NASA Sodium shot	Agreed
8	Pacific	Insufficient data	Possible meteor
10	North Star Bay, Greenland	Insufficient data	Agreed. Target appears to have been tracked by Radar but data provided is very limited. Aircraft sent to investigate found nothing.
11	Silver Spring, MD	Insufficient data	Agreed. No negatives submitted. Sounds like a photograph of a meteor.
11	New Orleans, LA	Insufficient data	Agreed. Report from New Orleans of two flashes on the moon. No other information. Moon was rising at the time and what was observed was probably atmospheric effects as the moon rose.
14	Pacific	Missile	Agreed
16	Coos Bay - North Bend, OR	Insufficient data	Aircraft
16	Madison, TN	Meteor	Agreed
16	Tamiami, FL	Aircraft	Agreed
16	Pacific	Insufficient data	Possible meteor
17	Tampa, FL	UNIDENTIFIED	UNIDENTIFIED
20	Montivideo, MN	Meteor	Agreed
20	Klamath, CA	Balloon	Agreed
20	Atlantic	Satellite	Agreed. Echo Satellite
20	Arizona-NM	Meteor	Agreed
22	Pacific	Insufficient data	Possible meteor
23	Pacific	Insufficient data	Possible aircraft
27	Westover AFB, MA	Star/planet	Venus. Witness looking out window seeing object rising over long period of time. Witness stated object was in west but description is consistent with Venus rising in the SE.
29	Concord, VT	Meteor	Agreed
29	West Union, OH	Insufficient data	Agreed. Object viewed for 30 minutes but no positional data
30	Cedar Lake, WI	Meteor	Agreed
30	Muskegon, MI	Aircraft	Agreed

## December 1962

Date	Location	BB explanation	My evaluation
1	East Point, GA	Balloon	Agreed
1	Arlington, MA	Aircraft	Agreed
3	Atlantic	Meteor	Agreed
3	Gulf of Mexico	Insufficient data	Aeronomy mission from Eglin AFB
4	Ridgefield, CT	Aircraft	Agreed
6	Atlantic	Satellite	Agreed. Echo Satellite.
6	San Mateo, CA	Unreliable report	Aircraft. Report by 13-year old on foggy morning.
7	Pacific	Insufficient data	Possible sighting of Midas 3 satellite
8	Lincoln Park, MI	Conflicting data	Agreed. Slides dated as being mounted in April 1962. Visual sighting sounds like aircraft or satellite.
10	Brooklyn, NY	Searchlight	Agreed
11	Ashland, OR	Meteor	Agreed
13	Robbins AFB, GA	Meteor	Agreed
13	Charlottetown, PEI, Canada	Unreliable report	Agreed. Letter from individual stating that he seen UFOs for the past five years. The only date given was 7 July 1957 with very little specifics about the sighting.
13-14	Greenfield, CA	Balloon	Venus. First sighting at 0047 was of meteor. Remaining sightings were of the planet Venus.
14	Pound Ridge, NY/Wilton, CT	Meteor	Agreed
16	Atlantic	Insufficient data	Possible meteor
18	Huntington, WV	Satellite	Agreed. Echo Satellite.
18	Tirol, Italy	Meteor	Agreed
20	Cambria, CA	Venus	Agreed
20	Worcester, MA	Insufficient data	Possible aircraft
21	Venezuela	Insufficient data	<b>NO CASE FILE</b>
28	Miamisburg, OH	Venus	Arcturus. Venus had not risen yet.
30	Pacific	Satellite	Agreed. Echo Satellite.

## Reclassification

I evaluated 274 cases in the Blue Book files from July through December 1962. In my opinion, 75 were improperly classified (about 27%). 41 (about 15% of the total number of cases/55% 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
July	Glenside, PA	Insufficient data	Possible birds
July	Ashland, WI	Aircraft	Possible fireball
4	Pacific	Missile	Possible fireball (duration not listed but characteristics indicate a possible fireball meteor)
5	Pacific	Satellite	Insufficient data. Ship's location not given. Echo satellite made pass in eastern Pacific that would match the observations.
6	Sagatuck, MI	Insufficient data	Aircraft
7	Hallet Station, Antarctica	Meteor	Corona 9037 re-entry. See Ted Molczan's visually observed re-entries database.
7	Albuquerque, NM	Insufficient data	Possible fire balloon
8	British Honduras	Insufficient data	Possible aircraft

12	Atlantic Ocean	Satellite	Conflicting data. USS Falgout (sighting ship) stationed in Hawaii. Messages to CINCPACFLT and not CINCLANT confirming ship was located in Pacific. Error in recorded longitude. Location unknown.
13	Pacific	Satellite	Duration too short for satellite. Possible aircraft
13	Carlsbad, NM	Jupiter	Saturn. Jupiter rose an hour later. Saturn was in location described as last location. Witness gave inaccurate report about objects direction of movement because they sent follow up letter identifying the object as the "evening star".
14	Rock Hill, SC	Insufficient data	Possible aircraft/balloon passing in front of moon seen through 30X telescope
14	Evanston, IL	Aircraft	Insufficient data. Report filed in February 1967
19	Southern France	Insufficient data	Echo Satellite
20	Westville, IN	Insufficient data	Echo Satellite (comments on record card about Echo satellite pass incorrect)
22	Kansas City, MO	Insufficient data	Possible aircraft
23	Bremerton, WA	Meteor	Insufficient data. Letter written by high school student recalling reading UFO sightings by pilots in Seattle newspaper. No specific information and AF could not locate the article/report except for a report of sightings on July 23, three months earlier. This only described a "lighted object" being seen and one pilot stating it was a meteor.
24	Culebra Island, Caribbean	Insufficient data	Possible meteor
29	Pacific	Insufficient data	Echo Satellite
29	Atlantic	Satellite	Conflicting information. Actual location was near Suez Canal. Description does not match sky conditions for time at that location. Regulus not visible at 2129Z. Either position is wrong or time incorrectly calculated.
8/6	Colorado Springs, CO	Insufficient data	Contrail
18	Dayton, OH	Altair-Jupiter	Saturn and Jupiter
20	Fort McKinley, OH	Insufficient data	Venus
20-21	Cleveland, OH	Balloon	Contrail at dusk
21	Newark, OH	Insufficient data	Contrail at dusk
21	Chicago, IL	Insufficient data	Possible aircraft
22	Cleveland, OH	Aircraft	Meteor
26	Aurora, CO	Insufficient data	Possible meteor
27	Las Cruces, NM	Insufficient data	Black object seen briefly while driving. Possible bird.
28	Orcas Island, WA	Insufficient data	Possible aircraft
29	Alexandria, VA	Insufficient data	Possible meteor
28	Pacific	Insufficient data	Echo Satellite
30	Bickmore, WV	Aircraft	Insufficient data. Report made 10 months later with no direction or duration reported.
9/1	Atlantic	Missile	Aircraft
2	Pacific	Insufficient data	Echo Satellite. Error on record card stating it was daylight observation. Entry probably confused East and West Longitude. Sighting occurred in morning twilight.
6	Hanksville, UT	Jupiter	Daytime sighting of Venus
9	Topeka, KS	Balloon	Insufficient information. No direction. Possibly Venus.
9	Yonkers, NY	Aircraft	Unreliable report. 13-year old making a report in January 1965.



12	Chicago, IL	Insufficient data	Aircraft (appears to be ad plane see sighting on same date, same approximate time, and same general location - both descriptions are consistent with Ad plane sightings mentioned by Hendry)
15	Lamone, MO	Insufficient data	Meteor
15-24	Oradell, NJ	Birds	Unidentified
16	Pacific	Insufficient data	Echo Satellite. Record card stated Echo was too far east but Echo set over horizon only a few minutes before sighting reported and in direction report indicated. Probably minor error in time.
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18	Southern Ohio, IL, MI, TN	Meteor	Tiros 6 launch. See SUNlite 4-5.
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22	Newark, NJ	Mirage-Inversion	Insufficient data. There are basic descriptions of sightings but the reports are missing specific data. These could have been aircraft but, without further information, one cannot draw a conclusion.
22	Pacific	Insufficient data	Meteor
27	Los Angeles, CA	Insufficient data	Possible aircraft reflection
27	Silver Springs, MD	After image	Unreliable report. Made 18 months after event by 14-year old.
29	Farallon Islands	Aircraft	Insufficient data. Specific time, duration, and positional data not listed. Possible observation of KH-4 launch from Vandenberg.
30	Dew line, AK	Insufficient data	Possible meteor.
10/2	Pacific	Insufficient data	Failed Atlas D Missile test. Seen between Hawaii and California 6 minutes after launch of Atlas D missile from Vandenberg that failed after an apogee of 500 miles. Azimuth is in direction of expected track.
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7	Springfield, OH	Reflection	Possible moon set. Witness listed time of report was while driving to Dayton 45 minutes after moon set. However, witness made initial report via a phone call five minutes prior to time of sighting. Witness probably confused time of sighting. Description of crescent shape and direction consistent with seeing setting moon.
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17	Donaldsville, LA	Missile	No missile launch on that date and time. Witness did not give duration but description indicates possible aircraft seen in twilight.
18	Chicago, IL	Insufficient data	Possible Aircraft.
27	Norton, CT	Insufficient data	Possible meteor
29	Moorehead, MN	Insufficient data	Possible aircraft
11/1	Sudan, East Africa	Noctilucent Cloud	Description is of a cloud. There is no evidence that it was noctilucent.
5	Little Rock, AR	War Games	Mercury and contrails
8	Pacific	Insufficient data	Possible meteor
16	Coos Bay - North Bend, OR	Insufficient data	Aircraft

16	Pacific	Insufficient data	Possible meteor
22	Pacific	Insufficient data	Possible meteor
23	Pacific	Insufficient data	Possible aircraft
12/3	Gulf of Mexico	Insufficient data	Aeronomy mission from Eglin AFB
6	San Mateo, CA	Unreliable report	Aircraft. Report by 13-year old on foggy morning.
7	Pacific	Insufficient data	Possible sighting of Midas 3 satellite
13-14	Greenfield, CA	Balloon	Venus. First sighting at 0047 was of meteor. Remaining sightings were of the planet Venus.
16	Atlantic	Insufficient data	Possible meteor
20	Worcester, MA	Insufficient data	Possible aircraft
28	Miamisburg, OH	Venus	Arcturus. Venus had not risen yet.

## Summary

As usual, I found many of these cases challenging. Others I found frustrating because so much information was missing or potentially incorrectly entered. Despite these limitations, I managed to get through all of the cases and assess their status. Thirty-nine reports (about 14% of the total number of cases) were of the Echo Satellite.

Probably the most difficult case to examine had to have been the Oradell, New Jersey sighting. This has entered UFO folklore as a good case but really relies on the reports of three teenagers and very little else. My biggest problem was why weren't there reports from other individuals. If a very bright object dived into the reservoir, one would think that others in the area would have seen and reported it. Still, I found myself pulling back from labeling it a hoax. Instead, I gave them the benefit of the doubt and declared it unidentified. I certainly don't agree with the assessment that it was birds.

Since I have now closed out 1962, it means I have covered ten years of Blue Book reports. Of course, I have not tackled anything before 1953. 1952 is going to be quite the trial and it will probably take a year's worth of SUNlite to take on that case load. However, that is still in the future. Next issue, I take on the first half of 1963.

## 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.