

SUNlite

Shedding some light on UFOlogy and UFOs



A venting rocket booster observed over New Hampshire on November 4, 2025

Special Edition #2

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Blue Book by the numbers

In this special edition of SUNlite, I want to focus on examining the official Blue Book numbers. In a recent e-mail exchange, Vicente-Juan Ballester Olmos and I were discussing the Blue Book numbers compared to what Hynek had published following the Center for UFO studies reevaluation of Blue Book data in the 1970s. While Hynek put out some numbers, it was not clear on his exact values and there seems to be no raw data available to determine what those values were. When you compare them with what Blue Book had as their final numbers and what Hector Quintanilla had presented in his unpublished manuscript, there seemed to be no consistency on anything. As a result, I felt I needed to muddy the waters further by going through the monthly data sheets and tabulate the numbers myself.

I refer to my tallying of the files on pages 28-49 as the Blue Book raw values. It is a tabulation of how Blue Book classified cases/sightings and nothing more. Of course, there are differences between what I publish here and what everyone else presented as the Blue Book final numbers. There are reasons for the differences.

Let's start with the total number of cases/sightings. People don't quite realize that there is a difference. If you look at the monthly summaries, you will see individual cases listed. Most of them contain just one sighting. However, quite a few contain more than one. In some instances, there are dozens of sightings in a single case. Therefore, one cannot simply count cases and state this is the number of sightings. Even that kind of counting is difficult.

Somebody at Blue Book numbered the cases in their monthly summaries with a pen. One would think that would make the counting of the cases easy. However, Blue Book numbered cases that were not even part of the Blue Book system! These cases were labeled "For information only" and contained things like newspaper clippings and reports from NICAP/other UFO groups. Prior to April 1956, each of these was assigned a case number. Beginning in April 1956, all the "for info only" cases. In that month, were grouped together and given a single case file number. Then there were the sightings in the system that did not receive a case number because it was considered "missing"! All this confusion means you could not even look at the last entry in December 1969 (12750) and state that was the number of cases in the system! When I performed a count of the total number of actual "cases" that were part of the classification system (excluding for information only and counting even the "missing" cases), I found the number to be 12274.

One of Blue Book's major book keeping mistakes had to do with their counts prior to 1953. It seems that the system gave all, or most

of all, their files to the Battelle institute for their Project Stork evaluation. This was published in Blue Book Special Report 14(SR14). Once the study was done, they may not have returned everything, items were misfiled, or cases were combined. When Blue Book finally decided to create their monthly summary sheets, the numbers did not agree with SR14 or their official totals. This was especially true when one looked at the number of unidentifieds for 1952. I had previously discussed this in SUNlite 17-3 and won't repeat it here.

In 1969, at the time of their closing, Blue Book listed their official total 12,618 sightings and 701 unidentifieds. Just about everyone that has counted the cases labeled unidentified has come up with a much lower number. In the 1970s, CUFOS counted 587 unknowns and 13,134 sightings. Hector Quintanilla wrote an unpublished manuscript that lists 12,580 sightings and 701 unknowns. In 2024, when I published the results of my re-evaluation of the Blue Book files, I mentioned that I had counted 597 unknowns prior to my reevaluation of the cases. I did not publish the raw Blue Book numbers at the time but I did list the total number of re-evaluated sightings as 13,354 (In SE-1 I increased that number to 13,370). This value doesn't quite reflect the Blue Book raw values since I included additional sightings/cases that were listed in the monthly case summary as a single sightings/case. As a result, my numbers were higher than Blue Book's.

Some examples of some of these multiple sighting cases can be found in February 1959 (Coburn, Virginia), August 1965 (Midwest flap), Ellington AFB August -December 1965 (Houston, Texas), and Long Island, NY October 1966. By my count, they contain 409 sightings that were counted by Blue Book as just four cases/sightings. Some of these were given explanations, while others did not have any classifications at all.

Then there were the individual cases that had more than one sighting by the witness(s). In some instances, Blue Book identified all the individual sightings in the file and gave explanations for each. In other cases, they were not so thorough. An example is the October 17-18, 1966 Tampa, Florida case. In that series of sightings, a woman reporting 11 UFOS over a 3 hour period. Blue Book broke it down to only two sightings. One was stars/planets and the other a satellite. Most of the sightings were of stars and planets. Do we classify it as one star/planet or ten (the 11th being the satellite)? For the Blue Book raw counts, I simply counted it as two sightings because that is what Blue Book did. However, for my reevaluation, I counted it as 10 different stars/planets sightings and one insufficient data (the data was not enough to determine if it was a satellite). There are other cases where multiple objects were seen in formation. In those instances, it is counted as one sighting since the objects were all related. I try to be consistent with these rules but this kind of counting makes it difficult to have everyone agree on getting consistent numbers.

I also had problems with the photographic sightings. Sometimes the photos had nothing to do with the visual report. A photograph with an optical flaw that was accompanied by a sighting of what appears to have been Venus counts as two different sightings. One for the visual report (Venus) and the other for photograph (optical flaw). In case of a suspected hoax, I usually classified the whole event as one single hoax since the two (the report and photograph) were linked.

One can see that the values are going to vary depending on who is classifying/counting and what kind of rules they adopt. Rather than having a process that simply counts numbers, it turns into something of a subjective exercise.

Another serious problem with the final values obtained is the potential human errors involved in counting such large numbers. I tried to reduce the potential for error by counting by months but even that had some large values for some months. In those instances, I counted by individual sheets. I also tried to install double checks in my system to reduce errors in tallying those numbers. Despite this effort, there is still the potential for counting errors. I went back into my Blue Book review and performed a new recount to check my numbers from those published in SUNlite 17-3 and SE-1. In some cases, the category totals agreed to the exact value. In other instances, the numbers were not as accurate (the biggest variation were the meteors category with +33). This new tally is in this issue. Since I can't even be sure these counts are 100% accurate, I will simply state they are my "best estimate". It gives you appreciation for those doing physical recounts in elections! I encourage others to replicate my effort but I doubt there will be many volunteers. It can be an exhausting exercise but if somebody does attempt it, I would appreciate they let me know the results they had.

One of the things I discovered in my Blue Book raw count was that my number of unidentifieds was incorrect. In SUNlite 17-3, I stated there were 597 unknowns in the Blue Book files. This time around, I initially got 595. Miscounts do happen and I looked at the yearly numbers to discover where I made a mistake. One of the miscounts was from 1949. I listed 14 in SUNlite 17-3 but this time I only counted 13. I performed multiple rechecks from my supplement and the original monthly totals and continued to get 13. It appears I made a mistake during my rough count for the year 1949. I probably added a case that I had reclassified as unidentified category. This reduced the total of unidentifieds by one. The other error in counting came from 1952. I only counted 214 this time around but had 215 listed in SUNlite 17-3. I traced the error to the July 5, 1952 Norman, Oklahoma sighting. In SUNlite 16-6, I made the mistake of listing it as "insufficient information". It was actually listed as "UNIDENTIFIED" in the Blue Book monthly summary. In SUNlite 17-3, I had performed my "UNIDENTIFIED" count using the raw monthly summaries but this time I used my Blue Book Supplement, which was easier to read. This is how the mistake was exposed. I have now corrected this error with my new Blue Book totals in this issue and also corrected the mistake with a new Blue Book Supplement (V3). As far as my counts go, the total number

of unidentifieds listed in the raw number Blue Book files stands at 596.

This table gives the breakdown of the new totals/unidentifieds:

Year	Blue Book fact sheet sightings	Sightings based on "raw" data (my count)	Blue Book fact sheet Unidentifieds	Unidentifieds based on "raw" data (my count)
1947	122	108	12	9
1948	156	172	7	7
1949	186	361	22	13
1950	210	212	27	27
1951	169	168	22	22
1952	1501	1278	303	215
1953	509	507	42	45
1954	487	493	46	46
1955	545	505	24	20
1956	670	644	14	11
1957	1006	1010	14	14
1958	627	629	10	10
1959	390	433	12	12
1960	557	560	14	13
1961	591	585	13	13
1962	474	475	15	16
1963	399	405	14	14
1964	562	572	19	19
1965	887	1241	16	16
1966	1112	1134	32	32
1967	937	994	19	18
1968	375	397	3	3
1969	146	149	1	1
Totals	12618	13032	701	596

I would like to point out that my total sightings includes the 409 sightings from the cases that were counted as four sightings in the Blue Book numbers (Coburn, Virginia 1959, Mid-west flap August 1965, Ellington AFB August-December 1965, and Long Island flap October 1966). If we take away those 405 sightings (remember these were counted as four sightings already), the total from the raw data is 12627, which is very close to the 12618 total. However, I think it is more of a coincidence than proving Blue Book correct. As I have already pointed out the numbers prior to 1953 are not accurate. Some of my counts had more sightings than what Blue Book listed (See 1949 as an example).

I also would like to point out that the 13032 value I obtained is not far from the number CUFOS counted in the 1970s (13134). So, one can see, that the major difference between the Blue Book counts and others seems to be due to these four case files. The rest can be traced to individual cases over the years that included multiple sightings in them and how they were counted.

A complete break down of all the raw Blue Book AND my new Blue Book review data is available in this issue starting on page 28.

I also spent this issue working on more of the 701 club unidentifieds that I felt had explanations for them. These will be reflected in the new values in the Blue Book re-evaluation totals. I also have updated the Blue Book supplement (now version 3), 701 club entries (p.73), and remaining unknowns list (p.89).

THE 701 CLUB PART 1: CASE 95 OCTOBER 14, 1947

PHOENIX, ARIZONA

Don Berliner describes the case as follows:

Oct. 14, 1947; 11 mi. NNE of Cave Creek, Arizona. Noon MDT. Witnesses: ex-AAF fighter pilot J.L. Clark, civilian pilot Anderson, third man. Watched 45-60 seconds while one 3-foot "flying wing"-shaped object, which looked black against the white clouds and red against the blue sky, flew straight at an estimated 380 m.p.h., at 8-10,000 feet, from NW to SE.¹

Sparks' entry:

Oct. 14, 1947. 11 miles NNE of Cave Creek, Ariz. 12:11 p.m. (MDT). Ex-AAF fighter pilot J. L. Clark, civilian pilot Anderson, from the ground saw 3-foot [?] "flying wing," black against the white clouds and red against the blue sky, at about 25° elevation, flying straight at an estimated 350 m.p.h., at 8,000-10,000 ft, from NW to SE. (Sparks; Berliner; Saunders/FUFOR Index).²

The Blue Book file³

The case file contains a few pages but the report is nothing more than a paragraph in length. Details of the sighting were:

- Date and time was 14 October 1947 at 1200 PM MST.
- The location was eleven miles NNE of Cave Creek, Arizona. This puts the witnesses near Seven Springs (about 10 miles west of the Horseshoe reservoir).
- The object appeared to have a triangular shape to it. It was described as appearing like a "flying wing" and the other thought it might have been a buzzard. No tail was visible.
- The object was visible for 45-60 seconds.
- The estimated speed was 350 mph and estimated altitude was 8-10,000 feet. Estimated diameter was 3 feet.
- The object appeared to be red when it was visible in clear sky. When it passed in front of clouds, it appeared black.
- Its course was from NW to SE.
- Initial elevation angle was 25 degrees.
- Surface wind was blowing towards the NE.

Analysis

Looking at the information, we have two individuals, who reported seeing a solid object that flew fast across the sky, which was visible for about one minute. The aerodynamic shape of the object indicates it was something designed to fly. However, I don't think it was a man-made, or alien, design. It was probably a bird as one of the witnesses suggested. There are plenty of large birds in the region. Some of these large birds include buzzards, vultures, double crested cormorants, the California condor, bald/golden eagles, and ferruginous hawks.⁴ Not all of these are found in the vicinity of Cave Creek but enough of them are. As usual, one has to consider any estimates of size, distance, and speed as just being that. Any error in those estimates would result in the other estimates being in error. There is little in the information presented (other than the estimates of speed) that rules out a bird explanation.

Conclusion

In my opinion, this case should be reclassified as a possible bird. It should be removed from the list of 701 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. 28
3. "Case file Phoenix, Arizona 14 October 1947". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9669574/phoenix-ariz-37-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. Edwards, Trina Julian. "Discover the 15 Largest Flying Birds in Arizona". A-Z animals web site, Published November 15, 2023. Updated September 20, 2025. Available WWW: <https://a-z-animals.com/animals/birds/bird-facts/discover-the-largest-flying-birds-in-arizona/>

THE 701 CLUB PART 2: CASE 682 MARCH 29, 1950

MARROWBONE LAKE, TENNESSEE

Don Berliner describes the case as follows:

March 29, 1950; Marrowbone Lake, Tennessee. 7 a.m. Witnesses: real estate salesmen Whiteside and Williams. Six-twelve dark objects shaped like 300-lb. bombs, estimated 5 feet long. Flew 500 m.p.h. and descended, making a noise like wind blowing through the trees.¹

Sparks' entry:

March 29 [30?], 1950. Marrowbone Lake, Tenn. 7 a.m. Real estate salesmen Whiteside and Williams saw 6-12 dark objects shaped like 300-lb. bombs, estimated 5 ft long, flying 500 mph in descent, making a noise like wind blowing through the trees. (Sparks; Berliner).²

The Blue Book file³

The case file consists of a summary of information report, which was not really an investigation. Instead it basically was a copy of a newspaper article:

- The observers were two fisherman on Marrowbone Lake.
- Time was 7:00 AM.
- The noise the objects made was like the wind through trees.
- 6-12 objects appeared in the SE and passed overhead at an estimated altitude of 200-300 feet.
- The objects moved in formation, close together, towards the west, where they disappeared in a few seconds.
- The objects were black, round, and heavy.
- The observers estimated the speed was 500 mph.
- They were compared to a 300 pound bomb.

Analysis

The witnesses may have been describing a flock of small birds. Purple martins migrate in groups through the Nashville region starting in early March.⁴ They are only 8 inches in length with a 16 inch wingspan. Starlings, who also fly in groups, are also common in the region.⁵ There are other types of birds that fly close together that could have produced the effect seen. The sighting was over an hour after dawn when birds begin to start their foraging mode. It was also when migrating birds are in the region on their journey north. I don't see anything in this report that rules out a flock of birds.

Conclusion

In my opinion, this case should be reclassified as a possible birds. It should be removed from the list of 701 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. 86
3. "Case file Marrowbone Lake, Tennessee 29 March 1950". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9614498/marrowbone-lake-tenn-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. "Purple Martin". Tennessee wildlife resources agency. Available WWW: <https://www.tn.gov/twra/wildlife/birds/waterbirds/purple-martin.html>
5. "European Starling". Tennessee wildlife resources agency. Available WWW: <https://www.tn.gov/twra/wildlife/birds/grassland-and-shrub-birds/european-starling.html>

THE 701 CLUB PART 3: CASE 864 JANUARY 8, 1951

SOUTH OF FORT WORTH, TEXAS

Don Berliner describes the case as follows:

Jan. 8, 1951; South of Ft. Worth, Texas. 10:45 p.m. Witnesses: Mr. and Mrs. W.J. Boggus, plus unidentified drivers and passengers in other cars stopped to watch. Two groups of red and green lights in triangular formations were stationary and then moved.¹

Sparks' entry:

Jan. 8, 1951. S of Ft. Worth, Texas (32.75° N, 97.32° W). 10:45 p.m. Mr. and Mrs. W. J. Boggus, plus unidentified drivers and passengers in other cars stopped to watch 2 stationary groups of red and green lights in triangular formations which then moved. (Sparks; Berliner; Saunders/FUFOR Index).²

The Blue Book file^{3,4}

The Blue Book file contains a spot intelligence report dated 19 January 1951. It was written by office of special investigations (OSI) at Kelly AFB in San Antonio. The report contains statements by the witness made on 12 January 1951 and a sketch. The important details are:

- Observation time was 22:45 CST on January 8th, 1951.
- The location was just south of the highway and US-81. This is now the intersection of Interstate 35 and Interstate 20. Carswell AFB is about 10 miles to the NW of this location.
- Duration was given as about 5 minutes.
- Witnesses had just exited the highway and were driving south when they notice cars pulled off the highway observing formations of lights.
- Each group of lights were composed of two green lights and one red light forming a triangle.
- Their altitude was estimated at 1000 feet.
- There were three to four of these three light "triangles" to the west of US-81 and they appeared stationary. After a short period, it was determined they were flying north at slow speed (estimated 100 mph).
- Another light "triangle" was seen to the east of US-81, heading North. The description only mentions one set of lights east of the road but the sketch indicates there were more than one.
- The only sound heard was as the lights departed. It sounded like an "outboard trolling motor in the distance"
- There is no indication that the report was followed up with any investigation.

Analysis

The red and green lights seem to be a clue as to what was seen that night. Aircraft have navigation lights on their wing tips that are red (port side) and green (starboard side). Ten miles to the northwest of this sighting was Carswell AFB, which had a heavy bomber group that included B-36 aircraft. The appearance of the aircraft approaching Carswell from head-on would have made it appear that the aircraft were nearly stationary before noticing that they were slowly moving in their direction. This appears to be a group of 6-10 B-36 bombers approaching the airbase. The 8th of January was a Monday so this appears to be an exercise of some kind and were aircraft returning to Carswell.



In a possible connection to the sighting, six B-36s (along with support transports) were deployed from Carswell to the UK around 15 January 1951. ⁵ It was pretty big news at the time. ⁶ They returned to Fort Worth on 21 January. While in Europe, the bombers practiced conducting bombing raids on various targets. Such deployments usually require practice exercises before their departure.

This was to help the ground and air crews improve their proficiency and make sure the actual mission went as planned. These would have most likely would have occurred shortly after New Years day (when the Christmas stand down period ended) and three-seven days before the 15th. That would give the deploying crews and aircraft time to correct any problems and rest before their departure. The 8th of January would be in this time period for any pre-deployment training flight.

There was no indication that the Kelly AFB OSI made any investigation or requested information from Carswell on aircraft activity. A detailed investigation might have revealed the source of this sighting if aircraft were involved. There is nothing in this report that rules out aircraft activity as a source of this sighting.

Conclusion

In my opinion, this case can be reclassified as probably aircraft and be 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. 103
3. "Case file South of Fort Worth, Texas 8 January 1951". Fold 3 web site. Available WWW: <https://www.fold3.com/image/7005216/s-of-ft-worth-texas-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. "Page 1 of spot intelligence report". Fold 3 web site. Available WWW: <https://www.fold3.com/image/7005142/honolulu-th-blank-page-2-us-project-blue-book-ufo-investigations-1947-1969>
5. "Ten engine US bomber's 1951 UK debut". Key.Aero. Available WWW: <https://www.key.aero/article/10-engine-us-bombers-uk-debut>
6. "B-36 bombers visit England". Youtube. Available WWW: <https://www.youtube.com/watch?v=q3AG-JsjoyA>

THE 701 CLUB PART 4: CASE 980 OCTOBER 2, 1951 COLUMBUS, OHIO

Don Berliner describes the case as follows:

*Oct. 2, 1951; Columbus, Ohio. 6 p.m. Witness: Battelle Memorial Institute graduate physicist Howard Cross. One bright oval with a clipped tail flew straight and level, fading into the distance after 1 minute.*¹

Sparks' entry:

*Oct. 2, 1951. Columbus, Ohio (39.98° N, 82.99° W). 6 p.m. Battelle Memorial Institute physicist Howard Cross was in his car parked at Ohio State Univ. when he heard a loud noise from a DC-3 and looked in the sky to where it was coming from. He noticed what he first thought (as he escalated hypotheses) was a light flash like "sun reflecting from mirror," then tried to explain it as a balloon, then a parachute (but object was not falling). The object was in the SE [?], above and to the W of the DC- 3, which was at roughly 1,000 ft height heading E, size "somewhat smaller" than the DC-3 fuselage, flying away from him in straight and level flight at "high speed" to the W into the wind (as checked with weather reporting), appearing as a bright oval with a clipped tail [or a shield or half-moon shape] with curved side always up as it traveled with the flat face forward, changing to an orange color as it faded into the distance. (Sparks; BB Maxwell Microfilm Roll 9pp. 231-7; Berliner).*²

The Blue Book file^{3,4}

The Blue Book file contains enough details to evaluate this case. The details are:

- Object was visible in the west.
- The object was sighted at 18:00 local time.
- Witness saw object because he looked up trying to following a DC-3 flying eastward that was noisier than usual.
- Object appeared as a bright flash that slowly faded away.
- Two durations were listed. One was fifteen seconds and another was one minute.
- Witness thought it was a balloon at first and then thought it was a parachute. Witness concluded the object was flying westward at a high speed because of it fading quickly.
- The event happened around sunset because the witness remarked about the sky reddening and deep shadows around the buildings. Sunset was at 18:12 EST.
- Balloon data indicated winds were from the WSW and West above 5,000 feet.



Analysis

A bright point source in the west around sunset indicates that whatever the source was, it was reflecting the sun. I have seen high altitude aircraft appear this way over the years. Often they have short contrails but sometimes, depending on atmospheric conditions, they do not. These photographs above were taken on September 25, 2009 and show an aircraft reflecting the setting sun about 18 minutes after sunset (time was 18:55 in EXIF data). It is not Venus because that was in the morning sky on that date. The second photograph shows the same part of the sky less than a minute later. The reflection is fainter and slightly lower in the sky. Shortly after this, it had faded away.

There is nothing in the description by the witness that indicates that this was not the case here. There were plenty of military aircraft available at the time that could fly at altitudes above 30,000 feet. The B-36, B-29, B-47, and various fighters could all reach high altitudes and create such a reflection.

Conclusion

In my opinion, this case should be reclassified as a possible aircraft reflecting the setting sun. It should be removed from the list of 701 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. 112
3. "Record card Columbus, Ohio 2 October 1951". Fold 3 web site. Available WWW: <https://www.fold3.com/image/7010586/columbus-ohio-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. "Report of information on Unconventional aircraft Columbus, Ohio 2 October 1951 dated 9 October 1951." Fold 3 web site. Available WWW: <https://www.fold3.com/image/7010568/ellington-afb-texas-blank-page-2-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 5: CASE 1113 APRIL 14, 1952

LA CROSSE, WISCONSIN

Don Berliner describes the case as follows:

April 14, 1952; LaCrosse, Wisconsin. 12:35 p.m. Witness: unidentified CAL airline pilot. Several light colored objects flew in V-formation. No further details in files.¹

Sparks' entry:

April 14, 1952. La Crosse, Wisc. 12:35 p.m. Unidentified CAL (Central Air Lines) pilot saw several light colored objects fly in V-formation [and change position?]. No further details in files. (Sparks; Berliner; Randle).²

The Blue Book file³

The Blue Book file contains some information including commentary by Hynek about the case in 1968! He lamented that nobody did any follow up on the case and that there was no duration given. The data can be found in a telex. The important details are:

- The time of observation was 12:39 PM CST on April 14th, 1952.
- The observer, a pilot, saw several light colored objects traveling in a V formation at an estimated 15-20, 000 feet.
- The course of the objects was towards the NW.
- The objects changed formation with tremendous speed
- Observations were made from the ground.

Analysis

I agree with Hynek's commentary about the lack of investigation but this was early 1952 when there was little in the way of follow-up investigations or personnel from local air bases being designated to assist in such investigations. In addition to duration, we are also missing weather conditions. A check of weather underground's weather history indicated conditions were "fair" with surface winds from the NNW at 18mph at the time of the sighting.⁴

Of course, the obvious source of a formation of small objects flying in a V formation would be a flock of birds. The timing was right. April is the height of migration season. The course was also towards the NW, which was the direction the upper Mississippi river goes towards Minneapolis from La Crosse. Water fowl and other birds usually follow the river for obvious reasons. The altitude estimate was probably off but that is not unusual. Small objects seen at distance can often appear to be much farther away than they actually are. This is especially true if the sky was clear of clouds, which was the case at the time of the sighting.

Conclusion

This case should be classified as possibly birds and it should be removed from the list of 701 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. 125
3. "Case file La Crosse, Wisconsin 14 April 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/6312648/lacrosse-wisconsin-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. "La Crosse, Wisconsin weather history April 14, 1952". Weather Underground. Available WWW: <https://www.wunderground.com/history/daily/us/wi/la-crosse/KLSE/date/1952-4-14>

THE 701 CLUB PART 6: CASE 1256 JUNE 5, 1952

ALBUQUERQUE, NEW MEXICO

Don Berliner describes the case as follows:

June 5, 1952; Albuquerque, New Mexico. 6:45 p.m. Witness: S/Sgt T.H. Shorey. One shiny round object flew 5-6 times as fast as an F-86 jet fighter for 6 seconds.¹

Sparks' entry:

June 5, 1952. Albuquerque, New Mexico. 6:45 p.m. S/Sgt T. H. Shorey saw a shiny round object fly 5-6x as fast as an F-86 jet fighter. (Sparks; Berliner).²

The Blue Book file³

The Blue Book file contains a telex and an air intelligence information report (IR-2-52) . The important details are:

- The date and time were June 5, 1952 at 6:45 PM MST.
- The observed object was round in shape and shiny in luster.
- The object made no noise and left no tail.
- The speed was estimated at 5-6 times the speed of an F-86.
- It was visible for six seconds.
- The object was traveling towards the north and was first seen nearly overhead (elevation angle of 80 degrees).
- The object passed over a B-29/B-50 aircraft, which had an estimated altitude of 10,000 feet. The witness felt the object was much higher than the aircraft.
- The sky was clear with winds aloft at 20 mph.

Analysis

In SUNlite SE1, I mentioned that daylight meteors were not quite as rare as I once thought. This appears to be another case of a daylight meteor. It helps that the sky was clear and it was in the evening shortly before sunset (7:17 PM MST). With the sun low in a clear sky, conditions would have been good to see a bright meteor during daylight.

Conclusion

In my opinion, this case should be classified as a possible daylight meteor and it should be removed from the list of 701 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. 140
3. "Case file Albuquerque, New Mexico 5 June 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9615215/illegible-blank-page-114-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 7: NO CASE NUMBER JUNE 9, 1952 MINNEAPOLIS, MINNESOTA

Don Berliner could not locate the file:

June 9, 1952; Minneapolis, Minnesota. Case missing from official files.¹

Sparks' could not locate it either:

June 9, 1952. Minneapolis, Minn. Case file missing. (Sparks; Berliner; Randle)²

The Blue Book file

The Blue Book file, for all practical purposes, does not exist. There was a report of some kind but nobody seems to know where it is/was and Blue Book felt it could not even assign a case number to it.

Analysis

There is nothing to analyze. Therefore, I can either classify it as "insufficient information" or "no case file". The fact that some sort of report existed at one point does not count as evidence of anything.

Conclusion

In my opinion, this case should be classified as "no case file" and it should be removed from the list of 701 Blue Book unknowns. I will gladly return it to the list or, at least look at it, before placing it back on the 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. 140

THE 701 CLUB PART 8: CASE 1340 JUNE 25, 1952

TOKYO, JAPAN

Don Berliner does not list the case.¹ Sparks' entry simply states:

June 25, 1952. Tokyo, Japan. (Sparks; Berliner).²

The Blue Book file³

The Blue Book file only contains a report from Tokyo describing two sightings in the region for the month of June.

Sighting #1

- Seen on the 6th of June at 1143 local time (0243Z) at site K-14 (Kimpo airfield in South Korea)
- The object had the appearance of a coin, dull silver in color, and appeared to be spinning CW. It was seven times as long as it was thick. The object had blue edges.
- The speed was estimated at 300 knots.
- The object came out of the north alternating revolving 360 degrees in seven seconds. It then proceeded on a spinning course for 12 seconds before rising upward for 6 seconds. It then disappeared into the sun.
- Another individual saw what was apparently the same object a few seconds later. It went from south to north at a 45 degree angle before returning before passing in front of the sun and being lost. Duration appeared to be three seconds.

Sighting #2.

- A pilot saw a black object descend irregularly from 12000 to 6000 feet on June 23 at 0608 local time (2108Z on the 22nd) over location CV 4359.
- The object then flew at this level for 6-7 seconds, approaching within 1500 feet of the observer before disappearing into clouds.
- Object was estimated to be 15-20 feet in diameter and speed estimated at 250 mph.

Analysis

An important aspect of the first sighting is that we need to know wind direction. Luckily, Kimpo airfield has radiosonde data in the archives.⁴ Winds (obtained from a balloon launched at 0400Z) were from the North and Northwest up to about 7300 meters at wind speed of 20-30 mph below 3000 meters. In my opinion, what was seen was probably wind driven and ascending like a balloon. Kimpo normally launched balloons at 0300Z but the recorded balloon was at 0400Z. If a balloon launch fails for some reason, it is standard practice to retry an hour later. It is possible that the original balloon launch failed but still went airborne. The reason for failure may have produced an odd shape/trajectory. Kimpo airfield was also not far from the front lines in the war. It is possible the balloon could have been launched from there to test air defenses/confuse US forces. The second observer, observing the object going northward for a brief time, could have seen a reversal in direction due to a wind shift.

The second sighting is vague at best, with some data missing. The pilot did not give his altitude, course, or speed but it can be assumed that he was located around 6000 feet. Any speed estimate errors could be compounded by the aircraft's speed giving the illusion of higher speeds if both the object and aircraft were closing in on each other. It is possible the aircraft was an F-80 (shooting star) or F-51 (Mustang).⁵ It seems possible what was seen was a large bird. One type that is found in Korea and Japan is the Stellar Sea Eagle.⁶ It is black and has a wingspan of 6-8 feet and can fly at about 50 mph.

Conclusion

In my opinion, these sightings can be explained as a possible balloon and possible bird. They should be removed from the list of 701 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. 127
3. "Message FM CG FEAF Tokyo Japan to HQ USAF Washington DC dated 25 June 1952 (DTG2 250315Z)". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9616854/illegal-blank-page-469-us-project-blue-book-ufo-investigations-1947-1969>
4. "KSM00047110 Kimpo field radiosonde data". National center for environmental information. Available WWW <https://www.ncei.noaa.gov/data/integrated-global-radiosonde-archive/access/data-por/>
5. "18th fighter wing." Wikipedia. Available WWW: https://en.wikipedia.org/wiki/18th_Wing
6. "Stellar sea eagle." Wikipedia. Available WWW: https://en.wikipedia.org/wiki/Steller%27s_sea_eagle

THE 701 CLUB PART 9: CASE 1347 JUNE 25, 1952

KOREA-JAPAN

Don Berliner could not locate the case file for this one.¹

Sparks' entry:

June 25, 1952. Japan-Korea area. Military witness(es). Case missing [?]. (Sparks; NARA; Randle).²

The Blue Book file³

The file is not easily found. It can be traced to IR-29-52 dated 25 June 1952 (there is even a note by Hector Quintanilla in the file identifying it as this case). This report covers 15 different radar/radar-visual sightings that cover the Japan-Korean area for the time period of 1951-1952. I originally had listed this as 16 cases but I was in error. Brad Sparks did not identify this file as the source for this unidentified but he did list each individual sighting in his document. This table documents all 15 cases. The report scrambles up the dates so I placed them in chronological order.

Case Number	Date	Location	Description
1	1/26/51	About 80 miles east of Hupo-Ri, South Korea	1405-1420I(0505-0520Z): A PBM mariner was escorting an oiler. APS-15 radar recorded target eight different times making passes at speeds up to 3000 knots. The first passed over the tanker. The others originated at the center of the scope and then moved away. There appears to be no visual observations of the target.
2	2/15/51	About 80 miles ENE of Sokcho, South Korea	Time listed as "early afternoon". Patrol craft (no aircraft type listed) detected targets with APS-15 radar. Contact at 90 degrees relative 30 miles. Contact moved CCW changing 10 miles with every sweep until it moved to the port side. Then disappeared after moving 9 miles astern of the aircraft. Second contact seen at 90 degrees to starboard. Object made a similar track before disappearing 8 miles astern. Second object joined first when first target passed 0 degrees relative. Third target repeated similar track to first two but disappeared at 30 miles astern. Fourth contact repeated the same trajectory. As it passed in front of the aircraft, another contact appeared and traveled towards 270 before disappearing. The fourth contact disappeared at a distance of 10 miles. Fifth contact appeared as two contacts in front of aircraft. The separated and moved in CW and CCW directions around aircraft.
3	3/9/51	About 15 miles ESE of Tsushima Island	0525I and 0530I (2025 and 2030Z). PBM mariner (no radar type listed but probably APS-15). Target observed at 320 true distance 15-17 miles. Disappeared at 75 degrees true, distance 45 miles. Calculated speed 3350 mph. Second target seen for 10 seconds at 0530I 085 degree true 25-30 miles. Same course. Antenna tilt +3 degrees.
4	3/21/51	About 100 miles SE of Vladivostok	PB4Y2 with APS-15 radar set at 20 degrees tilt. First contact seen off starboard side of aircraft at 90mi. Track was from land towards center of scope. Not visible on 30-mile scale. Contact was lost. Shortly after, the same type of contact appeared and disappeared the same way. Both contacts were described as very fast. Third contact seen to the port at 90 miles moving in a semi-circular pattern. Object disappeared at distance of 10 mi. Objects would disappear when operator changed tilt of antenna to plus 15 degrees. Speed evaluated as 5000 mph
5	4/14/51	Yellow sea, about 50 miles east of Shaungdao, China	PB4Y2 with APS-15 radar. 0523Z: Target appeared at 100 degrees relative, distance 28 miles. Traveled to 110 relative and disappeared. Moved to 100 degrees relative 29 miles. Moved back to 110 relative 29.5 miles and disappeared. Target reappeared at 128 degrees relative 30 miles. Moved to 130 degrees relative 31 miles before disappearing. 0524Z: Reappeared at 128degrees relative 30 miles for 5 seconds and moved to 130 degrees relative 30 miles. 0525Z: Visible for 5 seconds at last position before moving to 170 relative distance 31 miles in 20 seconds (3755mph). Object then disappeared. Antenna tilt was +4 degrees.
6	Apr-May 51	About 80 miles ESE of Wonsan, North Korea	USS Philippine Sea (CV-47) and USS Princeton (CV-37) using SX radar. Object always appeared at 180 degrees true at an approximate range of 20 miles. Speed described as faster than a jet (estimated 1200mph). As object approached center of scope it would disappear and then reappear again at the 180-degree 20-mile location. On one occasion, both ships tracked the same target at the same location. No indication of object seen visually.

7	8/21/51	About 130 miles SE of Vladivostok	P2V aircraft with APS-20 radar. Target appeared on radar astern of aircraft. Aircraft attempted sharp turn several times but object continued to be astern or to the beam of the aircraft. Distance was 3-7 miles. No visual observations. The duration of this dance was 45 minutes. Aircraft left area and target was no longer visible on radar.
8	9/9/51	About 65 miles ESE of Wonsan, North Korea	USS Cony (DDE-520). Object tracked by SPS-6B on course 225 true speed 900 knots. 7 miles wide in range. Additional bogies along line of bearing perpendicular to target course. Target saturated but lacked clearly defined outline. DDE was part of TF 77 and no other ships reported contact. Plot lists time as 1650-L. Seen at bearing to ESE and moving towards SE.
9	10/7/51	Nigata, Japan	CPS-5 radar at Air base. First seen at 137 15 E and 37 37N. Last seen at 136 32E 37 25 N. Estimated speed by radar was 1200 mph at one point but overall distance only gives average speed of 420 mph. First return gave target larger than a B-29. Subsequent returns were smaller. F-94 in area made a check but found no target.
10	2/2/52	Tsushima island	CPS-5B at site 7B. 1030-1037 L. Target traveling NNW at speed of 767 mph.
11	2/2/52	Tsushima island	CPS-5B at site 7B. 1040-1045 L. Radar target traveling N. Speeds listed as 1257 mph.
12	2/2/52	25 miles NW of Uellung Island	1935 L/1035 Z: USS Philippine Sea (CV-47) on course 180 true speed 13 knots. SPS6B (not picked up by SX radar) picked up target approaching from zero degrees at 25nm. At 20NM object went in an arc towards the east. Then reversed course to heading of 355. Speed increased from 600 to 900 to 1800 mph over 3 minutes. Appeared as two contacts 5-12 miles apart. Three exhaust flames sighted independently at bearing 0 to 60 true during the time radar target reversed course to 355. Operator estimated altitude at 52,000 feet.
13	2/16/52	Yongil peninsula, South Korea	1440 L/0540 Z: AN/CPS-5 detected target at 130 42 E 37 53 N Course 186. Faded and reappeared. Disappeared at 129 50 E 34 56 N. Speed 4320 Kts. No visual contact. Target had the appearance of an aircraft return.
14	2/16/52	Yongil peninsula, South Korea	1550 L/0650 Z: AN/CPS-5 detected target 129 17 E 36 51N. Course 170 degrees. Faded and then proceeded on course of 120 degree. Disappeared at 129 47 E 36 08 N. Speed 1380 Knots. A contrail was observed in the area of the radar target. Target had the appearance of a group of aircraft in formation.
15	4/18/52	Tsushima Island	A radar contact was observed going from SE to NNW at a speed of 2700 mph. Recorded by TPS-1B at site 21 on Tsushima island.

Analysis

I have to admit that these cases are interesting but the lack of visual sightings on many of them, makes me wonder if there are other reasons for these radar contacts. The lack of radiosonde data also makes it difficult to determine if some of these contacts are not due to atmospheric conditions. I looked for radiosonde data but the best I could get was from Fukuoka, which had limited information and was not close enough to any of the locations to shed any light on them.

Looking at many of the airborne sightings (cases 1-5), we see that the aircraft were using the APS-15 radar to track targets. The APS-15 was designed for bombing/navigation and not really for tracking airborne targets.⁴ The radar was set to point downward so targets would have been below the aircraft's altitude. I am sure that the APS-15 could track airborne targets but how reliable was the tracking? Could the speed measurements be accurate or could there be margin for error? Could that have been returns from the sea or other sources? What was the local weather like? Could ducting or pockets of cold air create some of these targets? There is a lot of information that is missing that can shed more light on the sightings.

Number	Date	Location	Analysis
1	1/26/51	About 80 miles east of Hupo-Ri, South Korea	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. The peculiar behavior of the contacts starting in the center of the scope and then moving away makes one consider the possibility that this is an anomaly of some kind.
2	2/15/51	About 80 miles ENE of Sokcho, South Korea	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. The nature of the targets being near the edge of the scope's range and then spiraling inward before disappearing makes one consider the possibility that this is an anomaly of some kind.

3	3/9/51	About 15 miles ESE of Tsushima Island	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. This targets were at long range for most of the sighting. Ground radars at Tsushima made no reports of seeing these targets.
4	3/21/51	About 100 miles SE of Vladivostok	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. It is possible what was experienced was observations of Soviet aircraft who were monitoring the "snooper" that was approaching their airspace. PB4Y2's were known to test soviet airspace in the late 1940s and early 1950s. The Soviets were familiar with this "dance" and would also attempt to interfere with the aircraft's mission both with actual aircraft or electronic interference. The speeds were excessive for soviet aircraft but this could be explained by anomalous conditions that could have existed in the area.
5	4/14/51	Yellow sea, about 50 miles east of Shaungdao, China	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. It is possible what was experienced was observations of Chinese aircraft who were monitoring the "snooper" that was approaching their airspace. They also may have employed electronic interference with the aircraft's radar. The speeds were excessive for Chinese aircraft but this could be explained by anomalous conditions that could have existed in the area.
6	Apr-May 51	About 80 miles ESE of Wonsan, North Korea	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. This case has no times or dates that were specific. The tracking of the target by two radars is interesting but the analyst suggested this may have been a case of jamming. It also may indicate that both radars were recording the same phenomena that produced the echo but that source may have been a case of weather producing the contact. The lack of a date or specific time makes it insufficient information.
7	8/21/51	About 130 miles SE of Vladivostok	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. This was a P2V with an APS-20 radar, which was designed for surface search but could detect aircraft. This target seemed to be confined to a specific area in the ocean, which implies the contact was some sort of weather phenomena that produced a false contact.
8	9/9/51	About 65 miles ESE of Wonsan, North Korea	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. The report states the target's edges were not as distinct as normal targets appear on the scope at that range. DDE was part of a task force and no other ship reported the target. This indicates the object was probably a false target.
9	10/7/51	Nigata, Japan	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. The target was moving westward and the F-94 reported no aerial targets but did report surface craft. The F-94 disappeared from scope when below 8,000 feet to investigate surface craft. No other radar in the vicinity reported tracking the target. This appears to be weather related and may have been due to ducting/temperature inversion.
10	2/2/52	Tsushima island	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. There is no indication that the TPS-1B at site 21 recorded this target as well. Both this sighting and case 11 were recorded within fifteen minutes of each other. It seems possible that this was an aircraft seen under conditions that gave an incorrect distance, which resulted in high speed calculation.
11	2/2/52	Tsushima island	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. There is no indication that the TPS-1B at site 21 recorded this target as well. Both this sighting and case 10 were recorded within fifteen minutes of each other. It seems possible that this was an aircraft seen under conditions that gave an incorrect distance, which resulted in high speed calculation.
12	2/2/52	25 miles NW of Uellung Island	The report is confusing as far as directions. Visual observations were given as "true" bearings. Radar bearings did not indicate true or relative. Visual observations implies course was 0-60 true but could be interpreted to mean that the three objects were spread out over that range. It appears visual targets were unrelated to radar target since the radar target had reversed course towards a bearing of 355 around the time the visual objects were seen to the north and northeast.

13	2/16/52	Yongil peninsula, South Korea	The lack of visual confirmation of the target brings into question if the target was an actual physical object. Both this sighting and case 14 were recorded within seventy minutes of each other. It seems possible that this was an aircraft seen under conditions that gave an incorrect distance, which resulted in high speed calculation.
14	2/16/52	Yongil peninsula, South Korea	The only indication that a target was seen was a contrail that may, or may not, have been related to the radar target. Both this sighting and case 13 were recorded within seventy minutes of each other. It seems possible that this was an aircraft seen under conditions that gave an incorrect distance, which resulted in high speed calculation.
15	4/18/52	Tsushima Island	The lack of visual confirmation of the target brings into question if the targets were an actual physical object. This is also case #1130 in the Blue Book files, which makes it a duplicate entry.

It is important to point out that the author of the report stated that the cases were unexplained due to the limited amount information provided. He also speculated that spoofing could result in the high speeds indicated.

I could reject all of these cases based on insufficient information because the reports seem to be missing important facts (like radiosonde data). In the table above, I listed my possibilities/concerns with each case but, to be honest, I am speculating based on the minimal data I had available. As a result, I have decided to leave thirteen of the fifteen cases as "unexplained". Two cases from this list will be removed. Case 15 is a duplicate entry that is already in the list of unknowns (Case 1130). Case 6, while interesting, does not have sufficient information for analysis because there was no specific date or time for the sightings. That means if we even had the necessary information, like radiosonde data, we could not use it.

Conclusion

In my opinion, there are thirteen cases that remain on the list of unknowns based on my analysis. The other two can be removed.

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. 142
3. "Air intelligence report IR-29-52 dtd 25 June 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9617029/illegible-blank-page-493-us-project-blue-book-ufo-investigations-1947-1969>
4. "Radar bulletin 2A: Tactical use of radar in aircraft - Part two: Radar systems". Navy Department. Available WWW: <https://www.ibiblio.org/hyperwar/USN/ref/RADTWOA/RADTWOA-2.html>

THE 701 CLUB PART 10: CASE 1390 JULY 5, 1952

NORMAN, OKLAHOMA

Don Berliner describes the case as follows:

July 5, 1952; Norman, Oklahoma. 7:58 p.m. Witness: Oklahoma State Patrolman Hamilton in State Patrol airplane. Three dark discs hovered and then flew away, silhouetted against a dark cloud. 15 seconds.¹

Sparks' entry:

July 5, 1952. SSE of Norman, Okla. 7:58 p.m. Oklahoma State Patrolman Hamilton in State Patrol airplane saw 3 dark discs [at 4,000 ft?] hover then fly away, silhouetted against a dark cloud. (Sparks; Berliner).²

The Blue Book file³

The Blue Book file contains an air intelligence report and a reporting document submitted by the witness. The details are:

- The witness was a pilot in an aircraft about 5 miles south and one mile east of Norman Oklahoma. His speed was 120 mph.
- Time and date was 5 July 1952 at 1958 CST.
- His heading was 345 true and altitude 4000 feet.
- Witness saw three dark edge-on disc shaped objects hovering 20 degrees to the left of his heading (325 true). Estimated distance was 4-8 miles and altitude was 6,000 feet.
- Witness reported the sun had set ten minutes prior to the sighting and he blinked his eyes/looked away to make sure what he was seeing was not an illusion.
- Witness reported the objects were silhouetted against a thunderhead but then states that the objects disappeared above the cumulus clouds.
- Witness picked up binoculars and attempt to focus in on objects but the objects diminished rapidly as if they moved away from his position. The objects then disappeared.
- Pilot checked with CAA for any aircraft activity in the area and received a no.
- Objects were visible 15 seconds.

Analysis

In SUNlite 16-6, I had mistakenly labeled this as insufficient information and then attempted to explain it as possible balloons. As the old southern idiom goes, "that dog won't hunt". I am not sure what I was thinking at the time but it may have had something to do with weather reports having surface winds from the SE.

The pilot was flying towards Will Rogers field, on the south side of Oklahoma City. While the pilot stated the duration was 15 seconds in length, he also stated he contacted an operator to talk to the CAA via radio for jet aircraft activity while he was observing them. That seems to be a lot longer than 15 seconds.

Perhaps the one item the pilot mentioned that may be important is that he noted the objects were silhouetted by a thunderhead. To me, a thunderhead in the distance is a large cumulonimbus cloud near the horizon. They are very active and can change shape over time. This was ten minutes after sunset, so the tops of the cloud would be illuminated but the lower sections would not be. Therefore, the section that silhouetted the objects would be the upper parts of the cloud. These are the most active and shape changing portions of a thunderstorm. It seems possible, that the pilot happened to see some dark sections of the cloud, or small dark clouds between the observer and the main cloud, that looked linear in shape and disappeared while he was observing them.

Conclusion

In my opinion this can be classified as possible clouds. It should be removed from the list of 701 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. 145
3. "Case file Norman, Oklahoma, 5 July 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/7475644/illegible-illegible-page-776-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 11: CASE 1485 JULY 18 , 1952

PATRICK AFB, FLORIDA

Don Berliner describes the case as follows:

July 18, 1952; Patrick AFB, Florida. 9:45 p.m. Witnesses: three USAF officers and four enlisted men. Over an hour period, a series of hovering and maneuvering red-orange lights were observed moving in a variety of directions.¹

Sparks' entry:

July 18, 1952. Patrick AFB, Florida. 9:45 [10:45 ?] p.m. (EST). 3 USAF officers and 4 enlisted men saw a series of hovering and maneuvering red-orange lights moving in a variety of directions. (Sparks; BB Status Report 8, Dec 1952, p. 26; Berliner; Saunders/FUFOR Index).²

The Blue Book file³

The Blue Book file contains a report submitted by Lt. Colonel Evans dated 24 July 1952. His report was not through personal observation but reports by others. The file also includes a sighting report from an individual in the adjutant general's office who also saw an object as his group was leaving the base. Important details are:

- There were multiple sightings that night between 2145 and 2230 EST.
- Four airmen saw the first object approach slowly from the south. It halted directly over the field and then reversed direction, without turning, to the south.
- The second object was seen flying from East to West at high speed.
- The third object was seen flying on the same course and speed a few seconds later.
- The fourth object was seen in the west at an elevation angle of 30 degrees. It proceeded west, made a 180 degree turn over the field, and then returned to its original position. This lasted ten seconds.
- All of the objects were described as the appearance of a great star of amber color.
- No radar contact was made with any of the base's radar.
- Lt. Colonel Evans then went on to discuss a sighting he had on the 21st.
- The second witness reported seeing an object, 3-4 times the size of a bright star, on the 18th at 2130 that was to the south of the base. The object was not distinct but looked like it was seen through frosted glass. It was slightly orange or reddish in color. The light blinked but not regularly. The object appeared to be 2 miles SSW of the base at an altitude of 5-6,000 feet. This object appeared to move NNE for 2-3 minutes. When the observers left the base, the object was in the west and faded from view as they drove south. Duration appeared to be at least 15 minutes before they left the base.

Analysis

These objects seem to have an astronomical explanation. The second and third observations can be explained as meteors. This leaves the first and fourth objects. The following celestial objects were visible that evening.

Object	Magnitude	2130 azimuth	2130 elevation	2200 azimuth	2200 elevation	2230 azimuth	2230 elevation
Antares	1.05	187	35	196	33	203	31
Arcturus	0.15	265	52	269	46	273	39
Saturn	0.86	255	22	260	15	263	9
Mars	-1.52	223	33	230	28	235	23

Observers reported the first object being to the south. They were maintenance personnel on the airstrip. If they were using the south end of the air strip as a compass point, they would have been looking to the SSW at around azimuth 200 degrees. A prime candidate for this object would be Antares. However, Antares was being overpowered by a more brilliant orange/amber/red object. The planet Mars was quite prominent in the SW. The apparent motion towards and away from the observers has been noted in the past. Clouds or atmospheric turbulence can cause a star to brighten and dim, which can be interpreted as an object approaching or receding away from the observer. The second witness probably saw Mars as well. Mars, being brighter than any of the brightest stars would have been a magnet to casual observers.

The fourth object is similar in nature to Mars. It was probably the star Arcturus. Next to Mars, it was the next brightest object in that area of the sky. Arcturus is one of those bright stars that usually appear as UFOs because of their brightness and how they tend to scintillate when atmospheric conditions are not steady. Once again, the reporting officer states individuals thought the object

came and hovered over the base before receding back to its original position. However, in the report he confuses directions. He states it was going west and then made a 180 degree turn over the field. That is not possible since a westerly direction would be away from the field.

It is also not clear what the author means when the object was seen over the field. Does this mean it increased elevation angle to the zenith for the observers, or did the observers feel it was directly approaching them at a constant elevation angle and stopped at a point where they thought it was now over the field? The lack of individual reports and poor reporting by Lt. Colonel Evans makes it difficult to say. Evans appeared to be giving a second hand report based on verbal information and not written statements. These kinds of reports can be prone to error. The only statement he did attach to his report was from the second witness, who reported something different than the four sightings in the main body of the report.

Conclusion

In my opinion this can be classified as possibly two meteors, Mars, and Arcturus. It should be removed from the list of 701 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. 151
3. "Case file Patrick AFB, Florida 18 July 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8580556/patrick-afb-fla-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 12: CASE 1572 JULY 23 , 1952 TRENTON, NEW JERSEY

Don Berliner does not list this case.¹

Sparks' entry:

July 22-23, 1952. Trenton, New Jersey. 10:50 p.m. - 12:45, 1:28-3:47 a.m. Crews of several USAF F-94 jet interceptors from Dover AFB, Del., made 13 visual sightings and one radar tracking of blue-white [orange?] lights. White, green and blue lights were seen by ground observers and F-94 pilots moving in arcs and blinking out suddenly. F-94 crew got radar lockon at 30,000 ft away of object the size of an F-94, at 9,000 ft away the object made a sharp right turn, suddenly dropped in height and disappeared. Other sightings in the Dover-Trenton area.(Sparks; Berliner; Loren Gross).²

The Blue Book file³

The Blue Book file contains a two page telex. Important details are:

- From 0350 to 0545Z, two F-94s airborne over the Trenton-Dover region reported seeing 14 different UFOs , with one being a radar sighting
- The reporting pilot, who was at 25,000 feet, reported seeing rapidly moving bluish-white lights. There were no estimates of altitude or speed.
- A witness in Princeton, New Jersey reported seeing two orange objects, at very high altitude, that made a whistling sound. Time is listed as 0351Z.
- A witness in Trenton, New Jersey reported seeing several objects at AL 1513 (this appears to be something garbled), that were very high with bright lights. They made a whistling sound and headed SW.
- Another witness in Trenton, reported seeing objects flying back and forth at 0510Z.

Analysis

Sparks description of the radar lock-on is not in the file for this case. After some investigation, I think I discovered his source. It appears to come from Boston-Provincetown sighting, which also involved F-94s, on the same night.⁴ That "lock-on" happened about 25 miles SSE of Boston and has the same distances (except they use yards) and the break of the lock-on. It even mentions the target being the size of an F-94. Since he provides no information about where he obtained this information, I have to assume he thought it was the F-94 involved in the Trenton sightings, which it was not.

This means the only data that is available, is the data I listed as being from the Telex message. There is not a lot of information there and one could not hope to arrive at any conclusions with such meager data. The reported lights could have been meteors and stars/

planets but that would be speculating too much. The bottom line is this case does not have sufficient information for analysis.

I want to note I counted this as "one unidentified" in my counts. I guess I should count it as 16+ but the file does not give a firm number of sightings. The F-94s saw 14 and the ground witnesses saw an indistinct number. One saw two and the others just were reported as seeing "several" and "objects (plural)". Because of the lack of a defined number of observations, I am going to list the entire case as one "insufficient information".

Conclusion

In my opinion, there is not enough information in the file (even if you include Sparks description), for analysis. It should be labeled as "Insufficient information" and removed from the list of 701 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. 156
3. "Case file Trenton, New Jersey 23 July 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8581254/illegible-blank-page-846-us-project-blue-book-ufo-investigations-1947-1969>
4. "Case file Boston-Provincetown 23 July 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8581184/illegible-blank-page-776-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 13: CASE 1986 AUGUST 26, 1952 LATHROP WELLS, NEVADA

Don Berliner describes the case as follows:

*Aug. 26, 1952; Lathrop Wells, Nevada. 12:10 a.m. Witness: USAF Capt. D.A. Woods. One large, round, very bright object with a V-shaped contrail having a dark cone in the center, flew very fast, hovered, made an instantaneous 90 turn, followed by a gentle climb and finally sudden acceleration.*¹

Sparks' entry:

*Aug. 26, 1952. Lathrop Wells, Nevada. 12:10 a.m. USAF Capt. D. A. Woods saw a large spherical very bright object with a V-shaped contrail, a dark cone in the center, approach at 1,000 mph, hover briefly, make an instant 90°-180° turn, then a gentle climb and final sudden acceleration leaving blue-white contrail which evaporated immediately. No sound. (Sparks; Berliner; cf. Hynek- CUFOS re-eval; Jan Aldrich).*²

The Blue Book file³

The Blue Book file contains an air intelligence report (IR-44-52), which directly quotes the only witness. The details are:

- Object was seen at 0010 PST on 26 August 1952
- Witness was in a vehicle driving towards the ESE and wore night driving glasses to reduce glare.
- Object was seen as a spherical object moving at in excess of 1,000 mph coming from the SE. It increased in brightness as it approached the witness.
- Estimated altitude was 3,000 to 8,000 feet.

- At the closest point of observation, the object halted momentarily, and then conducted a turn between 90 and 120 degrees. It then executed a gentle climb and accelerated before vanishing to the NE.
- A bluish-white vapor trail was left behind that was in a V-shape. The center of the "V" had a dark cone. The duration of the trail was not stated but it was indicated that it was only briefly visible.
- Object was visible 3-5 seconds.
- There was no noise.
- The weather was clear.

Analysis

There is only one type of man-made/natural object that could match the description. That being a bright meteor fireball. When I saw this report, it was my first thought. The only reason I did not originally classify it such was because of the description by the witness where they stated it conducted a 90-120 degree turn and momentarily hesitated. However, I began to look at the witnesses sketch and questioned his interpretation of this observation.

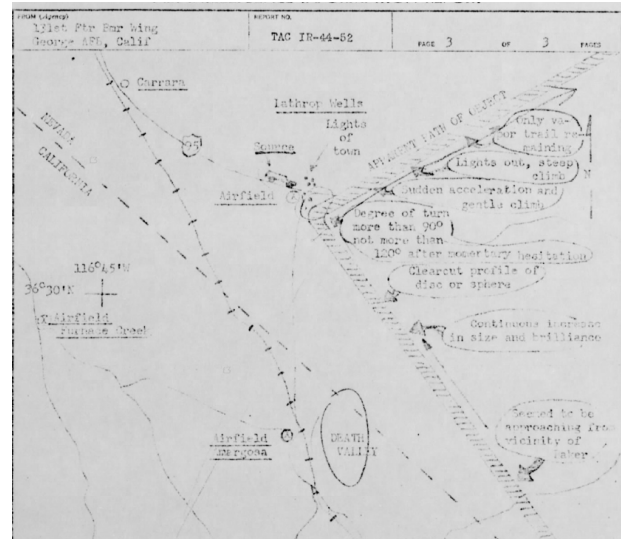
The witness saw the object nearly head-on and such a sharp turn could have been implied. As the meteor passed in front of his vehicle, the object might have appeared to make a turn but, in reality it could have been perceived turn. This "turn" was away from the observer. The witness saw the object through a windshield, which is curved, and he was also using special eyeglasses for driving at night introducing another optical path that could distort his perception of the path of the object. This followed by seeing the "V"-shaped ion trail could have given him the impression there was a sharp turn. My experience over the years is that only meteors covering great angular distances appeared to me as curved. Even then, when those meteors were plotted out, the path was actually straight.

Still, there is a history of curved/kinked meteors recorded in the past but nothing has been reliably recorded.⁴ I have yet to see a photograph, or video, that showed a curved meteor that was not curved due to optics.

As for irregular meteor ion trains, I have seen many that were initially a straight line but rapidly twisted and fragmented as upper level winds changed their shape. This video shows a bright fireball producing a curious ion trail behind.⁵ So, the "V"-shaped vapor trail is not surprising.

Lastly, the witness stated the object "halted" momentarily. Again, this could have been a perceived event. The duration was only 3-5 seconds. Any "hesitation" could only have been a fraction of a second and may not have happened at all except in the perception of the observer.

Other than the report that the object made an almost right-angle turn away from the observer, this has all the characteristics of a bright meteor.



Conclusion

In my opinion this can be classified as a possible meteor. It should be removed from the list of 701 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. 169
3. "Case file Lathrop Wells, Nevada 26 August 1952". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8771424/lathrop-wells-nev-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. "Meteors with curved paths". Meteorobs. Available WWW: <https://www.meteorobs.org/curved-meteors/>
5. Manley, Scott. "Mysterious Cloud Trail Over California Was A Meteor Trail". Youtube. Available WWW: <https://www.youtube.com/watch?v=oiNPYwtUYMo>

THE 701 CLUB PART 14: CASE 3326 NOVEMBER 15, 1954 AUGUSTA, MAINE

Don Berliner describes the case as follows:

Nov. 15, 1954; Augusta, Maine. 44 p.m. Witness: N. Gallant, manager of radio station WFAV. Ten gold, circular objects flew in vertical V-formation, straight and level for 3 minutes.¹

Sparks' entry:

Nov. 15, 1954. Augusta, Maine. 4 p.m. N. Gallant, manager of radio station WFAV, saw 10 gold, circular objects fly in vertical V-formation, straight and level. (Sparks; Berliner).²

The Blue Book file³

The Blue Book file contains a teletype printout and nothing else. There was no apparent investigation. The details are:

- The time was 4:00 PM EST (2100Z) on the 15th of November.
- Witness was walking across the street and saw ten gold colored objects in a "V" formation flying in a straight line towards the NNE.
- Duration was 3 minutes.
- The angles of elevation and azimuth for begin and end points was listed as "90 degrees". That indicated the objects were essentially stationary with either a 90 degree elevation (overhead) or a 90 degree azimuth (due east).
- The weather was described as clear with surface winds from the SSW at 4 knots.

Analysis

The angles of elevation and azimuth should be ignored since it makes no sense. The message says the objects were on a NNE course in a straight path and one has to assume the objects were first seen at some point in the sky and seen to be flying towards the NNE. There is no speed estimate but, by the time estimate, one has to assume it was the kind of angular speed one would expect from an aircraft at altitude.

Once again, the "V" formation is the indicator of what the source could have been. A flock of birds in "V" formation is not unusual. The only real problem is that it was November and not the spring. However, looking at the map, we see that the formation was following the Kennebec river, which has many lakes and ponds adjacent to it. Most of the birds in this part of Maine in November are water fowl. Ducks and geese are common.⁴

Sunset was around 4:12 PM EST, so the "gold" color was probably the birds reflecting the setting sun.

Conclusion

In my opinion, this case should be reclassified as possible birds and it should be removed from the list of 701 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. 221
3. "Case file August, Maine 15 November 1954". Fold 3 web site. Available WWW: <https://www.fold3.com/image/6959896/augusta-maine-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
4. Well, Jeffrey and Allison Wells. "Duck'-ing Maine's winter". Natural resources council of Maine. Available WWW: <https://www.nrcm.org/blog/birding-jeff-allison/ducking-maine-winter/>

THE 701 CLUB PART 15: CASE 6316 MARCH 25, 1959

MONTANA

Don Berliner does not have this case on his list because it was not originally listed as "Unknown" by Blue Book. I had reclassified it as "Unknown" during my original review.

Sparks does list it because he added cases to his list from the Blue Book files that he felt should be placed in the "Unknown" category. His entry reads:

March 25, 1959. S Saskatchewan-N Montana. 7:36 p.m. (MST). ELINT Radar-Visual with F-89 intercept of radaremitting UFO tailing B-52. B-52, call sign "Outcome 15," from 92nd Bomb Wing, Fairchild AFB, Wash., was on a SAC Emergency War Order exercise, Operation HEAD START II, for continuous airborne alert carrying fullyarmed thermonuclear bombs, initially flown into Canada. At 7:36 p.m. at about 52°N, 118°W (near Swift Current, Sask.) while B-52 headed 180° Mag (SSW True) at 32,000 ft traveling 375 knots (432 mph) tail gunner Tech Sgt Joe Cobb sighted an object leaving a strange, non-persistent and intermittent contrail at 2 o'clock position (to the W) and headed N. At 7:41 p.m., Cobb detected a target trailing the B-52 at 8,000 yds (about 5 miles) range on his MB-9 airborne radar. B-52 Electronic Warfare Officer 1st Lt. Robert J. Millard detected on APS-54 Radar Warning Receiver an X-band radar emission at 9135 MHz from unidentified object tailing the B-52, then also detected same signal on APR-9 ELINT Radar Receiver, for 20 mins; sweep rate 1 per second, radio frequency oscillating around 9135 MHz. Shortly after, the B-52 radar officer Capt. Feirran detected UFO on MB-9 airborne radar showing it trailing behind at a range of about 11,000 to 15,000 yds (about 6-8 miles). B-52 pilot Capt John W. Jackson radioed 1/Lt Ronald S. Murray, Senior Director on duty, ADC GCI radar site (47°31'N, 111°10'W) 801st AC&W Sq, Malmstrom AFB, Great Falls, Mont., that UFO had entered Air Defense Identification Zone by following B-52 into U.S. territory and ADC scrambled F-89J fighter interceptor call sign Board Pipe 27, pilot 1/Lt Austin E. Bond, Radar Observer 1/Lt Charles C. Abernathy, 29th FIS Sq, Malmstrom AFB, Mont. UFO had red and green bright flashing lights about 30-40 ft apart with a steady white light in between and somewhat to the rear, thus suggesting delta or swept-wing aircraft about the size of a B-57 bomber (~100 ft), described as "relatively high performance," speed in excess of Mach 0.8 (530 mph), altitude above 53,000 ft, with a "considerable acceleration capability." UFO lost by F-89J at 8:42 p.m. when it climbed beyond reach of pursuing F-89J at 49°50'N [50°20'N?], 113°00'W. B-52 EWO Lt. Millard had regained UFO radar signal at 8:36 p.m. for 5 mins but at 9130 MHz; noted pulse repetition frequency (PRF) of 2,500 Hz [indicative of radar set to range of 37 mi]. (Sparks; BB files; McDonald list).¹

The Blue Book file³

The Blue Book file contains a lot of information. I broke down the details into a time line:

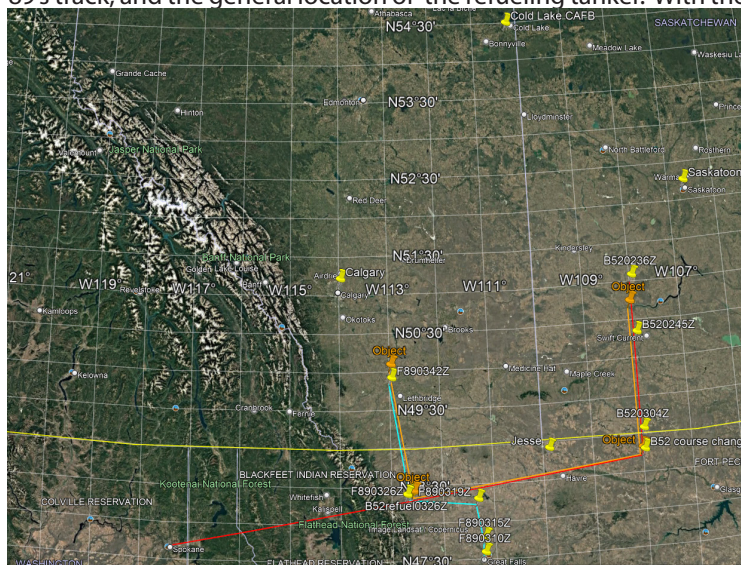
- Date was 26 March
- 0236Z, B-52 (OUTCOME 15) located at 51.0N 108.0W. Sighted contrails in the west going north.
- 0241Z Tail gunner made first contact with target on his MB-9 (Actually MD-9) scope.
- 0245Z Outcome 15 radioed GCI reporting the target following them. As the aircraft passed swift current radio (50.5 N 108.0 W) they asked them if they had any fighters in the area. Swift current stated they had a fighter to the east.
- 0258Z, the B-52 (OUTCOME 15) was approaching the northern air defense zone and stated to the Ground Control Intercept (GCI) controller (CANADIAN CLUB), at Malmstrom AFB, MT, that they had been followed by an object for 15 minutes and it was traveling at 410 knots and 32,000 feet. It was trailing the aircraft between 11,000 and 15,000 yards.
- 0304Z, the B-52 reported they had crossed into the northern defense zone and the object was still following them.
- 0305Z The GCI could not locate the object on radar. The ordered a scramble of a F-89J (BOARDPIPE 27) to 32,000 feet at a bearing of 360 degrees.
- 0306Z The EWO detected the object with an AN/APS-54 and AN/APR-9. The object was operating at a frequency of 9135 MHZ. This never locked onto the B-52 but kept sweeping at a rate of 1 CPS. The frequency oscillated but maintained 9135 MHZ. The EWO monitored the frequency for 20 minutes. Near Havre, Montana (48.5 N 110 W), Outcome 15 changed course from south to west. They increased speed from 375 to 420 knots and descended from 32,000 to 31,000 feet. They were on course to refuel with a tanker near Cutbank, Montana. The tail gunner noted the object fell back to 15,000 yards before pulling up to about 8,000 yards.
- 0310Z BOARDPIPE 27 was airborne
- 0311Z CANADIAN CLUB requested a check for aircraft from an FPS-8 radar near the Canadian border to see if they could detect any aircraft. They reported they had negative contacts.
- 0315Z BOARDPIPE 27 was at 30,000 feet and 0.78 mach at 360 degrees. GCI redirected them to a bearing of 350 degrees.
- 0319Z BOARDPIPE 27 made radar contact with the B-52 and refueling tanker at 55 miles. They had accelerated to Mach 0.84.
- 0324Z The B-52 states that the F89J and the object were merging on their radar.
- 0326Z BOARDPIPE 27 reported visual contact. The object was 40 degrees relative bearing and a distance of 20 miles. Red and

- In order to avoid overrunning the object, the pilot of BOARDPIPE 27 slowed down. At this point the aircraft was traveling at mach 0.75 and altitude of 43,000 feet with a heading of 310 degrees.
- 0328Z BOARDPIPE 27 estimated it had closed within 4 miles of the object. The object changed heading from 270 to 350 degrees, increased speed and began to climb.
- 0329Z The radar observer observed a white pink glow and assumed it was the afterburner of the aircraft.
- 0330Z BOARDPIPE 27 reports the object is now 30 miles distant at a bearing of 350 degrees and elevation of 5 degrees.
- 0332Z BOARDPIPE 27 gave chase at max speed of between .75 and .84 mach at 43,500 feet. The object steadily pulled away.
- 0336Z The EWO regains contact with the target again and measures the frequency at 9130 MHZ and a PRF of 2500 HZ.
- 0342Z BOARDPIPE 27 was at 49deg 50min N and 113.0 degrees west. It was told to break off contact by GCI as the object then disappeared from sight at a distance of 20 miles.
- 0352Z BOARDPIPE 27 overheard message traffic from Calgary radio "Calgary XXXX advises XXXXX (numbers) to change to channel XXXX."
- 0402Z BOARDPIPE 27 overheard the following message transmitted in the blind "Calgary radio and all facilities going off air until further notice".
- 0417Z BOARDPIPE 27 landed having visually seen the object but made no radar contact with it.

1. The object had all the characteristics of an aircraft in speed and maneuverability.
2. The observed radar tracks could have been produced by an aircraft and were not false targets
3. Some comments made about the aircraft having radar invisibility modifications cannot be shown to be true and the contact was probably just a normal aircraft.

Analysis

It is best to look at the case time line to see what happened first. Between the two investigation reports, one can get a reasonable picture of the B-52's track, the F-89's track, and the general location of the refueling tanker. With the B-52 track, one can also roughly



produce the track of the "object" that was following it. .

One has to look at the Blue Book conclusion that it was an aircraft of some kind. If it were an aircraft, it was not from the United States. The most likely, and only source, is the Canadian Air Force. The B-52 was returning from an exercise over Canadian air space. Either the Canadians were aware of this exercise or they were not. In any case, they could have had sent an interceptor to monitor the B-52. In 1959, the Canadians operated only two interceptors. The infamous F86 sabre jet and the CF-100 Canuck. Cold lake AFB had an all-weather training unit that flew the CF-100. I could not find any bases in the region that flew the F-86. Therefore, we must concentrate on the CF-100 as the likely suspect.

- The track would have been about 1000-1500 miles in length if the plane left and returned to Cold Lake AFB. The CF-100 had the range of about 2000 miles.³
- The CF-100, at 40,000 feet, had a top speed of around 480 knots.⁷ This is slightly faster than the F-89, which was rated at having a top speed of 472 knots at this altitude.⁶ Both aircraft were very similar in design, which is why they were similar in performance. It appears the CF-100 would maintain its distance from the F-89 in pursuit, especially at higher altitudes for the Mark V.
- The CF-100 Mark V was capable of reaching altitudes of 54,000 feet.⁴
- The CF-100 operated either the AN/APG-33 or AN/APG-40 radar.³ While I could not find the frequency of the AN/APG-40 (which was also used by the F-89), I did find the frequency of the AN/APG-33 as 9245 MHZ⁵, which is pretty close to the frequency of 9130 MHZ described in the report.
- The CF-100 was a large aircraft with a wingspan of 57 feet.³ The F-89 reported an object with red and green running lights an estimated 30-40 feet apart.

These values indicate it is possible the CF-100 could have been the culprit. It is hard to say but the communication from Calgary overheard by the F-89J could have been directed at the aircrew of this potential interceptor. In any case, there is nothing in the report that indicates a high performance aircraft, of some type, could not have been the object sighted.

Conclusion

In my opinion this can be classified as a possible aircraft. It should be removed from the list of Blue Book unknowns.

Notes and references

1. 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. 272
2. "Case file Northern Montana 25 March 1959". Fold 3 web site. Available WWW: <https://www.fold3.com/image/9079675/north-ern-montana-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>
3. "CF-100 Canuck". Air Force Museum of Alberta. Available WWW: <https://www.rcaf.museum/history/rcaf-aircraft/cf-100>
4. "AVRO Canada CF-100 Canuck". Virtual aircraft museum. Available WWW: https://www.aviastar.org/air/canada/canada_canuck.php
5. "AN/Airborne radar equipment". Radio Nerds.com. Available WWW: https://radionerds.com/images/6/6d/AIR_RAD_HTM.txt
6. "Standard Aircraft Characteristics F-89J". Secretary of the Air Force. October 1, 1958. P. 5
7. "Aircraft operating instructions CF100 Mk4 EO-5-25E-1". Royal Canadian Air Force. June 21, 1963. P. 97

THE 701 CLUB PART 16: CASE 6563 OCTOBER 19, 1959

PLAINVILLE, KANSAS

Don Berliner describes the case as follows:

Oct. 19. 1959; Plainville! (SIC) Kansas. 9:25 p.m. Witness: Capt. F.A. Henney, engineering instructor at USAF Academy, flying a T-33 jet trainer. One bright yellowish light came head-on at the T-33, the pilot avoided it and the light dimmed. Sighting lasted 30 seconds.¹

Sparks' entry:

Oct. 19. 1959. Plainville, Kansas. 9:25 [10:25? EST] p.m. Capt. F. A. Henney, engineering instructor at USAF Academy, flying a T-33 jet trainer, saw a bright yellowish light on collision course with the T-33, the pilot avoided it and the light dimmed. (Sparks; Berliner; Project 1947).²

The Blue Book file³

The Blue Book file contains the teletype report, a message form requesting additional information, a teletype response, and a UFO analysis sheet. Important details are:

- The date and time was October 20, 1959 at 0325Z (9:25 PM CST).
- Two pilots were involved in flying a T-33 trainer at an elevation of 40,000 feet and course of 220 degrees. Aircraft speed was 350 knots.
- A waning moon was in the east and behind the aircraft.
- Pilot saw a yellowish-white object, the size of the pea, at a relative bearing of 355 degrees and just below the aircraft's horizon. It increased in size as it approached and forced the pilot to take evasive action. This consisted of a rapid right turn. Object was on a course of 085 degrees and faded out after 20 seconds. The aircraft then resumed its course.
- The same, or second object, was then seen one minute later at a relative bearing of 345 degrees with a heading of 180. It disappeared over the horizon after 30 seconds.
- The pilots felt that the duration of the sighting may have been shorter than their estimates.
- The individual filling out the analysis sheet thought it could be a meteor or another aircraft. The even considered it was possible that it was a ground light that gave the illusion of rapid motion because of the aircraft's speed.

Analysis

It seems plausible that what was seen were two bright meteors. There was no meteor radiant in the direction the pilot was flying, so they were sporadic meteors unrelated to each other. They just happened to appear within a minute of each other. While this may seem rare, I don't consider it that unusual. I have seen sporadic meteors that appeared to come from one point in the sky during an evening. Seeing them a few minutes apart is not unusual.

Conclusion

This case can be classified as possible meteors and should be removed from the list of 701 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. 281
3. "Case file Plainville, Kansas 19 October 1959". Fold 3 web site. Available WWW: <https://www.fold3.com/image/6962677/over-plainville-kansas-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>

THE 701 CLUB PART 17: CASE 9183 NOVEMBER 19, 1964

PACIFIC

Don Berliner describes the case as follows:

Nov. 19, 1964; 1,400 miles east of Tokyo, Japan (34° 55' N., 164° 05' E.). Witnesses: unidentified military persons. One bright white flashing light was traveling from horizon to horizon in 20 seconds.¹

Sparks' entry:

Nov. 19, 1964. 34°55' N 164°05' E (Pacific, about 1,400 miles E of Tokyo). 12:00 a.m. (1100Z). US Coast Guard ship Matagorda personnel saw a bright white flashing light traveling from horizon to horizon in level flight about 15° elevation above horizon traveling at estimated 10,000 mph on course 20° True. (Sparks; Basterfield; BB files; Berliner).²

The Blue Book file³

The Blue Book file contains a one page teletype. Important details are:

- Time was 1100Z (Time zone +11) or 2200 local time on the 19th of November.
- The location of the observer was in the Pacific at 34°55' N 164°05' E about 1100 miles north of Wake Island.
- A bright flashing light was seen at a low position angle (15 degrees) on a course of 020 true with an estimated speed of 10,000 mph.
- The object was determined to be going from horizon to horizon in 20 seconds but it was only visible for 10 seconds.
- The weather was clear.

Analysis

The most likely source for this report is a meteor. Probably the only reason to question the explanation is the duration and the report it was "flashing". I have addressed the duration issue before. Meteors can last that long and witnesses can often overestimate the duration of the sighting. The report is somewhat confusing about the duration anyway. One part of the message states it was visible for 10 seconds. The other states it would have gone "from horizon to horizon" in 20 seconds. The information in the report is lean about what that means. It could be interpreted to mean that the witnesses only saw the object go from a point at 15 degrees elevation somewhere in the east or west to bearing 020 in about 10 seconds. The author of the message then concluded that if it had gone from the southern horizon to 020 (horizon to horizon), it would have taken 20 seconds. As for the flashing light, fluctuating brightness of bright meteors is not that unusual. That could be interpreted to mean it was a "flashing light".

The date of November 19th is very close to the traditional Leonid maximum around the 17th. This was only two years prior to the Leonid meteor storm of 1966. I saw the Leonid storm in 2001 and it was very spectacular. There were actually three storms between 1999-2001. I also saw the Leonid shower in 1996 from Florida. On that date, there was no storm but we were treated to a spectacular fireball display. I remember writing in the club newsletter that the lion had not roared but it did clear its throat that night. This information indicates to me that a few years before the Leonid storms, meteor activity with bright fireballs are expected. At 1100z for the location given, the Leonid radiant had not risen yet. We do not have data about where the meteor appeared so we cannot draw the conclusion that what was seen was a Leonid. I only mentioned Leonid activity as a potential source of this meteor.

Conclusion

This case can be classified as possible meteor and should be removed from the list of 701 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. 302
3. "Case file Pacific 19 November 1964". Fold 3 web site. Available WWW: <https://www.fold3.com/image/8721942/3455n-16405e-pacific-blank-page-1-us-project-blue-book-ufo-investigations-1947-1969>

BLUE BOOK RAW DATA CLASSIFICATIONS SUMMARY

This is the breakdown of Blue Book cases from the Blue Book files. This is the classifications Blue Book assigned and not my revised classifications. It is important to note that the number of case files was 12274. The number of sightings classified was 13032.

Year	Insufficient information/conflicting data	Unidentified	Venus	Stars/ Planets/ comets	Aircraft	Balloon	Meteors	Birds/ insects	Satellites	Rockets/ missiles	Hoax/unreliable/psychological/Hallucination	Clouds/ contrails	Radar malfunction/false targets/ weather returns	Ground search ship lights	Satellite decay	Physical specimen
1947	22	9	0	1	7	16	15	4	0	1	9	2	1	0	0	1
1948	20	7	9	5	17	25	54	7	0	1	4	1	3	1	0	1
1949	22	13	4	16	74	31	70	13	0	1	9	9	0	4	0	4
1950	26	27	9	10	37	24	41	1	0	1	4	7	8	1	0	1
1951	37	22	4	5	22	22	24	3	0	0	9	5	6	2	0	0
1952	232	215	7	40	176	250	154	12	0	4	14	8	21	12	0	1
1953	79	45	55	42	75	77	68	5	0	2	13	6	16	9	0	2
1954	104	46	5	45	78	65	89	8	0	1	7	3	6	8	0	4
1955	93	20	5	45	117	85	74	2	0	1	19	1	4	13	0	3
1956	122	11	43	89	139	89	87	7	0	3	14	1	8	10	0	3
1957	196	14	105	44	218	118	178	1	8	1	34	9	28	12	0	3
1958	117	10	11	45	97	58	173	1	18	6	23	9	2	7	1	9
1959	69	12	16	23	62	30	98	0	0	14	11	3	6	6	0	5
1960	108	13	9	32	65	22	188	3	23	13	11	4	2	6	8	8
1961	118	13	36	42	74	37	119	3	70	12	12	6	4	2	3	3
1962	95	16	16	22	68	20	95	2	78	8	10	3	0	3	2	18
1963	62	14	1	22	75	27	60	2	83	12	13	4	1	3	3	5
1964	106	19	25	33	70	20	60	8	142	6	26	1	4	8	3	8
1965	122	16	60	156	265	42	131	15	200	10	33	4	7	11	7	4
1966	304	32	35	129	274	38	89	9	112	7	19	7	3	17	3	0
1967	328	18	67	57	221	83	36	8	70	8	34	5	4	8	6	5
1968	164	3	4	24	47	39	11	1	26	2	38	0	2	4	6	2
1969	29	1	9	17	27	22	13	0	6	3	8	0	0	1	3	0
Total	2575	596	535	944	2305	1240	1927	115	836	117	374	98	136	148	45	90
%	19.76	4.57	4.11	7.24	17.69	9.52	14.79	0.88	6.42	0.90	2.87	0.75	1.04	1.14	0.35	0.69

Year	Photo flaw/ lens flare/ reflec- tions	Flares/ fire- works	Moon moon reflection	Aurora	Reflec- tion/Sun/ Parahelia	Wind borne/ falling objects	Mirage	Equip- ment Malfunc- tion	Anti-Air- craft/ Gun fire/ explo- sions	No clas- sification given	Ground /sea object	Reflec- tion in window	Swamp gas/ Ground fires	Aerial strobe/ Flash	Weath- er	Other	Total
1947	1	3	0	4	3	1	2	0	0	5	0	0	0	0	1	0	108
1948	0	6	0	0	5	1	2	0	0	2	0	0	0	0	1	0	172
1949	1	4	2	1	1	8	1	1	1	70	0	0	0	0	0	1	361
1950	3	1	1	0	6	1	0	0	0	1	0	0	0	0	1	1	212
1951	0	1	0	1	0	1	0	0	1	1	0	0	0	0	2	0	168
1952	3	2	0	0	11	5	0	0	4	102	0	0	0	0	3	2	1278
1953	1	1	2	0	5	1	2	0	0	0	0	0	0	1	0	0	507
1954	0	2	0	0	8	3	1	0	2	2	3	0	1	0	1	1	493
1955	1	6	2	0	4	1	1	0	2	0	3	0	0	0	0	3	505
1956	4	4	2	0	4	1	0	0	1	0	0	0	0	1	1	0	644
1957	2	8	6	8	1	8	4	0	1	0	0	0	0	0	1	2	1010
1958	7	3	2	2	8	7	2	0	3	1	2	0	1	0	2	2	629
1959	4	3	1	1	13	1	1	0	0	42	2	1	0	2	5	2	433
1960	5	7	1	1	12	5	2	0	1	0	0	0	0	0	10	1	560
1961	2	6	3	1	6	4	3	0	1	0	0	0	0	0	5	0	585
1962	1	2	3	1	4	2	3	0	1	0	0	0	0	0	0	2	475
1963	2	3	1	1	3	3	0	0	0	0	1	0	0	0	1	3	405
1964	5	6	5	0	3	2	0	0	1	1	1	0	1	0	2	6	572
1965	14	5	5	0	7	3	3	0	1	104	0	1	0	0	3	12	1241
1966	12	5	22	0	6	2	0	1	0	1	2	0	1	0	3	1	1134
1967	12	2	7	0	1	7	1	0	0	0	0	1	1	1	3	0	994
1968	4	1	5	0	2	2	0	0	0	8	0	0	0	0	2	0	397
1969	4	0	1	0	1	2	0	0	0	2	0	0	0	0	0	0	149
Total	88	81	71	21	114	71	28	2	20	342	14	3	5	5	47	39	13032
%	0.68	0.62	0.54	0.16	0.87	0.54	0.21	0.02	0.15	2.62	0.11	0.02	0.04	0.04	0.36	0.30	100.0

Upon request, I broke down the psychological, hallucination, and unreliable reports into three categories.

Classification	Number of sightings	Percentage of total sightings
Hoax	111	0.85
Psychological/Hallucination	76	0.58
Unreliable	187	1.44
Total	374	2.87

Blue Book Raw data monthly break downs

1947

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information						5	12	2	0	1	2	0	22
Unidentified						1	5	0	1	2	0	0	9
Venus						0	0	0	0	0	0	0	0
Stars/Planets/Comets						1	0	0	0	0	0	0	1
Aircraft						2	0	2	0	3	0	0	7
Balloon						4	9	3	0	0	0	0	16
Meteors						2	5	0	2	2	2	2	15
Birds/Insects						1	0	2	1	0	0	0	4
Satellites						0	0	0	0	0	0	0	0
Rockets/missiles						1	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination						2	5	1	1	0	0	0	9
Clouds/Contrails						1	0	0	0	0	0	1	2
Radar Malfunction/ False Targets/ Weather returns						0	0	1	0	0	0	0	1
Ground/Search/Ship lights						0	0	0	0	0	0	0	0
Satellite decay						0	0	0	0	0	0	0	0
Physical Specimen						0	1	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflections						0	1	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics						0	2	0	0	0	1	0	3
Moon/Moon halo/Moon dog						0	0	0	0	0	0	0	0
Aurora						0	4	0	0	0	0	0	4
Sun/Sun reflection/Parahelia						1	1	1	0	0	0	0	3
Wind blown/Falling objects						0	1	0	0	0	0	0	1
Mirage						1	0	0	0	0	0	1	2
Equipment Malfunction						0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions						0	0	0	0	0	0	0	0
No classification						0	2	1	0	0	0	2	5
Ground /sea object						0	0	0	0	0	0	0	0
Reflection in window						0	0	0	0	0	0	0	0
Swamp gas/Ground fires						0	0	0	0	0	0	0	0
Aerial Strobe/flash						0	0	0	0	0	0	0	0
Weather						0	0	1	0	0	0	0	1
Other						0	0	0	0	0	0	0	0
Total						22	48	14	5	8	5	6	108

1948

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	1	0	0	4	2	2	2	1	2	2	2	20
Unidentified	0	0	0	1	0	0	3	0	1	1	0	1	7
Venus	3	0	1	0	0	0	1	1	1	0	1	1	9
Stars/Planets/Comets	0	0	0	0	1	0	0	0	0	2	1	1	5
Aircraft	1	0	1	0	0	0	5	1	0	5	3	1	17

Balloon	1	0	0	4	0	2	6	1	1	6	3	1	25
Meteors	6	4	3	2	2	2	6	4	2	4	6	13	54
Birds/Insects	0	0	0	3	0	0	2	1	0	0	0	1	7
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	1	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	1	0	0	0	0	1	0	1	1	0	0	0	4
Clouds/Contrails	0	0	0	1	0	0	0	0	0	0	0	0	1
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	2	1	0	3
Ground/Search/Ship lights	0	0	0	0	1	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	1	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	3	0	0	0	0	0	0	0	2	1	6
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	0	0	0	0	0	0
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	1	0	1	0	0	1	0	2	5
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	1	0	0	1
Mirage	1	0	0	0	0	0	0	0	0	0	1	0	2
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	1	0	0	0	0	1	0	0	0	0	0	0	2
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	1	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	16	5	8	11	10	8	27	11	7	25	20	24	172

1949

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	1	4	6	0	4	3	3	0	0	0	0	22
Unidentified	2	0	1	4	4	0	2	0	0	0	0	0	13
Venus	0	0	0	0	2	0	0	1	0	0	1	0	4
Stars/Planets/Comets	0	2	0	2	4	0	5	1	0	0	1	1	16
Aircraft	3	1	4	8	23	9	12	8	4	1	0	1	74
Balloon	0	2	1	2	4	8	8	5	1	0	0	0	31
Meteors	4	4	14	9	5	13	9	6	3	1	1	1	70
Birds/Insects	0	0	1	3	2	2	3	1	1	0	0	0	13
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	1	0	0	0	0	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	1	0	0	1	0	3	1	3	0	0	0	0	9
Clouds/Contrails	0	0	1	2	0	2	1	2	1	0	0	0	9

Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	0	1	1	0	1	1	0	0	0	0	4
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	1	1	1	0	0	1	0	0	0	0	4
Photo flaw/Lens flare/Internal reflections	1	0	0	0	0	0	0	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics	0	0	0	2	0	0	1	0	0	1	0	0	4
Moon/Moon halo/Moon dog	0	0	0	0	1	0	0	1	0	0	0	0	2
Aurora	1	0	0	0	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	1	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	0	1	1	1	0	1	4	0	0	0	0	8
Mirage	0	1	0	0	0	0	0	0	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	1	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	0	0	0	0	1
No Classification	2	2	0	0	1	0	0	1	14	28	9	13	70
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	16	13	28	42	50	41	48	38	25	32	12	16	361

1950

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	0	6	2	3	3	2	2	1	2	3	0	26
Unidentified	0	3	5	2	1	1	1	4	3	3	1	3	27
Venus	2	0	5	1	0	0	1	0	0	0	0	0	9
Stars/Planets/Comets	2	3	0	1	0	1	1	0	1	1	0	0	10
Aircraft	2	1	8	3	1	1	7	3	3	2	2	4	37
Balloon	1	0	6	0	1	0	5	3	2	3	3	0	24
Meteors	3	4	3	3	1	1	4	7	4	4	2	5	41
Birds/Insects	0	0	0	0	0	0	0	0	0	0	1	0	1
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	1	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	0	0	1	1	0	0	0	0	1	0	0	1	4
Clouds/Contrails	1	1	1	2	0	0	0	1	1	0	0	0	7
Radar Malfunction/ False Targets/ Weather returns	1	0	3	0	0	0	0	1	0	1	2	0	8
Ground/Search/Ship lights	0	0	0	1	0	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	1	0	0	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflections	0	0	0	1	0	0	0	0	1	1	0	0	3
Flares/Fireworks/Pyrotechnics	1	0	0	0	0	0	0	0	0	0	0	0	1

Moon/Moon halo/Moon dog	0	0	1	0	0	0	0	0	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	1	2	0	0	1	0	0	2	0	0	0	6
Wind blown/Falling objects	0	0	1	0	0	0	0	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No classification	0	0	0	0	0	1	0	0	0	0	0	0	1
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	1	1
Other	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	15	13	42	17	8	10	21	21	19	17	14	15	212

1951

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	8	2	2	2	0	3	1	5	3	6	4	1	37
Unidentified	2	3	3	0	1	0	1	2	2	4	2	2	22
Venus	0	0	2	0	0	0	0	0	0	2	0	0	4
Stars/Planets/Comets	0	2	0	0	0	0	1	0	0	0	0	2	5
Aircraft	2	4	3	2	0	1	2	2	2	3	0	1	22
Balloon	5	1	1	0	2	1	1	3	3	2	0	3	22
Meteors	2	1	1	0	0	0	1	4	3	5	6	1	24
Birds/Insects	0	0	0	0	2	0	0	1	0	0	0	0	3
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination	1	1	0	0	0	0	2	0	1	0	3	1	9
Clouds/Contrails	1	0	0	1	1	0	0	0	0	0	1	1	5
Radar Malfunction/ False Targets/ Weather returns	2	0	0	0	0	0	1	1	2	0	0	0	6
Ground/Search/Ship lights	0	1	0	0	0	0	0	0	0	1	0	0	2
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	1	0	0	0	0	0	0	0	0	0	1
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	0	0	0	0	0	0
Aurora	0	1	0	0	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	1	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	1	0	0	0	0	0	0	0	0	1
No classification	0	0	0	0	0	0	0	0	0	0	0	1	1

Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	1	0	0	0	0	1	0	0	0	0	0	0	2
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	24	16	13	6	6	6	10	18	16	24	16	13	168

1952

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	5	5	13	9	20	83	55	21	7	6	7	232
Unidentified	1	2	4	21	12	40	55	31	26	13	8	2	215
Venus	0	0	0	0	1	0	0	1	0	0	0	5	7
Stars/Planets/Comets	1	0	0	1	0	2	19	7	2	2	4	2	40
Aircraft	0	3	5	10	6	15	64	34	14	10	10	5	176
Balloon	2	3	3	9	11	19	94	68	15	14	6	6	250
Meteors	6	4	3	18	21	19	38	16	11	2	4	12	154
Birds/Insects	0	0	0	4	3	1	2	0	1	0	1	0	12
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	1	1	0	1	0	1	4
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	2	1	1	3	1	3	0	1	0	14
Clouds/Contrails	1	0	2	2	1	0	0	0	1	0	0	1	8
Radar Malfunction/ False Targets/ Weather returns	1	1	1	1	1	1	4	0	2	1	2	6	21
Ground/Search/Ship lights	0	0	0	1	2	3	3	2	0	1	0	0	12
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	1	0	0	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflections	0	1	0	2	0	0	0	0	0	0	0	0	3
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	1	1	0	0	0	0	2
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	0	0	0	0	0	0
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	1	0	1	2	2	3	0	2	0	11
Wind blown/Falling objects	0	0	0	0	1	1	1	0	1	0	0	1	5
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	1	2	0	1	0	0	0	4
No classification	0	0	0	0	0	4	39	28	13	7	8	3	102
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	1	1	0	1	0	0	0	3
Other	0	1	0	0	1	0	0	0	0	0	0	0	2
Total	14	20	24	85	71	129	412	247	115	58	52	51	1278

1953

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	14	20	8	4	4	3	2	6	2	5	5	6	79
Unidentified	7	7	6	4	2	4	0	3	4	4	1	3	45
Venus	8	16	23	0	1	1	6	0	0	0	0	0	55
Stars/Planets/Comets	3	13	4	0	1	2	2	3	3	4	6	1	42
Aircraft	13	7	7	7	5	5	6	7	4	5	5	4	75
Balloon	6	11	11	2	4	5	15	3	3	7	5	5	77
Meteors	8	6	4	5	4	4	5	7	4	7	10	4	68
Birds/Insects	0	0	1	0	1	1	0	0	0	2	0	0	5
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	2	2
Hoax/Unreliable/ Psychological/ Hallucination	3	0	0	1	2	2	1	2	0	1	1	0	13
Clouds/Contrails	1	1	1	0	0	0	0	0	1	0	1	1	6
Radar Malfunction/ False Targets/ Weather returns	2	7	1	1	1	1	0	1	0	1	0	1	16
Ground/Search/Ship lights	0	2	1	0	0	3	1	0	1	1	0	0	9
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	1	0	0	0	1	0	0	0	0	0	2
Photo flaw/Lens flare/Internal reflections	0	0	1	0	0	0	0	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics	0	1	0	0	0	0	0	0	0	0	0	0	1
Moon/Moon halo/Moon dog	0	0	0	0	0	1	0	1	0	0	0	0	2
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	1	0	1	0	1	0	1	0	1	5
Wind blown/Falling objects	0	0	0	0	0	0	1	0	0	0	0	0	1
Mirage	0	0	1	1	0	0	0	0	0	0	0	0	2
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	1	1
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	65	91	70	26	25	33	40	34	22	38	34	29	507

1954

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	9	3	5	8	5	12	17	8	15	6	11	5	104
Unidentified	1	1	3	4	4	6	3	8	7	4	3	2	46
Venus	0	0	0	0	0	1	2	1	1	0	0	0	5
Stars/Planets/Comets	1	2	2	1	4	9	3	7	5	5	3	3	45
Aircraft	5	4	3	7	7	11	9	4	6	8	10	4	78
Balloon	6	6	4	3	2	8	6	6	6	3	9	6	65

Meteors	9	3	8	6	7	4	10	7	6	13	10	6	89
Birds/Insects	0	0	2	1	0	0	0	0	1	3	1	0	8
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	1	0	0	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	0	0	1	0	1	1	1	1	1	0	0	1	7
Clouds/Contrails	0	1	0	0	0	0	1	0	0	1	0	0	3
Radar Malfunction/ False Targets/ Weather returns	1	1	2	0	0	0	0	0	0	1	0	1	6
Ground/Search/Ship lights	2	0	0	1	0	1	2	0	0	2	0	0	8
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	1	1	1	0	1	0	0	0	0	4
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	1	0	0	0	1	0	2
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	0	0	0	0	0	0
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	2	0	2	0	1	0	0	2	0	0	8
Wind blown/Falling objects	0	0	0	0	0	0	1	0	0	2	0	0	3
Mirage	0	0	0	0	0	0	0	0	0	0	0	1	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	0	1	0	0	2
No Classification	1	0	0	0	0	1	0	0	0	0	0	0	2
Ground /sea object	0	0	0	0	2	0	1	0	0	0	0	0	3
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	1	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	1	0	0	0	0	0	0	0	0	0	1
Other	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	36	21	34	33	35	55	59	43	48	51	48	30	493

1955

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	7	4	7	4	10	8	13	12	7	8	6	7	93
Unidentified	2	3	0	1	2	0	1	2	3	2	3	1	20
Venus	1	0	1	1	0	1	1	0	0	0	0	0	5
Stars/Planets/Comets	2	3	1	3	5	1	6	6	8	5	3	2	45
Aircraft	5	11	8	8	16	9	13	8	14	9	9	7	117
Balloon	3	4	6	6	7	11	14	13	8	11	1	1	85
Meteors	8	3	9	5	5	4	8	7	4	11	4	6	74
Birds/Insects	0	0	1	0	0	0	0	0	1	0	0	0	2
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	1	0	0	0	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	0	1	1	2	3	3	3	6	0	0	0	0	19
Clouds/Contrails	0	0	0	0	0	0	0	0	0	0	0	1	1

Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	1	1	0	1	0	0	4
Ground/Search/Ship lights	2	1	2	1	1	1	1	0	4	0	0	0	13
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	3	0	0	0	0	0	0	0	3
Photo flaw/Lens flare/Internal reflections	0	1	0	0	0	0	0	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics	0	1	1	0	3	0	0	0	1	0	0	0	6
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	0	0	0	2	0	2
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	1	0	0	0	1	0	0	0	1	0	4
Wind blown/Falling objects	0	0	0	1	0	0	0	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	1	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	1	0	0	0	0	0	1	0	0	0	2
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	1	0	1	0	0	0	1	0	0	3
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	1	1	0	0	0	1	0	0	0	0	0	3
Total	31	34	41	33	55	39	63	55	51	49	29	25	505

1956

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	8	8	8	5	8	6	11	18	15	13	16	6	122
Unidentified	0	2	0	1	0	1	0	2	2	0	2	1	11
Venus	3	2	7	10	5	1	3	6	3	0	2	1	43
Stars/Planets/Comets	5	3	3	2	2	3	5	42	17	4	2	1	89
Aircraft	7	13	5	6	8	18	16	20	17	11	12	6	139
Balloon	3	5	8	3	10	3	18	14	9	7	5	4	89
Meteors	10	3	4	5	3	6	8	12	4	12	12	8	87
Birds/Insects	0	0	1	1	2	0	1	1	0	1	0	0	7
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	2	1	3
Hoax/Unreliable/ Psychological/ Hallucination	0	1	0	1	0	1	5	2	0	3	0	1	14
Clouds/Contrails	0	0	0	0	0	0	0	1	0	0	0	0	1
Radar Malfunction/ False Targets/ Weather returns	0	1	0	0	0	1	0	3	0	1	1	1	8
Ground/Search/Ship lights	0	1	1	0	2	2	2	1	0	0	0	1	10
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	1	0	1	0	0	1	3
Photo flaw/Lens flare/Internal reflections	0	0	0	0	1	0	0	1	1	1	0	0	4
Flares/Fireworks/Pyrotechnics	0	1	0	0	0	0	1	0	0	0	0	2	4

Moon/Moon halo/Moon dog	1	0	0	0	0	0	0	0	1	0	0	0	2
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	1	0	0	0	0	0	1	0	1	0	4
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	0	0	1	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	0	0	0	0	1
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	1	0	0	0	0	0	0	0	0	0	0	1
Weather	1	0	0	0	0	0	0	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	39	41	38	34	41	42	72	123	71	53	55	35	644

1957

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	6	3	8	3	7	7	16	13	12	19	74	28	196
Unidentified	0	0	0	1	0	1	3	0	1	1	5	2	14
Venus	1	0	0	0	0	0	0	9	2	9	67	17	105
Stars/Planets/Comets	3	2	2	3	2	0	10	3	5	2	10	2	44
Aircraft	8	8	7	12	10	11	16	16	16	21	69	24	218
Balloon	8	7	11	5	5	8	10	10	7	15	20	12	118
Meteors	1	4	4	10	7	4	5	9	6	27	65	36	178
Birds/Insects	0	0	0	0	0	0	0	0	1	0	0	0	1
Satellites	0	0	0	0	0	0	0	0	0	2	5	1	8
Rockets/missiles	0	0	0	0	1	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	0	1	1	2	0	0	2	5	1	1	19	2	34
Clouds/Contrails	0	0	0	0	0	1	1	0	0	2	4	1	9
Radar Malfunction/ False Targets/ Weather returns	0	2	1	0	1	0	2	3	2	2	11	4	28
Ground/Search/Ship lights	0	1	2	0	0	0	1	0	1	2	5	0	12
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	1	0	0	0	1	1	3
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	1	0	1	0	0	0	2
Flares/Fireworks/Pyrotechnics	1	0	1	2	3	0	0	0	0	0	0	1	8
Moon/Moon halo/Moon dog	0	0	0	0	1	1	0	0	0	1	1	2	6
Aurora	0	0	0	0	0	0	1	1	1	0	4	1	8
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	0	0	0	1	1
Wind blown/Falling objects	0	1	1	0	0	0	0	0	3	0	1	2	8
Mirage	0	0	0	1	0	1	1	0	0	0	1	0	4
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	1	0	0	0	0	0	0	0	0	0	1
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0

Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	1	0	1
Other	0	0	0	1	0	0	0	1	0	0	0	0	2
Total	28	29	39	40	37	34	70	70	59	104	363	137	1010

1958

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	11	7	14	8	10	6	14	25	8	8	4	2	117
Unidentified	0	0	1	1	1	2	0	1	1	2	1	0	10
Venus	5	0	0	1	1	1	2	0	1	0	0	0	11
Stars/Planets/Comets	1	2	1	2	2	3	5	3	11	7	5	3	45
Aircraft	12	5	4	10	4	5	7	18	13	10	6	3	97
Balloon	4	4	8	5	6	3	7	6	4	4	4	3	58
Meteors	18	16	12	17	9	10	16	19	12	21	9	14	173
Birds/Insects	1	0	0	0	0	0	0	0	0	0	0	0	1
Satellites	0	0	0	1	2	1	6	4	1	1	1	1	18
Rockets/missiles	1	0	0	1	0	0	0	1	1	0	1	1	6
Hoax/Unreliable/ Psychological/ Hallucination	4	1	1	2	1	1	3	2	2	2	0	4	23
Clouds/Contrails	1	2	1	2	0	0	0	0	0	0	0	3	9
Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	0	0	1	0	0	0	2
Ground/Search/Ship lights	0	1	1	1	0	0	0	2	2	0	0	0	7
Satellite decay	0	0	0	1	0	0	0	0	0	0	0	0	1
Physical Specimen	1	1	1	2	1	1	0	1	0	0	0	1	9
Photo flaw/Lens flare/Internal reflections	0	0	0	0	1	1	1	1	1	1	0	1	7
Flares/Fireworks/Pyrotechnics	0	0	1	0	0	0	0	0	0	0	1	1	3
Moon/Moon halo/Moon dog	0	0	0	1	0	1	0	0	0	0	0	0	2
Aurora	0	0	0	0	0	0	0	0	2	0	0	0	2
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	0	0	3	3	1	0	8
Wind blown/Falling objects	0	0	1	2	1	0	0	1	0	2	0	0	7
Mirage	0	0	0	0	1	0	1	0	0	0	0	0	2
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	2	0	0	0	0	0	0	1	0	0	0	3
No Classification	0	0	0	0	0	0	0	0	0	1	0	0	1
Ground /sea object	0	0	0	0	0	0	1	0	0	1	0	0	2
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	1	0	0	0	0	0	0	0	0	0	0	0	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	1	1	0	0	2
Other	1	0	0	0	0	0	0	0	1	0	0	0	2
Total	61	41	47	57	40	36	63	84	66	64	33	37	629

1959

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	3	7	4	5	5	8	8	7	8	5	4	69
Unidentified	0	0	1	0	0	2	1	1	2	4	1	0	12
Venus	1	0	1	2	0	0	2	0	1	6	3	0	16
Stars/Planets/Comets	6	4	3	1	1	2	0	0	5	1	0	0	23
Aircraft	3	8	4	4	3	10	12	6	6	2	2	2	62
Balloon	0	3	1	3	3	2	1	7	1	4	4	1	30
Meteors	10	8	10	8	10	9	4	9	10	9	9	2	98
Birds/Insects	0	0	0	0	0	0	0	0	0	0	0	0	0
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	2	1	0	0	0	0	2	2	2	3	1	1	14
Hoax/Unreliable/ Psychological/ Hallucination	1	1	0	0	0	1	1	1	2	3	1	0	11
Clouds/Contrails	0	1	0	0	0	0	1	0	0	1	0	0	3
Radar Malfunction/ False Targets/ Weather returns	0	0	2	1	1	0	0	1	0	1	0	0	6
Ground/Search/Ship lights	0	0	0	1	1	0	4	0	0	0	0	0	6
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	1	0	0	0	0	0	2	1	0	1	0	0	5
Photo flaw/Lens flare/Internal reflections	0	0	1	0	1	1	0	0	1	0	0	0	4
Flares/Fireworks/Pyrotechnics	0	1	0	0	1	0	0	0	1	0	0	0	3
Moon/Moon halo/Moon dog	1	0	0	0	0	0	0	0	0	0	0	0	1
Aurora	0	0	0	1	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	4	1	3	1	0	0	2	1	1	0	0	0	13
Wind blown/Falling objects	0	0	0	0	1	0	0	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	1	0	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	42	0	0	0	0	0	0	0	0	0	0	42
Ground /sea object	0	0	0	0	0	1	1	0	0	0	0	0	2
Reflection in window	0	1	0	0	0	0	0	0	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	1	0	0	0	0	0	0	0	0	1	2
Weather	0	0	0	0	1	1	0	0	1	2	0	0	5
Other	0	1	0	0	0	0	0	0	0	1	0	0	2
Total	34	75	34	26	28	34	42	37	40	46	26	11	433

1960

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	3	5	6	5	16	6	7	15	16	11	5	13	108
Unidentified	0	1	2	3	0	0	1	2	1	1	2	0	13
Venus	0	0	0	0	0	1	1	0	3	2	0	2	9
Stars/Planets/Comets	0	1	0	0	3	1	6	6	8	2	3	2	32
Aircraft	2	3	0	4	2	7	8	9	15	8	5	2	65
Balloon	1	1	1	1	4	3	4	0	1	3	1	2	22

Meteors	9	6	9	17	7	18	27	14	37	17	9	18	188
Birds/Insects	0	1	0	2	0	0	0	0	0	0	0	0	3
Satellites	0	0	0	1	1	0	0	7	4	1	2	7	23
Rockets/missiles	2	0	0	0	0	2	2	1	3	2	1	0	13
Hoax/Unreliable/ Psychological/ Hallucination	2	1	0	0	2	0	1	1	3	1	0	0	11
Clouds/Contrails	1	0	0	0	1	0	0	0	0	1	1	0	4
Radar Malfunction/ False Targets/ Weather returns	1	0	0	0	0	0	0	0	1	0	0	0	2
Ground/Search/Ship lights	0	0	0	0	0	0	0	1	0	1	2	2	6
Satellite decay	0	0	1	1	0	0	0	0	4	1	0	1	8
Physical Specimen	0	1	0	0	1	1	0	2	1	1	1	0	8
Photo flaw/Lens flare/Internal reflec- tions	0	1	0	1	0	2	0	0	0	0	0	1	5
Flares/Fireworks/Pyrotechnics	1	1	1	0	1	1	0	1	1	0	0	0	7
Moon/Moon halo/Moon dog	0	0	0	0	0	0	1	0	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	1	0	0	0	1
Sun/Sun reflection/Parahelia	1	1	2	3	2	1	1	0	0	0	0	1	12
Wind blown/Falling objects	0	0	1	1	0	0	0	1	1	1	0	0	5
Mirage	0	0	1	0	0	0	0	0	0	1	0	0	2
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	1	0	0	1
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	1	0	0	1	0	2	6	0	0	0	10
Other	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	23	23	25	39	40	45	59	62	106	55	32	51	560

1961

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	8	13	14	6	15	11	12	9	11	10	5	4	118
Unidentified	0	1	1	1	1	1	3	1	1	0	2	1	13
Venus	7	11	4	0	2	5	2	1	3	0	1	0	36
Stars/Planets/Comets	2	3	2	1	5	3	3	4	11	3	2	3	42
Aircraft	9	1	4	3	7	9	8	14	6	7	5	1	74
Balloon	0	2	2	4	5	0	5	8	7	2	2	0	37
Meteors	15	15	13	9	6	4	13	5	12	10	13	4	119
Birds/Insects	0	0	1	0	1	0	0	1	0	0	0	0	3
Satellites	1	7	3	2	13	4	15	12	3	1	6	3	70
Rockets/missiles	2	1	0	1	0	0	0	3	2	0	2	1	12
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	3	1	0	2	2	0	1	1	0	12
Clouds/Contrails	0	0	0	0	1	1	0	0	2	1	0	1	6

Radar Malfunction/ False Targets/ Weather returns	0	2	0	0	0	1	0	0	1	0	0	0	4
Ground/Search/Ship lights	0	0	0	0	0	0	1	1	0	0	0	0	2
Satellite decay	0	1	1	0	0	0	0	0	0	0	0	1	3
Physical Specimen	0	1	1	0	0	0	0	0	0	0	1	0	3
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	1	0	1	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	1	3	1	1	0	0	0	6
Moon/Moon halo/Moon dog	1	0	0	0	0	1	0	0	0	0	0	1	3
Aurora	0	0	0	0	0	0	0	0	1	0	0	0	1
Sun/Sun reflection/Parahelia	1	0	0	0	0	1	1	0	1	2	0	0	6
Wind blown/Falling objects	0	1	0	1	0	2	0	0	0	0	0	0	4
Mirage	0	0	0	0	0	1	0	0	1	1	0	0	3
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	1	0	1
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	2	0	1	0	1	0	0	1	0	0	5
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	47	59	49	31	58	45	69	63	63	40	41	20	585

1962

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	3	4	13	6	3	15	12	13	10	9	6	95
Unidentified	0	1	4	1	2	2	2	1	1	1	1	0	16
Venus	0	1	2	2	1	4	1	2	0	1	0	2	16
Stars/Planets/Comets	1	0	1	2	1	4	3	7	1	1	1	0	22
Aircraft	4	1	6	0	6	5	13	9	13	5	4	2	68
Balloon	2	0	0	3	3	3	1	1	2	2	1	2	20
Meteors	8	10	2	9	14	8	9	8	9	6	7	5	95
Birds/Insects	1	0	0	0	0	0	0	0	1	0	0	0	2
Satellites	6	7	2	14	4	3	20	7	2	7	3	3	78
Rockets/missiles	1	0	0	1	0	0	1	0	1	2	2	0	8
Hoax/Unreliable/ Psychological/ Hallucination	1	0	0	1	1	1	0	1	2	0	1	2	10
Clouds/Contrails	0	0	1	0	0	0	0	0	0	0	2	0	3
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	0	0	1	1	0	0	0	0	0	1	3
Satellite decay	0	0	0	0	0	0	0	1	1	0	0	0	2
Physical Specimen	0	1	0	0	0	0	0	4	8	4	1	0	18
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	1	0	0	1
Flares/Fireworks/Pyrotechnics	0	0	0	0	1	0	0	0	1	0	0	0	2

Moon/Moon halo/Moon dog	0	0	1	0	0	1	0	0	0	1	0	0	3
Aurora	0	0	0	0	0	0	0	0	0	1	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	2	0	0	0	1	1	0	0	4
Wind blown/Falling objects	0	0	0	1	1	0	0	0	0	0	0	0	2
Mirage	1	0	0	0	1	0	0	0	1	0	0	0	3
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	1	0	0	1
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	1	0	0	0	0	1	0	2
Total	26	24	23	47	44	36	65	53	57	44	33	23	475

1963

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	2	4	4	3	14	5	8	4	8	3	2	62
Unidentified	0	0	0	0	2	2	1	2	2	3	0	2	14
Venus	0	1	0	0	0	0	0	0	0	0	0	0	1
Stars/Planets/Comets	1	1	0	0	0	1	4	6	4	3	2	0	22
Aircraft	4	3	3	7	6	10	9	15	7	7	2	2	75
Balloon	1	1	1	1	3	6	6	4	2	1	0	1	27
Meteors	3	3	8	3	3	1	5	5	9	6	8	6	60
Birds/Insects	0	0	1	0	0	0	0	0	0	0	0	1	2
Satellites	2	2	7	8	1	24	12	4	12	6	2	3	83
Rockets/missiles	0	0	2	0	2	0	2	0	1	1	3	1	12
Hoax/Unreliable/ Psychological/ Hallucination	0	1	3	2	1	1	0	0	0	1	2	2	13
Clouds/Contrails	0	2	0	0	1	0	0	0	1	0	0	0	4
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	1	0	0	0	0	0	0	0	1
Ground/Search/Ship lights	0	1	0	0	0	2	0	0	0	0	0	0	3
Satellite decay	0	0	0	0	0	1	0	1	0	0	0	1	3
Physical Specimen	0	0	0	0	0	0	0	2	0	2	0	1	5
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	1	0	0	1	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	1	0	0	0	0	0	1	1	3
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	1	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	1	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	1	0	1	0	1	0	0	0	0	3
Wind blown/Falling objects	1	0	1	0	0	0	0	1	0	0	0	0	3
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0

Ground /sea object	0	0	0	0	0	0	0	0	1	0	0	0	1
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	1	0	0	0	0	0	0	1
Other	0	0	0	0	0	1	0	2	0	0	0	0	3
Total	17	17	30	26	24	65	45	52	44	39	23	23	405

1964

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	6	5	7	15	10	13	13	10	6	14	2	106
Unidentified	0	0	0	3	4	1	4	4	1	0	2	0	19
Venus	1	3	4	1	9	0	1	3	2	1	0	0	25
Stars/Planets/Comets	0	1	0	3	3	2	4	12	4	1	1	2	33
Aircraft	1	4	2	5	13	10	13	11	4	2	5	0	70
Balloon	0	0	0	2	3	1	8	2	1	0	2	1	20
Meteors	5	5	1	4	6	3	10	7	6	2	9	2	60
Birds/Insects	0	4	0	1	1	0	2	0	0	0	0	0	8
Satellites	4	1	3	9	20	4	43	32	4	4	15	3	142
Rockets/missiles	1	0	1	1	0	0	1	0	1	1	0	0	6
Hoax/Unreliable/ Psychological/ Hallucination	1	0	2	4	2	3	3	1	4	4	0	2	26
Clouds/Contrails	0	1	0	0	0	0	0	0	0	0	0	0	1
Radar Malfunction/ False Targets/ Weather returns	0	0	0	1	0	0	1	0	0	0	0	2	4
Ground/Search/Ship lights	0	0	0	2	2	1	1	0	1	1	0	0	8
Satellite decay	1	1	0	0	0	0	0	0	0	0	1	0	3
Physical Specimen	0	0	0	0	1	3	1	1	0	1	1	0	8
Photo flaw/Lens flare/Internal reflec- tions	0	0	1	0	0	1	0	0	0	2	1	0	5
Flares/Fireworks/Pyrotechnics	0	0	1	0	2	0	3	0	0	0	0	0	6
Moon/Moon halo/Moon dog	0	0	0	0	0	1	1	1	0	1	0	1	5
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	2	1	0	0	0	3
Wind blown/Falling objects	0	0	0	0	0	0	0	0	1	0	1	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	1	0	0	0	0	0	0	1
No Classification	0	0	0	0	1	0	0	0	0	0	0	0	1
Ground /sea object	0	0	0	0	0	0	1	0	0	0	0	0	1
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	1	0	0	0	0	0	0	0	0	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	1	1	0	0	0	0	0	0	2
Other	0	1	0	0	2	0	1	2	0	0	0	0	6
Total	19	27	20	44	85	42	111	91	40	26	52	15	572

1965

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	6	5	3	4	4	3	17	40	20	8	7	5	122
Unidentified	1	0	2	1	1	0	2	4	4	0	1	0	16
Venus	0	0	0	0	0	2	2	10	10	16	13	7	60
Stars/Planets/Comets	4	1	3	2	0	5	9	78	30	13	6	5	156
Aircraft	12	8	15	11	14	7	32	91	33	18	16	8	265
Balloon	4	2	1	3	0	3	7	9	4	7	0	2	42
Meteors	7	6	8	2	2	4	14	41	19	10	11	7	131
Birds/Insects	1	2	0	2	0	0	0	4	1	2	2	1	15
Satellites	5	5	5	5	14	6	41	59	51	6	0	3	200
Rockets/missiles	0	0	0	0	1	0	0	3	1	1	3	1	10
Hoax/Unreliable/ Psychological/ Hallucination	5	2	5	1	2	1	1	12	1	3	0	0	33
Clouds/Contrails	1	0	0	0	0	0	0	1	1	0	1	0	4
Radar Malfunction/ False Targets/ Weather returns	0	0	0	1	0	1	0	3	0	2	0	0	7
Ground/Search/Ship lights	3	1	0	0	0	0	1	3	1	1	1	0	11
Satellite decay	0	1	1	1	0	0	0	2	0	1	0	1	7
Physical Specimen	0	1	0	1	0	0	0	0	1	0	1	0	4
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	1	1	1	3	5	2	0	1	0	14
Flares/Fireworks/Pyrotechnics	0	0	0	0	1	0	1	1	0	0	2	0	5
Moon/Moon halo/Moon dog	0	1	0	0	0	0	2	1	0	0	0	1	5
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	0	0	0	2	1	1	1	1	0	0	7
Wind blown/Falling objects	0	0	0	1	0	1	0	0	0	1	0	0	3
Mirage	0	0	0	0	0	0	1	2	0	0	0	0	3
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	1	0	0	0	0	0	0	0	0	0	0	0	1
No Classification	0	0	0	0	0	0	0	101	0	2	1	0	104
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	1	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	2	0	0	1	0	3
Other	0	0	0	1	0	0	0	5	3	1	1	1	12
Total	51	35	43	37	40	36	134	479	183	93	68	42	1241

1966

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	9	8	39	27	34	26	24	25	20	42	30	20	304
Unidentified	1	2	5	3	1	4	3	3	5	3	1	1	32
Venus	1	3	14	8	2	3	0	3	0	1	0	0	35
Stars/Planets/Comets	3	3	21	14	4	7	11	7	7	37	12	3	129
Aircraft	8	3	31	43	31	26	29	28	16	25	23	11	274
Balloon	0	0	2	5	3	2	7	5	2	6	4	2	38

Meteors	9	2	8	20	5	3	10	9	5	7	8	3	89
Birds/Insects	0	0	1	4	1	0	0	0	0	2	1	0	9
Satellites	3	0	21	5	13	21	6	22	5	13	2	1	112
Rockets/missiles	0	0	0	0	0	1	0	1	3	0	1	1	7
Hoax/Unreliable/ Psychological/ Hallucination	2	0	1	5	0	1	2	0	2	4	1	1	19
Clouds/Contrails	2	0	3	0	0	0	0	2	0	0	0	0	7
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	1	0	1	1	0	0	0	3
Ground/Search/Ship lights	0	0	2	4	3	1	2	1	0	2	1	1	17
Satellite decay	1	0	1	0	0	0	1	0	0	0	0	0	3
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflec- tions	0	0	3	1	2	0	1	2	1	1	1	0	12
Flares/Fireworks/Pyrotechnics	0	0	0	1	0	0	1	1	0	0	1	1	5
Moon/Moon halo/Moon dog	2	1	4	5	3	2	1	2	1	1	0	0	22
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	1	1	1	1	1	0	0	1	0	6
Wind blown/Falling objects	0	0	0	1	0	0	0	1	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	1	0	0	0	0	0	0	0	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	0	0	0	0	1	0	0	0	0	0	0	1
Ground /sea object	0	0	0	0	0	0	2	0	0	0	0	0	2
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	1	0	0	0	0	0	0	0	0	0	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	1	0	0	1	1	0	3
Other	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	41	22	158	147	103	100	102	114	68	146	88	45	1134

1967

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	29	37	41	36	17	28	27	20	35	21	22	15	328
Unidentified	0	5	7	1	1	2	1	0	0	1	0	0	18
Venus	0	12	23	10	7	4	6	0	2	0	2	1	67
Stars/Planets/Comets	6	12	8	6	4	2	2	1	3	3	8	2	57
Aircraft	26	26	37	28	23	12	21	8	9	16	12	3	221
Balloon	3	9	22	12	3	3	6	5	4	6	4	6	83
Meteors	4	4	7	7	1	2	2	2	3	1	2	1	36
Birds/Insects	0	0	0	2	0	1	0	0	1	4	0	0	8
Satellites	4	6	1	11	3	19	11	1	7	4	2	1	70
Rockets/missiles	2	0	1	0	0	0	1	2	1	1	0	0	8
Hoax/Unreliable/ Psychological/ Hallucination	2	1	2	4	4	2	3	2	4	5	2	3	34
Clouds/Contrails	1	0	3	0	0	0	0	0	0	0	0	1	5

Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	0	0	1	2	0	0	4
Ground/Search/Ship lights	1	0	4	0	0	0	1	1	0	0	0	1	8
Satellite decay	1	1	1	1	0	0	0	0	2	0	0	0	6
Physical Specimen	0	0	1	0	0	0	0	1	2	1	0	0	5
Photo flaw/Lens flare/Internal reflections	1	1	1	1	1	2	0	3	1	0	1	0	12
Flares/Fireworks/Pyrotechnics	0	0	1	0	0	0	0	0	0	0	1	0	2
Moon/Moon halo/Moon dog	2	2	0	0	2	0	0	0	0	0	1	0	7
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	0	1	0	0	1
Wind blown/Falling objects	0	0	3	1	1	0	0	1	1	0	0	0	7
Mirage	0	0	0	0	0	0	0	0	0	1	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	1	0	0	0	0	0	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	1	0	0	1
Aerial Strobe/flash	0	0	0	1	0	0	0	0	0	0	0	0	1
Weather	0	2	0	0	0	1	0	0	0	0	0	0	3
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	82	118	165	121	67	78	81	47	76	68	57	34	994

1968

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	10	6	23	9	8	14	23	27	14	19	7	4	164
Unidentified	0	1	0	0	0	0	0	0	1	0	1	0	3
Venus	0	0	0	0	0	0	0	0	0	1	1	2	4
Stars/Planets/Comets	2	7	3	3	0	1	1	2	3	1	1	0	24
Aircraft	3	3	8	5	0	5	6	6	2	5	0	4	47
Balloon	4	4	2	2	2	1	3	3	7	2	5	4	39
Meteors	2	1	0	4	2	0	1	0	0	0	1	0	11
Birds/Insects	0	0	0	0	0	0	1	0	0	0	0	0	1
Satellites	0	4	2	5	0	1	7	2	0	0	3	2	26
Rockets/missiles	0	0	1	0	0	0	0	1	0	0	0	0	2
Hoax/Unreliable/ Psychological/ Hallucination	3	2	6	2	1	4	4	4	5	4	2	1	38
Clouds/Contrails	0	0	0	0	0	0	0	0	0	0	0	0	0
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	1	0	0	1	0	0	2
Ground/Search/Ship lights	1	0	0	0	0	0	0	0	0	0	3	0	4
Satellite decay	1	0	2	2	0	1	0	0	0	0	0	0	6
Physical Specimen	0	0	0	1	0	0	1	0	0	0	0	0	2
Photo flaw/Lens flare/Internal reflections	0	0	1	0	1	0	0	0	0	1	1	0	4
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	1	0	0	0	0	0	0	1

Moon/Moon halo/Moon dog	0	0	0	1	0	0	2	2	0	0	0	0	5
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	1	0	0	0	0	0	2
Wind blown/Falling objects	0	0	0	0	0	0	1	1	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	0	0	1	1	2	0	0	1	3	0	0	0	8
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	1	0	0	1	0	0	2
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	26	28	49	35	16	29	53	49	35	35	25	17	397

1969

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	3	0	2	3	3	3	5	3	4	0	2	29
Unidentified	1	0	0	0	0	0	0	0	0	0	0	0	1
Venus	3	1	2	0	1	0	0	0	1	1	0	0	9
Stars/Planets/Comets	1	1	2	1	3	1	1	4	1	2	0	0	17
Aircraft	5	6	4	1	1	1	1	2	1	3	2	0	27
Balloon	4	2	1	5	0	1	3	3	0	2	1	0	22
Meteors	0	3	2	0	0	2	1	5	0	0	0	0	13
Birds/Insects	0	0	0	0	0	0	0	0	0	0	0	0	0
Satellites	0	3	0	0	0	1	0	1	1	0	0	0	6
Rockets/missiles	0	0	0	0	0	1	0	0	1	1	0	0	3
Hoax/Unreliable/ Psychological/ Hallucination	3	2	1	0	1	0	0	1	0	0	0	0	8
Clouds/Contrails	0	0	0	0	0	0	0	0	0	0	0	0	0
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	1	0	0	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	1	0	0	1	0	1	0	0	3
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflec- tions	1	1	0	1	0	0	0	0	0	0	1	0	4
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	0	0	0	0	0	0	0
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	1	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	0	0	0	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	1	0	0	0	0	1	0	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Classification	1	0	0	0	0	0	0	0	0	1	0	0	2

Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	21	23	13	10	10	10	11	22	8	15	4	2	149

UPDATED BLUE BOOK REVISED CLASSIFICATIONS

SUMMARY

This is an updated tabulation of the Blue Book totals after the updated classifications of the unknowns in this issue. I also performed a recount of all the classifications to verify the numbers from SE-1. As part of this recount, I added an "other" category to catch cases that were either duplicates or had some explanation I had previously forced into categories where they should not have been placed.

Year	Insufficient information/conflicting data	Unidentified	Venus	Stars/ Planets/ comets	Aircraft	Balloon	Meteors	Birds/ insects	Satellites	Rockets/ missiles	Hoax/unreliable/ psychological/ Hallucination	Clouds/ contrails	Radar malfunction/false targets/ weather returns	Ground search ship lights	Satellite decay	Physical specimen
1947	27	8	0	0	6	11	18	6	0	0	12	2	0	0	0	0
1948	15	5	9	4	21	22	49	8	0	1	5	4	3	1	0	1
1949	16	13	6	15	87	43	86	29	0	1	6	13	0	6	0	4
1950	28	18	10	7	32	24	44	8	0	0	6	8	9	1	0	1
1951	29	12	8	5	22	24	33	5	0	0	11	6	8	2	0	0
1952	124	142	17	116	170	224	273	63	0	1	25	23	35	10	0	3
1953	60	41	56	52	58	78	76	9	0	1	14	6	17	8	0	2
1954	85	29	17	38	63	71	107	18	0	1	9	4	5	9	0	5
1955	60	16	12	53	104	97	86	11	0	0	23	3	4	12	0	3
1956	85	7	62	117	131	84	99	12	0	1	20	0	7	7	0	2
1957	108	11	139	98	210	110	204	13	7	0	32	10	29	10	0	3
1958	60	9	15	53	107	69	186	10	17	6	20	13	1	4	2	10
1959	38	10	29	31	110	31	111	6	2	15	12	4	8	9	0	4
1960	42	8	10	59	74	25	214	14	34	16	15	9	2	6	2	8
1961	62	6	41	54	87	37	131	8	87	10	10	16	5	1	0	4
1962	44	11	23	26	84	16	111	7	85	8	17	9	0	3	3	23
1963	44	7	1	29	89	22	76	2	90	13	15	6	1	2	1	5
1964	54	12	28	40	88	22	96	9	172	7	26	4	3	6	0	8
1965	121	11	68	229	252	46	169	21	251	7	29	6	6	8	2	5
1966	152	21	41	229	275	46	128	17	185	8	23	13	4	15	4	0
1967	158	16	79	111	204	77	53	11	123	9	57	9	3	10	4	6
1968	68	5	12	46	75	43	18	1	52	3	26	1	1	3	2	2
1969	26	1	9	26	27	13	16	0	6	2	5	0	0	1	1	0
Total	1506	419	692	1438	2376	1235	2384	288	1111	110	418	169	151	134	21	99
%	11.20	3.12	5.14	10.69	17.67	9.18	17.73	2.14	8.26	0.82	3.11	1.26	1.12	1.00	0.16	0.74

Year	Photo flaw/ lens flare/ reflec- tions	Flares/ fire- works	Moon moon reflection	Aurora	Reflec- tion/Sun/ Parahelia	Wind borne/ falling objects	Mirage	Equip- ment Malfunc- tion	Anti-Air- craft/ Gun fire/ explosions	No case file	Ground /sea object	Reflec- tion in window	Swamp gas/ Ground fires	Aerial strobe/ Flash	Weath- er	Other	Total
1947	1	1	0	1	3	1	0	0	0	11	0	0	0	0	0	0	108
1948	0	4	1	0	1	0	2	0	0	16	0	0	0	0	0	0	172
1949	2	4	2	1	1	6	0	1	1	18	0	0	0	0	0	0	361
1950	3	1	1	0	7	0	0	0	0	4	0	0	0	0	1	0	213
1951	0	0	5	0	0	1	0	0	1	0	0	0	0	0	1	0	173
1952	4	5	8	1	4	4	0	0	2	65	1	1	0	1	1	6	1329
1953	1	0	3	0	6	1	1	0	0	27	0	0	0	1	1	0	519
1954	0	2	5	1	7	4	1	0	2	3	3	0	1	0	0	4	494
1955	1	6	4	0	4	1	1	0	2	0	2	0	0	0	0	4	509
1956	4	4	6	0	1	1	0	1	0	0	0	0	0	1	1	0	653
1957	2	5	12	9	1	6	0	1	0	10	2	0	0	0	0	1	1033
1958	7	2	4	0	5	7	1	0	3	18	0	0	0	0	1	1	631
1959	4	2	3	1	5	2	0	1	0	3	2	1	0	1	0	1	446
1960	6	4	3	2	6	6	0	0	0	3	0	0	0	0	5	1	574
1961	2	4	4	1	5	2	0	1	0	15	0	0	0	0	1	0	594
1962	1	1	5	0	1	0	0	0	1	3	0	0	0	0	0	1	483
1963	2	0	5	1	3	3	0	0	0	0	1	0	0	0	0	1	419
1964	5	5	4	0	1	2	0	0	0	21	1	0	1	0	0	2	617
1965	14	2	9	0	6	2	1	1	1	36	0	1	0	0	2	1	1307
1966	8	4	27	0	4	2	0	0	1	17	1	1	2	0	2	5	1235
1967	13	3	11	0	1	4	1	0	0	61	0	1	0	0	1	0	1026
1968	2	1	6	0	1	1	0	0	0	32	0	0	0	0	1	0	402
1969	2	0	1	0	1	1	0	0	0	13	0	0	0	0	0	0	151
Total	84	60	129	18	74	57	8	6	14	376	13	5	4	4	18	28	13449
%	0.62	0.45	0.96	0.13	0.55	0.42	0.06	0.04	0.10	2.80	0.10	0.04	0.03	0.03	0.13	0.21	100.01

Upon request, I broke down the psychological, hallucination, and unreliable reports into three categories.

Classification	Number of sightings	Percentage of total sightings
Hoax	111	0.83
Psychological/Hallucination	54	0.40
Unreliable	253	1.88
Total	418	3.11

Updated reevaluated Blue Book monthly break downs

1947

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information						11	8	3	1	2	2	0	27
Unidentified						2	5	1	0	0	0	0	8
Venus						0	0	0	0	0	0	0	0
Stars/Planets/Comets						0	0	0	0	0	0	0	0
Aircraft						0	1	2	0	3	0	0	6
Balloon						4	7	0	0	0	0	0	11
Meteors						0	8	2	2	2	2	2	18
Birds/Insects						1	1	2	1	1	0	0	6
Satellites						0	0	0	0	0	0	0	0
Rockets/missiles						0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination						2	6	3	1	0	0	0	12
Clouds/Contrails						1	0	0	0	0	0	1	2
Radar Malfunction/ False Targets/ Weather returns						0	0	0	0	0	0	0	0
Ground/Search/Ship lights						0	0	0	0	0	0	0	0
Satellite decay						0	0	0	0	0	0	0	0
Physical Specimen						0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflections						0	1	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics						0	1	0	0	0	0	0	1
Moon/Moon halo/Moon dog						0	0	0	0	0	0	0	0
Aurora						0	1	0	0	0	0	0	1
Sun/Sun reflection/Parahelia						1	1	1	0	0	0	0	3
Wind blown/Falling objects						0	1	0	0	0	0	0	1
Mirage						0	0	0	0	0	0	0	0
Equipment Malfunction						0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions						0	0	0	0	0	0	0	0
No Case file						0	7	0	0	0	1	3	11
Ground /sea object						0	0	0	0	0	0	0	0
Reflection in window						0	0	0	0	0	0	0	0
Swamp gas/Ground fires						0	0	0	0	0	0	0	0
Aerial Strobe/flash						0	0	0	0	0	0	0	0
Weather						0	0	0	0	0	0	0	0
Other						0	0	0	0	0	0	0	0
Total						22	48	14	5	8	5	6	108

1948

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	1	0	0	4	2	0	0	1	0	1	4	15
Unidentified	0	0	0	1	0	0	2	0	0	1	0	1	5
Venus	3	0	1	0	0	0	1	1	1	0	1	1	9
Stars/Planets/Comets	0	0	0	0	1	0	0	0	0	1	1	1	4
Aircraft	1	0	1	0	0	0	6	2	1	4	4	2	21

Balloon	1	0	0	4	0	2	4	2	1	5	3	0	22
Meteors	6	4	3	2	2	2	6	2	1	3	7	11	49
Birds/Insects	0	0	0	3	0	0	2	0	1	1	0	1	8
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	1	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	1	0	0	0	0	1	1	1	0	1	0	0	5
Clouds/Contrails	0	0	0	1	0	0	1	1	0	0	1	0	4
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	2	1	0	3
Ground/Search/Ship lights	0	0	0	0	1	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	1	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	3	0	0	0	0	0	0	0	0	1	4
Moon/Moon halo/Moon dog	0	0	0	0	0	0	1	0	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	1	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	0	0	0	0
Mirage	1	0	0	0	0	0	0	0	0	0	1	0	2
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	1	0	0	0	0	1	2	2	1	7	0	2	16
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	16	5	8	11	10	8	27	11	7	25	20	24	172

1949

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	0	0	2	5	0	2	3	1	1	1	0	1	16
Unidentified	2	0	1	4	4	0	2	0	0	0	0	0	13
Venus	0	0	0	0	1	0	0	1	0	1	1	2	6
Stars/Planets/Comets	0	3	0	2	2	0	5	2	0	0	1	0	15
Aircraft	2	3	3	8	21	11	13	7	10	7	0	2	87
Balloon	1	1	2	2	6	9	7	5	3	2	3	2	43
Meteors	6	6	15	9	5	13	9	6	3	6	4	4	86
Birds/Insects	0	0	1	4	4	5	3	2	3	5	2	0	29
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	1	0	0	0	0	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	0	0	0	1	0	1	1	3	0	0	0	0	6
Clouds/Contrails	1	0	2	2	1	0	1	2	2	0	1	1	13

Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	0	1	1	0	1	1	0	2	0	0	6
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	1	1	1	0	0	1	0	0	0	0	4
Photo flaw/Lens flare/Internal reflections	1	0	0	0	0	0	0	0	1	0	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	2	0	0	1	0	0	1	0	0	4
Moon/Moon halo/Moon dog	0	0	0	0	1	0	0	1	0	0	0	0	2
Aurora	1	0	0	0	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	1	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	0	0	1	0	0	1	4	0	0	0	0	6
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	1	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	0	0	0	0	1
No Case file	0	0	1	0	1	1	0	2	2	6	1	4	18
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15	13	28	42	49	42	48	38	25	31	14	16	361

1950

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	2	3	2	2	3	4	2	2	3	1	3	28
Unidentified	0	2	2	2	1	1	1	3	2	2	1	1	18
Venus	1	1	6	1	0	1	0	0	0	0	0	0	10
Stars/Planets/Comets	3	1	1	1	0	0	1	0	0	0	0	0	7
Aircraft	2	1	5	3	2	1	5	3	3	2	2	3	32
Balloon	1	0	6	0	1	0	5	2	2	4	3	0	24
Meteors	4	4	4	3	1	2	4	7	5	4	1	5	44
Birds/Insects	0	0	6	0	0	0	0	1	0	0	1	0	8
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination	0	0	2	1	0	0	0	0	1	0	1	1	6
Clouds/Contrails	1	1	2	2	0	0	0	0	1	0	1	0	8
Radar Malfunction/ False Targets/ Weather returns	1	0	4	0	0	0	0	1	0	1	2	0	9
Ground/Search/Ship lights	0	0	0	1	0	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	1	0	0	0	0	0	0	0	1
Photo flaw/Lens flare/Internal reflections	0	0	0	1	0	0	0	0	1	1	0	0	3
Flares/Fireworks/Pyrotechnics	1	0	0	0	0	0	0	0	0	0	0	0	1

Moon/Moon halo/Moon dog	0	0	1	0	0	0	0	0	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	1	1	0	0	1	1	0	2	0	0	1	7
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	0	0	0	0
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	0	0	0	1	0	2	0	0	1	0	4
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	1	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15	13	43	17	8	10	21	21	19	17	14	15	213

1951

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	6	1	2	2	0	2	0	5	3	3	3	2	29
Unidentified	1	2	2	0	0	0	0	1	2	3	0	1	12
Venus	1	0	2	0	0	0	0	0	0	2	2	1	8
Stars/Planets/Comets	0	2	0	0	0	0	1	0	0	0	1	1	5
Aircraft	2	4	3	2	0	1	2	2	2	3	0	1	22
Balloon	5	1	1	0	2	1	1	3	3	2	1	4	24
Meteors	3	3	2	0	0	0	2	4	3	7	8	1	33
Birds/Insects	0	0	1	0	2	0	0	2	0	0	0	0	5
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination	1	1	0	0	0	1	2	1	1	0	3	1	11
Clouds/Contrails	2	0	0	1	1	0	0	0	0	0	1	1	6
Radar Malfunction/ False Targets/ Weather returns	2	0	0	0	0	0	1	1	2	2	0	0	8
Ground/Search/Ship lights	0	1	0	0	0	0	0	0	0	1	0	0	2
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	0	0	0	0	0	0	0
Moon/Moon halo/Moon dog	1	2	0	0	1	0	1	0	0	0	0	0	5
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	0	0	0	0	0
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	1	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	1	0	0	0	0	0	0	0	0	1
No Case file	0	0	0	0	0	0	0	0	0	0	0	0	0

Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	1	0	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	24	17	13	6	6	6	10	19	16	24	19	13	173

1952

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	0	3	4	7	4	10	36	32	8	3	13	4	124
Unidentified	1	1	2	12	7	38	31	20	16	7	5	2	142
Venus	0	0	0	0	0	0	0	3	2	5	3	4	17
Stars/Planets/Comets	1	0	0	2	3	4	39	36	14	10	4	3	116
Aircraft	0	5	5	15	6	18	60	25	16	5	9	6	170
Balloon	2	3	3	9	7	22	93	50	10	13	3	9	224
Meteors	7	6	4	18	25	30	78	51	23	15	4	12	273
Birds/Insects	0	0	1	11	5	3	18	15	5	2	3	0	63
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	1	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	2	1	0	7	5	4	1	2	1	25
Clouds/Contrails	1	0	2	2	3	2	5	1	1	2	3	1	23
Radar Malfunction/ False Targets/ Weather returns	1	1	1	1	1	1	14	1	2	1	4	7	35
Ground/Search/Ship lights	0	0	0	1	1	2	3	1	2	0	0	0	10
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	1	0	0	1	1	0	0	0	3
Photo flaw/Lens flare/Internal reflections	0	1	0	2	0	0	1	0	0	0	0	0	4
Flares/Fireworks/Pyrotechnics	0	0	0	0	4	0	1	0	0	0	0	0	5
Moon/Moon halo/Moon dog	0	0	0	1	1	0	6	0	0	0	0	0	8
Aurora	0	0	0	1	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	1	2	0	1	0	4
Wind blown/Falling objects	0	0	0	0	1	0	2	0	0	0	0	1	4
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	1	0	0	0	2
No Case file	0	0	1	1	2	12	25	13	8	0	2	1	65
Ground /sea object	0	0	0	0	1	0	0	0	0	0	0	0	1
Reflection in window	0	0	0	0	0	0	1	0	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	1	0	0	0	0	0	1
Weather	0	0	0	0	0	0	0	0	1	0	0	0	1
Other	0	0	0	0	0	1	2	1	1	0	0	1	6
Total	14	20	24	85	73	143	425	256	117	64	56	52	1329

1953

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	10	14	3	4	4	3	1	5	3	5	2	6	60
Unidentified	8	5	5	5	2	3	1	2	3	3	1	3	41
Venus	10	21	13	0	2	2	5	1	0	0	2	0	56
Stars/Planets/Comets	8	14	4	0	0	1	6	6	2	4	3	4	52
Aircraft	10	7	4	5	5	4	4	5	4	4	5	1	58
Balloon	5	10	8	2	5	5	16	4	3	8	7	5	78
Meteors	10	7	2	5	3	4	5	8	3	8	13	8	76
Birds/Insects	1	1	0	2	1	1	0	1	0	2	0	0	9
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	1	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	3	0	0	0	2	3	1	2	1	1	1	0	14
Clouds/Contrails	1	1	1	0	0	0	0	0	1	0	1	1	6
Radar Malfunction/ False Targets/ Weather returns	3	7	1	1	1	1	0	1	0	1	0	1	17
Ground/Search/Ship lights	0	1	1	1	0	2	1	0	1	1	0	0	8
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	1	0	0	0	1	0	0	0	0	0	2
Photo flaw/Lens flare/Internal reflections	0	0	1	0	0	0	0	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	0	0	0	0	0	0	0
Moon/Moon halo/Moon dog	0	1	0	0	0	1	0	1	0	0	0	0	3
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	1	0	2	0	1	0	2	0	0	6
Wind blown/Falling objects	0	0	0	0	0	0	1	0	0	0	0	0	1
Mirage	0	0	1	0	0	0	0	0	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	3	24	0	0	0	0	0	0	0	0	0	27
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	1	1
Weather	0	1	0	0	0	0	0	0	0	0	0	0	1
	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	69	93	69	26	25	32	42	37	22	39	35	30	519

1954

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	7	1	6	5	5	7	17	9	7	6	10	5	85
Unidentified	1	1	3	2	3	5	1	6	1	3	1	2	29
Venus	0	0	0	0	1	6	2	3	3	1	0	1	17
Stars/Planets/Comets	0	1	2	2	2	6	3	7	7	3	3	2	38
Aircraft	4	3	1	7	4	8	8	4	6	5	9	4	63

Balloon	5	9	5	4	5	8	6	4	7	3	10	5	71
Meteors	8	4	7	7	8	7	11	9	10	18	11	7	107
Birds/Insects	1	1	4	3	1	0	0	0	3	3	2	0	18
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	1	0	0	0	0	0	0	0	0	0	1
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	1	1	0	1	0	3	0	0	1	9
Clouds/Contrails	0	0	0	0	1	0	1	0	0	1	1	0	4
Radar Malfunction/ False Targets/ Weather returns	1	0	2	0	0	0	0	0	0	1	0	1	5
Ground/Search/Ship lights	2	0	0	1	0	1	2	0	1	2	0	0	9
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	1	1	1	1	0	1	0	0	0	0	5
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	0	0	0	0
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	1	0	0	0	1	0	2
Moon/Moon halo/Moon dog	2	0	0	0	0	2	0	0	1	0	0	0	5
Aurora	1	0	0	0	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	1	0	1	0	2	0	1	0	0	2	0	0	7
Wind blown/Falling objects	0	0	0	0	0	0	2	0	0	2	0	0	4
Mirage	0	0	0	0	0	1	0	0	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	1	0	0	1	0	0	2
No Case file	1	1	0	0	0	1	0	0	0	0	0	0	3
Ground /sea object	0	0	0	0	1	0	1	0	0	0	0	1	3
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	1	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	1	0	2	1	0	0	0	0	0	4
Total	35	21	34	34	35	55	59	43	49	51	48	30	494

1955

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	3	4	4	5	8	4	7	8	7	3	3	4	60
Unidentified	1	2	0	0	3	0	1	1	3	2	3	0	16
Venus	2	1	1	2	2	1	1	0	0	0	0	2	12
Stars/Planets/Comets	2	5	1	1	6	1	8	5	6	8	6	4	53
Aircraft	5	8	8	8	10	8	12	8	12	9	9	7	104
Balloon	4	4	7	6	7	14	16	14	12	10	2	1	97
Meteors	10	2	9	5	7	5	12	9	4	12	5	6	86
Birds/Insects	0	2	2	1	2	0	0	1	1	2	0	0	11
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination	1	0	2	2	2	4	2	8	0	2	0	0	23
Clouds/Contrails	0	1	0	0	1	0	0	0	0	0	0	1	3

Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	1	1	0	1	0	0	4
Ground/Search/Ship lights	2	1	2	1	1	1	1	0	3	0	0	0	12
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	3	0	0	0	0	0	0	0	3
Photo flaw/Lens flare/Internal reflections	0	1	0	0	0	0	0	0	0	0	0	0	1
Flares/Fireworks/Pyrotechnics	0	1	1	0	3	0	0	0	1	0	0	0	6
Moon/Moon halo/Moon dog	0	1	0	0	0	0	0	0	0	0	2	1	4
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	1	0	0	0	1	0	0	0	1	0	4
Wind blown/Falling objects	0	0	0	1	0	0	0	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	1	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	1	0	0	0	0	0	1	0	0	0	2
No Case file	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	1	0	1	0	0	0	0	0	0	2
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	0	0	0	1	0	1	0	0	0	4
Total	31	34	41	33	55	39	63	55	51	50	31	26	509

1956

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	6	6	8	2	4	5	11	15	8	8	11	1	85
Unidentified	0	1	0	0	0	1	0	2	1	0	1	1	7
Venus	6	6	9	11	9	1	5	7	5	0	2	1	62
Stars/Planets/Comets	4	3	9	2	1	4	7	49	18	7	10	3	117
Aircraft	7	10	5	6	7	17	16	19	17	9	12	6	131
Balloon	5	6	2	3	11	3	14	11	10	9	6	4	84
Meteors	9	5	6	6	3	7	8	11	7	13	15	9	99
Birds/Insects	0	0	1	1	4	0	1	2	0	3	0	0	12
Satellites	0	0	0	0	0	0	0	0	0	0	0	0	0
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	1	1
Hoax/Unreliable/ Psychological/ Hallucination	0	2	0	3	0	2	6	3	0	2	0	2	20
Clouds/Contrails	0	0	0	0	0	0	0	0	0	0	0	0	0
Radar Malfunction/ False Targets/ Weather returns	0	1	0	0	0	1	0	2	0	1	1	1	7
Ground/Search/Ship lights	0	1	0	0	1	1	2	1	0	0	0	1	7
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	0	0	1	0	0	1	2
Photo flaw/Lens flare/Internal reflections	0	0	0	0	1	0	0	1	1	1	0	0	4
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	2	0	0	0	0	2	4

Moon/Moon halo/Moon dog	1	0	1	0	0	0	0	1	2	0	0	1	6
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	1	0	0	0	1
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	0	0	1	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	1	0	0	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	1	0	0	0	0	0	0	0	0	0	0	1
Weather	1	0	0	0	0	0	0	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	39	42	41	34	41	42	72	125	71	53	58	35	653

1957

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	2	4	2	3	4	7	9	6	12	36	18	108
Unidentified	0	0	0	1	0	1	3	0	1	1	3	1	11
Venus	0	0	0	0	0	1	4	12	6	15	82	19	139
Stars/Planets/Comets	5	4	9	5	5	1	14	15	4	6	23	7	98
Aircraft	8	8	8	10	9	11	19	19	12	17	69	20	210
Balloon	4	5	7	6	6	9	11	11	7	12	18	14	110
Meteors	5	4	6	11	10	5	8	9	8	29	70	39	204
Birds/Insects	0	0	0	2	0	0	0	0	5	1	5	0	13
Satellites	0	0	0	0	0	0	0	0	0	2	4	1	7
Rockets/missiles	0	0	0	0	0	0	0	0	0	0	0	0	0
Hoax/Unreliable/ Psychological/ Hallucination	1	2	1	1	0	0	3	4	1	2	14	3	32
Clouds/Contrails	0	0	0	0	0	1	1	0	0	2	5	1	10
Radar Malfunction/ False Targets/ Weather returns	0	3	1	0	1	0	2	3	1	3	10	5	29
Ground/Search/Ship lights	0	1	2	0	0	0	1	0	1	2	3	0	10
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	1	0	0	0	1	1	3
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	1	0	1	0	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	1	2	0	0	0	0	0	1	1	5
Moon/Moon halo/Moon dog	0	0	0	1	1	0	1	0	1	1	4	3	12
Aurora	0	0	1	0	0	0	0	0	1	0	7	0	9
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	0	0	0	1	1
Wind blown/Falling objects	0	0	0	0	1	0	0	0	2	0	1	2	6
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	1	0	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	1	0	0	0	0	0	1	0	7	1	10

Ground /sea object	0	0	0	1	0	0	0	0	0	1	0	0	2
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	1	0	0	0	0	1
Total	28	29	40	41	38	33	76	83	59	106	363	137	1033

1958

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	4	11	5	5	1	6	10	3	6	2	2	60
Unidentified	0	0	1	1	0	2	0	0	2	2	1	0	9
Venus	5	0	1	2	0	1	2	3	1	0	0	0	15
Stars/Planets/Comets	2	2	2	4	4	4	4	4	16	4	4	3	53
Aircraft	15	5	4	10	7	6	11	16	10	12	7	4	107
Balloon	7	3	9	6	6	3	9	9	5	5	4	3	69
Meteors	18	18	12	19	10	13	17	24	13	17	12	13	186
Birds/Insects	2	1	0	0	0	0	1	2	0	3	0	1	10
Satellites	0	0	0	0	0	1	6	6	2	1	1	0	17
Rockets/missiles	1	0	0	0	1	0	2	1	0	0	0	1	6
Hoax/Unreliable/ Psychological/ Hallucination	3	1	1	0	0	0	1	3	3	3	1	4	20
Clouds/Contrails	2	2	1	2	0	0	1	2	0	0	1	2	13
Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	0	0	0	0	0	0	1
Ground/Search/Ship lights	0	1	0	1	0	0	0	1	1	0	0	0	4
Satellite decay	0	0	0	2	0	0	0	0	0	0	0	0	2
Physical Specimen	1	1	1	2	1	1	0	1	0	1	0	1	10
Photo flaw/Lens flare/Internal reflections	0	0	0	0	1	1	1	1	1	1	0	1	7
Flares/Fireworks/Pyrotechnics	0	1	0	0	1	0	0	0	0	0	0	0	2
Moon/Moon halo/Moon dog	0	0	0	2	0	0	1	0	0	1	0	0	4
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	0	1	2	1	0	0	5
Wind blown/Falling objects	0	0	1	1	2	0	1	1	0	1	0	0	7
Mirage	0	0	0	0	1	0	0	0	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	2	0	0	0	0	0	0	1	0	0	0	3
No Case file	0	0	1	1	1	3	0	0	4	6	0	2	18
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	1	0	0	0	1
Other	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	61	41	46	58	40	37	63	85	66	64	33	37	631

1959

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	4	5	4	6	3	2	4	2	3	3	0	38
Unidentified	0	1	1	0	0	1	2	1	1	2	1	0	10
Venus	4	2	1	1	1	2	4	0	3	8	3	0	29
Stars/Planets/Comets	3	4	4	0	0	2	1	1	8	7	1	0	31
Aircraft	9	8	6	36	4	13	14	8	5	2	2	3	110
Balloon	0	4	1	5	2	2	2	5	3	2	3	2	31
Meteors	10	9	10	9	10	11	5	11	10	13	10	3	111
Birds/Insects	0	0	1	0	0	0	0	1	2	0	2	0	6
Satellites	0	1	0	0	0	0	0	1	0	0	0	0	2
Rockets/missiles	2	0	0	0	0	0	2	2	3	4	1	1	15
Hoax/Unreliable/ Psychological/ Hallucination	1	0	0	0	1	0	2	0	3	5	0	0	12
Clouds/Contrails	0	1	0	0	0	0	2	0	0	1	0	0	4
Radar Malfunction/ False Targets/ Weather returns	0	0	1	1	1	0	0	1	2	2	0	0	8
Ground/Search/Ship lights	0	1	1	3	1	0	3	0	0	0	0	0	9
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	0	0	2	1	0	1	0	0	4
Photo flaw/Lens flare/Internal reflections	0	0	1	0	1	1	0	0	1	0	0	0	4
Flares/Fireworks/Pyrotechnics	0	1	0	0	1	0	0	0	0	0	0	0	2
Moon/Moon halo/Moon dog	1	0	0	0	1	0	0	1	0	0	0	0	3
Aurora	0	0	0	1	0	0	0	0	0	0	0	0	1
Sun/Sun reflection/Parahelia	2	0	1	0	0	0	1	0	0	0	0	1	5
Wind blown/Falling objects	0	0	0	0	1	0	0	0	0	1	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	1	0	0	0	0	0	0	0	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	1	0	0	0	0	1	1	0	0	0	3
Ground /sea object	0	0	0	0	0	1	1	0	0	0	0	0	2
Reflection in window	0	1	0	0	0	0	0	0	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	1	0	0	0	0	0	0	0	0	0	1
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	34	37	36	60	30	36	43	38	44	51	26	11	446

1960

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	0	0	5	5	4	4	5	5	3	3	2	6	42
Unidentified	0	0	1	2	0	0	2	2	0	0	1	0	8
Venus	1	0	0	0	0	1	0	0	3	2	1	2	10
Stars/Planets/Comets	0	1	0	0	6	1	9	9	19	3	7	4	59
Aircraft	2	3	2	6	5	6	8	10	14	10	5	3	74
Balloon	0	1	1	1	7	3	4	1	1	5	1	0	25

Meteors	9	10	12	19	12	19	25	16	44	19	10	19	214
Birds/Insects	0	1	0	2	0	1	2	2	4	2	0	0	14
Satellites	0	0	0	0	0	1	0	10	9	2	3	9	34
Rockets/missiles	3	3	0	0	0	2	2	1	2	2	1	0	16
Hoax/Unreliable/ Psychological/ Hallucination	3	1	0	0	3	2	1	1	2	2	0	0	15
Clouds/Contrails	1	0	1	0	1	0	0	1	0	2	1	2	9
Radar Malfunction/ False Targets/ Weather returns	1	0	0	0	0	0	0	0	1	0	0	0	2
Ground/Search/Ship lights	0	0	0	0	0	0	0	1	0	1	1	3	6
Satellite decay	0	0	1	0	0	0	0	0	1	0	0	0	2
Physical Specimen	0	1	0	0	1	1	0	2	1	1	1	0	8
Photo flaw/Lens flare/Internal reflec- tions	0	1	0	1	1	2	0	0	0	0	0	1	6
Flares/Fireworks/Pyrotechnics	2	0	0	0	0	0	0	1	1	0	0	0	4
Moon/Moon halo/Moon dog	0	0	0	0	1	0	1	1	0	0	0	0	3
Aurora	0	0	0	0	0	0	0	0	1	0	0	1	2
Sun/Sun reflection/Parahelia	0	1	0	2	0	1	1	0	0	0	0	1	6
Wind blown/Falling objects	0	0	1	1	1	0	0	1	1	1	0	0	6
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	1	0	0	0	0	0	1	0	1	0	0	0	3
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	1	0	0	1	0	0	3	0	0	0	5
Other	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	23	23	25	39	42	46	61	64	111	55	34	51	574

1961

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	6	8	3	5	3	6	7	2	6	10	5	1	62
Unidentified	1	0	0	0	0	0	3	1	0	0	0	1	6
Venus	5	13	6	0	4	6	3	1	2	0	1	0	41
Stars/Planets/Comets	4	4	1	0	8	6	5	5	16	2	1	2	54
Aircraft	9	4	6	5	10	10	7	13	6	8	7	2	87
Balloon	0	1	2	3	4	1	7	9	6	2	2	0	37
Meteors	17	15	18	9	6	7	13	7	12	10	12	5	131
Birds/Insects	0	0	1	0	1	1	0	2	1	2	0	0	8
Satellites	3	7	5	5	19	4	16	12	1	1	8	6	87
Rockets/missiles	2	2	0	0	0	0	0	1	2	0	2	1	10
Hoax/Unreliable/ Psychological/ Hallucination	0	0	2	2	1	0	0	3	1	0	1	0	10
Clouds/Contrails	2	1	0	0	1	1	2	1	4	3	0	1	16

Radar Malfunction/ False Targets/ Weather returns	0	1	1	0	2	1	0	0	0	0	0	0	5
Ground/Search/Ship lights	0	0	0	0	0	0	1	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	1	1	0	0	0	0	1	0	0	1	0	4
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	1	0	1	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	3	0	1	0	0	0	4
Moon/Moon halo/Moon dog	1	0	0	0	1	1	0	0	0	0	0	1	4
Aurora	0	0	0	0	0	0	0	0	1	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	1	0	2	1	0	0	5
Wind blown/Falling objects	0	1	0	0	0	1	0	0	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	1	0	0	0	0	0	0	0	0	0	0	1
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	1	1	2	0	2	2	4	3	0	0	0	15
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	1	0	0	0	0	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	50	60	48	31	60	48	70	63	64	40	40	20	594

1962

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	1	1	4	4	3	7	4	8	5	4	1	44
Unidentified	0	1	3	0	0	1	1	1	2	1	1	0	11
Venus	0	1	0	5	4	3	1	3	1	2	1	2	23
Stars/Planets/Comets	1	0	1	2	4	4	3	8	0	1	1	1	26
Aircraft	4	1	8	2	7	4	16	9	15	8	6	4	84
Balloon	2	0	0	3	2	2	2	0	1	2	1	1	16
Meteors	8	11	2	10	14	8	10	11	12	9	10	6	111
Birds/Insects	2	0	2	0	1	0	1	1	0	0	0	0	7
Satellites	5	7	2	16	5	4	20	8	3	8	3	4	85
Rockets/missiles	1	0	0	0	0	0	0	0	2	2	2	1	8
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	1	1	2	3	1	5	0	1	1	17
Clouds/Contrails	0	0	1	2	0	0	0	3	0	0	3	0	9
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	0	0	1	1	0	0	0	0	0	1	3
Satellite decay	0	0	0	0	0	0	1	1	1	0	0	0	3
Physical Specimen	0	2	0	3	1	0	0	4	8	4	1	0	23
Photo flaw/Lens flare/Internal reflections	0	0	0	0	0	0	0	0	0	1	0	0	1
Flares/Fireworks/Pyrotechnics	0	0	0	0	1	0	0	0	0	0	0	0	1

Moon/Moon halo/Moon dog	0	0	1	0	1	1	0	0	0	2	0	0	5
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	1	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	0	0	0	0	0	0	0	0	0	0	0	0
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	1	0	0	1
No Case file	0	0	1	0	1	0	0	0	0	0	0	1	3
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	26	24	24	48	48	33	65	54	58	46	34	23	483

1963

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	1	1	2	5	3	9	2	7	4	6	1	3	44
Unidentified	0	0	0	0	2	0	0	1	1	2	0	1	7
Venus	0	1	0	0	0	0	0	0	0	0	0	0	1
Stars/Planets/Comets	3	1	0	0	0	3	4	8	6	3	1	0	29
Aircraft	5	3	2	6	7	13	10	17	9	10	5	2	89
Balloon	0	0	1	1	2	5	6	4	1	1	0	1	22
Meteors	4	4	10	3	5	3	7	7	9	8	8	8	76
Birds/Insects	0	0	1	0	0	0	0	0	0	0	0	1	2
Satellites	4	4	7	9	1	32	10	3	12	3	2	3	90
Rockets/missiles	0	0	3	0	1	1	2	0	2	1	3	0	13
Hoax/Unreliable/ Psychological/ Hallucination	0	0	3	1	1	3	2	1	0	1	2	1	15
Clouds/Contrails	0	2	0	0	1	0	0	0	1	1	0	1	6
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	1	0	0	0	0	0	0	0	1
Ground/Search/Ship lights	0	1	0	0	0	1	0	0	0	0	0	0	2
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	1	1
Physical Specimen	0	0	0	0	0	0	0	3	0	2	0	0	5
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	0	0	0	1	0	0	1	0	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	0	0	0	0	0	0	0
Moon/Moon halo/Moon dog	0	0	0	0	0	1	1	1	0	1	0	1	5
Aurora	0	0	0	0	0	0	0	0	1	0	0	0	1
Sun/Sun reflection/Parahelia	0	0	0	1	0	0	0	1	0	0	1	0	3
Wind blown/Falling objects	1	0	1	0	0	0	0	1	0	0	0	0	3
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	0	0	0	0	0	0	0	0	0	0	0

Ground /sea object	0	0	0	0	0	0	0	0	1	0	0	0	1
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	18	17	30	26	24	72	45	54	47	40	23	23	419

1964

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	1	3	4	10	5	7	8	5	2	6	1	54
Unidentified	0	0	0	3	2	1	3	3	0	0	0	0	12
Venus	1	4	4	2	11	0	1	2	2	1	0	0	28
Stars/Planets/Comets	1	7	0	1	2	2	8	8	5	4	1	1	40
Aircraft	1	5	3	6	15	9	18	11	5	2	11	2	88
Balloon	0	1	0	4	4	2	5	3	1	1	1	0	22
Meteors	8	7	1	6	7	8	15	13	9	4	14	4	96
Birds/Insects	0	0	0	1	1	0	2	1	2	0	2	0	9
Satellites	4	6	4	8	28	5	55	23	3	6	27	3	172
Rockets/missiles	1	1	1	2	0	0	1	0	1	0	0	0	7
Hoax/Unreliable/ Psychological/ Hallucination	1	0	1	5	3	5	1	2	4	3	0	1	26
Clouds/Contrails	0	1	0	0	0	1	0	0	0	0	1	1	4
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	1	0	0	0	0	2	3
Ground/Search/Ship lights	0	0	0	1	2	1	0	0	1	1	0	0	6
Satellite decay	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical Specimen	0	0	0	0	1	3	1	1	0	1	1	0	8
Photo flaw/Lens flare/Internal reflec- tions	0	0	1	0	1	1	0	0	0	2	0	0	5
Flares/Fireworks/Pyrotechnics	0	1	1	0	2	0	1	0	0	0	0	0	5
Moon/Moon halo/Moon dog	0	0	0	0	0	1	1	1	0	0	0	1	4
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	0	0	0	1	0	0	0	1
Wind blown/Falling objects	0	0	0	0	0	0	0	0	1	0	1	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	1	0	0	0	3	16	0	0	1	0	21
Ground /sea object	0	0	0	0	0	0	1	0	0	0	0	0	1
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	1	0	0	0	0	0	0	0	0	1
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	1	0	0	1	0	0	0	0	0	0	0	2
Total	19	35	20	44	90	44	124	92	40	27	66	16	617

1965

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	8	6	2	3	3	4	16	39	19	11	5	5	121
Unidentified	1	0	2	0	0	0	1	3	4	0	0	0	11
Venus	0	0	0	0	0	2	2	17	12	14	13	8	68
Stars/Planets/Comets	4	1	5	3	0	5	12	143	29	13	7	7	229
Aircraft	10	9	10	10	12	7	30	89	35	17	17	6	252
Balloon	3	2	1	3	1	3	6	12	4	8	1	2	46
Meteors	8	7	10	5	2	4	15	59	23	13	15	8	169
Birds/Insects	1	2	0	2	1	0	0	9	1	2	2	1	21
Satellites	7	5	8	7	16	5	51	76	62	10	0	4	251
Rockets/missiles	1	0	0	0	0	0	0	2	1	1	1	1	7
Hoax/Unreliable/ Psychological/ Hallucination	4	0	4	1	2	1	1	11	0	3	2	0	29
Clouds/Contrails	1	0	0	0	0	0	1	3	1	0	0	0	6
Radar Malfunction/ False Targets/ Weather returns	0	0	0	1	0	1	0	2	0	2	0	0	6
Ground/Search/Ship lights	1	1	0	0	0	0	1	2	2	0	1	0	8
Satellite decay	0	0	1	0	0	1	0	0	0	0	0	0	2
Physical Specimen	0	1	0	1	1	0	0	0	1	0	1	0	5
Photo flaw/Lens flare/Internal reflec- tions	0	0	1	1	1	1	3	5	1	0	1	0	14
Flares/Fireworks/Pyrotechnics	0	0	0	0	1	0	1	0	0	0	0	0	2
Moon/Moon halo/Moon dog	0	1	0	0	0	0	3	3	0	0	0	2	9
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	0	0	0	1	1	1	1	1	0	0	6
Wind blown/Falling objects	0	0	0	1	0	1	0	0	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	1	0	0	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	1	0	0	0	0	1
Anti-Aircraft/Gun fire/explosions	1	0	0	0	0	0	0	0	0	0	0	0	1
No Case file	0	0	0	0	0	0	2	32	1	1	0	0	36
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	1	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	1	0	0	1	0	2
Other	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	51	35	45	38	40	36	146	512	197	96	67	44	1307

1966

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	5	6	26	13	9	12	8	13	8	22	18	12	152
Unidentified	0	1	3	2	1	2	1	2	5	2	1	1	21
Venus	2	3	14	9	4	2	5	2	0	0	0	0	41
Stars/Planets/Comets	5	3	38	27	16	6	9	17	19	58	28	3	229
Aircraft	9	3	31	40	23	28	28	29	16	29	23	16	275
Balloon	0	0	4	7	4	2	9	6	3	5	4	2	46

Meteors	9	2	11	26	9	3	21	10	9	11	13	4	128
Birds/Insects	0	1	2	4	1	1	1	1	1	3	1	1	17
Satellites	7	0	32	7	23	40	16	27	6	18	6	3	185
Rockets/missiles	1	0	0	1	0	1	1	1	2	0	0	1	8
Hoax/Unreliable/ Psychological/ Hallucination	2	2	1	4	1	1	4	0	1	5	1	1	23
Clouds/Contrails	1	0	3	2	1	1	0	3	0	2	0	0	13
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	1	0	2	1	0	0	0	4
Ground/Search/Ship lights	0	0	2	4	2	1	2	1	0	2	0	1	15
Satellite decay	2	0	0	0	0	2	0	0	0	0	0	0	4
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflec- tions	0	0	2	1	1	1	1	1	1	0	0	0	8
Flares/Fireworks/Pyrotechnics	0	0	0	1	0	0	0	1	0	0	1	1	4
Moon/Moon halo/Moon dog	2	1	4	6	4	2	1	3	2	2	0	0	27
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	2	0	0	0	1	0	0	1	0	4
Wind blown/Falling objects	0	0	0	1	0	0	0	1	0	0	0	0	2
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	1	0	0	0	0	0	0	0	0	0	1
No Case file	0	0	1	1	9	1	2	1	1	0	1	0	17
Ground /sea object	0	0	0	0	0	0	1	0	0	0	0	0	1
Reflection in window	0	0	0	0	0	0	0	0	0	1	0	0	1
Swamp gas/Ground fires	0	0	1	0	0	0	0	0	0	1	0	0	2
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	1	0	0	0	1	0	2
Other	0	0	1	0	0	1	1	0	0	1	1	0	5
Total	45	22	177	158	108	108	112	122	75	162	100	46	1235

1967

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	14	16	22	22	13	10	17	10	12	6	7	9	158
Unidentified	0	3	7	1	1	2	1	0	0	1	0	0	16
Venus	0	15	27	10	9	5	6	0	1	2	3	1	79
Stars/Planets/Comets	13	18	22	7	7	9	4	4	9	2	12	4	111
Aircraft	21	28	39	20	24	14	12	6	7	15	13	5	204
Balloon	4	9	19	11	2	3	5	4	5	6	4	5	77
Meteors	5	4	8	8	3	5	5	3	6	2	2	2	53
Birds/Insects	1	1	0	2	0	0	0	0	1	4	2	0	11
Satellites	16	9	3	24	1	25	15	2	11	8	6	3	123
Rockets/missiles	2	0	1	1	0	0	0	3	1	1	0	0	9
Hoax/Unreliable/ Psychological/ Hallucination	4	3	5	8	5	2	8	4	6	7	3	2	57
Clouds/Contrails	1	1	4	0	0	0	1	0	0	0	1	1	9

Radar Malfunction/ False Targets/ Weather returns	0	0	1	0	0	0	0	0	1	1	0	0	3
Ground/Search/Ship lights	1	1	3	1	0	0	0	1	0	1	1	1	10
Satellite decay	3	1	0	0	0	0	0	0	0	0	0	0	4
Physical Specimen	0	0	1	0	1	0	0	1	3	0	0	0	6
Photo flaw/Lens flare/Internal reflections	1	0	1	1	2	2	0	3	2	1	0	0	13
Flares/Fireworks/Pyrotechnics	0	0	1	1	0	0	0	0	0	0	1	0	3
Moon/Moon halo/Moon dog	1	3	1	2	2	0	1	0	0	0	1	0	11
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	0	0	0	0	0	0	1
Wind blown/Falling objects	1	0	2	0	0	0	0	1	0	0	0	0	4
Mirage	0	0	0	0	0	0	0	0	0	1	0	0	1
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	2	4	7	9	1	1	4	4	11	11	6	1	61
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	1	0	0	0	0	0	0	0	0	0	1
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	1	0	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	90	116	175	128	71	80	79	46	76	69	62	34	1026

1968

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	2	2	16	2	4	3	9	9	11	8	1	1	68
Unidentified	0	1	0	0	0	1	0	0	1	1	1	0	5
Venus	0	2	1	0	0	0	0	0	0	3	2	4	12
Stars/Planets/Comets	6	5	6	7	2	1	0	6	6	5	1	1	46
Aircraft	6	5	13	8	3	10	7	5	4	7	3	4	75
Balloon	4	4	2	2	2	3	4	5	6	3	4	4	43
Meteors	2	1	0	6	1	1	3	1	0	1	2	0	18
Birds/Insects	0	0	0	0	0	0	1	0	0	0	0	0	1
Satellites	0	6	3	7	0	4	16	8	1	0	5	2	52
Rockets/missiles	0	0	1	0	0	0	0	1	1	0	0	0	3
Hoax/Unreliable/ Psychological/ Hallucination	3	1	4	0	1	2	4	4	2	3	2	0	26
Clouds/Contrails	0	0	0	0	0	0	0	1	0	0	0	0	1
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	1	0	0	0	0	0	1
Ground/Search/Ship lights	1	0	0	0	0	0	0	0	0	0	2	0	3
Satellite decay	0	0	2	0	0	0	0	0	0	0	0	0	2
Physical Specimen	0	0	0	1	0	0	1	0	0	0	0	0	2
Photo flaw/Lens flare/Internal reflections	0	0	0	0	1	0	0	0	0	0	1	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	1	0	0	0	0	0	0	1

Moon/Moon halo/Moon dog	0	0	0	1	0	0	2	2	0	0	0	1	6
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	0	0	0	0	0	1	0	0	0	0	0	0	1
Wind blown/Falling objects	0	0	0	0	0	0	1	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	2	1	6	4	2	3	4	6	3	0	1	0	32
Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	1	0	0	0	0	0	1
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	26	28	54	38	16	30	54	48	35	31	25	17	402

1969

Classification	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Insufficient/Conflicting information	4	7	0	2	1	3	0	3	2	3	0	1	26
Unidentified	1	0	0	0	0	0	0	0	0	0	0	0	1
Venus	3	1	3	0	0	0	0	0	1	1	0	0	9
Stars/Planets/Comets	4	1	3	1	4	1	2	6	1	3	0	0	26
Aircraft	3	6	4	1	1	1	1	1	2	4	2	1	27
Balloon	1	1	0	4	0	0	2	2	0	2	1	0	13
Meteors	1	3	2	0	2	2	0	4	0	1	0	1	16
Birds/Insects	0	0	0	0	0	0	0	0	0	0	0	0	0
Satellites	0	3	0	0	0	1	1	1	0	0	0	0	6
Rockets/missiles	0	0	0	0	0	0	0	0	1	1	0	0	2
Hoax/Unreliable/ Psychological/ Hallucination	2	0	1	0	1	0	1	0	0	0	0	0	5
Clouds/Contrails	0	0	0	0	0	0	0	0	0	0	0	0	0
Radar Malfunction/ False Targets/ Weather returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground/Search/Ship lights	0	0	1	0	0	0	0	0	0	0	0	0	1
Satellite decay	0	0	0	0	0	0	0	1	0	0	0	0	1
Physical Specimen	0	0	0	0	0	0	0	0	0	0	0	0	0
Photo flaw/Lens flare/Internal reflec- tions	0	0	0	1	0	0	0	0	0	0	1	0	2
Flares/Fireworks/Pyrotechnics	0	0	0	0	0	0	0	0	0	0	0	0	0
Moon/Moon halo/Moon dog	0	0	0	0	0	0	0	1	0	0	0	0	1
Aurora	0	0	0	0	0	0	0	0	0	0	0	0	0
Sun/Sun reflection/Parahelia	1	0	0	0	0	0	0	0	0	0	0	0	1
Wind blown/Falling objects	0	1	0	0	0	0	0	0	0	0	0	0	1
Mirage	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Malfunction	0	0	0	0	0	0	0	0	0	0	0	0	0
Anti-Aircraft/Gun fire/explosions	0	0	0	0	0	0	0	0	0	0	0	0	0
No Case file	0	0	0	1	1	2	4	4	1	0	0	0	13

Ground /sea object	0	0	0	0	0	0	0	0	0	0	0	0	0
Reflection in window	0	0	0	0	0	0	0	0	0	0	0	0	0
Swamp gas/Ground fires	0	0	0	0	0	0	0	0	0	0	0	0	0
Aerial Strobe/flash	0	0	0	0	0	0	0	0	0	0	0	0	0
Weather	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	20	23	14	10	10	10	11	23	8	15	4	3	151

Difference between Blue Book raw data and reevaluations

This is a snapshot showing the differences between the way Blue Book evaluated the data and the way I evaluated it. The biggest change was that I reduced the number of insufficient data sightings and unidentifieds. Many of those sightings ended up in the astronomical (Venus/stars/planets/meteors/moon) and satellite classifications.

Classification	Blue Book raw total	Blue Book raw %	Reevaluation total	Reevaluation %
Insufficient	2575	19.76	1506	11.20
Unidentified	596	4.57	419	3.12
Venus	535	4.11	692	5.14
stars/Planets	944	7.24	1438	10.69
Aircraft	2305	17.69	2376	17.67
Balloon	1240	9.52	1235	9.18
Meteors	1927	14.79	2384	17.73
Birds/insects	115	0.88	288	2.14
Satellites	836	6.42	1111	8.26
Rockets/missiles	117	0.9	110	0.82
Hoax/psychological/unreliable	374	2.87	418	3.11
Clouds/Contrail	98	0.75	169	1.26
Radar malf/false targets	136	1.04	151	1.12
Ground/search lights	148	1.14	134	1
Satellite decay	45	0.35	21	0.16
Phys spec	90	0.69	99	0.74
Photo flaw/lens reflection	88	0.68	84	0.62
Flares/Fireworks	81	0.62	60	0.45
Moon/moon halo	71	0.54	129	0.96
Aurora	21	0.16	18	0.13
Sun/Solar reflection	114	0.87	74	0.55
Wind Blown/falling debris	71	0.54	57	0.42
Mirage	28	0.21	8	0.06
Equip Malf	2	0.02	6	0.04
AA gun fire/explosion	20	0.15	14	0.1
No classification/No case file	342	2.62	376	2.8
Ground/sea object	14	0.11	13	0.1
Window reflection	3	0.02	5	0.04
Swamp gas/Ground fire	5	0.04	4	0.03
Aerial strobe/flash	5	0.04	4	0.03
Weather/atmospheric	47	0.36	18	0.13
Other	39	0.3	28	0.21
Total	13032	100	13449	100.01

THE 701 CLUB

This is the listing of all the cases I examined in the 701/701 club articles/Blue Book reviews and the results of those examinations. The total number of unknowns as stated by Blue Book was 701 but that number was actually much lower depending on who counted and how it was counted as I discussed in SUNlite 17-3. I currently list 620 unidentified cases (explained and unexplained) and 650 unidentified sightings (explained and unexplained) that were in the Blue Book files. One might a difference in the totals but one case (8/18/64) appears in both lists, which explains why the totals may appear off. In this issue, I addressed quite a few cases that needed to be removed from the list of unidentifieds. I also renumbered the events to include the number of sightings and not the number of cases. This is for evaluating the statistics associated with these cases. While the total number of sightings is 213, the number of cases is 202.

No.	Date	Location	Description	Explanation	Issue
1	9/3/47	Oswega, OR	12:15 PM PDT. 12-15 silver objects at high altitude. No other information.	Insufficient information	17-2
2	Oct 47	Dodgeville, WI	No specific data	Insufficient information	17-2
3	10/14/47	Phoenix, AZ	12:00 PM MST Visible 45-60 seconds. Red against blue sky. Black against clouds. NW to SE course. Resembled a flying wing.	Possible bird	SE2
4	Jul-Aug 48	Marion, VA	Reported in Letter June 25, 1949.	Unreliable report	17-2
5	9/23/48	San Pablo, CA	12:00 PM. Large translucent object overhead. Hazy day. Object gray in color. Circular center with appendages fore and aft. Other witness stated it looked like a crate. First witness stated it appeared in NE, moved Northwestward until it faded away in the north in 3 minutes. Other witness stated it disappeared in east and was visible only for a short period of time.	Conflicting data	17-2
6	1/4/49	Hickam AFB, HI	2:00 PM HST. Round white flat piece of cardboard that circled area and disappeared to NE after 15 minutes.	Possible Balloon	13-1
7	2/25/50	Los Alamos, NM	3:45 - 3:55 PM Multiple observers gave varying accounts of what was seen. Duration listed as 3sec to 2 min. Direction of object from observer N to S, NE to SW, E to W. Speed from very slow to very fast. Shape differed between circular to like an aircraft fuselage.	Conflicting data	17-2
8	3/20/50	Stuggart, AR	9:26 PM CST. Disc-shaped object with flashing light on top and 9-12 portholes beneath. Heading S to N. Visible 25-35 seconds.	Possible meteor	10-2
9	3/28/50	Santiago, Chile	3:15 PM. Between 1:10PM and 2:40PM, population was observing disc. SGT from embassy went onto roof and observed for one hour with binoculars and saw nothing until he saw object that moved from S to N in 5-10 seconds.	Possible meteor	SE1
10	3/29/50	Marrowbone Lake, TN	7:00 AM CST. Witness, fishing on lake, saw 6-12 black, round objects appear from SE and circled hills in the west.	Possible Birds	SE2
11	8/20/50	Nicosia, Cyprus	1:30 PM. Brilliantly lit round or elliptically shaped object going from overhead to the west. Duration 15-20 seconds. Disappeared 30-35 degrees above horizon.	Possible meteor	SE1
12	9/20/50	Kit Carson, CO	10:49 AM/PM MST. (Time listed as 10:49 local time with no designation of AM or PM). Five fireballs that looked like glowing molten metal, going from north to south and hovered before disappearing. Duration 1 minute. Note: On this date at bright fireball was seen over the region at 10:45 PM MST.	Possible meteor	16-5

13	10/10/50	Pope AFB, NC	4:20 PM EST. Aircraft saw four shiny objects. Pilots chased them but they descended slowly and took off in a burst of speed. Information based on newspaper clipping and essential data is missing such as duration and course.	Insufficient information	17-2
14	12/2/50	Nenyika, Kenya, Africa	10:50 AM. Circular object hovering and spinning. Made sound like swarm of bees. Had color of a pearly iridescence and looked like a flattened top. No positional data, duration, or manner of disappearance.	Insufficient information	17-2
15	12/11/50	Alaska	10:38 PM. NW airlines flight reported two flashes of light near Mt. Sanford. Information of two flashes of light is inadequate to evaluate.	Insufficient information	17-2
16	1/8/51	South of Fort Worth, TX	11:45 PM. Group of three triangular objects each with one red and two green lights over highway. Another group to east and another group to west. . Lights over highway moving northward towards Fort Worth. Sounded like out-board motor trolling. Visible 5 minutes.	Probable aircraft	SE2
17	1/12/51	Ft. Benning, GA	11:01 AM. Very bright star-like object almost overhead. Hovered for 20 minutes. Departed at high speed towards the SE leaving a fan shaped wake.	Possible bursting balloon	SE1
18	2/26/51	Durban, South Africa	4:55 AM. Red torpedo shaped object traveling towards the bluff parallel to the ground. Visible for about a minute.	Possible meteor	SE1
19	3/10/51	Chinnampo, Korea	12:51AM LT. Brilliant flash seen lasting about 1 second.	Possible meteor/Flash bomb	15-2
20	6/1/51	Niagara Falls, NY	4:20 AM EST. Orange-yellow saucer-shaped object with arc-shaped wings seen at 80 degrees azimuth and 20 degrees elevation. After 30-40 seconds, the object disappeared into the clouds.	Probable moon	16-3
21	7/24/51	Portsmouth, NH	7:10 PM EST. Gray tubular object, with many black spots, flew for 20 (second witness states 5-10) seconds before disappearing.	Possible meteor	12-4
22	8/25/51	Albuquerque, NM	9:58 PM. Large object, like a flying wing, flew over in SSE direction. Glowing white lights with black strips on bottom of wings. Visible about 30 seconds.	Possible birds	SE1
23	10/2/51	Columbus, OH	6:00 PM. Saw a flash to the west. Glowing orange faded and diminished in size over a period of a minute.	Possible aircraft	SE2
24	10/9/51	Terra Haute, IN	1:42 PM. Silver object seen overhead that flew a straight path towards SE horizon in 15 seconds.	Possible meteor	SE1
25-26	11/18/51	Washington DC	3:20 AM EST. Strange object following Pilot airplane (DC-4) for about 20 miles at 8000 ft and turned back. Other lights seen.	Possibly Venus/Saturn and Possible Meteor/Insufficient information	6-5
27	11/24/51	Mankato, MN	3:53 PM. Flight of two F-51 aircraft, flying west, observed a saw a small white object shaped like a flying wing that was traveling eastward. Visible only 5 seconds. Only one pilot of flight observed object. A 180 degree turn by the flight failed to locate the object.	Possible balloon	SE1
28	12/7/51	Sunbury, OH	4:30 PM EST. Spherical object seen in telescope. Two objects appeared on sides and then object exploded into many specks. 30 minute duration.	Probable weather balloon	9-6
29	2/11/52	Pittsburgh, PA	3:00 AM EST. Object traveled from N to SE in one minute.	Probable meteor	8-1
30	3/20/52	Centreville, MD	10:42 PM EST. Orange-yellow saucer-shaped light went from SW to SE for approximately 30 seconds. During its flight the object "jumped" 2 degrees twice.	Possible meteor	16-2

31	3/22/52	Yakima, WA	6:33 PM PST. F-94 sent to intercept radar contacts from ground station. Pilot saw brief flashes of light that were not seen by aircraft's radar or the radar operator. Ground station radar track appeared to drift with wind.	Insufficient data	16-5
32	4/5/52	Miami, FL	9:15 PM. Four circular dark shapes passed in front of the moon.	Possible birds	SE1
33	4/6/52	Temple, TX	2:59 PM. 50-75 objects in circular formation about the size of the moon moved from NNW to NE over a period of three and a half minutes. Every 12-15 seconds, the objects in formation would occasionally flash/tilt.	Possible birds	SE1
34	4/14/52	La Crosse, WI	12:35 PM. Several light colored objects in "V" formation heading NW.	Possible birds	SE2
35	4/15/52	Santa Cruz, CA	7:40 PM. 2 faint ovoid objects traveled from south to north in 6-8 seconds.	Possible birds	SE1
36	4/17/52	Longmeadow, MA	8:30 PM EST. Deep-orange colored, star-like object exhibiting erratic motion to the east for 40 minutes.	Probably Mars	6-2
37	4/17-8/52	Yuma Test Station, AZ	3:05 PM. Two sightings. 1. Circular object traveled from zenith to horizon in 7 seconds. Had an intermittent vapor trail. 2. No time listed. Erratic moving object traveling eastward seen through theodolite for 5-10 seconds.	1. Possible meteor 2. Insufficient data	SE1
38	4/18/52	Bethesda, MD	1:30 AM. V formation of 7-9 orange-yellow lights traveling south to north. Visible 4-8 seconds.	Possible birds	SE1
39	4/27/52	Yuma, AZ	8:30-10:30 PM. 7-8 objects seen going from NE to SW and emitting a fiery red glow over a two hour period.	Possible birds	SE1
40	4/29/52	Goodland, KS	10:00 PM CST. One white fan-shaped object passed over aircraft in 2 seconds.	Probable meteor	8-2
41-42	5/1/52	George AFB, CA	10:50 AM. Five elliptical objects seen moving from the southeast towards the north for 30 seconds. One object moving eastward for 15 seconds.	Possible birds and daylight meteor.	SE1
43	5/9/52	George AFB, CA	5:20 PM Arrow shaped object flying straight and level for 10 seconds. Disappeared in the south.	Possible daylight meteor	SE1
44	5/10/52	Ellenton, SC	10:45 PM EST - 11:15 PM EST. Eight gold objects seen at various times. Seven of the eight came from the south and were going north. The other one came from the NE and went to the SW. All objects were only visible for a few seconds.	Possible birds	15-3
45	5/25/52	Walnut Lake, MI	9:52 PM EST. Moon shaped object. White to orange color. Drifting slowly west and northward.	Probable Moon	7-2
46	5/29/52	San Antonio, TX	7:00 PM CST. Bright tube-shaped object shifted from horizontal to vertical over 8 minutes. It then repeated the cycle by going back to horizontal and then vertical again. It turned to red-orange color and disappeared. Total duration 14 minutes.	Possible Contrail/Sun Dog	9-3
47	6/2/52	Fulda, Germany	No time. RB-26C on recon mission towards the SSW saw a round object moving towards the NNE	Possible balloon	8-3
48	6/2/52	Bayview, WA	5:02 PM. Purple object seen at high altitude. There is no positional data, duration, or manner of disappearance.	Insufficient information	17-2
49	6/5/52	Albuquerque, NM	6:45 PM. One round object flying from nearly overhead towards the northern horizon in 7 seconds.	Possible daylight meteor	SE2
50	6/9/52	Minneapolis, MN	Case missing	No case file	SE2
51	6/12/52	Fort Smith, AR	7:30 PM. Glowing object sighted traveling from the north to the west leaving a trail behind it. Observed for approximately 20 minutes.	Possible contrail	SE1

52	6/16/52	Walker AFB, NM	8:30 PM. 5-6 objects in formation moving from south to north in less than a minute.	Possible birds	SE1
53	6/17/52	Cape Cod, MA	1:28 AM. Pilot sighted bright star-like object moved from SSE to SSW and faded from view after 15 seconds.	Possible meteor	SE1
54	6/18/52	Walnut Lake, MI	10:00 PM EST. An orange light was observed zig-zagging and hovering. No duration given.	Probably stars/planets	7-2
55	6/18/52	Columbus, WI	9:00 AM. Crescent-shaped object, resembling a new moon, seen for several seconds and then moved north vanishing. No positional data for when the object was first seen. Insufficient data (note: there was a crescent moon visible in the morning sky that could have been the source of this sighting but without positional data one cannot say).	Insufficient information	17-2
56	6/21/52	Kelly AFB, TX	12:30 PM. Arrow-shaped object with oval trailing edge and trailing red sparks made a vertical descent off of the right wing of B-29. Seen for 1 second.	Possible meteor	SE1
57	6/23/52	Oak Ridge, TN	3:30 AM. Dark gun metal object with burnt-orange exhaust going from the SW horizon to the zenith in 30-60 seconds. Appeared and disappeared suddenly.	Possible meteor	SE1
58	6/25/52	Chicago, IL	8:30 PM - 10:00 PM. One Bright yellow to white light with occasional red tail traveling in large continuous circle at slow speed. One observer stated it was to the west. Another observer stated it was to the NW. Object disappeared to SW.	Possible aircraft	SE1
59-60	6/25/52	Tokyo, Japan	June 6 11:23AM JT: Ground observer saw dull silver coin-shaped object spinning in CW direction. Approached K14 from north at estimated speed of 300 knots, paused and then rose straight up in 6 seconds and disappeared into the sun. Total duration appears to have been about 25 seconds. Another, or same, object was observed by a second person a few seconds later. It traveled S to N at a 45 degree angle for 3 seconds, paused, and then reversed direction passing in front of the sun on both occasions. June 23 06:08AM JT: Pilot saw black object at 12,000 foot altitude descending irregularly to 6,000 feet, where it flew for 6 or 7 seconds before vanishing into clouds. Passed within 1500 feet of pilot's aircraft. Estimated size to be 15-20 feet. Estimated speed to be 250 mph.	June 6: Possible balloon June 23: Possible bird	SE2
61-62	6/25/52	Japan/Korea	Collection of 15 radar reports. Two are reclassified: 4/18/52 - Tsushima Island, Japan. Radar contact. April-May 51 - CV-47 and CV-37 off coast of South Korea reported radar contacts	April 18: Duplicate entry. Apr-May 51: Insufficient data.	SE2
63	6/26/52	Pottstown, PA	10:00 - 10:30 PM. Five objects flying a course of 120 degrees. Two pairs separated by 15 minutes followed by a single object which was also separated from the second pair by 15 minutes. One light in each pair was a steady light the other was flashing. The last light was flashing. Estimated speeds were 150-250 mph.	Possible aircraft	SE1
64	6/26/52	Terra Haute, IN	3:45 AM. Object passed over and reached SW position, where it hovered. No duration listed.	Insufficient information	17-2
65	7/3/52	Selfridge AFB, MI	4:15 AM. Two circular objects traveling east for 7 seconds.	Duplicate of August 3, 1952 Manitou Beach sighting. Meteors	SE1

66	7/3/52	Chicago, IL	(Actual date June 28) 11:50 PM CDT. Two bright green objects traveling west leaving trails. Viewed through a window. Visible for 5-6 seconds.	Probable meteor	SE1
67	7/5/52	Norman, OK	7:58 PM CST. Pilot flying NNW saw three dark objects distant and stationary that disappeared after 15 seconds.	Possible clouds	SE2
68-69	7/6-12/52	Governor's island, NY	11:00 PM EST. Photographs showing objects that were not seen visually when photographs were taken.	Internal reflection of moon in two photographs/Insufficient data	9-4
70	7/16/52	Salem, MA	9:35 AM EST. Alpert UFO photographs of four lights hovering outside a window.	Window reflection	11-4
72	7/17/52	Lockbourne, OH	1:00 - 4:00 AM EST. A circular-shaped object remained stationary for long periods of time visible in the east. Seen on multiple nights in same location and at same time.	Probably Jupiter	7-3
73	7/17/52	Rapid City, SD	10:00 PM. 12-14 orange-colored discs in two V-shaped formations traveling towards the east. Visible for 5-6 seconds.	Possible birds	SE1
74-76	7/18/52	Patrick AFB, FL	9:45-10:30 PM. Multiple objects sighted. Two objects traveling at high speed from east to west. One object came from the south at slow speed, stop, and reverse its direction. A fourth object came from the west, approached the field and made a 180 degree turn to return to its original position.	1. Mars 2. Meteor 3. Meteor 4. Arcturus	SE2
77	7/19/52	Williston, ND	2:55 AM CST. Elliptical-shaped object with fringe similar to eclipse to NE approached witness. Object performed 360 degree turn and then 180 degree turn. Disappeared in NE. Light reflected on cloud bank to north. Duration 5 minutes.	Possible moon	SE1
78-79	7/21/52	San Marcos AFB, TX	10:40 PM CST. Five of six witnesses observed an object moving very fast for up to 10 seconds duration. Sixth witness described slow moving object with no details.	Probable meteor/ Insufficient data	17-1
80	7/21/52	Holyoke, MA	(Actual date 7/22/52) Shortly after midnight. Orange-Yellow round object flashed downward from west to NW. Duration described as being only long enough for other witnesses to see it once the primary witness saw it and alerted the others.	Possible meteor	SE1
81	7/22/52	Stafford, WA	It is possible this was a reflection off of cirrus clouds. Pilots saw object in direction opposite of sun and they never caught up to it before it faded.	Reflection	16-6
82	7/23/52	Pottstown, PA	1340Z Pear-shaped object with two or three square shaped objects hanging beneath it on a cable moving west. Visible 35-40 minutes by F94 aircraft. Small object circling main object for 1-4 minutes.	Possible balloon	SE1
83	7/23/52	Altoona, PA	12:50 PM EDT. Three UFOs stacked vertically visible for 20 minutes seen by two F-94 aircraft. No indication of what happened after 20 minutes.	Possible balloon	SE1
84	7/23/52	Trenton, NJ	0350Z - 0545Z. 14 different visual sightings and one radar sighting by two F-94 aircraft. Sightings involved rapidly moving bluish-white lights.	Insufficient information	SE2
85	7/26/52	Kansas City, MO	12:15 AM CST. A greenish light with red and orange flashes descending from 40 to 10 degrees elevation in the NW over an hour.	Possibly Arcturus	5-3
86	7/26/52	Kirtland AFB, NM	12:05 AM. Eight to ten orange colored lights in a triangular formation, to the north, traveled rapidly from west to east. Visible for 3-4 seconds.	Possible birds	SE1

87-92	7/26/52	Washington, DC/Andrews AFB (3 cases)	Multiple sightings and radar targets. Temperature inversion present. See Condon report for analysis.	Anomalous propagation/misperceived objects	16-6
93	7/27/52	Wilmington, DE	7:00 PM EDT. Gray cylinder with domed top moving SE. Visible 90 seconds. Winds from WNW-NW above 1000m @10-20 knots. Possible balloon.	Possible Balloon	16-6
94	7/28/52	McChord AFB, WA	2:15 AM PDT. A dull bluish-green ball of light flew very fast and straight. No duration or direction given.	Possible meteor	15-4
95-96	7/29/52	Albuquerque, NM	11:00 PM MST. Yellow-orange circular shape seen at azimuth 240 degrees. Disappeared after 10 minutes. Continental radar station had radar contact and saw light in the west moving north. The radar contact was unrelated to the visual sighting and the light described had insufficient information for identification.	Possible moon/insufficient information.	16-6
97	7/30/52	San Antonio, TX	10:00 AM CST. A round luminous disc hovered overhead increasing altitude when aircraft approached and returning in altitude. After 30 minutes, object left at tremendous speed.	Possible balloon	SE1
98	8/2/52	Lake Charles AFB, LA	3:00 AM CST. Red spherical object with blue flame went from south to north straight and level for 3-4 seconds.	Probable meteor	16-4
99-100	8/5/52	Haneda AFB, Japan	11:30 PM. Object seen by airmen, who reported it to GCA. Object was observed visually for 50 - 60 minutes to the NE. The object faded twice before reappearing. F-94 sent to intercept target on radar. Both F-94 and object were tracked on radar and the F-94 had a contact on its radar. F-94 could not locate visually. Object lost visually from ground due to clouds. A/C reported 30-40% cloud cover.	Possibly Jupiter and false radar contacts	17-2
101	8/6/52	Tokyo	Continuation of Haneda sightings	Duplicate entry	17-2
102	8/18/52	Fairfield, CA	12:50 AM PDT. Object seen to East or NE, changed color and directions for 30 minutes.	Possibly Jupiter or Capella (insufficient data to determine which)	8-4
103	8/20/52	Neffsville, PA	3:10 AM EST. Observers saw object that appeared to be aircraft for several minutes. No other information.	Insufficient information	17-2
104	8/26/52	Lathrop Wells, NV	12:10 AM PST. One oval circle of lights traveling at high speed. Object appeared to momentarily halt its motion. Left V-shaped contrail. Duration 3-5 seconds.	Possible meteor	SE2
105	8/26/52	Poza Rica, Mexico	3:50 AM. Luminous, oval-shaped, object with small wings crossed the sky from west to east. Passed over oil field where it paused for "a few instants". Buzzing sound heard. Object disappeared in direction of sea (to the east). This is one of four sightings in the case file. All are based on newspaper stories with no formal investigation. No duration given.	Insufficient information	17-2
106	8/27/52	Veracruz, Mexico	2:10 AM. A blue-green object flew at super sonic speed from NW to SW in eight seconds. Newspaper clipping with no formal investigation.	Possible meteor	SE1
107	8/27/52	Ciudad Madero, Mexico	"Early morning". Bright sphere moved in spiral circles over breakwaters before taking off in a straight line to the north. This is one of four sightings in the case file. All are based on newspaper stories with no formal investigation. No time given.	Insufficient information	17-2
108	8/28/52	Chicasaw/Brookley AFB AL	9:30-10:45 PM CST. Multiple observations from different witnesses of lights that moved about and changed colors.	Probably Arcturus, Altair, Mars, Antares, and Fomalhaut	14-4

109	8/29/52	Colorado Springs, CO	8:35 PM. Three objects in trail formation with reddish-yellow exhaust on SE course. Disappeared after 4-5 seconds.	Possible meteor	SE1
110	9/1/52	Marietta, GA	10:30 PM EST. Two large objects spinning like tops with red, blue, and green colors. Objects threw off sparks for 30 minutes to the south. Other sightings made in various directions.	Possibly stars/planets	11-5
111	9/6/52	Lake Charles AFB, LA	1:30 AM CST. One round white object displayed circular motion in the NE for 2 hours.	Probably Capella	5-5
112	9/11/52	Allen, MD	9:30 PM EST. Greenish-white object with red trim moving in the NE for 35 minutes.	Possibly Capella	8-5
113	9/9/52	Rabat, French Morocco	Between 2100 and 2110Z. Circular-shaped formation of 8 disc-shaped objects/lights headed NW and then turned west to SW in 5 seconds before disappearing.	Possible birds	SE1
114	9/13/52	Allentown, PA	7:40 PM EDT. One flaming red object shaped like a football came from the NE and traveled towards the south in 2 seconds. Near collision with aircraft. (Note: Witness made report about one week after the event and may have gotten the date wrong. On 12 September, a bright fireball was seen over the Atlantic states from PA to NC around 8:00 PM)	Possible meteor	15-5
115	9/14/52	Santa Barbara, CA	8:40 PM. Blue white object traveling at high speed for 30 seconds. Rose before disappearing.	Possible meteor	SE1
116	9/14/52	White Lake, SD	7:00 PM CST. Reddish stick/cigar visible in west. Three puffs of smoke or vapor visible a short distance behind it. Moved west and veered south. Disappeared after 30-40 minutes.	Possibly Venus	SE1
117	9/14/52	El Paso, TX	11:30 PM MST - 1:20 AM MST. Eight formations of lights observed over this period of time moving over the city. The durations were described as measured in seconds and the directions varied.	Possible birds	SE1
118	9/16/52	Portland, ME	6:22 or 7:50 PM EDT. 2 objects sighted visually by P2V aircraft in southerly direction. Upper object was dark. Lower object had 4-5 lights. Objects tracked with APS-31 radar. Followed for 20 minutes until objects reached Portsmouth, NH at 8:10 PM.	Possible aircraft	SE1
119	9/30/52	Denver, CO	Actual date is 9/24/52 and location is Aurora, Co. 3:25 PM MST. Five to six objects circling overhead. One object left circle and departed to SW. The other five objects then disappeared. Visible 5-6 minutes.	Possible birds	SE1
120	10/7/52	Alamogordo, NM	8:30 PM MST. Object went from NW to NE in 4-5 seconds.	Probable meteor	14-5
121	10/17/52	Killeen, TX	10:15 PM CST. Ten objects flew in "duck-like" formation traveled from north to south, veering southeastward at the end, in 5 seconds.	Possible birds	SE1
122	10/17/52	Tierra Amarilla, NM	11:00 PM Missile-like object visible in the north 3-4 seconds. Disappeared suddenly.	Possible meteor	SE1
123	10/17/52	Taos, NM	9:15 PM MST. Round bright blue object moved straight path towards the SE in 2-3 seconds	Probable meteor	13-5
124	10/19/52	Pacific	4:58Z Circular yellow light with reddish glow around the outside traveling towards Hawaii.	Probable meteor	9-5
125	10/24/52	Elberta, AL	8:26 PM CST. Pilots saw orange object larger than a star with concave surface at front and possessing a tail, flew towards the SW at great speed. Duration 5 seconds.	Probable meteor	17-2

126	11/4/52	Vineland, NJ	5:40 PM CST. Two groups of objects moving from W to SE in 30 seconds.	Possible birds	SE1
127	11/12/52	Los Alamos, NM	10:23 PM MST. Four lights stationary or moving slowly north changing colors from red to green to white or yellow. Duration 15 minutes.	Stars/Insufficient data	10-6
128	11/30/52	Washington D.C.	12:30 AM EST. Radar targets tracked on airport radar. No visual confirmation of targets.	Possible Anomalous Propagation/weather	SE1
129	12/28/52	Marysville, CA	The case file could not be found by Berliner, Sparks, or myself. However, there is a case file for 12/28/53 Marysville, California. It is my opinion this is a duplicate entry.	Duplicate entry.	SE1
130	1/1/53	Craig, MT	8:45 PM MST. Object that looked like "two soup bowls put together" traveled from SW to NE in 10 seconds before disappearing.	Possible meteor	7-1
131-32	2/20/53	Stockton/ Pittsburg, CA	1. Unknown time. Large bright light visible 8 minutes to the SSE and then disappeared. 2. 10:30 PM PDT. Light on collision course with aircraft. Went from North to east in a short period of time.	1. Possible aircraft 2. Possible meteor	15-1
133	2/27/53	Shreveport, LA	11:58 AM CST. Five yellowish circular objects in circular turn from west to east in trail formation. Three objects vanish. Two remained to the NW performing erratic maneuvers for 150 seconds before disappearing. Duration 4 minutes.	Possible birds	SE1
134	3/11/53	Hackettstown, NJ	4:00 AM Blinking light moving up and down mountain range to the west (additional sightings at 2100 and 2400)	Probably Venus, Aldebaran, and Pollux	10-1
135	6/22/53	Goose AFB, Labrador	1:40 AM LT. F-94 observed red ball of light. Attempted intercept but could not catch up. After five minutes, object departed into overcast. No course or positional data for object. No course for aircraft.	Insufficient information	17-2
136	8/27/53	Greenville, MS	10:35 PM CST. Circular object emitted red, green, and white alternate flashes of light for approx 3-4 seconds, then a steady red flash light diminishing as increasing in distance. Object was traveling from SW to West over 50 minutes.	Probably Arcturus and Antares	6-4
137	9/3/53	Portland, Oregon	Two oval-shaped bright silver objects flew at high speed and disappeared behind cloud. No time, duration, course, or positional data.	Insufficient information	17-2
138	10/16/53	Cyprus Island	20:00Z. Two white or bluish lights in trail formation. 30 degrees elevation. Traveled through 30 degrees of azimuth at high rate of speed. Turned and descended, disappearing behind building. Duration 10 seconds.	Possible meteor	SE1
139	4/8/54	Chicago, IL	4:03 PM CST. Witness saw a parachute shaped object with humanoid beneath it descend towards lake. CG cutter investigated but found nothing. Witness saw humanoid come ashore, walk around, and then get back aboard craft, which departed. Duration 30 minutes. The witness appeared to be influenced by UFO literature and compared the figure with those depicted in Adamski's book. Unlikely that such an event could happen in downtown Chicago during rush hour and not be noticed.	Unreliable report	17-2
140	4/26/54	Athens, GA	7:35 PM EST. V-formation of 15-20 objects seen traveling north for 10 seconds.	Possible birds	SE1
141	5/31/54	Concord, NH	10:15 AM EST. White elongated object moving at incredible speed towards the ground. Object suddenly disappeared after 8-10 seconds.	Possible daylight meteor	SE1

142	6/1/54	400 mi. S. of Minneapolis, MN	3:00-4:05Z. Bright object paced aircraft going north for over one hour.	Insufficient data with possibility of Venus	10-4
143	7/25/54	Lake Erie	7:12 PM EST. Cylindrical object moving on the surface of the water at a high rate of speed. Object moved in arc to the stern of observers boat. The witness did not state what happened to the object and there is no indication it went airborne. If so, the object should have been found.	Insufficient information	17-2
144	7/30/54	Los Angeles, CA	11:15 AM PDT. B-25 observed stationary thin horizontal line to the SE. Other Navy aircraft appeared to pass under object. No duration is listed and there is no indication of how it disappeared. No follow-up in identifying navy aircraft for confirmation.	Insufficient information	17-2
145	8/11/54	Pacific Ocean	5:50Z (2050 LT). Line of blue light approached from NE (50 degrees azimuth 1- 2 degrees elevation) and passed over ship. Changed to circular shape. Slowed down and rose into thin layer of clouds, illuminating clouds and disappeared overhead. This could have been a meteor but no duration was given.	Insufficient information	17-2
146	8/24/54	Egilstadir, Iceland	8:30 PM LT. Cylindrical object made whizzing sound, flew straight and level, and fell into a sandbar. No object found.	Insufficient information	7-5
147	9/4/54	Butler, MO	3:00 AM CST. String of 20-30 lights in formation flew SW for 90 seconds before disappearing.	Possible birds	SE1
148	9/5/54	Butler, MO	12:23 AM CST. One silver-white object with exhaust following object, flew SW before veering to south and then disappeared. Duration 25-30 seconds.	Possible meteor	SE1
149	9/18/54	Kimpo AFB, Korea	20:55 - 21:08Z. Silver object observed to move from 175-180 degrees azimuth, while maintaining elevation at 50 degrees. It disappeared into clouds.	Possibly Sirius	10-5
150	9/21/54	Barstow, CA	2:00 AM PDT (possibly 12:00 AM PDT - message is faded). Red-orange ball giving off sparks and smaller light made a zig-zag descent in the SW and hovered for 20 minutes.	Possibly Mars and Nunki	12-5
151	9/21/54	Santa Maria Airport, Azores	23:45Z. Guard reported that cigar shaped craft landed and a blond haired individual came out and attempted to converse in an unknown language. When a car approached, the humanoid boarded his craft and it accelerated straight up and disappeared. This story lacks credibility and sounds like something from "Flying saucers have landed" by George Adamski (1953). Such an event at an airport would have been seen by more than one security guard.	Unreliable report/ Possible hoax	17-2
152	9/22/54	Marshfield, MO	9:00 AM CST. Boomerang-shaped light tan object with black stripes landed with a puff of smoke. It landed behind a tree-line. Witnesses could only find some damaged ground for where the object landed. Repeated searches found no evidence of a landing. This story lacks credibility and there is nothing to confirm the more exotic aspects of this story.	Insufficient information	17-2
153	10/15-17/54	Kingfisher, OK	8:45 PM CST. On three successive nights, approximately 50 objects flying in a V formation. West to East, North to South, and South to East. Faster than jet AC. No durations listed. Only record card available.	Insufficient information	17-2
154	11/15/54	August, ME	4:00 PM EST. 10 bright, gold-colored, objects in V formation traveling NNE for three minutes before fading away.	Possible birds	SE2
155	11/19/54	Corvalis, OR	4:15 PM PST. Bright white object changing shape in the west for 12 minutes. Changed color from white to pink to red.	Probable contrail	12-6

156	1/26/55	Lakeland, FL	6:15 PM EST. Black smoke trail followed by an explosion to the ENE. Missing duration.	Insufficient information	17-2
157	2/10/55	Bethesda, MD	10:03 PM EST. Yellowish object with flat top and round bottom. Stationary for 30 seconds and changed to a funnel shape. Diminished in size. Total duration 1.5-2 minutes.	Probable moon	5-4
158	4/30/55	Travis County, TX	7:30 AM CST. Four black objects flying in formation from west to east in 2-3 seconds. Gave the sound of a Zephyr.	Possible birds	SE1
159	8/11/55	Iceland	12:45Z. 12 objects changed from cigar to egg-shaped. In trail formation, changed to elliptical, wavy line before scattering and going back to straight line. Visible 3-4 minutes traveling NW to SE.	Possible birds	SE1
160	9/7/55	Washington DC	7:30 AM EDT. Illuminated, round object moved across the sky in 1 minute. No positional data or course. Insufficient data.	Insufficient information	17-2
161	12/21/55	Caribou, ME	11:00 PM EST. Round object. Color as gold. Bright as sun but not hard on the eye. Visible in southwest for 6-8 minutes (witness states on form it disappeared in SE but direction given indicates motion towards SW or W).	Probable moon	8-6
162	2/19/56	Houston, TX	6:07 - 6:35 AM CST. White light seen by pilot of aircraft en route to Houston from New Orleans. Object was seen at bearing of 285 degrees. It was last seen at a bearing of 290-305 degrees.	Probably Jupiter	11-1
163	4/4/56	McKinney, TX	3:00 - 9:00 PM CST. Observed object through 6-inch telescope that moved slowly westward until darkness.	Probable Grab Bag balloon	6-3
164	9/14/56	Highland, NC	1:00 AM EST. 14 round yellow to red objects flying in formation from south to east and then northeast. They then returned swooping up and down. Exhaust seen. Total duration 1.5 hours. No duration for each event or how frequent they appeared during the 1.5 hours. Did it take 1.5 hours to traverse the sky? The implication was the angular speed was high.	Insufficient information/Conflicting data	17-2
165	11/30/56	Charleston AFB, SC	12:48 PM EST. Observed dark object through aircraft window towards the NW low above water. Paralleled Aircraft's course for 10 minutes before disappearing. Aircraft heading NW.	Aircraft	SE1
166	4/25/57	Ringgold, LA	2:30 AM CST. Red colored half moon-shaped object seen while witness driving eastward towards Ringgold. 25 minute duration.	Possible Moon	11-3
167	7/27 or 29/57	Longmont, CO	Case reported in letter dated October 14, 1964.	Unreliable report.	17-2
168	11/6/57	Boerne, TX	6:00 PM CST. One brilliant orange egg-shaped object hovering for one minute to the east and disappeared.	Possible moon	SE1
169	11/6/57	Radium Springs, NM	10:50 PM MST. One round red, green, blue, and white object moved up into a cloud in 10 minutes. Witness looking towards SE.	Probably Sirius	7-6
170	11/8/57	Merrick, NY	10:10 AM EST. Witness saw a blue flash from their living room and heard swishing sound. Saw one blue bar through the window for an instant before disappearing.	Insufficient information	17-2
171	12/17/57	Fruita, CO	7:20 PM MST. Object moved from South to Southwest over a 45 minute period. Disappeared over the mountains.	Possibly Venus	11-6

172	5/9/58	Bohol Island, Philippines	3:05Z. Airliner saw object fall from the sky leaving a smoke trail behind. Visible for 90 seconds and then it disappeared into clouds. No positional information or course for object. Only that it was over Bohol Island. Insufficient data.	Insufficient information	17-2
173	8/17/58	Warren, MI	7:05 PM EST. Bright white star-like object. Object motionless for 5-8 minutes in the WNW at angle of 75 degrees. Object shifted tilt and it appeared saucer-shaped with central dome. Moved towards NNE and then reversed towards the WSW before fading very rapidly (message states it vaporized). Duration 6-10 minutes.	Possible balloon	SE1
174	3/25/59	Montana	Not originally on list of unidentifieds. Placed there during review. 7:41 PM MST. Target on radar following B-52 for one hour. F-89 sent to intercept and target climbed away and F89 could not pursue.	Possible aircraft	SE2
175	6/30/59	Patuxent River, Virginia	8:24 PM EDT. Bright gold oblate object straight and level flight for 20-30 seconds. Visible to the north.	Possible aircraft/ Insufficient data	12-3
176	9/13/59	Bunker Hill AFB, IN	4:00 PM EST. Pear-shaped object moved from N to SW rising slightly. Disappeared at dusk.	Probable balloon	5-6
177	Oct 59	Telephone Ridge, OR	Case reported in letter written in July of 1964.	Unreliable report	17-2
178 -79	10/19/59	Plainville, KS	9:25 PM CST. T-33 pilot saw bright yellowish light came head on from east and faded when evasive action taken. Duration 20 seconds. Light reappeared and disappeared heading south. 30 seconds duration.	Possible meteors	SE2
180	2/27/60	Rome, NY	6:27 PM EST. Round object rose and passed the star Sirius. Moved towards 150 degrees azimuth before disappearing into cloud. 3-4 minutes duration.	Echo test launch from Wallops Island	6-1
181	3/4/60	Dubuque, IA	5:55 PM CST. Three elliptical objects traveling NNE for 4 minutes.	Probable flight of three B-52 aircraft	5-3
182	4/25/60	Shelby, MT	Five sightings of objects in trail formation. First sighting had three objects, the others had five. Objects would appear stationary, then move slowly and speed up. All five sightings were not on same date. First in October 1957 and the last on April 25. Each sighting lasted 20-30 minutes and varied in course. 8mm film submitted for analysis. Information supplied seems to apply to all sightings and not specific information about sighting on 4/25/60.	Insufficient information	17-2
183	9/10/60	Ridgecrest, CA	9:50-11:00 PM PDT. Four sightings. 2 were north to south, one was south to north, and one east to west. Two sightings were saucer-shaped and two were boomer-angled-shaped. Each sighting was 1-2 seconds in duration. Sky was cloudy.	Possible birds	SE1
184	10/5/60	Mount Kisko, NY	7:37 PM EST. Round bright light moved in an arc of 120 degrees from SE to NW in 20 seconds.	Possible meteor	SE1
185	11/29/60	S. Of Kyushu, Japan	6:38 PM JT. Point of light moved from 350 degrees azimuth to 30 degrees azimuth in 10 minutes.	Echo satellite	14-6
186	2/27/61	Bark River, MI	10:15 PM EST. Fiery-red object seen in the west changed from stationary to moving slowly northward over 10 minutes before it disappeared.	Possibly Venus	16-1
187	Spring 61	Kemah, TX	Case reported in letter written in March of 1965.	Unreliable report	17-2
188	4/24/61	Pacific	11:34Z. Navigator of RC-121 sighted reddish-white object to the north heading to the northeast after 8 minutes.	Echo satellite	13-2

189	5/22/61	Tyndall AFB, FL	4:30 PM CST. Disc shaped-object. Silver colored. Stationary. Revolving in place. SE with elevation angle of 35 degrees.	Possible moon	13-3
190	6/2/61	Myako Jima AFS	10:17 PM JT. Actual date is June 4. A blue-white object moved at erratic speeds from 350 degrees azimuth to 190 degrees azimuth in 5 minutes.	Echo satellite	14-3
191	9/24/61	Tonopah, NV	2:45 AM PST (9/25). Initial observation was of the planet Jupiter. Second observation was of bright orange-yellow light that traveled fast in a southerly direction for 2-3 minutes and then turned towards the east.	Aircraft	13-1
192	11/21/61	Oldtown, FL	7:30 PM EST 11/20/61. Reddish object rose above trees to the south. Object faded after 3-4 minutes.	Titan 1 missile launch	4-5
193	11/23/61	Sioux City, IA	9:30 PM CST. One large, red star going from North to South over 15 minutes.	Possibly Echo satellite with time not being correct.	15-6
194	3/26/62	Westfield, MA	There is no case file for this date and location. There is a file for 5/26/62. Sparks and Berliner indicate both entries are identical and classify it as one sighting with the May case being suspect. There is a file for May 26, 1962 and all the information in that file indicates the May 26 date is correct.	Duplicate entry	17-2
195	4/4/62	Wurtland, KY	8:50 PM EST. Object, with haze around it and tail pointing towards the sun, stationary to the SE seen through telescope. Disappeared by fading after 6 minutes.	Possible balloon	12-2
196	5/26/62	Westfield, MA	11:45 PM EDT. Red, slightly oval, object giving off sparks from top and bottom, descended from 30-45 degree elevation to 10 degrees in the NW, where it disappeared behind trees. Duration 3-10 minutes.	Possibly Antares	SE1
197	5/27/62	Palmer, AK	6:40 PM AKST. Two triangular-shaped objects traveling east to west in 2-4 seconds. Appeared to weave and fly in echelon formation.	Possible birds	SE1
198	6/30/62	Richmond, VA	Two sightings. The second was identified as the Echo satellite by BB. The first was seen at 9:00 PM EDT and went from 20 degrees elevation 169 degrees azimuth to 13.5 degrees elevation 132 degrees azimuth. Duration 10-20 minutes. Courier 1B rocket trajectory was SW to SE at 20 degrees elevation. Duration 12 minutes.	Courier 1B rocket	13-2
199	7/19/62	Metuchen, NJ	9:30 PM EST 4-5 star-like objects moving by starting/stopping and zig-zagging for 7-10 minutes. Objects originated from and moved in four different directions. Details sketchy. It appears that there were several groups of objects moving about over the specific time period but it is not clear.	Insufficient information	17-2
200	Summer 1963	Middleton, NY	Case reported in letter dated August 5, 1965	Unreliable report	17-2
201	6/15/63	Indian Ocean	1539Z. Bright light surrounded by cloud traveling from the NW to the east for 3-4 minutes.	Agna rocket stage venting fuel	5-2
202	7/1/63	Glen Ellyn, IL	8:00 PM Object traveled from SE to West in 90 minutes with flashing lights. Object appeared to be three lights connected in telescope. Viewed with 2.4-inch telescope. Witness 11-year old. Witness stated object was sighted again in November and December.	Possible ad plane	SE1

203	8/11/63	Warrenville, IL	9:00 - 10:00 PM. Object visible as a series of flashes traveling across the sky. Was seen four times it came from the SE. One pass went from SE to NW in 15-20 seconds. Each pass was about 5 minutes apart.	Possible aircraft	SE1
204	8/13-14/63	St. Gallen, Switzerland	19:04Z. Object seen on two successive nights. On the second night the object was glowing as it traversed the sky. After 4 minutes, it stopped glowing and faded. It then increased brilliance and appeared to explode with parts appearing to fall to ground to the SW. No details on August 13 sighting and August 14 sighting lack details about the course/point of origin and where the fragments descended.	Insufficient information	17-2
205	9/15/63	Vandalia, OH	6:00 PM EST. Two gold-colored objects, one shaped like a banana and the other like an ear of corn, visible to the west for 10 minutes.	Probable airplane contrail	6-6
206	10/24/63	Cupar Fife, Scotland	No time given but time was probably around 6 AM based on sketch of constellations. Object was a star-like object that moved from the north to south-southwest. Object disappeared near star Procyon. No duration given but probably measured in minutes.	Possible aircraft	SE1
207	12/16/63	Pacific	5:05 Z. One white light blinking 2-3 times/second traveled towards the east in 15 seconds.	Possible meteor	13-6
208	5/26/64	Cambridge, MA	3:43 PM EDT. Very thin elliptical object initial seen overhead traveling ENE towards horizon in 3-4 seconds.	Possible daylight meteor	SE1
209	5/26/64	Pleasantville, PA	11:00 PM EDT. Witness driving west and saw bright light on left side of road. Attempted to pursue light when it moved to right side of the road. When the object went back to the left side of the road, witness attempted to pursue on dirt road. Object then rose and disappeared to the west.	Probably Venus	10-3
210	7/20/64	Clinton, IA - Littleton, IL	5:00 AM CDT. Clinton, IA. Strange fiery object seen to ESE for 45 seconds-1 minute moving upward towards NNW. 4:45 AM CDT. Littleton, IL. Rocket-powered, cone-shaped object rising above trees in front of vehicle and to the right (car driving eastward) => SE direction. Object approached vehicle and then reversed direction eastward. Disappeared in a few seconds. Total duration 60 seconds.	Rocket launch of SERT-1 from Wallops Island VA	SE1
211	8/15/64	New York City, NY	1:15-1:20 AM EDT. Flash of shiny object like a fire hydrant with door and pipes. It went westward as if in a blur/terrific speed. Only data comes from a letter. This could have been a meteor but no duration was given.	Insufficient information	17-2
212	8/18/64	Atlantic	5:35Z. Aircraft en route to Dover, DE saw red object on collision course. Object visible 2 minutes. Location listed as 200 miles east of Dover but actual location of aircraft was about 300 miles east of Cape Cod.	UNIDENTIFIED	5-1 and 5-2
213	9/10/64	Cedar Grove, NJ	8:09 PM EDT. Four lights, of magnitude 3-4, observed to north, heading west in trail formation. Disappeared in haze on western horizon after 45 seconds.	Possible birds	SE1
214	11/14/64	Menomonee Falls, WI	9:40 PM CST. Three, dim red, objects (magnitudes 2-3) in flight from east to west for 5-6 seconds. Two objects converged at one point but then separated again.	Possible birds	SE1
215	11/19/64	Pacific	11:00Z. Bright flashing light traveling from horizon to horizon, towards azimuth 20 degrees, in 20 seconds.	Possible meteor	SE2
216	4/4/65	Keesler AFB, MS	4:05 AM CST. Black oval object with lights moving southwest to northeast through the clouds for 15 seconds.	Possible meteor	11-2

217	5/7/65	Oxford, MI	7:30-7:40 PM EST. Witness saw light overhead. The object turned into two objects. One minute later, the primary object ejected three more objects. Another object was sighted bringing the total to six objects. Four objects could only be seen with binoculars. The disappeared behind clouds. No significant motion mentioned.	Possible bursting balloon	SE1
218	7/25/65	Castalia, OH	9:16 PM EST. Bright blue disc-shaped object moved in 90 degrees of arc in 10 seconds. Went from overhead to the SSE horizon where it stopped, dimmed, and disappeared.	Possible meteor	SE1
219	8/4/65	Tinley Park, IL	12:35 AM CDT. Object moved from southwest 80 degrees elevation to southwest 60 degrees elevation in erratic motion (zig-zag or right angle turns) in 16-17 seconds. Color changed from white to red. Drawing of constellations and object's track indicated it actually went NW instead of SW. Witnesses were two 14-year olds.	Possible meteor	SE1
220	8/4/65	Dallas, TX	9:25 PM CST. Dim red object traveled half way across sky to the east before fading out. Duration 10-12 seconds.	Probable meteor	13-4
221	11/4/65	Middletown, OH	Two sightings. The first identified as aircraft landing. The second happened around 6:50 PM and went to the NW for two minutes. There is no point of origin so a track cannot be determined.	Insufficient information	14-4
222	1/14-17/66	Weston, MA	Two sightings. One on the 17th was a barium cloud from Wallops Island. The second was on the 14th at 5:55 PM EST. It traveled from SW to SE and was visible for 20 minutes. Witness did not see first part but was reported by his son going from SW to S. He came inside to report to his father. They then went outside and saw an object moving SE Apollo 1 module went from SW to SE in 8 minutes (5:45-5:54). This had been preceded by the Centaur RB (5:41-9) and Apollo 5 module (5:45-5:52) following similar tracks. This was probably a combination of two or three of these objects or just one with the time duration overestimated.	Apollo 1, 5 module and Centaur RB.	14-5
223	2/2/66	Salisbury, NC	11:15 PM EST. Bright object, which changed colors rapidly, hovered for 3-4 minutes and then moved to the northeast. Object then remained in that location for one hour.	Probably Arcturus	12-1
224	3/20/66	Mims, FL	12:15 AM EST. Light pulsed and changed color from white to blue. Accelerated away northward after 5 minutes.	Jupiter or Capella (insufficient data to determine which)	14-2
225	3/27/66	Texhoma, OK	12:20 AM CST. Seen from car traveling from towards the NE. Red light, first seen as a flash and then flying low, went from NE to SW and faded out. The whole report form with the duration, date, location, was not available. The witness added enough details in the report form to verify it was this sighting and it happened at 12:20 AM on the 27th. Based on the description, the duration was probably very short and measured in seconds.	Possible meteor	SE1
226	4/30/66	Sacramento, CA	4:15 - 6:30 AM PDT. Bright object seen to the SE, moved towards the East. Rose over time and became translucent and disappeared at sunrise.	Venus	9-2

227	6/18/66	Burnsville, NC	12:30 AM EST. Object seen with blinking red lights hovered for 20 minutes before landing. Six more objects appeared and joined the first for 15 minutes and then went behind a mountain. They awoke one hour later and the objects were in the same place. Sighting lasted 5 hours. Form only gives positional data for one sighting. Details about how objects disappeared after 5 hours is missing. Landing site evidence inadequate.	Insufficient information	17-2
228	6/27/66	Pacific	1600Z 6/26/66. Witness aboard SS Mt. Vernon, saw light with cloud expanding around it going from E to W. No duration but I estimate 10 minutes based on description.	Atlas ICBM launch	4-6
229	7/25/66	Vanceboro, NC	1:00 AM EST. Observer saw red glare in his vehicle and he sped up to speeds nearing 120 mph to the SE to get away. Stopped car and went under vehicle. Object hovered over car and then rose rapidly disappearing into the sky in five seconds. 1 hour duration. Witness description of travel (a 25 mile trip) and duration do not match especially when he was supposedly driving at high speed.	Inconsistent data	17-2
230	7/31/66	Presque Isle, ME	Sighting involving a landing and creature with associated lights. The landing and creature were explained as unrelated to the sighting and probably an animal. The visual sighting of lights happened when their car was stuck in sand. At 10:15 PM EDT, the witness saw object in the NE and then noticed it was "free-falling" and reached ground level in 3-5 seconds.	Meteor	14-6
231	8/23/66	Columbus, OH	6:59 PM EST. Luminous white object hovering in the north for 15 minutes. Split into five objects, which streaked away to west in 5 seconds. Total duration 15 minutes.	Balloon Bursting	SE1
232	10/30/66	South Hampton, NY	Sighting accompanied by photographs. 6:20 PM EST. Object going from North to SW. Object had arms with arc-lights that illuminated the area in front of it. Disappeared to the SW after 7 minutes. Photographs submitted to be images of the UFO turned out to be time exposures of the moon and stars and were evaluated as a hoax. That makes the visual sighting a possible hoax. It also sounds like a possible aircraft with landing lights.	Hoax with possible aircraft involvement.	15-1
233	2/12/67	Grand Rapids, MI	3:40 AM EST. Four fluorescent football-shaped lights traveled from SW to NE in 4-10 seconds. Three in trail formation and one off to the side. Chirping noise heard.	Possible birds	SE1
234	2/20/67	Oxford, WI	3:10 AM CST. Seen truck driving westward. Orange red colored object, with red light on top, seen in NW and disappeared in north. Visible for 2.5 minutes	Possible moon	9-1
235-36	2/27/67	Holland/ Grand Haven, MI	8:19 PM EST. Large white light made an instantaneous right angle turn, moved over road. It moved too fast to follow according to the witness. Multiple sightings from many individuals. Total duration 1 hour and 11 minutes.	Probably Venus/ Possible aircraft/ Insufficient data	14-1

THE 701 CLUB STATISTICS

Classification	Total	%
Meteor (night)	41	17.4
Meteor (day)	12	5.1
Stars/Planets	22	9.3
Venus	8	3.4
Moon	11	4.7
Aircraft	15	6.4
Radar Anomalous Propagation/weather	5	2.1
Satellites	7	3.0
Rocket launch	4	1.7
Birds	31	13.1
Balloon	16	6.8
Contrail/Clouds	5	2.1
Reflection	2	0.8
Conventional objects (Washington DC July 1952 visual sightings)	3	1.3
Hoax	1	0.4
Remained Unidentified	1	0.4
Insufficient information	36	15.2
Unreliable report	7	3.0
Conflicting/Inconsistent data	3	1.3
Duplicate reports	5	2.1
No case file	1	0.4

THE REMAINING UNKNOWN

This list is the remaining cases from the original 701 unknowns compiled by Blue Book after removing the cases I examined in the 701 club articles. The numbers include the number of sightings, which is 421. However, if we are looking at "cases", the actual number is 406. This is because the 4/15/53 Tuscon case contains four sightings and the Korea case of 6/25/52 has thirteen sightings.

No.	Date	Location	Description
1	6/24/47	Mount Rainier, WA	3:00 PM Arnold sighting. Nine large objects heading north to south. Visible 2.5-3 minutes.
2	6/24/47	Portland, OR	Afternoon. Five or six objects moving SE over a period 45-60 seconds. Needle on compass wavered.
3	7/3/47	S. Brooksville, ME	2:30 PM. Actually Harborside, ME. NW direction of flight. Loud roar. 10 light colored objects. 10-15 seconds duration. Irregular motion like a swarm of bees.
4	7/4/47	Emmett, ID	8:04 PM. Airline pilot and crew saw two groups (5 and 4 in number) of objects in loose formation. Objects were thin and smooth on bottom and rough on top. Silhouetted against sun. Visible for ten minutes.
5	7/6/47	Fairfield-Susan AFB, CA	Daylight. 60 seconds. SE course at high speed. Rolled from side to side. One side was highly reflective. The other was not.
6	7/8/47	Muroc AFB, CA	9:30 AM PDT. Two to four silver disc-like or spherical objects. Estimated duration 30 minutes. Traveled NW direction. Performed a tight circle maneuver.
7	7/29/47	Hamilton AFB, CA	2:50 PM PDT. Unidentified object following P-80 traveling at high speed. Second object appeared moving left to right over the first object. Both objects continuing their maneuvering until they went out of sight. Course was 120 degrees. Duration 15 seconds.
8	8/13/47	Twin Falls, ID	1:00 PM MST. Inverted pie plate. Flew East to West. Went over hills and hollows in canyon. Exhaust flames. Father and two sons (eight and ten). Visible only momentarily (seconds?).
9	4/5/48	Holloman AFB, NM	Daylight. Object completed large loop after downward descent and then soared upward and disappeared. Visible 30 seconds. Another object made three loops and arced towards the west and disappeared.
10	7/29/48	Indianapolis, IN	9:55 AM. Broad propeller shaped object. Passed in front of truck crossing a bridge in a descent to the south. Appeared to go to ground but could not be located. Brief sighting.
11	7/31/48	Indianapolis, IN	8:25 AM. Cymbal shaped object visible for 10 seconds. Moved rapidly to the east.
12	10/15/48	Kyushu, Japan	11:05 PM. F-61 Six targets tracked on radar in aircraft. F-61 attempted to intercept but failed to each time as objects evaded pursuit. Only one object seen visually and it was just a silhouette. Ground radar only showed aircraft.
13	12/3/48	Fairfield-Susan AFB, CA	8:15 PM. Object sighted by tower personnel. It approached tower, passed by the tower, and then climbed up out of sight. Duration 25 seconds.
14	1/1/49	Jackson, MS	5:00 PM. Observed for 10-12 seconds. Witness in aircraft flying towards the NW. Object seen below the airplane's horizon. Gradually climbed above airplane's altitude. Flew westward and disappeared to SW. Color dark blue or black. Looked like target sleeve.
15	1/27/49	Cortez, FL	10:20 and 10:27 PM. Visible 25-30 minutes. Bright object seen with binoculars. Two observations of one object each. First observation moving south to north. Second object moving from north to south and then turned west. Disappeared at 10:30PM. Saw windows on cucumber-shaped object. Saw sparks and flames from object(s) similar to burning log.
16	3/17-19/49	Kileen Base, Camp Hood, TX	3/18 7:30 PM Yellow light seen. 7:47 PM Three yellow and one red light visible. 7:55 PM More lights seen in same area as 7:47 PM. 3/19 12:48 AM More blinking lights seen.
17	4/3/49	Dillon, MT	11:50 AM. Saw disc to the north of Dillon. Rocking and rotating in a semi-circular motion. Bright on upper side reflecting sunlight. After rocking back and forth six times, proceeded easterly and descended. It then move southwesterly to a position west of Dillon. It then rocked again and the proceeded NE of Dillon. It continued rocking motion and disappeared over the mountains east of Dillon. Its motion was fast enough to blur the outline of the object.
18	4/4/49	Merced, CA	10:20 PM. 35 seconds duration. Seen in the east. Moved Slowly in NW direction and then turned to the SW. Object "clicked". Disappeared when clicking noise stopped.

19	4/24/49	Arrey, NM	10:30 - 10:35 AM. Viewed through theodolite while tracking balloon. Elliptical object approximately 12 minutes of arc across. Visible approximately 60 seconds. Speed of 5 degrees/second. First seen at 210 degrees azimuth 45 degrees elevation. Moved in an arc northward. Disappeared at 20-25 degrees azimuth and 25-29 degrees elevation.
20	4/28/49	Tuscon, AZ	5:45 PM (0145Z). A very large sausage shaped object seen NE of Tuscon reflecting the sun. Elevation angle 30 degrees. Traveled towards SW. Faded from view after 12 minutes in the SW. Second observer saw the object at 5:30 PM. Visible at elevation angle of 60 degrees in NE. Moved towards the south over 30 minutes. Third observer saw object at 75 degrees azimuth at 5:45 PM. Moved in Arc towards SW over 40 minutes.
21	5/5/49	Fort Bliss, TX	11:40 AM. 30-50 seconds. Two oblong objects seen north of observer. Motion west to east. Faded in distance. Object passed through field of fire at Waco firing range.
22	5/6/49	Livermore, CA	9:35 AM (1735Z). Observer sighted two objects moving from SSE to NNW at a high rate of speed. Visible for five minutes. As they traveled, they rotated around each other. One went upward and left a gray trail before rejoining the other and resuming the circling of each other.
23	5/9/49	Tuscon, AZ	2:30 PM (2130Z). Two round, silvery, flat objects heading from SW to NE at a high rate of speed. Visible 6-10 seconds. Faded from sight.
24	5/27/49	Southern OR	2:25 PM. 5-8 Elongated ovals in file formation. Sun reflecting off of objects. Traveled from NE towards SSW. Faded into distance.
25	7/24/49	Mountain Home, ID	12:05 PM MST. Seven delta wing objects, in a three row formation of three abreast, flying below witness' aircraft at 10,000 feet. Initial flying to a heading of 300 degrees. Formation passed witness' aircraft and then made a 180 degree turn to a bearing of 120 degrees.
26	7/30/49	Mount Hood, OR	9:00-9:30 PM. Three lights (two red and one white) sighted hovering as aircraft approached Portland. Visible 30 minutes. After passing lights, pilot performed 180 degree turn in attempt to intercept. Lights went to the SE.
27	2/5/50	Teaticket, MA	5:10 PM. Two cylindrical objects seen to west. Fireball dropped from one object. Objects drifted apart and then together. Ten minutes after initial sighting, they rose and disappeared.
28	2/24/50	Albuquerque, NM	1:55 PM MST. Observed through theodolite. 110 degree azimuth and 20-23 degree elevation. Round but not spherical. Travel towards WSW at a speed of two degrees in 90 seconds.
29	3/3/50	Selfridge AFB, MI	11:05 PM EST. Yellow light observed descending at slow rate. Hovered for approximately one minute. Flew towards west about 50 miles, turned to south for a distance of 50 miles, and turned north for 50 miles. It then stopped and disappeared from view. This took 4 minutes to complete.
30	3/27/50	Motubu, Okinawa	1030 AM (0130Z). Visual observation was stationary for 10 minutes. Radar tracked object moving to bearing of 220 in 2 minutes covering 16.9 miles. No other radars tracked the object.
31	4/8/50	Kokomo, IN	2:00 AM. Saw grayish metal disc shaped like a "child's top" almost overhead. It had three small portholes on the rim with blue-white light. After two minutes of hovering, it moved towards the north.
32	4/14/50	Ft. Monmouth, NJ	2:30 PM. While driving NE to Ft. Monmouth, witness saw four objects in sky. They were flying towards the south. Each object was rectangular in shape. The objects flew in formation but each object shifted position in formation. Visible 3-4 minutes.
33	5/7/50	East Ely, NV	6:45 PM. Silvery white object hovering low for 10 minutes. It suddenly went up and disappeared in less than a minute.
34	6/27/50	Texarkana, TX	7:50 AM. One object moved from N to S in 4-5 seconds. Appeared spherical but later looked like two dishpans turned together.
35	7/13/50	Redstone Arsenal, GA	5:00 PM. Object observed 30 degrees to NE of bachelor's quarters. Appeared like two triangles joined together. Gave off brilliant light. Went to NW. Took a right angle turn and disappeared in less than 3 seconds.
36	8/4/50	North Atlantic	10:00 AM. Elliptical/cylindrical object moving NE. Visible between 15 and 90 seconds moving at high speed.

37	8/24/50	Bermuda	0004Z. Distinct bright target on radar scope of B-29 traveling at same speed and direction of aircraft. Aircraft overtook the target, which assumed an in-tail position of the B-29. Target then overtook the aircraft and took a turn to the right. Disappeared from scope at 0024Z. No visual sightings of the target. A later observation by one of the observers appears to have been a meteor.
38	8/30/50	Sandy Point, Newfoundland	1630-1650Z. Observed a submarine or a barrel with a periscope/pole 15-20 feet above the water. It was moving at 3-5mph. After 5 minutes it ascended and moved over the horizon.
39	9/3/50	Spokane, WA	2:00 PM. Three objects appeared from NW. All three object acted independently and erratically. Two departed and one remained after 2-3 minutes. The third object climbed and disappeared. All disappeared towards Fairchild AFB. Objects were flat, pan-cake-shaped.
40	9/21/50	Provincetown, MA	Radar tracking two F-84s and saw a third target flying a course close to them. The unidentified target went ahead of the aircraft. The pilots were alerted but saw nothing. The target made a turn and closed with the F-84s. The pilots still saw nothing. The target proceeded towards Cambridge and operators lost track of it.
41	10/15/50	Knoxville, TN	3:20 PM. Bullet-shaped object descended with streamer trailing behind it. Object leveled off and was parallel to horizon. It passed close to witness. They attempted to approach it but it went to the southeast ascending to avoid obstacles. It went over a hill and disappeared. When in the distance, it appeared bladder or pear shaped.
42	10/23/50	Bonlee, NC	12:42 PM. Dirigible shaped object moving SE to SSE. Visible 40 seconds. It hovered for 35 seconds.
43	11/5/50	Oakridge, TN	11:55 AM. Shape changing gray object with a rapid darting motion in a specific area of sky at a bearing of 305 degrees. Visible 5-10 minutes.
44	12/6/50	Fort Myers, FL	5:00 PM One object hovered for seven minutes and then proceeded NW.
45	1/20/51	Sioux City, IA	8:20 PM. Bright light observed west of airport. Followed aircraft leaving airport to SE. Aircraft returning to airport had object following his craft and object then overtook the aircraft, flying underneath it towards NW, where it disappeared at 8:34 PM.
46	2/1/51	Johnson AB, Japan	5:10 PM. F-82 heading 90 degrees. An amber light was seen at the 11 o'clock position. When aircraft turned left, light turned left. Aircraft made 3-4 360 turns and light was always off left wing tip. Light then moved to 2 o'clock high position. At this point the F-82 turned south to 180 degrees. The light then moved to 12 o'clock position. It approached F-82 but rose and decreased in size.
47	2/26/51	Ladd AFB, AK	8:10 AM. Airmen on guard duty saw oblong aircraft without wings at 80 degrees elevation. Hovered over airbase for 45 seconds and proceeded South. 90 seconds total observation time.
48	3/13/51	McClellan AFB, CA	3:20 PM. Witness driving west in vehicle near AFB. Saw cylindrical object, with two tails attached, in the direction of Sacramento. It then traveled north at high speed and disappeared. Total duration 2 minutes.
49	3/15/51	New Delhi, India	10:20 AM. Cigar shaped object came out of north and flew over airfield. When south of the airport, the object turned north in a loop. Climbed and then dove down over the airfield before proceeding SW at very high speed. Duration 7 minutes. It left an exhaust trail that lasted over 20 minutes.
50	8/31/51	Matador, TX	12:45 PM. Pear-shaped object, with small port on side, hovering in front of car. Ascended rapidly towards east in circular pattern. Object appeared to have taken off from area used by crop dusting aircraft.
51	9/6/51	Claremont, CA	11:20 AM. A group of six orange colored objects were seen west of observer on course of 280 degrees. Second object then seen with same course. Total duration 3-4 minutes.
52	9/13/51	Goose AFB, Labrador	9:00 PM. Two radar targets tracked. No visual observations of the contacts.
53	10/3/51	Kadena, Okinawa	10:27 PM. Radar tracked object at speeds up to 4800 mph 90-200 miles from radar moving in northerly direction. No visual confirmation of target.

54	10/10/51	St Croix Falls, WI	10:10 AM. While approaching balloon in aircraft, saw an object going from East to West. It climbed to an angle of 50-60 degrees and then made sharp turn to SE. It accelerated and disappeared. Duration 2 minutes.
55	10/11/51	Minneapolis, MN	6:30 AM. While observing grab bag balloon from aircraft, a bright glowing object was seen to SE. Object moved from East to West at a high altitude and high speed. Object had halo around it and slowed down. It climbed and began to fly circles slowly. It then accelerated rapidly and disappeared in the east. Duration 5 minutes. A second object was seen going eastward shortly after the first object disappeared.
56	12/7/51	Oak Ridge, TN	8:15 AM. White and gray square-shaped object sighted rising into base of cloud layer. It descended and then rose again into clouds. Two minute duration.
57	1/16/52	Artesia, NM	9:30 AM. While observing a research balloon, a round object was observed in the vicinity of the balloon. A short time later two objects were observed approaching the balloon from the NW. They circled it and the flew off to NE. Duration of second sighting was 40 seconds.
58	2/23/52	Sinuiju, North Korea	11:15 PM. Navigator of B-29 saw cylindrical object, with bluish gaseous exhaust trail, climbing at 45 degree angle. Object leveled off and approached the B-29. After 15 seconds, it descended and passed under the B-29 before disappearing. Total duration 45 seconds.
59	3/24/52	Point Conception, CA	8:45 PM. Airborne APQ-13 radar tracked object going NW. No visual confirmation. Object tracked 20-30 seconds. Calculated speed 3000 mph.
60	3/29/52	Misawa AFB, Japan	11:20 AM. T-6 and two F-84s practicing combat. Small shiny disc-shaped object pulled abreast of T-6. It then appeared to make a pass at an F-84. The F-84 pilot did not see object. Object then attempted pass at T-6. Shot away in a steep vertical climb.
61	4/5/52	Duncanville, TX	7:30 PM (Apr 4). Radar target tracked towards the NW at a speed of 2160 mph.
62	4/12/52	North Bay, Ontario	9:30 PM. Round amber object approached from south and slightly east traveling at high speed. Object reversed direction before disappearing to the north after two minutes.
63	4/14/52	Memphis, TN	6:34 PM. One bright, inverted bowl-shaped, object, leaving a red glowing trail, passed aircraft at rapid speed heading NW. Visible 45-60 seconds.
64	4/18/52	Corner Brook, Newfoundland	4:00 AM. Awakened by dogs barking. Looking out window, saw bright yellow-gold object to north approaching. Object then turned towards the NE and disappeared after 1 minute.
65	4/18/52	Japan	12:07 PM. Target tracked on radar for two minutes going from ESE to NNW. Estimated speed 2700 mph.
66	4/18/52	Corner Brook, Newfoundland	10:10 PM. Round blob of yellow light sighted hovering in the smoke above a paper mill. After a minute, the object emerged from the smoke and flew towards the east at a high rate of speed. Total duration 90 seconds. A few minutes later, a bright object came from the east and reached a point where it made a 180 degree turn and returned to the east.
67	4/22/52	Okinawa	9:00-10:00 PM. Object seen flying from east to west beneath overcast. One minute later, two more objects seen flying in similar manner on same route. Five minutes later two more objects repeated the path. Each pass of objects took 5-10 seconds to travel east to west. The objects were elliptical and had a bright white light that blinked at regular interval of one-two seconds.
68	4/24/52	Bellevue Hill, VT	5:00 AM. Three objects in loose finger-tip formation to the East of aircraft. They followed aircraft 2 to 3 minutes and then disappeared. Objects then reappeared to the NE five seconds later. Remained in sight one minute before disappearing.
69	4/24/52	Milton, MA	2:30 PM. Observed two flat flexible square-shaped objects with BC scope for 90 seconds. Ascended, flew level, and ascended again. Flew in easterly direction and disappeared from sight.
70	4/24/52	Clovis, NM	8:10 PM. Many individual lights flying separately or as a group in a SE direction over a five minute period.
71	4/27/52	Roseville, MI	4:15 PM. Observed round silver object high in the NE sky. Two other silver cylindrical objects were then seen in the same area of the sky. While observing these objects another object rapidly crossed the sky from NE to NW. At 5:00 PM, the round object ascended rapidly and the two cylindrical objects departed rapidly to the east and west.

72	4/29/52	Marshall, TX	3:30 PM. Heard sound of aircraft and looked up to see white object at high altitude flying in a NW direction very fast. Faded out of sight after 90 seconds.
73	5/1/52	Moses Lake, WA	5:32 AM. One silver object moving at fairly slow speed towards NW for 90 seconds.
74	5/5/52	Tenafly, NJ	10:45 PM. Traveling east in vehicle when lights seen inside car. Witness stopped car and saw six or seven cream-yellow colored objects to the west. Some were translucent and others were dumb bell-shaped. One flying in a ellipse while the others moved about. Objects disappeared after 4-5 minutes.
75	5/7/52	Keesler AFB, MS	12:15 PM. Ten aluminum or silver colored, cylindrical-shaped, objects flying towards the SE for 5-10 minutes. Objects moved in and out of clouds with only one visible at a time.
76	5/14/52	Puerto Rico	7:00 PM Two bright, orange colored, stationary objects were observed off the coast. When viewed with field glasses they appeared to move about. Visible for 30 minutes.
77	5/20/52	Houston, TX	10:10 PM. Bright orange light moving towards witnesses. First seen at a 45 degree angle in the north. The object traveled south for 90 seconds before turning towards a 300 degree bearing. Faded into distance.
78	5/28/52	Saigon, Indo China	10:30 AM. Round, white-silver colored, brilliant object moving in and out of clouds. It moved in a straight line at great speed. Visible for two minutes. Observed to the south at 45 degrees elevation.
79	5/28/52	Albuquerque, NM	1:45 PM Three pinkish colored objects in trail formation in NE quadrant of sky. Moved towards observers and then rose in a sharp clockwise circle. Disappeared due to extreme altitude. 2:00 PM Two more orange objects were seen moving from NE to NW. 2:40 PM. Single object flew from NE to SE at high altitude.
80	6/1/52	Rapid City, SD	6:00 PM. Five or more objects in box-like formation, with leader in front, traveling south for 15-20 seconds.
81	6/1/52	Walla Walla, WA	1:00 PM. Small oval object with "airfoil" moved from southeast to east climbing rapidly. Duration 7 seconds.
82	6/1/52	Soap Lake, WA	3:45 PM. Three objects flying east and disappeared after 10 minutes.
83	6/5/52	Lubbock, TX	11:00 -11:45 PM. Eight spherical objects seen over a period 45 minutes. Six of the eight were seen singularly. Two were seen as a pair in trail formation. Seven of the objects appeared in the north and disappeared in the south after one and a half to three minutes. One object flew south to north.
84	6/5/52	Offutt AFB, NE	11:00 PM Sighted bright red light hovering in SSW. After four to four and a half minutes, it proceed southward at a high rate of speed. It disappeared in 2-3 seconds trailing a short tail.
85	6/6/52	Kimpo AB, Korea	8:42 AM. Round, silver object traveling SE. It rotated once every seven seconds. It approached the field for three minutes. It then rose and turned towards the ENE. After passing near the sun, it was picked up again moving back and forth for 30 seconds before disappearing. Total duration estimated at 4 minutes.
86	6/6/52	5 miles NNE of Minneapolis, MN	8:45 PM (June 5). 20 red to white objects sighted within 3 minutes. They were in trail formation flying in groups of four or five spaced 1-3 seconds apart. Course was from south to north.
87	6/7/52	Albuquerque, NM	11:18 Object passed near B-25 at an altitude estimated to be 500 feet below the aircraft. It traveled from 60 to 120 degrees relative to the aircraft. No duration.
88	6/8/52	Albuquerque, NM	10:50 AM. Four objects in diamond shaped formation traveling from north to southwest. No duration.
89	6/12/52	Marrekech, Morocco	11:26 AM. Aerial object tracked on radar at an altitude above 60,000 feet. It was heading towards 180 degrees and shifted course to 165 degrees. Speed measured at 652 knots.
90	6/13/52	Middletown, PA	8:46 PM. Orange round object went south, paused one second, went east, paused one second and then proceeded downward to the horizon in the ESE. Observation period was 10 minutes.
91	6/15/52	Louisville, KY	11:50 PM. Cigar-shaped object lighted on both sides maneuvered over the area for 15 minutes. Disappeared to the northeast.

92	6/17/52	McChord AFB, WA	7:30-10:20 PM. Multiple observers reported seeing objects during this time period. The number varied between 1 and 5. General consensus on flight path was from ESE to ENE. Durations varied up to 15 minutes.
93	6/19/52	Goose AFB, Labrador	2:07 AM Red object traveling in a wobbly path from NE to SW in one minute. Target tracked on radar to east unrelated to visual sighting.
94	6/19/52	Yuma, AZ	2:00 PM Object moving from West to East in 10 seconds. Crossed in front of sun.
95	6/20/52	Korea	3:03 PM. Oval object seen from F4U aircraft on ground support mission. It approached from the south, made a couple of left-hand orbits, and headed east. One aircraft attempted to pursue but it was too fast and pulled away rapidly.
96	6/22/52	Korea	10:45 PM. Orange object coming from the north over airstrip. Object descended trailing a bright red flame to a point over the west end of the airstrip in 2-3 seconds. It went west and hovered over hills where it performed a 180 degree turn in 45-60 seconds. It then emitted bright flash and headed east where it produced another flash and disappeared.
97	6/23/52	Spokane, WA	4:05 PM. Round object flashing and gyrating. Traveled from ESE to NNE in 5-7 minutes.
98	6/23/52	McChord AFB, WA	9:00 PM. Yellowish-white light flew from south to north in 10 minutes.
99	6/23/52	Kirksville, MO	7:30 PM. Radar target NNW and 90 miles distant. Object went 120 miles in 2 minutes along the same bearing.
100	6/23/52	Near Owensboro, KY	10:00 AM. Individual looked up after hearing jet noise and saw two round objects that looked like soap bubbles. They were yellowish-lavender color. The two objects proceeded north in trail and vanished in five seconds.
101 -13	6/25/52	Japan, Korea	This is a collection of fifteen radar tracking reports between 1951 and 1952 in the far east region. See SUNlite SE-2 for my analysis. I removed two of the cases for insufficient information and one of the cases was a duplicated entry for April 18, 1952
114	6/27/52	Topeka, KS	6:50 PM. One brilliant red light hovering and pulsating due south of Topeka. Disappeared after 5 minutes.
115	6/28/52	Lake Koshkonong, WI	6:00 PM. White object traveling on a SW course. Object performed a 180 degree turn when aircraft approached and the disappeared. 10 second duration.
116	6/28/52	Nagoya, Honshu, Japan	1:10 AM. Pulsating elliptical dark blue object moving from SW to NE. Speed slightly faster than a jet. Disappeared in clouds. No duration.
117	6/29/52	O'Hare Airport, Chicago, IL	5:45 PM. One bright, silver-colored, oval object observed for 45 minutes. Object went southwest and then north before returning to original position. Object vanished at end of sighting.
118	7/9/52	Colorado Springs, CO	12:45 PM. One white object shaped like one-half of an airfoil that cork-screwed as it flew slowly northwestward over a twelve minute period.
119	7/9/52	Kutztown, PA	6:30 PM. Came right out of sky in southwest, headed east, and disappeared. Visible 20 seconds Photographs by John Mittl show blurry disc.
120	7/9/52	Rapid City AFB, SD	3:30 - 3:40 PM. Object traveled from SW to NW side of airbase and hovered erratically for 3-4 minutes before disappearing. In another sighting, One object going south to north. One minute later a second object was sighted along the same route. One minute later a third object was sighted along the same route. All took about 5 seconds to go across the sky.
121	7/12/52	Annapolis, MD	3:30 PM. Four objects abreast approached transport aircraft flying south. Within 4-5 seconds, they rapidly caught up with the aircraft and then stopped for a second, performed a right angle turn, and resumed their flight to the south. They disappeared 3 seconds later.
122	7/13/52	Kirksville, MO	0300Z (9PM July 12). Unidentified object tracked going SE at 1500 knots. No visual confirmation.
123	7/14/52	Norfolk, VA	8:12 PM. Nash-Fortenberry sighting. Six/eight round amber-red objects approached aircraft in echelon formation from 240 degrees (heading 60 degrees), changed direction 150 degrees, and departed at a heading of 270 degrees. Their light appeared to increase and decrease in brightness depending on their speed/power applied.
124	7/15/52	West Palm Beach, FL	10:10 AM EST. Object came from NW and paused above an aircraft before proceeding SE. Duration 90 seconds.

125	7/17/52	White Plains, NY	3:10 PM. Witness heard whistling sound and saw two objects, connected by a bar, traveling from NW to SE for 60 seconds. Object made right angle turn and disappeared.
126	7/18/52	Lockbourne AFB, OH	10:10 PM EST Egg-shaped object with flame coming out the rear sighted at 260 degrees azimuth and 30 degrees elevation. Traveled in straight line towards east giving bursts of flame every three seconds. Disappeared at 90 degrees azimuth 25 degrees elevation. Visible 90 seconds.
127	7/18/52	Miami, FL	11:00 AM. Heard sound of aircraft and looked up to see round silver object going from west to east to the south. After ten seconds the object disappeared in the east.
128	7/19/52	Elkins Park, PA	11:35 PM EST. Two lights observed overhead in trail formation heading towards the NNE. Objects performed circling/accelerating maneuvers for 6 minutes before disappearing about halfway between the zenith and horizon.
129	7/20/52	Lavalette, NJ	12:20 - 12:25 AM. Two yellow-orange star-like objects came from south and traveled northward. When east of the observers, the two objects turned to the west. As the objects passed to the north of the observers, the objects turned towards the south. One of the objects faded and the other object proceeded westward and disappeared. Total duration was 5-6 minutes.
130	7/21/52	Weisbaden, Germany	19:25-19:40Z. Four bright yellowish-white objects traveling from NNW to SSE. As they approached the position of the observer, they split up. Two climbed, one went east, and one went west. The one that went east disappeared but the other three remained visible for 15 minutes.
131	7/21/52	Randolph AFB, TX	4:30 PM. Elongated fuselage-shaped object flew in straight line from NW to SE and then made right angle turn straight up and out of sight. Duration 3-5 seconds.
132	7/22/52	Rockville, IN	8:10 PM. Aluminum or silver, triangular-shaped object going from SW to NE in three minutes. As it moved north, it stopped for about 30 seconds and then went north.
133	7/22/52	Uvalde, TX	2:46 PM. Large, round, silver object traveling from east to southwest in a gyrating motion. Disappeared behind cloud after 45 seconds.
134	7/22/52	Los Alamos, NM	10:50-11:15 AM. Approximately eight elliptical objects visible to the southwest. While viewing with binoculars, each object moved about in various directions. They eventually disappeared over a twenty-five minute period.
135	7/23/52	Boston-Provincetown, MA	10:47 PM EST (July 22). Two flickering white light and blue circle lights flew by three F-94s heading east. One F-94 turned and gained altitude to pursue object. Saw visually for about 30 seconds and obtained radar lock for four minutes. After igniting afterburner and closing within 3000 yards, the object conducted a hard turn right and radar broke lock. Aircraft did not gain contact.
136	7/23/52	South Bend, IN	11:35 PM. Two Bright blue lights traveling south for nine minutes. At the end of their trajectory, the rearward light turns towards the west.
137	7/24/52	Carson Sink, NV	3:40 PM Three silver-white arrow-shaped objects visible for 3-4 seconds. Objects passed in front of aircraft in a bank. Moved from one O'clock position to aircraft (heading 230 degrees) to the left side of aircraft before disappearing.
138	7/24/52	Travis AFB, CA	10:15 PM PDST. Reddish glowing object, much larger than a star, with halo hovered at an elevation of 5-20 degrees in the SSW. Moved towards west after four minutes. Disappeared after one minute. Duration 6 minutes.
139	7/26/52	Williams, CA	1:15 - 2:20 AM. One spherical orange object with a perpendicular tail suspended beneath it. Moved about in an uneven pattern at a bearing of 45 degrees and five degrees above the horizon. F-94 sent to intercept. Achieved three radar locks around 2:00 AM. Radar contact faded.
140	7/27/52	Selfridge AFB, MI	10:05 AM. Five individual silver-white objects seen spread out over a period of 15 minutes traveling at high speed from overhead or north to south in 20-30 seconds.
141	7/27/52	Wichita Falls, TX	8:30 PM. Two disc-shaped objects glowing with phosphorescence moving across the sky, came to a complete stop, made a half circle and then flew towards the SE. Duration was 15 seconds.
142	7/28/52	Heidelberg, Germany	10:20 PM. Saucer shaped object seen in the east emitting shafts of light. After 4-5 minutes, made a right angle turn, ascended, and disappeared.

143	7/28/52	McGuire AFB, NJ	6:00 AM. Multiple targets appeared on radar scope in various directions. Tower sighted one object they could not identify that approached from the NE, turned, and departed to the NE.
144	7/29/52	Osceloa, WI	1:30 AM. Objects tracked on radar over a one hour period. One target tracked at 600 knots. The remainder of the targets were sightings of groups of targets moving at about 50-60 knots in an easterly direction. F-51 sent to intercept. They reported objects at 125,000 feet that had some correlation with the radar contacts.
145	7/29/52	Langley AFB, VA	7/26/52 2:30 PM EST. Radar detected object coming from south at a speed of 2600 mph for two minutes. Target disappeared as it approached within 8 miles of air base. 7/26/52 2:50 PM EST. Radar detected object moving away from Langley AFB to the east at high speed for four minutes.
146	7/29/52	Merced, CA	3:44/4:35 PM. Heard noise like jet fighter and looked up to see dark round object to SE. Object dove and then stopped. It then made two slow circles to the left before departing at high speed to the NNE. Total duration was two minutes.
147	7/29/52	Wichita, KS	12:35 PM. Bright, white, circular object moved from NW to SE in 10-15 seconds.
148	7/29/52	Ennis, MT	2:00-3:00 PM. Dark colored object hovering over mountains to the NE formed up a cloud around itself. Three smaller objects then came out of and then disappeared behind the cloud. Then a formation of five objects came out of the cloud and each formed their own cloud before disappearing into the first cloud. After thirty minutes, another cloud formed to the W and the same phenomena was observed. 8mm film camera recorded event (either lost or never submitted for evaluation).
149	8/1/52	Lancaster, CA	11:14 PM PDT. Two yellow-white lights observed in south sky 20 degrees elevation above southern hills. Pair went west descending to five degrees above the horizon. One of the two then returned to its original position before fading from view. The object in the west remained in the west and descended to the horizon after 14 minutes.
150	8/4/52	Phoenix, AZ	1:20 AM MST. One glowing orange object seen to NW traveled to NE in five minutes. 2:20 AM MST. One long narrow shaped object moving from NNE to West in five minutes.
151	8/4/52	Mount Vernon, NY	11:37 AM EST. On round object with hole in bottom and smoke coming out of top flying north to south leaving a blue exhaust trail. Traveled 15 degrees of arc in 90 seconds. Visible for two hours.
152	8/6/52	Belleville, MI	I could not locate this case. Brad Sparks states "Military witness(es). (Sparks; NARA)" and nothing else. I suspect it is a duplicate of Port Austin since they happened on the same date and are near each other (roughly 80 miles apart). Both are radar sites. The message for Port Austin mentions Belleville.
153	8/6/52	Port Austin, MI	11:19 AM CST. Multiple radar contacts tracked at speeds up to 1200 mph.
154	8/7/52	San Antonio, TX	9:08 AM CST. Four round objects performing erratic maneuvers for 70 minutes. One came from west, did a U-turn and disappeared. The second came from the north heading south. It accelerated and disappeared. The third object also appeared from the north and moved slowly south. The fourth object appeared in the north and passed the third object. It made a large circle and headed east, disappearing near the sun.
155	8/9/52	Lake Charles AFB, LA	1:50 AM CST. One round shaped object moving from north to south, stopped to hover for two seconds over the base and disappeared in the west. Cloudy sky conditions.
156	8/13/52	Tokyo, Japan	8/10/52 9:45 PM. Flare plane saw orange light orbiting left to the east, heading west. Spiraled down in altitude, stopped for 2-3 minutes, and disappeared.
157	8/19/52	Red Bluff, CA	2:38 or 2:47 PM. Two round objects headed from north to south in 10-25 seconds.
158	8/21/52	Dallas, TX	11:54 PM CST. Three blue-white lights hovered in the north for 2-3 seconds and moved downward before disappearing. About thirty second later, another light was seen moving downward and disappearing.
159	8/23/52	Akron, OH	4:10 AM EDT. Round orange light flew on a course from the west to ESE and disappeared over the horizon after seven minutes.

160	8/24/52	Hermanas, NM	10:15 AM MST. Pilot in F-84 heading east, at 35,000 feet, saw two silver balls at 10 O'clock and 11 O'clock position. They changed shape/color as they moved past observer. One made right turn in front of aircraft and disappeared. Second accelerated rapidly. Seen for 3 minutes. Seven minutes later, over El Paso, they were sighted again. One climbed rapidly and was joined by the second, which crossed in front of the aircraft. 10 minutes duration second sighting.
161	8/24/52	Tucson, AZ	5:40 PM MST. Round white light observed traveling from the north to west where it dimmed out and disappeared at 5:42 PM.
162	8/24/52	Levelland, TX	9:30 PM CST. Two "Top-shaped" objects observed. First object hovering for 20 minutes before taking three minutes to disappear to the NNW. One hour later, a second object was observed and repeated the same maneuvers. Objects changed colors red-yellow-blue.
163	8/25/52	Pittsburg, KS	5:35 AM CST. Object described as two elliptical platters placed face-to-face hovered above ground for 30 seconds. It then rose and disappeared in ten seconds. Object had window in front with the head and shoulders of a man visible in it. There were other windows visible on the object.
164	8/25/52	Delaware, OH	8:20 PM EST. Object seen intermittently to the south for 1 hour and 15 minutes. Seen through telescope by astronomer. Five lights were visible in cross formation. The bottom light was flashing red and the others were yellow. Moved 40 degrees of arc in 15-20 seconds. (Somewhat confusing was the speed of the object and the duration of observation)
165	8/25/52	Holloman AFB, NM	3:40 PM MST. Traveling in vehicle and saw object going fast in a southward direction. It then made a 360 degree turn, went north, rose through cloud, and conducted another 360 degree turn. Climbed straight up and out of sight. Seen for 3-5 minutes.
166	8/26/52	Biloxi, MS	4:15 AM. Round reddish-orange object seen to the ESE. Appeared to be moving on ESE course. Object visible for 46 seconds.
167	8/30/52	Tampico, Mexico	3:00 PM. Silver, oval-shaped object hovering to the north for five minutes before disappearing at dazzling speed to the north. Newspaper clipping with no formal investigation.
168	8/29/52	Coast of Greenland. 77N 75.15W	1550Z. 2 pilots in PB4Y2, while following a research balloon, saw three objects in a triangular formation that remained stationary relative to the balloon for two minutes. The objects then disappeared in five seconds by rapidly departing.
169	9/1/52	Yaak, MT	4:45-5:45 AM MST. Two or more colored lights to SE. Colors varied green-blue and then remained yellowish-white. Moved in erratic manner in small area. Black silhouettes at dawn. Duration 30 minutes. Radar contacts detected later determined to be ground targets recorded through a temperature inversion.
170	9/2/52	Chicago, IL	2:50 AM CST. Forty objects tracked on radar moving at 120-150 mph towards NW. Air traffic and interceptors could not see any targets visually. Targets all disappeared by 7:00 AM CST.
171	9/3/52	Tucson, AZ	9:00 AM MST. Dark, elliptically shaped object performed turns for about 90 seconds. 20-60 degrees above horizon. Made three sweeps parallel to horizon going from South to north, north to south, and south to north where it disappeared to the SW.
172	9/6/52	Tucson, AZ	4:55 PM MST. A bright orange tear-drop shaped object descended and ascended in the southeast for 2.5 minutes before disappearing.
173	9/7/52	San Antonio, TX	10:30 PM CST. Orange-red object seen to flare up and fade out for 20 seconds in the northwest at 30 degree elevation. Other observer saw the object to the east for 3 seconds.
174	9/7/52	San Antonio, TX	Berliner does not list a second case on this date. Sparks lists it but gives no information about the case. The 10:30 PM sighting included two different observers. This may be a duplicate or the second set of witnesses.
175	9/14/52	Operation Mainbrace	2113Z (2213A). Three objects in a triangular formation traveling at high speed towards a bearing of 320 degrees. Shifted direction to 240 degrees in 5-10 seconds. Additional sighting from destroyer appears to have been a meteor.
176	9/14/52	Olmstead AFB, PA	3:35 AM EDT. Personnel heard noise and saw brilliant blue object move from NW to South. Visible 3-4 minutes.

177	9/16/52	Warner Robins, GA	7:30 PM EST. Two white colored lights moving from NE to SW. Duration 15 minutes.
178	9/17/52	Tuscon, AZ	11:38 and 11:40 AM MST. Two formations of three objects each observed. First formation headed NW at slow speed. The second formation traveled to the SW at a faster speed. Both formations were visible for one minute each.
179	9/23/52	Gander Lake, Newfoundland	A bright light moved slowly towards the direction of Gander airport in the East. Duration 10 minutes.
180	9/24/52	Charleston, WV	3:30 PM CST. B-29 flew through a cloud of metallic particles for 10-15 minutes. No damage to plane.
181	9/26/52	Atlantic	1:16Z. Two green to white lights blinking irregularly seen to the SSW of C-124 flying toward the Azores in the SE. Visible for over an hour.
182	9/27/52	Inyokern, CA	10:00 PM PST. Round object changing color observed over Mojave desert to the north-east. Slowly rose over one hour and then descended rapidly before disappearing and leaving a vapor trail behind it.
183	9/29/52	England	1555Z. Two disc-shaped objects initially hovering overhead, proceeded at high speed in SE direction before disappearing into clouds. Visible for three minutes.
184	9/29/52	Southern Pines, NC	8:15 PM EST. Green, elliptical object with a longish tail rapidly orbiting CCW in a circular path. Object then stopped and tail disappeared.
185	10/1/52	Shaw AFB, SC	6:57 PM EST. Brilliant white light observed by RF-80 pilot on a heading of 60 degrees at 22,000 feet. Light moved from left of aircraft to right side of aircraft and back to left side for 23 minutes. Pilot was unable to intercept before it disappeared.
186	10/1/52	Pascagoola, MS	7:40 PM CST. Round white object stationary for 5-10 minutes in the West. It then moved to the SW before proceeding "extremely fast" towards the NE. Total observation time 22 minutes.
187	10/10/52	Otis AFB, MA	6:30 PM EST. Blinking white light flew upward and began a pendulum like motion for 20 minutes and then shot straight up.
188	10/19/52	San Antonio, TX	1:30 PM CST. Three round aluminum-like objects flew from north to south in 3-4 minutes.
189	10/21/52	Knoxville, TN	No time given. Six white objects seen in the west with theodolite while tracking balloon. While no time is given, the event appears to have enough information for analysis.
190	10/29/52	Erding Air Depot, Germany	0650Z. Silver colored object sighted moving in a steady path towards the WNW. Visible for 20 seconds.
191	10/31/52	Fayetteville, GA	7:40 PM EST. Orange object shaped like a blimp moved in an eastward direction across the highway at slow speed and accelerated towards the horizon. Duration approximately 1 minute.
192	11/3/52	Laredo, TX	6:29 PM CST. Long elliptical object traveling from SW to SE in 3-4 seconds. It paused momentarily to the south. Overcast skies.
193	11/13/52	Glasgow and Opheim, MT	2:20 AM MST. Radar track to ESE at speed of 210 knots. 2:43 AM MST Five objects in V formation coming from NW took a right turn and disappeared to the SW in 20 seconds.
194	11/15/52	Wichita, KS	8:25 PM CST. A round blue light with an orange glow trailing it moving north at tremendous speed and rising. Duration 5 minutes.
195	11/24/52	Annadale, VA	6:30-7:30 PM EST. Glowing object traveling from south in northerly direction. Made right angle turn and then performed 180 degree turn. Repeated path several times. Visible for one hour.
196	11/27/52	Albuquerque, NM	11:10 PM MST. B-26 departing Albuquerque encountered many puffs of black-yellow smoke.
197	12/8/52	Ladd AFB, AK	8:16 PM AST. Bright light heading 240 degrees for three minutes. Object then took on the characteristics of a meteor falling at azimuth 160 degrees.
198	12/9/52	Madison, WI	5:45 PM CST. Pilots in T-33 saw four bright lights in a diamond formation to the SW of their aircraft. Lights going SE and then turned to east. Chased by T-33, which had to land due to low fuel. No silhouette but just a formation of lights. Duration 10 minutes.
199	1/8/53	Larson AFB, Washington	7:15 AM PST. One green disc-shaped object moved to the SW bobbing vertically and going sideways for 15 minutes.

200	1/10/53	Sonoma, CA	3:45 PM PST. Silver colored object traveled NW performing 360 degree circles and right angle turns but returning to NW course. It then stopped, rose vertically, and disappeared from view. Duration 60-75 seconds.
201	1/17/53	Guatemala	3:55 PM CST. Brilliant greenish-gold traveling NW for 22 seconds. At one point, object hovered for a few seconds before resuming flight. Seen from inside a bus.
202	1/28/53	Frankfort, Germany (see Stuttgart folder)	1852Z. Steady bright light passed in front of C-47 aircraft, which was flying due north, at a 45 degree elevation from left to right. Object turned to the north and then conducted many maneuvers until it departed to the north at high speed. Visible for 90-150 seconds.
203	1/28/53	Point Mugu, CA	1:00 PM PST. White object traveling at high speed towards the East for 6 minutes. Duration listed as 6 minutes because sighting was between 1:00 and 1:06. Actual duration, based on description, appears to have been shorter.
204	1/28/53	Corona, CA	6:05 PM PST. Five round green objects in loose V-formation traveling from SE to NW for 12 minutes.
205	1/28/53	Albany, GA	9:50 PM EST. Circular object changing colors 15 degrees above horizon at azimuth of 250 degrees. Faded after 8 minutes. Identified as Venus. Two unidentified stationary radar contacts at 27 and 17 miles distance, azimuth 300 degrees.
206	1/29/53	Houlton, ME	9:55 AM EST. Dark gray object seen by F-94 at 70 degree azimuth and 10 degrees elevation for four minutes. Attempted intercept but could not catch target and had to return to base due to fuel. Radar not functional.
207	2/3/53	Iceland	18:25Z. Three stationary radar contacts to the NW over a period of 24 minutes.
208	2/4/53	Yuma, AZ	1:50 PM MST. Two white objects seen with theodolite going west. One of the objects was crossing over the path of the other. From 157 degrees azimuth 53 degrees elevation to 204.1 degrees azimuth 29.1 degrees elevation. Visible for 5 minutes.
209	2/10/53	Richmond, VA	6:15 AM EST. Two circular objects orange in the center and blue on the edges approached from east and moved SW and disappeared. Reappeared heading in a westerly direction. They then turned north, reversed, and then went south before disappearing. Visible 5 minutes. Additional witnesses gave varying accounts of the two lights.
210	2/17/53	Port Austin, MI	10:04 PM EST. Object seen to the west for 5 minutes changing from red to white. Identified as Venus. 10:08 PM EST, Radar operator tracked contact at azimuth 300 degrees, distance 10 nm, moving south at 55-60 knots. Target lost at azimuth 210 degrees, distance 10 nm, 17 minutes later. Unidentified.
211	2/24/53	Sherman, TX	7:40 PM CST. Two Red lights seen against/through overcast. One was only seen briefly. The other rotated and climbed slowly before disappearing. Visible 3-7 seconds.
212	3/14/53	Sea of Japan	11:45 PM JT. 20 groups of lights observed by P2V aircraft with radar tracking of target that appears to be independent of the lights. Lights looked like tracers but were not tracers. Duration five minutes.
213	3/21/53	Elmira, NY	3:05 PM EST. Six disc shaped objects traveling from overhead to the north at high speed. Visible for just a few seconds.
214	3/25/53	San Antonio, TX	11:15 PM CST. Multiple yellowish lights appeared in the north and went south at high speed. As lights disappeared, more appeared and followed same path with no more than 3 being visible at once. Some performed circles as they traveled south. Visible for 90 minutes.
215	3/27/53	Mt. Taylor, NM	7:25 PM MST. F-86 pilot saw a bright orange circular object that descended, performed three fast rolls, and disappeared. Pilot could not catch object. Course 340 degrees. Duration 4 minutes.
216	3/29/53	Spooner, WI	3:45 PM CST. Aluminum colored object traveled at high speed. Traveling north, reversed direction, and then resumed northerly course. Duration 15 seconds.
217	4/8/53	Fukuoka, Japan	7:55 PM JT. F-94 pilot saw a dark object burst into a bright blue flame 20 degrees relative to the aircraft and crossed in front descending to position 350 degrees relative. The light then moved to relative position of 2 degrees before going away from the aircraft before disappearing. Total duration was 45 seconds.

218-21	4/15/53	Tuscon, AZ	9:45 PM MST. Four reddish-orange objects traveling at a high rate of speed. All came from the north. 9:45 PM Object went south and then made a turn towards 280 degrees. Duration 3 minutes. 10:00 PM Object went south and then made a turn towards 280 degrees. Duration 1 minute. 10:07 PM Object went south and performed a 360 degree circle and disappeared. Duration a few seconds. 10:22 PM Object went south and made a turn towards 280 degrees. Duration 30 seconds.
222	5/1/53	Goose AFB, Labrador	11:20 PM AT. F-94 traveling south and saw round white light below the aircraft traveling north. Object made an orbit at a high rate of speed. Attempts to intercept and make radar contact failed. Duration 30 minutes.
223	5/27/53	San Antonio, TX	8:30 PM CST. Nine Orange-White lights traveling in a NNE direction spread out over a 15 minute duration.
224	6/21/53	Naha and Kadena, Okinawa	7:00 PM JT. First sighting: Spherical to star-like object viewed in theodolite and visually traveling NW. Unidentified. Second sighting to WSW identified as aircraft.
225	6/24/53	Iwo Jima	10:30 PM JT. Unidentified radar targets tracked from KB-29 for 15 seconds at 10:30 PM, 90 seconds at 10:40 PM, and 15 seconds at 10:50 PM. During second contact, right scanner saw some lights that were identified as ground lights from Iwo Jima. No other visual sightings were made. Radar contacts remain unidentified.
226	6/24/53	Simutak, Greenland	10:45 AM GT. Red circular rotating object seen through theodolite while tracking weather balloon. Balloon burst when object was near the balloon. Object hovered for 15 seconds and then began traveling to the west for 5 minutes.
227	7/22/53	Atlantic City, NJ	8:45 PM EDT. Twenty objects came out of clouds with vapor trails. Each were in the form of pairs. Visible for 11 minutes.
228	8/3/53	Amarillo, TX	12:04 PM CST. Object seen, from airport tower, to the north moving from west to east. When it was towards the NE, it stopped for seven seconds and then began moving south to where it stopped again to hover over the airport. A second object was seen coming from the north. They both hovered over the airport for 10 seconds. First object went straight up and disappeared. Second object went south and disappeared in four seconds. 15 minutes later, the observers saw, what appeared to be the same two objects, near the sun. They were seen briefly every time and kept reappearing/disappearing for 45 more minutes. Objects last seen at 1:00 PM CST.
229	8/20/53	California area	2:05 PM PDT. Left scanner saw oval-shaped grayish object make pass at aircraft towards SE. Three subsequent sightings of object ranging from ten to seven o'clock position. Right scanner saw third pass for six seconds. Total duration 2-3 minutes.
230	9/2/53	Sidi Slimane, French Morocco	21:14Z. Crew of C-47 observed bright white light observed above aircraft. Object rapidly closed with C-47 and nearly collided. Object then performed two 180 degree turns followed by a 90 degree turn towards highway that parallels airstrip and then hovered before disappearing. Duration 3 minutes.
231	9/22/53	Hayward, CA	11:45 AM PST. Yellow, thin, triangular-shaped object seen approaching city from NW at a slow speed. It then performed a near vertical climb and disappeared. Duration 5-8 minutes.
232	9/28/53	Palmdale, CA	7:10 PM PST. F-94, flying on a bearing of 230, detected target on airborne radar for 15 seconds. Target flying at 60 degree bearing and 2000 knots. Operator lost target while change modes of operation for radar. Second F-94 over Newhall CA on a course of 230, saw orange object at azimuth 140, which disappeared.
233	10/15/53	Minneapolis, MN	10:10 AM CST. Object moved in horizontal flight towards the SE for 30 seconds leaving a vapor trail. It then dove for 10 seconds before disappearing. Total duration 40 seconds.
234	10/19/53	Bolling AFB, WA	9:35 PM EST. White spheroid that glowed with red exhaust. First seen in south at elevation of 35-40 degrees. Object went eastward and upward for about 25 seconds. It then looped and headed south for 25 seconds and disappeared at an elevation angle of 35-40 degrees.
235	10/29/53	Mapleton, ME	9:30 PM EST. Two round objects emitting a green glow changing to white traveling north in triangular patterns. Third object trailed other two with a blue flaming tail. Objects 80 degree elevation and 120 degrees azimuth. Moved to 80 degree elevation and 90 degrees azimuth.

236	11/18/53	Maitowoc, WI	12:45 PM CST. Silver sphere-shaped object stationary for 15 minutes at 25 degrees elevation due north. Seen again at 3:15 and 4:15 pm. Disappeared at 4:40 PM. Total duration 45 minutes.
237	12/17/53	Hassleholm, Sweden	13:37Z. Seen by pilot, who saw a spherical robot-like object pass beneath his aircraft. It was visible for 6-7 seconds.
238	12/24/53	El Cajon, CA	8:04 AM PST. Two pilots in F-9Fs observed ten silver oval objects flying east at high altitude for 5 minutes.
239	12/28/53	Marysville, CA	3:55 AM PST. One brilliant blue saucer-shaped object hovered momentarily and then moved north before disappearing. Visible for 90 seconds.
240	1/28/54	Rangeley, Maine	10:15 PM EST. Bright light Descending from NW to NNE. Object descended below the hill line and was passing in front of mountain. Visible 15 minutes.
241	2/26/54	Newburyport, MA	3:30 PM EST. Disc type silver object made intense roar and descended from an elevation angle of 60 degrees. Leaving a trail, it moved towards SE over a period of 30-60 seconds.
242	3/2/54	Pennsylvania	10:10 PM EST. Three amber floating lights to the west of Olmstead AFB, moving NW, visible for 30 minutes.
243	3/5/54	Nouaceur, French Morocco	20:00Z. Aircraft making landings reported seeing lights in landing pattern. No radar contacts other than stationary targets that appear to have been ground reflection. One sighting had insufficient information.
244	3/12/54	Nouaceur, French Morocco	9:35Z. Fighter pilot, flying on course of 010, saw an unidentified object in front of aircraft. Accelerated to intercept but could not catch up with object. Object disappeared from sight in 30 seconds.
245	4/23/54	Pittsfield, ME	4:30 AM EST. Circular saucer with dome on top and flashing light. Made a sound like a swarm of bees with a whirlwind beneath object that moved stones. Went from 70 to 30 degrees azimuth for four minutes before rising vertically and out of sight.
246	4/24/54	Hartland, ME	4:10 PM EST. One oblong object with dome on top and flashing light visible on horizon for 15 minutes. It rose vertically and disappeared.
247	5/10/54	Elsinore, CA	12:40 PM PST. Pilot flying at azimuth 240 degrees. Saw dark object approaching wingman from his 11 o'clock bearing. Before he could react, the object passed over his wingman's cockpit and between the two aircraft. Object appeared to be traveling on a 30 degree bearing and descending. Dark object appeared to be delta wing shaped and had a third fin on it. Object only visible for a few seconds.
248	5/11/54	Washington, DC	12:45 AM EDT, 1:15 AM EDT, 2:10 AM EDT. Two objects visible three times for a maximum of 45 seconds. Started in the NE and flew to the south. Objects flew in a straight path and made 90 degree turns. Lights gradually faded out of sight. 2/10ths cloud cover.
249	5/22/54	La Porte, IN	9:15 PM EDT. Yellow light climbing (10-40 degrees elevation) from NW to N. Went out suddenly after 45 seconds.
250	6/8/54	Texarkana, TX	1:00 AM CST. Bright yellow circular object moving downward from NE to SW in 2 minutes.
251	6/10/54	Estacado, TX	9:09 PM CST. White light seen from aircraft. Object came from high altitude and descended to low altitude near ground level. Slowed down and made two 360 degree turns. Duration 30 seconds.
252	6/22/54	Miami Beach, FL	9:00 PM EST. Bright white light descended from azimuth 30 degrees. Stopped at angle of elevation of 10 degrees and azimuth 10 degrees. It hovered and gradually faded after 7 minutes.
253	6/24/54	Danvers, MA	11:45 AM EST. Small, white, elliptical object moving in a straight course of SW to NE for 30 seconds.
254	6/25/54	Indian Lake, OH	5:05 PM EDT. Pilot in private aircraft observed shiny object with flat bottom and cone-shaped top. Object sped up at high speed and disappeared to the SE after 3-5 minutes. Radar contact seen in area that was moving on a bearing of 170 degrees and disappeared off of the display in one minute. Card identified visual as balloon and radar as unidentified.
255	7/18/54	Normandy, MO	8:40 PM CST. Greenish-white object at 30 degrees elevation and 30 degrees azimuth moving west. Disappeared to NW by fading from view.

256	8/2/54	Westlake, OH	5:17 PM EST. Very bright elliptical object hovered 5-8 seconds, dropped in elevation in 3 seconds, held the new position for 10 seconds and then disappeared. Objects azimuth was 260 degrees.
257	8/6/54	San Antonio, TX	6:00 PM CST. Small intense white light varying in color to yellow, orange, and, finally, pink in three cycles. Observation at 45 degrees elevation traveling 15 degrees in 5 minutes before disappearing.
258	8/15/54	San Marco, TX	10:20 PM CST. Dark blue silhouette paced aircraft and then crossed in front of the aircraft before disappearing. Duration 5 minutes.
259	8/26/54	Danville, VA	6:15 AM EST. Two silver, elliptical objects glowing orange with dome on top rose hovered in NW. Objects rose and disappeared after 2 minutes.
260	8/27/54	Dorchester, MA	1:00 PM EDT. Seven tear drop-shaped objects changed from white to blue as the traveled in line formation to the NW for 7 minutes.
261	8/29/54	Prince Christian, Greenland	14:05Z. Pilot observed 3-4 dark lenticular shaped objects in formation north of his position/track. Objects traveling on parallel track with aircraft for 10 minutes before disappearing.
262	9/23/54	Gatlinburg, TN	9:45 AM EST. Two bicycle wheel-shaped objects flew in trail formation north to south in two minutes.
263	10/13/54	Nouaceur, Morocco	10:05Z. Small round object seen with theodolite moving from 243 azimuth 64 degrees elevation to 30 degrees azimuth 40 degrees elevation in 30 seconds.
264	10/28/54	Miho AB, Japan	5:32 PM JT. Round to oval object went from SSW at 12-15 degrees elevation to SW at 20-25 degrees elevation in 45 seconds. Flew in front of clouds. It then turned north and disappeared behind a cloud.
265	10/29/54	Azores	23:00 Z. Stove pipe shaped object with short wings and central bulge hovered over observer's yard for 4-5 minutes. Made Gargling sounds and yellow patches appeared in lawn as object approached from the south. Disappeared when airplane lights approached.
266	11/28/54	Manila, Philippines	2:50 Z. Bright orange, circular, dome-shaped object, with orange saucers attached to sides, visible for 4 minutes and 3 seconds. Observer saw object approach for three minutes, reverse direction, then execute a 180 degree turn, and then hover for one minute. It rapidly departed north in three seconds leaving a trail.
267	12/3/54	Gulfport, MS	12:12 PM CST. Round object hovered and departed to SE in 30 seconds.
268	12/7/54	Cape Province, South Africa	11:15Z. Semi-circular object with dome on top moved slowly from west to east and then turned north. Visible for 7 minutes.
269	1/1/55	Cochise, NM	6:44 AM MST. Pilot in B-25 saw disc shaped object that paralleled his aircraft's track from ESE to WNW for 7 minutes and disappeared.
270	2/1/55	Cochise, NM	7:55 PM MST. Very bright spherical red and white object off port wing of aircraft for 5 minutes. Made steady climb and disappeared for 3 minutes. Course of object was west to east.
271	2/2/55	Miramar NAS, CA	11:50 AM PST. Observer in vehicle watching aircraft land notice object falling with an erratic motion. Changed from white to reddish-brown. Accelerated to tremendous speed and left brown vapor trail heading towards a bearing of 170 degrees. No duration listed but it appeared to be several minutes for the entire series of events. The departure appears to be measured in seconds.
272	5/4/55	Keflavik, Iceland	13:38 Z. Ten silver, round objects flew in arc towards the east One left smoke trail. Some exhibited jerky motion in the formation. Visible 5-8 seconds.
273	5/9/55	Ukiah, CA	10:30 PM PDT. One silver object traveled from W to SW in 5 hours. BB classified as Jupiter but Jupiter set after 2.5 hours.
274	5/23/55	Cheyenne, WY	12:00 AM MST. One stationary objects observed to the east for a minute and disappeared. Two objects then reappeared in same location for five minutes and disappeared. A few minutes later, two more objects appeared moving across the sky towards the south. Every couple of minutes it would turn a bluish-purple. They were visible for ten minutes before ascending straight up and to the south.
275	7/29/55	Columbus, NE	10:45 PM CST. Four orange orbs and one white one. Flashing lights east of station bobbing like yo-yos. Faded out after 5-6 minutes.

276	8/23/55	Arlington, VA	10:45 PM EDT. 6-8 Orange, flat disc or star-shaped objects seeing as individual objects not in formation. Not all visible at the same time and moving in varying directions. Visible for 30 minutes.
277	9/3/55	Bellingham, WA	10:30 PM PDT. One small round white object, dimmed and brightened traveling very slowly over 30 degrees in front of big dipper in 15 minutes. Was stationary and still there at time of reporting sighting.
278	9/9/55	Rock Garden, TN	1:00 PM EST. Square, brownish object moved in a slow circular motion from the north to overhead. It then turned eastward and sped up back to the north, where it disappeared behind the trees. Duration was 10-15 minutes.
279	9/13/55	Palmdale, CA	3:10 AM PDT. Observed object with top and bottom flat with rounded ends. Exhaust visible with loud roaring sound. Initially heading west and then the object turned to the SSE for 10-15 minutes. BB classified as test vehicle but provided no evidence that test vehicle was present.
280	10/8/55	Loogootee, IN	4:38 PM EST. Round silver object moving ESE at high speed in 10-15 seconds.
281	10/11/55	Point Lookout, MD	4:00-6:30 PM EST. Round, white object turning red after sunset. Emitted sparks after sunset and disappeared/reappeared. Visible for 2.5 hours. Seen directly overhead.
282	11/17/55	St. Louis, MO	6:10 AM CST. Twelve round and flat objects with silver on top and dark on bottom moving three abreast and four deep. 75 degree elevation in NE, disappeared over NE horizon after 45 seconds.
283	11/20/55	Lake City, TN	6:38 PM EST. Two bright, shiny, silver and yellow, spherical objects in trail formation visible 4-15 minutes traveling from SW to the W. A/C scrambled but could not locate.
284	11/25/55	La Veta, CO	10:30 AM MST. Barrel shaped object tapering from large front to narrow end. Greenish blue and appeared to be made of jelly-like substance. Dove from SW and ascended to NE in 5 seconds.
285	2/12/56	Goose Bay, Labrador	10:55 PM AT. One green and red object approached fighter aircraft from below and to the rear. Object appeared to pass/circle fighter aircraft. Both aircraft had contact on radar. Visual sighting for one minute. 15 minutes later a radar contact was made with ground radar. Interceptors got radar contact and closed to within 8 miles before contact faded out. No visual.
286	6/6/56	Banning, CA	6:30 AM PDT. Silver to blue, saucer-shaped object with dome on top visible 8-10 seconds. Seen from automobile as hovering ahead of car. He stopped car and the object moved across the highway before circling his vehicle. It then departed rapidly in a WNW direction.
287	8/8/56	20 South of Quartzite, AZ	11:00 PM MST. One bluish-white object traveling at great speed to the north. Visible 5-7 minutes for one observer. 25-60 seconds for second observers.
288	8/27/56	Junista, PA	9:55 PM EST. Circular object with plastic dome and bright light illuminated the back yard of the observer. It headed north at a high rate of speed before fading out of sight in three minutes.
289	9/4/56	Dallas, TX	9:00 PM CST. One star-shaped object, changing color from white to red, stationary for 20 minutes at azimuth 80 degrees. Moved westward towards 330 degrees azimuth in 3 minutes.
290	11/1/56	60 mi E of St. Louis, MO	5:30 PM CST. Weather officer in T-33 observed one yellow light at azimuth 105 degrees and 5 degrees elevation. In 2 minutes, object moved to front of aircraft and then towards 280 degrees azimuth, where it disappeared.
291	12/31/56	Guam	1610Z. White, round object came in from west. Fighter aircraft turned towards object. Object passed underneath aircraft and turned south. It increased its altitude and then turned towards aircraft and passed over it. Object and pilot performed "dogfight" but pilot was unable to catch the object. After 10 minutes, the object departed towards the west. Pilot unable to pursue because of low fuel.
292	4/15/57	Eglin AFB, FL	12:00 PM CST. One aluminum object accelerated for 15 seconds from SE to E.
293	6/12/57	Milan, Italy	7:30 PM CET. Bright green-yellow light approached from east. Hovered over city. 17 minutes later, the object rapidly rose up, disappeared and left two orange-white vapor trails.

294	7/17/57	Dallas-Ft. Worth, TX	RB-47 case. See SUNlite 4-1
295	7/29/57	Cleveland, OH	11:31 PM EST. One round yellowish-white object hovered over Cleveland and then moved rapidly NW. Passed in front of and pursued by airliner. Disappeared in NW after 8 minutes.
296	7/29/57	Oldsmar, FL	11:45 PM EST. One pale yellow ball of fire struck water and disintegrated into many multi-colored lights NE of observer into Tampa Bay. One minute duration.
297	9/20/57	Kadena AFB	8:00 PM JT. Oval-shaped light made four passes from north to south. Each pass was 5-10 seconds. 4-5 minute intervals between each pass.
298	10/8/57	Seattle, WA	9:17 AM PST. Two round white objects appeared from the NW and turned to the SW. Objects then returned to NW and disappeared. Duration 25-30 seconds.
299	11/2-3/57	Levelland, TX	Levelland case. See SUNlite 16-6.
300	11/26/57	Robins AFB, GA	9:17 AM EST. One silver cigar-shaped object observed to be stationary to the southeast for 8 minutes and then suddenly disappeared.
301	11/30/57	New Orleans, LA	2:11 PM CST. One brilliant white round object gradually descended in the west from 70 degrees elevation to 30 degrees in 12 minutes. It descended further to 10 degrees elevation. It then grew brilliant and split into three pieces. Duration 20 minutes.
302	12/13/57	Col Anahuac, Mexico	9:35 AM CST. Fifteen to twenty multi-colored lights over airport slowly moving from west to east for 20 minutes.
303	3/14/58	Healdsburg, CA	8:45 AM PST. Black balloon-shaped object approached from west, touched ground, and took off to east. Object turned south and then disappeared. Duration 2 minutes.
304	4/14/58	Lynchburg, VA	12:20 PM EST. A gray-black object was seen a little bit in front of, and above, the aircraft. It fell with a trembling motion for 4 seconds before disappearing.
305	6/14/58	Pueblo, CO	10:46 AM PST. White flat object with dome in middle seen passing through field of theodolite while tracking balloon. Object went from NE (67 degrees azimuth 24.2 degrees elevation) to SW (237.2 degrees azimuth 8.1 degrees elevation angle) and visible for 5 minutes.
306	6/20/58	Fort Bragg, NC	11:05 PM EST. Silver, circular object with the lower section surrounded by green haze. Initially at 35 degrees elevation and stationary at 10 degrees azimuth. It oscillated and moved off to the north, where it disappeared. 10 minutes duration.
307	9/1/58	Wheelus AFB, Tripoli	22:15 Z. Reddish star-like object grew in size and then disappeared into clouds after traveling from NW to SE for 2 minutes. Another observation by a second person at the same time gave a similar description except it was bluish-white and visible for 90 seconds.
308	9/21/58	Sheffield lake, OH	3:00 AM EST. Bedroom flooded with light. Witness looked out window and saw object moving north with oscillating motion and rose out of sight. Duration 5 minutes.
309	10/2/58	Stroudsburg, PA	2:30 PM EST. Object, that looked like a pickle with a flat bottom, went from ten degrees above horizon to seven degrees above horizon in 15 seconds.
310	10/27/58	Lock Raven Dam, MD	10:30 PM EST. Egg-shaped object hovering over a bridge. Car stopped working. Brilliant flash and noise as object rose vertically before disappearing. Witnesses reported feeling burning sensation on faces. Duration 1 minute.
311	11/3/58	Minot, ND	2:01 PM CST. One round bright green object exploded and smoke rapidly dissipated at an elevation angle of 45 degrees and 90-120 degrees azimuth. Another silver object approached the area from the north and disappeared to SE. Duration 1 minute.
312	2/20/59	Cincinnati, OH	9:00 PM EST. Round object flashing red, white, and green in 5-second intervals. Aircraft followed object 21 minutes to the west.
313	3/26 or 27/59	Corsica, PA	12:45 PM. Wine/brick-red, barrel-shaped object disappeared from view behind trees in NW after 3 minutes.
314	6/18/59	Edmonton, Alberta, Canada	9:30 PM MST. Brown, cigar-shaped object observed to rise from below horizon up into clouds. Reached 40-50 degrees elevation and disappeared after 4 minutes.
315	7/19/59	Ceresco, NE	8:30-9:00 PM CST. Blinding white, star-like object with arcs of light shooting out. Moved from SSE to SW in 15-20 minutes.

316	7/25/59	Iroadequoit, NY	1:00 PM EST. Brownish-black, quarter moon-shaped object with a white bubble in the center moving from N to E in 5-10 seconds.
317	8/10/59	Goose AFB, Labrador	1:28 AM LT. Bright white light seen on WSW horizon moving towards NE. Still overhead after 25 minutes when report was made.
318	9/13/59	Gills Rock, WI	1:05 AM CST. Round, yellowish light with eight blue lights on the outside and five red lights in the center. Object came from the east and rose in the sky with repeated blasts of noise. When the object was overhead it receded to star-like appearance and vanished due to distance. Visible for 10 minutes.
319	10/4/59	Philippines	11:25-11:45Z. Triangular-shaped, red or orange object moved from west to northeast in 15 minutes.
320	10/6/59	Lincoln, NE	8:15 PM CST. White to Yellow, round object, dimming and brightening, moving erratically from SE to North and back to the SE for 2 minutes. Begin position same as disappearance position (azimuth of 150 degrees and elevation 70 degrees).
321	11/18/59	S. of Crystal Springs, MS	6:25 PM CST. Horizontal row of red lights with rear slightly higher than front. Started slowly and increased speed. Disappeared to N or NNE in 5-6 minutes.
322	3/23/60	Indianapolis, IN	3:35 AM EST. Gold comet-shaped object seen in WNW going W and then turned east. Made a 180 degree turn and then returned to the west. Disappeared by blinking out after 15 minutes.
323	4/12/60	La Camp, LA	9:00 PM CST. Fiery red disc, seen for 2-3 seconds, impacted and exploded four or five times. Explosion heard. No significant debris found at impact site. Reports that it "bounced" off of the ground and then went airborne again. Paint chips found but did not contain anything unusual.
324	4/17/60	Richards, Gebaur AB, MO	8:29 PM CST. Red glowing object viewed through telescope. Traveled from north of Orion and passed one degree south of Sirius in 2.5 minutes.
325	7/19, 20, 21/60	St. Louis MO	9:50 PM CST on the 20th. Light, visible for 10-15 minutes, moved from NE towards observer and then disappeared to the zenith.
326	7/31/60	Arnold, CA	11:30 AM PDT. Object, shaped like a top, traveling westward over Kinney lake No. 2. Disappeared behind tree line after a few seconds. BB classified as meteor but it was during day and description does not match a meteor.
327	8/23/60	Wichita, KS	3:24 AM CST. Large orange, sphere-shaped object with yellow lights from three light sources. Traveled from the north at 40 degrees to 45 degrees elevation in two minutes. Appeared to pursue Echo satellite.
328	8/29/60	Crete, IL	4:05 PM CDT. Very bright, shiny, silver object traveled from due north 30 degrees elevation to due north 90 degrees elevation in 18 seconds.
329	11/27/60	Chula Vista, CA	7:30 PM PST. Orange-Red object went from west to east and then to NW. Had a companion object that came out of one side that moved about the sky. Visible for 20-30 minutes.
330	1/9/61	Naknek, AK	9:45 PM AKST. Orange circular object, changing to blue, moved from 0.3 degrees azimuth, 10 degrees elevation to 210 degrees azimuth, 5 degrees elevation over 90 minutes. Path was not straight. Path was SE-NW-SE-SW.
331	7/7/61	Capemish, MI	11:00 PM EST. Round object split into four objects after 45 minutes. Azimuth 330 degrees 45 degrees elevation to 270 degrees azimuth 10 degrees elevation. Total duration 1 hour.
332	7/11/61	Springfield, OH	7:45 PM EST. Star-like object passing overhead from east to west in 20 minutes.
333	7/20/61	Houston, TX	8:00 AM CST. Two very bright objects in trail formation followed by aircraft taking off from Houston airport. Objects traveled from the SE to the ENE. Disappeared after 20 minutes.
334	8/12/61	Kansas City, KS	9:00 PM CST. Circular shape with lights around the edge. Stationary 3-5 minutes before rising and moving eastward in 5 seconds.
335	12/13/61	Washington DC	5:05 PM EST. Dark gray object moving from west to east, passing overhead. Visible 1-3 minutes.
336	2/25/62	Kotzebue, AK	7:20 PM AKST. Two round lights, one red and one blue, traveling in trail formation (30 seconds apart) from SSW to NNE for 5 minutes.

337	3/1/62	Salem, NY	10:35 PM EST. One rectangular gold box floated across the sky from south to north in 3-4 minutes.
338	3/26/62	Ramstein AFB, Germany	1:35 PM CET. Silver delta wing object, with dark front, appeared in 8 o'clock position of aircraft on course of 133 degrees. Object reached 3 o'clock position and fell back to 5 o'clock position before departing to east.
339	3/26/62	Naperville, IL	10:40 PM. Red flashing lights seen from car to the west on the horizon. Disappeared at 40 degrees elevation to SE after 15 minutes. Lights appeared to only move when the car moved.
340	6/21/62	Indianapolis, IN	4:00 AM EST. B-52 aircraft crew saw three star-like objects. One seen at 60 degrees elevation and 40 degrees azimuth descending to 10 degrees elevation and 40 degrees azimuth. The other two objects were seen at the same initial position but went in trail formation (separated by 10 seconds) to 10 degrees elevation and 210 degrees azimuth. 3 minute duration.
341	7/30/62	Ocean Springs, MS	11:20 PM CST. Object observed to have been performing intricate maneuvers. Initial position 115 degree azimuth and 10 degrees elevation. Disappeared at 65 degrees azimuth and 8 degrees elevation. Motion was erratic and duration 10 minutes.
342	8/18/62	Bermuda	5:00 PM AST. Egg-shaped object moved from west to east. Remained stationary 10-15 minutes and then disappeared in 15-20 seconds. Another observer saw three objects heading west and disappeared in 10-15 seconds.
343	9/15-24/62	Oradell, NJ	8:00 PM EST. Round object with fin on top and bottom. Moved from north to south and then hovered over Oradell reservoir before submerging in the water. Object then rose and departed. No specific duration listed but description indicates it was measured in minutes.
344	9/21/62	WSW Biloxi, MS	7:37 PM CST. Dull red object with small object trailing. Observed in west moved to east, where it disappeared after 13 minutes.
345	10/23/62	Farmington, UT	4:00 PM MST. Round, gray and silver, object approached from west, passed overhead, and then swerved to SE disappearing in 1-2 seconds. Total duration 20 seconds.
346	11/17/62	Tampa, FL	9:00 PM EST. Three star-like objects approached from NE, hovered at 45 degrees elevation, made a right angle turn and disappeared by fading to the SE. Total duration 11-15 minutes.
347	5/18/63	New Plymouth, New Zealand	10:30 PM LT. Stationary object observed between witness and mountain (below horizon). Observed in west, went south, and then rose and proceeded to the west. Color changed between white, red, and blue. Visible 4 minutes. Witness 10-year old.
348	5/22/63	Pequannock, NJ	10:45 PM EST. Four pink, wheel-shaped objects moving from east to west in one second. Each object was 30 seconds after the previous. Viewed through a window.
349	8/20/63	Rome, Italy	19:32Z. Object shaped like a hat with a tower observed from a car for 32 seconds before disappearing. Passed over the car twice, making it vibrate. Vehicle stalled when car was stopped by driver. Appeared and disappeared in the west.
350	9/14/63	Susanville, CA	3:15 PM PST. One long object flying north to south. A second balloon-like object flying an erratic path from NE to the south. The object appeared to intercept the long object and attached itself or disappeared. Total duration of 10 minutes.
351	10/4/63	Bedford, OH	3:32 PM EST. Object, smaller than the sun, with a bright metallic haze and shaped like a truncated cone. Object stationary and then moved NW to NNE before disappearing in 15 seconds. 15-year old.
352	10/23/63	Meridian, ID	8:35 PM MST. Shiny, metallic, circular/football-shaped, object hovered at 85 degrees elevation in the SE for 4.5 minutes. It then moved south and shifted to the SW. Total duration six minutes
353	12/11/63	McMinnville, OR	7:00 AM PST. Saw bright star-like object to the north out the bathroom window. Object slowly moved slowly towards the east. Total duration was not listed but appears to have been one to two minutes.

354	4/3/64	Monticello, WI	9:00 PM CST. Four red lights with lights of white and green observed near the ground from individuals in car driving west. It looked like an aircraft was crashing in the field to the south of the road. Object rose and increased angle of attack. It then hovered for an unspecified period of time, veered away and disappeared. 3-4 minutes duration. Seen from moving car.
355	4/11/64	Homer, NY	6:30 PM EDT. Initial sighting was long jet trail to the NW stretching from NE to SW. Spiral formation of black smoke then seen at the end of the trail. Black spiral continued to the SW. It then changed shape and looked like a smoking plane falling from sky. It then hovered for 2-3 minutes and disappeared into distant clouds. A similar object was seen but this one flashed and then increased speed. The object then changed from a pencil shape to a saucer shape. It then shrank in size and faded into the distance similar to the first object. Total duration 45 minutes.
356	4/24/64	Socorro, NM	5:45 PM MST. Lonnie Zamora incident. Unknown egg-shaped object landed and then departed rapidly. Duration 10 minutes.
357	5/9/64	Chicago, IL	11:23 PM CDT. Three large light green crescents traveling from east to west in 3 seconds.
358	5/18/64	Mt. Vernon, VA	7:15 PM EDT. Small white oval object observed to the 3 o'clock position of the moon. Moved to 12 o'clock position and then moved to the west about 5-10 degrees in one minute. Object then grew dim and split into two particles with smoke cloud. Faded from visual sight but the object further split before disappearing. Total duration 17 minutes.
359	6/13/64	Toledo, OH	9:15 PM EST. Three objects flying over wheat field at about 10 mph. Red lights observed on objects flashing once per second. Objects crossed road and then hovered over barn before disappearing. No duration listed but appears to have been greater than 5 minutes. Directions/positional data is also missing but witness seems to have given photographs to Hynek (not in the file) showing the location and directions.
360	7/16/64	15 miles S Houghton Lake, MI	12:15 AM EDT. Six lights in echelon formation seen by aircraft pilot on heading of 220. Approximate direction of objects was ENE. Initially four object and then joined by two more. Paced aircraft (150 knots) for five minutes at 8 o'clock position. Objects then disappeared by fading/drifted back.
361	7/27/64	Norwich, NY	8:50 PM EDT. Aluminum or metallic colored, sphere-shaped, object with luminous ring was motionless in SW direction at 15-20 degrees elevation for 4-5 minutes. It made 3 blinding flashes and disappeared.
362	7/27/64	Denver, CO	8:20 PM MST. White ball of fire to the south, descended, hovered two minutes, and rose again and disappeared. Total duration 2-3 minutes.
363	8/10/64	Wake Island	17:16Z. Intermittently blinking low intensity light on a heading of 220 degrees approaching Wake runway. Light then stopped several times and reversed its course departing on a heading of 320 degrees. Motion described as erratic. Duration 2 minutes.
364	8/15/64	Yosemite Park, CA	9:15 AM PDT. Three bright, silver, objects in formation moving east to west for 3-4 seconds.
365	8/18/64	200 mi. E of Dover (Atlantic)	5:35 Z. Aircraft off the coast of Cape Cod observed red light towards the SW. See SUN-lite 5-1 and 5-2
366	1/23/65	Williamsburg, VA	8:40 AM EST. Car stalled. Observer looked and saw a metallic gray, mushroom-shaped, object, 70-80 feet tall and 25 feet in diameter, hovering above the ground to the SW. It glowed red on the side closest to the observer and glowed blue on the farthest side. After 25 seconds, the object began moving to the west and disappeared.
367	3/4/65	Corvallis, OR	6:30 PM PST. Three yellow roman candle-like objects rose from ground several seconds apart. Visible for a few seconds after it disappeared. Area investigated by witness and found dark oily spot on ground. Presented sample to Blue Book, which analyzed and found oil.
368	3/8/65	Mt. Airy, MD	7:40 PM EST. Witness came out of barn and saw three pairs of red lights abreast moving overhead. They moved NE for 3 minutes and disappeared over the horizon.
369	7/6/65	Kiel, WI	9:30 PM CST. Witness saw Echo satellite and then noticed flashing light blinking on and off in the west. It passed Echo when it crossed the zenith. Disappeared in the east after one minute.

370	8/3/65	Cocoa, FL	11:40 PM EST. Police officers observed four lights (varied colors orange, green, and red) in diamond formation and a fifth separate from the group to the west. Lights were overhead and a little to the south. Visible 15 minutes and still present when witnesses departed.
371	8/19/65	Cherry Creek, NY	8:20 PM EDT Saucer shaped object landed in field. Object ascended into clouds emitting a red streak. After 4-5 minutes it descended again and then ascended back into the clouds. After 30 minutes, it descended and ascended again several times before departing to the SSW and emitting a yellow streak. Seen by 15, 16, and 17-year olds.
372	8/30/65	Urbana, OH	10:15 PM EST Round solid object, that did not give off light, dropped down in front of car, hit road, and bounced north (Car going south). Visible 3-4 seconds. No mark in road.
373	9/2-3/65	Exeter, NH	2:00 AM EST. Multiple sightings over a two hour period.
374	9/3/65	Damon, TX	11:00 PM CST. Two deputies driving south saw a very bright purple light to the SW. After a few seconds, a blue light appeared near the Purple one. Deputies attempted to get closer and eventually stopped on the edge of the highway. Object approached with same lights. Appeared to be gray triangular shape. The object then rose and disappeared at a 25-30 degree angle. Duration 5-10 minutes.
375	9/25/65	Chisholm, MN	7:55 PM CST. Five orange lights came from SW and headed north. Five made a 180 degree turn and returned to SW but only three returned. Duration 30 seconds.
376	9/25/65	Rodeo, NM	10:00 PM MST. Two white objects, side by side, appeared in north and moved westward. Witnesses in vehicle approaching objects sped up. Lights never reached the vehicle and fell behind. One went to SE and the other to the NE. Duration was 6 minutes.
377	2/6/66	Nederland, TX	5:45 AM CST. Witness awoke and looked out window to see lawn in pulsating red glow. He then saw yellowish-red lights coming from an object above the ground. Object moved towards the airport to the west. Airplane took off from airport and object turned off lights. Light from aircraft illuminated object and revealed a tadpole shape. After aircraft left, object re-energized lights and resumed westward motion at a 25 degree upward angle at a slow speed. Total duration 5-10 minutes.
378	3/22/66	Houston, TX	1:30 AM CST. Noise heard from above apartment. Brightness lit up apartment. Lights flashing and smoky white. Object was hovering and was gone by the time the witness went to the door. Assumed to have gone straight up. Smoke was left behind. Duration 4 minutes
379	3/23/66	Temple, OK	5:05 AM CST. Object parked on highway. Driver stopped car to investigate. Figure went inside of craft and craft rose and departed to SE. Object looked like conventional aircraft without wings. Duration 40 seconds.
380	3/30/66	Ottawa, OH	8:30 PM EST. Oblong-shaped object with various colored lights traveled from south to north. Started slow and then increased speed. Duration 8-10 minutes. 15-year old.
381	4/5/66	Alto, TN	11:55 PM CST. Stationary object with dark upper half, yellow-orange lower half, and white streak in middle sighted in the north moving eastward at tree top level. Disappeared to the south after 2.5 hours.
382	4/5/66	Lycoming, NY	3:00 AM EST. Vapor-like object hovering and spinning CCW came down close to the ground with jet-like exhaust. Displayed lighting like static electricity. Departed rapidly towards the north. Duration 60 seconds.
383	5/7/66	Goodfellow AFB, TX	9:00 PM CST. Bullet-shaped object with yellow and blue lights. First seen in the west at elevation angle 35 degrees, traveled SW and then returned to the original position and disappeared. Duration 35 seconds.
384	6/6/66	Spooner, WI	9:20 PM CST. Two bright oval objects revolving and heading in NE direction for 25 seconds.
385	6/8/66	Kansas, OH	6:45 AM EST. Cigar-shaped silvery colored object appeared ahead of observer's vehicle. Went from north to northeast in 1 minute before disappearing.
386	7/11/66	Union, PA	11:15 PM EST. Large bright red with small windows and yellow lights visible in the ENE and descended to the east over a one hour time period.
387	8/19/66	Donnybrook, ND	4:50 PM CST. White silvery saucer-shaped object with dome on top came from SE, hovered over a reservoir, and then appeared to land. Object then disappeared into the clouds rapidly. Duration 5 minutes.

388	8/26/66	Gayesville, AL	8:51 PM CST. While driving car, witness' saw cluster of four orange-yellow objects moving from east to west in 4.5 minutes.
389	9/1/66	Willsboro, NY	2:45 AM EST. Oval object, with red, white, and blue flashing lights, going from NNE to N low on the horizon. Visible for 30 minutes.
390	9/6/66	Suffolk County AFB, NY	6:50 PM EST. White cylinder of light moved at high speed from east to west, stopped and hovered for three minutes. It then moved slowly north where it disappeared. Total duration 8 minutes.
391	9/9/66	Franklin Springs, NY	9:00 PM EDT. Solid object, the size of a tank and with lights all around it, moved from the west to the east and then to the southwest. It disappeared into trees after 30 minutes.
392	9/13/66	Gwinner, ND	7:15 AM CST. Elliptical shaped object with glass bubble on top moved from the WSW, landed in the west, and departed to the NNW very rapidly. Total duration five minutes. 11 to 12-year old.
393	9/28/66	Wilmington, OH	3:38 PM EST. Three round oval-shaped objects with rings around them were seen hovering in the northeast. Vehicle passed underneath them after 90 seconds and lost sight of them.
394	10/5/66	Osceola, WI	11:35 PM CDT. Stationary object, looking like the moon, sped up and moved from the NE to the WNW in 20 minutes.
395	10/26/66	Cold Bay AFS, AK	2:25 AM AST. White colored object approached from azimuth of 30 degrees. It accelerated down the runway so fast, the tower observer could not follow it with field glasses. Object then went to SW and climbed away. Duration was 3 seconds.
396	11/8/66	Saginaw, MN	12:00 AM MST. Observer driving west along road and noticed lights that were white, orange, yellow, and blue. They flashed different colors. They were at ground level and disappeared when observer got close. Duration was 5 minutes.
397	12/25/66	Monroe, OR	3:00 AM PST. Three round, reddish-orange objects lifted off from the ground into sky after flash/explosion. They then hovered in the skies as lights arrayed in a row north to south. Objects went to the NW over a 90 minute period.
398	2/9/67	Odessa, DE	8:45 PM EST. Large Saturn-shaped object with four lights (outside lights red and green, inner lights bright white) seen hovering over trees near the highway. It slowly moved a few hundred feet north and then disappeared.
399	2/16/67	Stoughton, WI	7:11 PM CST. One oval approached vehicle, driving north, from the east. Vehicle turned west and object proceeded to the north. When vehicle turned north, object was on the western side of the car. Object disappeared until witness came home when they saw it again to the south. Visible 7-8 minutes. 17-year old.
400	2/25/67	Sioux City, IA	5:25 PM CST. Three separate saucer-shaped objects, with a dome on top, going from SW towards NE. Each object separated by two minutes and each visible for 1-2 minutes.
401	3/6/67	Benton Harbor, MI	1:01 AM EST. Witness awakened by noise and saw saucer-shaped object, with multi-colored lights, traveling towards the west and visible for 40 minutes. Another object joined it and they disappeared.
402	3/6/67	East of Henderson, IL	4:25 AM CST. Saucer-shaped object, surrounded by blue haze, with a red rim emitted a hissing sound. Appeared out of SE as bright light and approached witness. Passed overhead and proceeded NW for 3 minutes, when it shot a beam down. Disappeared to the NW with distance. Total duration 11 minutes.
403	3/9/67	Galesburg, IL	7:10 PM CST. Pancake-shaped object with rim of pulsating red lights seen to the SW. It approached and exploded with a brilliant white light for 10 seconds. The object then proceeded to the NW rapidly and disappeared. No total duration but it appears to have been measured in less than one minute.
404	3/9/67	Onawa, IA	9:05 PM CST. Round object with only one half visible. Straight flight path towards the east. Disappeared after 1-2 minutes.
405	3/22/67	Wapello, IA	10:20 PM CST Saucer-shaped object with dome went from almost overhead to the SW in one minute. 15-year old.
406	3/24/67	Belt, MT	9:00 PM MST. Dome-shaped object landed in ravine. Witness attempted to approach but object lifted off and moved to another ravine. A search the next morning found no traces of a landing or craft.

407	3/26/67	New Winchester, OH	4:00 PM EST. Oval-shaped metallic object going from SE to NW in a tumbling fashion. Duration 30 minutes.
408	4/21/67	South Hill, VA	10:00 PM EDT. Silver colored object on highway for 10 seconds. Object then rose rapidly on a column of fire and disappeared. It left burn spot on pavement. No chemical residue discovered but some matches were found.
409	5/17/67	Rural Hall, NC	8:30 PM EDT. Small orange round object observed moving in zig-zag pattern above aircraft headed from SW to NE. Duration 5 minutes.
410	6/24/67	Austin, TX	3:12 AM CDT. Blue-white, elliptical object rapidly moving. Object stopped when apparently responding to witness flashing a light in Morse code and it brightened for 75 seconds. Object resumed travel and he signaled again. This time it slowed, became dimmer, and disappeared. Traveled from NW to NE. Duration was 9.5 minutes.
411	6/29/67	Scotch Plains, NJ	1:30 AM EDT. Cone-shaped object circled aircraft. It hovered and moved at rapid speeds. A light was on each end. When it came close, a row of blue lights were visible. Southward motion. Duration 8-10 minutes.
412	7/10/67	Lizelia, MS	5:50 PM CDT. Car stopped and radio went silent. After exiting the vehicle, a large object, shaped like a cymbal, was seen passing overhead moving in an easterly direction. It tilted upward and shot up into the clouds. Duration 3-5 seconds.
413	10/18/67	Lake Charles, LA	9:00 PM. Observed object moving at treetop level from NNW to the North. It flashed a red light four times in one minute.
414	2/9/68	Groveton, MO	4:35 AM CST. Awakened by cows. Bright yellow-green object with concave sides visible. Object departed to the SW. Duration 1-5 minutes.
415	6/18 or 19/68	Rocky, OK	4:30 AM. CDT. Illuminated object with many white lights approached from SE and went east. The lights rotated in CCW direction. A helicopter like noise chased witnesses into barn. Duration 2-3 minutes. Two 17-year olds. Confusion on date because reports gave two different days.
416	9/15/68	Ocala, FL	9:30-10:15 PM EDT. Aircraft on 120 degree heading over Cross City. Green light performing acrobatics in direction of flight. Light disappeared after 20 minutes to the south. Second light appeared over Ocala and approached aircraft before going west and hovering. It eventually disappeared. When approaching West Palm Beach, radar reported contact following aircraft. They conducted turn and saw a light descending.
417	10/24/68	Minot AFB, ND	12:30 AM MST. Multiple lights seen in sky by ground personnel. B-52 saw airborne lighted object while overflying area. One radar contact that may be related to air-visual.
418	11/23/68	Newton, GA	8:05 AM EST. Brilliant light above road towards the east. Radio faded to static. Beam emitted downward. Car stopped. Light disappeared in a few seconds by going upward. Duration 3-4 minutes.
419	1/17/69	Crittenden, VA	3:24 AM EST. Observer awakened by hum. Went to window and saw lights in elliptical shape. Made slow up and down motion as it moved forward. It appeared from the south and moved towards the WNW, where it disappeared. Duration 90-120 seconds.

THE MOON IFOs

There seems to be an interest among some of my readers on this particular IFO. One would think that most people could identify the moon but that does not seem to be the case. In his UFO Handbook, Alan Hendry noted that roughly 2% of his Nocturnal light UFOs were of the moon. This value was 1.7% of the total cases he investigated. I got a value of almost 1% of my total (129 total moon/possible moons with one considered unreliable/poor investigation). With such a low number, I felt it might serve as a reference for those wanting to collect these kinds of reports. Some might argue with some of these explanations because the explanation may not be convincing. One must remember, that I consider a "possible moon" as an explanation. Usually, I list a case as "possible" because the explanation does not quite fit for various reason. There may be missing data or specific parts of the information is not a perfect match. For instance, the moon may have set 10-15 minutes before the time of the sighting. Considering the problems with obtaining accurate information from these witness reports, I still consider the explanation as possible with an error in recording the data (azimuth/elevation, time, etc) if the rest of the sighting suggests the moon is possible.

This is a complete listing of all the possible moon sightings I found in the Blue Book files.

Date	Location	Time (Z)	Witness description	Moon location/phase
7/9/48	Osborn, OH	0247Z 7/10/48	Seen for 1-2 seconds. 3 times. Direction seen to the west. 2147 local time. Pale yellowish-white.	280 degrees azimuth 9 degrees elevation. Crescent possibly seen intermittently through clouds.
5/4/49	Limona, FL	0500Z 5/5/49	Object size of dinner plate/tea saucer as time progressed. Color like the moon. Round with flaming ragged border with bottom drooping. 20 degrees elevation in west. 15 minute duration.	290 degrees azimuth 13.5 degrees elevation. First Quarter.
8/20/49	Liano, TX	0900Z 8/20/49	First seen NNE of witness. Copper color. Bright enough to cast shadows. Moved south over two hours. Wife of witness felt it was the moon. Object contained "eleven quarter moons". Object still present when witness went inside.	64 degrees azimuth 11 degrees elevation. Crescent.
3/20/50	New York, NY	2300Z 3/20/50	Photograph that appears to be time exposure showing crescent moon over a time period of 30 minutes or multiple exposures on same frame. Witness submitted photograph in December 1950.	263 degrees azimuth 23 degrees elevation. Crescent.
1/16/51	Oak Ridge, TN	2145Z 1/16/51	Observers in car moving NE. Object viewed through right rear window. Unusually bright stationary object. Visible 5 minutes.	98 degrees azimuth. 47 degrees elevation. First Quarter Moon.
2/10/51	Atlantic	0055Z 2/10/51	Aircraft flying at true heading of 230 degrees. Turned to true heading of 290 degrees to pursue object. Object disappeared over horizon. Huge fiery orange disk on its edge. One crewmen thought it looked like a solar eclipse where 3/4 of the sun was covered.	Moon set at 0046Z azimuth 276 degrees for altitude given. Crescent moon. See Klass: UFOs explained.
2/18/51	Holloman AFB, NM	1210Z 2/18/51	Car going towards Oscura, NM in northerly direction. Color white and orange. In continuous view during trip from Holloman AFB. Shape round and then conical. No direction given.	Moon set at 1154Z azimuth 301 degrees. Gibbous.

5/31/51	Niagara Falls, NY	0920Z 6/1/51	80 degrees azimuth. 20 degrees elevation. Saucer shaped object with the center brighter than the arc shaped wings. It was a glowing orange-yellow color. After 30-40 seconds, it disappeared into clouds.	84 degrees azimuth. 17 degrees elevation. Crescent. See SUNlite 16-3.
7/9/51	Corona, NM	0530Z 7/10/51	Red glowing ball, the size of the full moon to the W or WSW descended below trees in 30 seconds.	Moon set at 0530Z Azimuth 272 degrees. Crescent moon.
4/27/52	Pontiac, MI	0406 - 0436Z 4/28/52	Huge circular object very close to ground. Round and flat. Went from brilliant white to nothing. Object disappeared in west. Driving in car. Initially drove N, then NW, then W. Witness stated southern sky cloudy covering moon.	Azimuth 304 degrees. Elevation 4 degrees. Crescent. Moon set around 0436Z. See SUNlite 7-2
5/25/52	Walnut Lake, MI	0215 - 0245Z 5/26/52	Moon shaped. Larger than moon. White to orange color. Drifting slowly west and northward.	299 degrees azimuth. 9 degrees elevation. - 303 degrees azimuth. 4 degrees elevation. Crescent. See SUNlite 7-2
7/19/52	Williston, ND	0855 - 0900Z	Described to be like an eclipsed sun. Round/elliptical with glow around it. Moved towards witness from NE. Made a 360 degree turn and then 180 degree turn. Receded back to the NE. Object illuminated cloud in north.	50 degrees azimuth. 2 degrees elevation. Crescent moon. See SUNlite SE1
7/25/52	San Bernardo, Chile	2315Z 7/24/52	Actual date is 24 July. Observed in the west as an opaque yellowish light that moved westward over a period of 15 minutes.	292 degrees azimuth. 4 degrees elevation. Crescent. Moon set around 0034Z.
7/26/52	Dania, FL	0300Z 07/27/52	Described as a football shaped object but more flat. It disappeared after 10 minutes by moving south and up while changing colors to orange and then dim blue.	Moon set at 0248Z. Azimuth 266 degrees. Crescent.
7/29/52	Napa, CA	0615- 0630Z 7/29/52	Object disappeared in SW. Salmon colored. Elliptical shape.	Moon set at 0623Z. Azimuth 251 degrees. First quarter.
7/30/52	Kirtland AFB, NM (Confusion with Albuquerque case)	0530Z 7/30/52	Yellow. Flattened ellipse. 3 minutes duration. Diminished in size. Changed color from yellow to white and then disappeared. 225 degrees azimuth. 20-25 degrees above horizon.	Azimuth 242 degrees. 4 degrees elevation. First quarter. Moon set at 0654Z. Azimuth 245 degrees.
7/30/52	Albuquerque, NM	0602Z 7/30/52	240 degrees azimuth. Visible for 10 minutes. Yellowish-orange. Circular shape. Faded away.	Moon set at 0654Z. Azimuth 245 degrees. First quarter. See SUNlite 16-6.
2/24/53	Dayton, OH	0930Z 2/24/53	Oblong orangish object low altitude. 3 minutes duration. Quickly grew to a full circle. Disappeared in NW (Azimuth 330 degrees)	Azimuth 297 degrees. Elevation 6 degrees. Moon set 1006Z. Gibbous.
6/30/53	Ramore, Ontario	0345Z- 0405Z 7/1/53	Elliptical shaped orange object visible low in East. Disappeared in clouds.	Azimuth 103 degrees. Elevation 1 degrees. Gibbous.
8/16/53	Ramore, Ontario	0235Z 8/17/53	Orange object on WSW horizon. 260 degrees azimuth.	Azimuth 235 degrees. Elevation 2 degrees. Moon set 0250Z. First quarter.

1/8/54	Millbook, AL	0145Z 1/9/54	Half-moon shaped. Direction of observation was Prattville (Azimuth 256 degrees).	Azimuth 254 degrees. Elevation 15 degrees. Crescent.
1/28/54	Seneca Lake, NY	1014Z 1/28/54	Half-moon shaped. Soft yellow with swirling bluish-red exhaust. Observations to south and southeast. No specific direction given. Duration of visibility 9 minutes. Motion described as jerky. Weather was described as light snow. Object disappeared and reappeared 14 minutes later.	Azimuth 154 degrees. Elevation 19 degrees. Crescent.
6/2/54	San Juan, PR	0012Z 6/3/54	Red-orange in color. Seen from car driving west. Stopped car and thought it was moon. 5-7 minutes. Took direct course towards horizon. Illuminated in the front and the half-front sides of the arch. Dark in the center and slightly illuminated.	Azimuth 292 degrees. Elevation 11 degrees. Moon set at 0105Z. Crescent.
6/5/54	Pasco, WA	0735Z 6/6/54	Shaped like a half-moon. Two objects forming one object. Disappeared slowly into horizon.	Moon set 0715Z. Azimuth 286 degrees. Crescent.
9/7/54	France	2330Z 9/6/54	Red-orange disc. Small luminous tail as part of object. Additional information from (https://ufologie.patrick-gross.org/1954/6sep1954orignyenthierachef.htm). Disappeared in SW.	Azimuth 233 degrees. Elevation 1 degrees. Moon set 2338Z. First quarter.
2/10/55	Bethesda, MD	0303Z 2/11/55	Witness driving in easterly direction. Conditions were cloudy. Described as an luminous object shaped like a very small portion of the moon. Yellowish radiant color.	Azimuth 108 degrees. Elevation 7 degrees. Gibbous. See SUNlite 5-4
11/7/55	Atlantic Ocean	0249Z 11/8/55	Reddish-yellow. 1/3rd of an orange inverted. Diminished slowly in size and disappeared after 2 minutes. Elevation 5 degrees. Azimuth 72 degrees. Moon seen to rise 1.5 hours later. Clouds present.	Azimuth 84 degrees. Elevation 9 degrees. Last quarter disappearing behind clouds to east.
11/24/55	Hokkaido, Japan	1613Z 11/24/55	Red glow on horizon at azimuth 312. Looked like airplane on fire. Spherical changing to oblong. Visible 5 minutes.	Moon set 1610Z. Azimuth 274 degrees. Gibbous.
12/21/55	Caribou, ME	0400Z 12/22/55	Round object. Color as gold. Bright as sun but not hard on the eye. Visible in southwest (witness states on form it disappeared in SE but direction given indicates motion towards SW or W).	Azimuth 270 degrees. Elevation 4 degrees. Moon set 0424Z. First Quarter. See SUNlite 8-6
1/24/56	Beltsville, MD	0207Z 1/25/56	33 minute time exposure of moon.	Azimuth 150 degrees. Elevation 71 degrees. Gibbous.
3/27/56	Saginaw, MI	1105Z 3/27/56	Spherical orange object. Band of irregular gray at bottom and top. Object seemed to disintegrate from bottom up. 25 degrees elevation in WSW. Duration 10 minutes.	Azimuth 250 degrees. 5 degrees elevation. Full.
8/11/56	Meredith, NH	0230Z 8/12/56	Bright yellow color. Low in SW. 240 degrees azimuth. Disappeared behind cloud.	Moon set at 0226Z. Azimuth 248 degrees. First quarter.

9/1/56	Creston, IA	1716Z 9/1/56	Silver cigar or balloon shaped object. Directly overhead and not moving. Seen through binoculars.	Azimuth 234 degrees. 55 degrees elevation. Crescent.
9/9/56	Big Bethel, VA	0135Z- 0155Z 9/10/56	Crescent shaped. Bright red and gold. Gradual descent towards horizon. Southerly direction.	Azimuth 238 degrees. 7 degrees elevation. Moon set 0216Z Azimuth 244 degrees. Crescent.
12/9/56	Woodstock, MN	0550Z- 0600Z 12/10/56	Half sphere with flat side on top. Fire red and orange. Moved NW.	Azimuth 266 degrees. 2 degrees elevation. Moon set 0603Z Azimuth 268 degrees. First Quarter.
4/25/57	Ringgold, LA	0830Z- 0855Z 4/25/57	Crescent shaped object. Bright red. Driving in car eastward. Elevation 45 degrees and descending.	Moon rise 0855Z. Azimuth 93 degrees. Crescent. See SUNlite 11-3
5/31/57	Terre Haute, IN	0240Z- 0245Z 6/1/57	Shape of quarter moon. Light orange. Visible in NW. Very high elevation. Disappeared.	Azimuth 289 degrees. 5 degrees elevation. Moon set 0311Z Azimuth 294 degrees. Crescent.
9/15/57	Lincoln County, NV (5 miles south of Lincoln country line)	0700Z 9/16/67	Traveling north in car on HWY 93. Visible in NNE. Visible 1-2 minutes on two occasions. Three minutes between observations. Round. Deep orange and red. Orange jet flame along top rim. Stationary. Diminished and disappeared.	Azimuth 76 degrees. 13 degrees elevation. Moon rise 0544Z azimuth 65 degrees. Last Quarter. (Possible moon if time was incorrectly by an hour)
7/30/57	Santa Maria, CA	0300Z- 0320Z 7/31/57	Six balls of fire. 45 degree elevation. 270 degrees azimuth. Moved north and then south. Faded into fog.	Azimuth 246 degrees. 23 degrees elevation. Crescent. Jupiter, Venus, Mercury, Mars, Spica all in the vicinity.
10/14/57	San Bernardino, CA	0710Z 10/15/57	Shape of cup upside down. Moved east and out of sight in clouds. Visible 2-3 minutes. ESE. 10 degrees elevation.	Azimuth 78 degrees. 16 degrees elevation. Last Quarter.
11/3/57	White Sands, NM	0930Z- 0940Z 11/3/57	Egg-shaped. Landed by bunker area west of road. Patrol was driving northward.	Azimuth 269 degrees. 3 degrees elevation. Moon set 0947Z Azimuth 271 degrees. Gibbous.
11/3/57	Asbury Park, NJ	2300Z- 2330Z 11/3/57	Blue-white-pink object. Slight halo. SE direction. 75 degrees above horizon. Appeared and reappeared.	Azimuth 120 degrees. 15 degrees elevation. Gibbous. Weather conditions cloudy to mostly cloudy.
11/6/57	Boerne, TX	0000Z 11/7/57	One brilliant orange egg-shaped object hovering for one minute to the east and disappeared. This case was poorly investigated and the witness was not the most reliable.	Azimuth 76 degrees 8 degrees elevation. Full moon
11/8/57	Waverly, IL	0015Z- 0035Z 11/9/57	White and green. Fuzzy object in sky. 90 degrees azimuth.	Azimuth 73 degrees. 9 degrees elevation. Full.
12/1/57	Rector, AR	0545Z- 0605Z 12/2/57	Changed color from white to red. Described as round and bigger than the stars. Object stated to be W by SW. As it descended its brightness faded to reddish glow.	Azimuth 250 degrees. 41 degrees elevation. Moon set 0919Z Azimuth 284 degrees. Gibbous.
12/5-10/57	Cincinnati, OH	0000Z- 0100Z 12/6-11/57	One object hovered. No directions given. Film recorded object. ATIC evaluated as moon. No specific date given.	Azimuth 99-68 degrees. Full

12/11/57	Parkersburg, WV	0300Z-0340Z 12/12/57	Circular orange object. Looked like red moon. Azimuth 70-80 degrees. Pilots confused at first but stated that at later part of sighting they thought it was the moon.	Moon rise 0307Z. Azimuth 78 degrees. Last Quarter.
4/25/58	Ottawa, OH	0328Z-0348Z 4/26/58	Round. Size of big cigar. 280-290 degrees azimuth.	Azimuth 266 degrees. 28 degrees elevation. Moon set 0605Z Azimuth 290 degrees. First Quarter.
4/27/58	Pacific	0953Z 4/27/58	Bright orange red ball, which fanned out similar to afterburner. Became smaller and disappeared. 1.5 minutes. 7-10 degrees below aircraft. In front of aircraft. Course of a/c - 320 degrees.	Moon set 0950Z Azimuth 284 degrees. First Quarter.
7/19/58	Dayton, OH	0130Z-0150Z 7/20/58	White object like a neon light. Circled in and out of clouds. Visible in NW.	Azimuth 264 degrees. 13 degrees elevation. Moon set 0242Z Azimuth 275 degrees. Crescent.
10/16/58	Resolution Island, Canada	0015Z 10/17/58	Yellow-orange half-moon. Object falling. 3 minutes duration. Disappeared in SW.	Moon set 0019Z Azimuth 228 degrees. Crescent.
1/23/59	Herschel Island, Canada	1800Z-1820Z 1/23/59	Round object with flat bottom. 310 degrees azimuth. 3-4 degrees elevation. Disappeared suddenly.	Moon set 1805Z Azimuth 325 degrees. Full.
5/18/59	4 Mi. W of Greenbush, KS	0830Z 5/18/59	Traveling in car due west. Visible 3-4 minutes. Changed from orange to red. Disappeared to SW.	Moon set 0826Z Azimuth 269 degrees. Gibbous.
8/9/59	Columbus, OH	0255Z 8/10/59	Red object moving west. 45 degrees elevation. "V" shaped. Visible for one minute.	Azimuth 253 degrees. 6 degrees elevation. Moon set 0330Z Azimuth 259 degrees. Crescent.
5/28/60	Penns park, PA	0200Z 5/29/60	Traveling in car. Oval orange light moving west. Broken clouds.	Azimuth 286 degrees. 8 degrees elevation. Moon set 0246Z Azimuth 293 degrees. Crescent.
7/26/60	Monticello, IL	0130Z-0145Z 7/27/60	Traveling in car towards SW. Crescent shaped object. Reddish-orange with brilliant glow. 270 degrees azimuth. 10 degrees elevation.	Azimuth 267 degrees. 14 degrees elevation. Moon set 0245Z Azimuth 279 degrees. Crescent.
8/12-20/60	Red Bluff area, CA	0645Z-0900Z 8/14/60	Silver oblong with red lights on ends. Pursued towards east. Object approached and receded several times.	Moon rise 0715Z Azimuth 72 degrees. Last Quarter. See SUNlite 9-4. Moon partially involved.
1/21/61	Akron, OH	0405Z-0425Z 1/22/61	A circle or plate with the top cut off. Reddish-Orange. 12 degrees north of due west. Disappeared in NW.	Azimuth 270 degrees. 3 degrees elevation. Moon set 0423Z Azimuth 273 degrees. First Quarter.
5/22/61	Tyndall AFB, FL	2230Z-2245Z 5/22/61	Disc shaped. Silver colored. Stationary. Revolving in place. SE with elevation angle of 35 degrees.	Azimuth 127 degrees. 60 degrees elevation. First Quarter. See SUNlite 13-3
6/16/61	Dayton, OH	0300Z-0315Z 6/17/61	White glowing light. Half-moon shaped. Changed shape to oblong and got dimmer. Faded away. Moving from W to NW.	Azimuth 285 degrees. 6 degrees elevation. Moon set 0337Z Azimuth 291 degrees. Crescent.
12/26/61	Chicago, IL	0310Z-0345Z 12/27/61	Orange and yellow large object to ESE. Faded in and out. Grew brighter.	Moon rise 0307Z Azimuth 308 degrees. Last Quarter.
3/12/62	Bethel, AK	1247Z 3/12/62	Visible 3 minutes. Semi-circular laying flat on its side. 320 degree azimuth. 3 degree elevation.	Moon set 1235Z Azimuth 269 degrees. First Quarter.

5/19/62	Colfax, Louisiana	0215Z 5/20/62	Ball of fire. Driving south. Southerly direction. Admitted it was probably the moon.	Azimuth 118 degrees. 11 degrees elevation. Full.
6/7/62	Rantoul, IL	0510Z 6/8/62	3-4 minutes. Pear shaped. Pinkish-orange. Radiations from bottom. In the west 20 degrees elevation.	Azimuth 286 degrees. 3 degrees elevation. Moon set 0526Z Azimuth 289 degrees. Crescent
10/2/62	Moses Lake, WA	0300Z 10/3/62	Reddish-orange. 250 degrees azimuth 20 degrees elevation. Visible 30 seconds. Scattered clouds.	Azimuth 239 degrees. 6 degrees elevation. Moon set 0347Z Azimuth 248 degrees. Crescent
10/7/62	Springfield, OH	0520Z- 0540Z 10/7/62	Last seen in southwest. Traveling in a car driving SW. Crescent shaped. Bright red. Witness called duty officer at 0515Z, which was before time of sighting. Probable error in time listed (report made two weeks later).	Moon set 0434Z Azimuth 242 degrees. First Quarter.
6/27/63	Ironton, OH	0200Z- 0210Z 6/28/63	Traveling in car in west direction. Looked like Ferris wheel. Scattered clouds. Witness reported no moon. Object moved from west to south.	Azimuth 241 degrees. 38 degrees elevation. First quarter. All roads going into town are going in SW or NW direction (not west). Roads change direction, causing shifting direction. Clouds obscured moon.
7/3/63	Klamath Falls, OR	1010Z- 1020Z 7/4/63	Small moon-shaped. Appeared low in altitude. Split into two as it got low. 45-60 degrees elevation. Seen in direction of Keno AFS. Keno at azimuth of 230 degrees.	Azimuth 236 degrees. 7 degrees elevation. Moon set 1054Z Azimuth 243 degrees. Gibbous
8/5-7/63	Fairfield, IL	0500Z 8/5/63	Driving east on SR 15. Object initially to right of car. Elevation 40 degrees.	Azimuth 165 degrees. 30 degrees elevation. Full. Witness then focused attention on object to east (Jupiter).
10/19/63	Bournemouth, England	1800Z- 1810Z 10/19/63	Bronze-gold colored object. 15 degrees elevation in WSW. Visible 25 seconds. Scattered clouds	Azimuth 244 degrees. 2 degrees elevation. Moon set 1820Z Azimuth 247 degrees. Crescent
12/10/63	White Plains, NY	0730Z 12/10/63	Bright yellow light with rays in the East. Bright crescent at bottom of object.	Azimuth 98 degrees. 7 degrees elevation. Crescent
6/5/64	Texarkana, TX	0700Z 6/5/64	Driving in a car east. Object was ahead and slightly to the right. Large luminous red-orange blob. The upper 2/3rds were hidden. The object suddenly disappeared.	Moon rise 0805Z Azimuth 92 degrees. Crescent. (Time listed as 0700Z but letter states it was 2 AM. If using standard time, the time would have been 0800Z).
7/12/64	San Antonio, TX	0350Z- 0405Z 7/13/64	Yellow crescent shaped object. Seen from moving car. 15 degrees elevation 270 degrees azimuth. Object split and then rejoined. Broken clouds.	Azimuth 279 degrees. 9 degrees elevation. Moon set 0432Z Azimuth 284 degrees. Crescent
8/12/64	Breckens Corner, MT	0500Z 8/13/64	Driving in car. Visible 2-3 minutes. Looked like burning haystack. Crescent shaped and became oblong. Sighted to south.	Moon set 0500Z Azimuth 259 degrees. Crescent
12/14/64	Falls Church, VA	0605Z- 0625Z 12/14/64	Faded into dull red glow. Split into two sections and then joined into one. Top of a mushroom turned upside down without the stem. Visible low in SW.	Azimuth 265 degrees. 8 degrees elevation. Moon set 0651Z Azimuth 272 degrees. First Quarter.
2/8/65	Elk Grove, IL	0555Z 2/9/65	275-280 degrees azimuth. Two interconnecting ovals of light at right angles to each other.	Azimuth 283 degrees. 7 degrees elevation. Moon set 0638Z Azimuth 290 degrees. First Quarter.

7/13/65	Blauvelt, NY	0800-0900Z 07/13/65	White with bluish spot in middle. Visible in NW on form. Drifting south and visible in west in letter.	Azimuth 224 degrees. 9 degrees elevation. Moon set 0908Z Azimuth 235 degrees. Full Moon. Time was EDT and not EST.
7/16/65	Howell, UT	1030Z 7/16/65	Due south. Initial elevation was 25-30 degrees then went to 40-45 degrees. Three objects seen one after the other but never at same time. All were visible in the same location and appeared to come from the south and fade out after reaching 40-45 degree elevation. Cloudy skies at Hill AFB to south. Witness listed as a few stars visible but no moon was visible. Also said it was clear. Sky conditions were probably clear with clouds to the south. Saucer shaped object. Drawn as half-circle shape. One was drawn as a bell with legs.	Azimuth 193 degrees. 29 degrees elevation. Gibbous. Observation could have been the moon coming in and out of cloud layer.
7/31/65	Elmhurst, IL	0245Z-0300Z 8/1/65	Visible 2-3 minutes. 270 degrees azimuth. 50-55 degrees elevation. Brilliant orange.	Azimuth 268 degrees. 9 degrees elevation. Moon set 0335Z Azimuth 276 degrees. Crescent
8/11/65	Richmond, Walnut creek, CA area	0930Z 8/11/65	Planetarium director observed events reported as UFOs and determined it was the moonlight reflecting off the tops of thunderstorm clouds.	Azimuth 209 degrees. 23 degrees elevation. Full.
8/21/65	Orting, WA	0815Z 8/21/65	Witness driving in car. Appeared in the east. Cloudy skies. Saucer shaped. Azimuth of object did not change during 2-3 minutes of sighting. Hovering on hillside.	Azimuth 67 degrees. 9 degrees elevation. Last Quarter.
8/23/65	Bogota, Columbia	0745Z-0818Z 8/23/65	Visible to east of airport. Witness described object as initially cone-shaped changing to elongated and squared finally changing to moon shaped. Clouds covered object starting at 0808Z and object disappeared behind clouds ten minutes later.	Azimuth 65 degrees. 2 degrees elevation. Crescent.
12/9/65	Waterford, PA	0945Z-0955Z 12/9/65	Big yellow and orange ball in the west. Driving west in a car. Object was in west, then was in north, then in NW close to the original direction it was first seen.	Azimuth 270 degrees. 39 degrees elevation. Full. Road changing direction probably was cause of shifting directions.
12/27/65	Houma, LA	0305Z-0313Z 12/28/65	Round red-orange object the size of a large aircraft. 30 degrees elevation in SW. White vapor clouds near object. Object split into one large and one small object and then rejoined into one object. Scattered clouds reported by witness. No clouds with fog in teletype msg.	Azimuth 249 degrees. 5 degrees elevation. Moon set 0333Z Azimuth 253 degrees. Crescent
1/1/66	Liberty Center, OH	0700Z-0710Z 1/2/66	Orange light in the woods about the brightness of the sun. It rose, then descended. It shrank in size and disappeared. Low in west.	Azimuth 279 degrees. 7 degrees elevation. Moon set 0753Z Azimuth 286 degrees. First Quarter.

1/26/66	Bridgeport, NY	0210Z 1/27/66	Driving in car. 30 degrees elevation in SE. Circular like bottom of half-moon. Was Yellow and changed to gray. Vanished after five minutes.	Azimuth 259 degrees. 9 degrees elevation. Moon set 0303Z Azimuth 268 degrees. Crescent. Witness description of travel indicates they were traveling northward on Bridgeport-Kirksville road towards center Bridgeport (route 298) and were 1.5 miles south of Bridgeport. At that point, the road is headed WNW. Object was seen ahead of vehicle. Direction of SE was incorrect.
2/24/66	Rochester, NY	0135Z 2/25/66	A large yellowish-white object like an inverted soup bowl. Visible in NW and disappeared behind houses after 90 seconds. (This was submitted in July of 1967, which classified it as unreliable but I am including it in the list because it could have been the moon as well).	Azimuth 265 degrees. 16 degrees elevation. Crescent. Moon set 0307Z Azimuth 281 degrees
3/12/66	Moultrie, GA	0530Z 3/12/66	Big red circular object seen while driving car from Sale City to Moultrie (towards ESE). Visible in East. Shaped like a big tilted cup.	Azimuth 118 degrees. 4 degrees elevation. Last Quarter.
3/25/66	Toledo, OH	0215Z 3/26/66	Hovering in NW. Bluish-white light. Half-moon shape like a WWI helmet. Visible 5 minutes.	Azimuth 281 degrees. 13 degrees elevation. Moon set 0333Z Azimuth 293 degrees. Crescent.
3/27/66	Swansea, MA	0445Z 3/28/66	Driving in a car from Fall River (azimuth 295 based on hand drawn map). Large brilliant orange crescent moon. Low in western sky. Disappeared over the horizon.	Azimuth 301 degrees. 2 degrees elevation. Moon set 0459Z Azimuth 304 degrees. Crescent.
3/29/66	Lacrosse, WI	0730Z 3/29/66	Stationary object in the NW. Crescent shape. Yellow.	Azimuth 306 degrees. 1 degrees elevation. Moon set 0736Z Azimuth 308 degrees. First Quarter.
4/1/66	Bristol, VT	0900Z- 0910Z 4/1/66	Red and glowing round object. Visible in the West to Northwest. Angle of elevation low. Faded out.	Moon set 0856Z Azimuth 300 degrees. Gibbous.
4/5/66	Cincinnati, OH	1104Z 4/5/66	Shape of pancake. Bright orange. Visible 1 minute before disappearing. Driving west in car. Visible in west.	Azimuth 262 degrees. 5 degrees elevation. Moon set 1134Z Azimuth 266 degrees. Full.
4/5/66	Loveland, OH	1100Z 4/5/66 (time incorrect on record card)	Large ball, reddish orange in color. Same appearance as rising sun. Driving west in a car. Visible in west.	Azimuth 261 degrees. 5 degrees elevation. Moon set 1134Z Azimuth 266 degrees. Full.
4/8/66	Ellenville, NY	0620Z- 0640Z 4/8/66	Cigar shape. Yellowish. Visible in SE. Came from NE. Faded away.	Azimuth 163 degrees. 27 degrees elevation. Gibbous.
4/11/66	Sharpsville, PA	0700Z- 0915Z 4/11/66	Round bright orange ball. Visible to southeast. Cloudy and foggy. Sketch showed half-moon shape.	Azimuth 140 degrees. 9 degrees elevation. Last Quarter.
4/25/66	Ghent, NY	0330Z- 0415Z 4/26/66 (time incorrect on record card. Did not incorporate DST)	Visible to W to NW. Half-moon shape brilliantly lit.	Azimuth 300 degrees. 6 degrees elevation. Moon set 0412Z Azimuth 306 degrees. Crescent.

5/7/66	Columbus, OH	0440Z 5/8/66	2-3 minutes. Cloud moved in front of and it disappeared. Glowing yellow-white. Half-moon shape. 45 degree angle in SE	Azimuth 132 degrees. 5 degrees elevation. Gibbous.
5/8/66	New Carlisle, OH	0535Z 5/8/66	Bright light visible for a few minutes before being covered up by clouds. Visible in SE.	Azimuth 141 degrees. 12 degrees elevation. Gibbous.
5/25/66	Mobile, AL	0320Z- 0410Z 5/25/66	Five white cotton ball objects with pink cast visible before main object. Scattered clouds. WNW with 35 degree elevation.	Azimuth 283 degrees. 21 degrees elevation. Crescent.
5/27/66	Roslyn Heights, NY	2315Z 5/27/66	Visible for 2 minutes and 30 seconds. Metallic gray with lights all around. Moving westerly. High cirrus clouds. Visible in west 45-75 degrees elevation.	Azimuth 191 degrees. 65 degrees elevation. First Quarter.
6/20/66	Centerville, OH	0230Z- 0333Z 6/21/66	Cigar type orange colored object in NW sky. Moved downward 6 degrees and disappeared.	Azimuth 295 degrees. 8 degrees elevation. Moon set 0322Z Azimuth 303 degrees. Crescent.
6/20/66	Dayton, OH	0230Z- 0300Z 6/21/66	Bottom edge convex. Top sides irregular. Red orange flashes noted. Moving South to west. Overhead to near horizon.	Azimuth 295 degrees. 8 degrees elevation. Moon set 0322Z Azimuth 303 degrees. Crescent.
7/30/66	Coldwater, OH	0815Z- 0900Z 7/31/66	Bright orange colored object in SW sky with oblong cigars on each side. Moved from South to SW. Descended from 15 degrees to near horizon.	Azimuth 224 degrees. 9 degrees elevation. Moon set 0922Z Azimuth 235 degrees. Full.
8/24/66	Troy, OH	0427Z- 0435Z 8/25/66	Driving in car. Visible in SW. Two orange disc-shaped objects came out of cloud. Clouds covered and revealed them intermittently.	Azimuth 224 degrees. 8 degrees elevation. Moon set 0530Z Azimuth 234 degrees. First quarter.
8/25/66	West Hampton Beach, NY	0440Z- 0455Z 8/25/66	Football shaped tilted at 45 degree angle. Bright orange. Stationary. 10 degrees elevation 270 degrees azimuth. Traveling in car from Riverhead to Westhampton (180 degrees azimuth at location sighted object). Seen in SW direction based on description (towards base housing).	Azimuth 232 degrees. 4 degrees elevation. Moon set 0507Z Azimuth 236 degrees. First quarter.
8/28/66	Oregon, WI	0800Z- 0820Z 8/28/66	Stationary objects in SW. Seen as first object (large balloon with propeller) and second object (The moon) 15 minutes apart. Both were reddish orange or orange. Some clouds.	Azimuth 231 degrees. 4 degrees elevation. Moon set 0830Z Azimuth 236 degrees. Gibbous.
9/16/66	Duluth International Airport	0100Z- 0105Z 9/17/66	Orange sphere seen at ten degrees elevation 240 degrees azimuth.	Azimuth 253 degrees. 4 degrees elevation. Moon set 0127Z Azimuth 258 degrees. Crescent.
9/22- 24/66	Spring Valley, OH	0433Z- 0501Z 9/23/66 0630Z 9/24/66	For two nights observer saw object in SW sky. Brighter than the sun or full moon. Object extremely bright red orange dimming to yellow. Record for second sighting was from memory on 11/10/66.	9/23 Azimuth 228 degrees. 5 degrees elevation. Moon set 0513Z Azimuth 234 degrees. First quarter. 9/24 Moon set 0613Z Azimuth 237 degrees. First quarter.

10/3/66	Wall, SD	0235Z 10/4/66	Cigar shaped object on eastern horizon comparable to sunset. Orange in color. Partly cloudy. Visible for about 1 minute.	Azimuth 62 degrees. 1 degrees elevation. Gibbous.
10/16/66	Richmond, VA (actual location Greenville, OH)	2300Z 10/16/66	Crescent moon shape moving East to West. Changed to funnel shape. Then changed to sphere shape.	Azimuth 224 degrees. 14 degrees elevation. Crescent.
1/29/67	Knox City, MO	0400Z 1/30/67	Reddish object rose in eastern sky. A bit flat on top and bottom. Appeared to be made of fiberglass with a ring of thruster engines.	Azimuth 90 degrees. 2 degrees elevation. Gibbous.
2/1/67	Kansas City, MO	No time.	Circle then a half circle. Bright light that faded away. Hazy sky with scattered clouds.	Moon rise 0619Z azimuth 105 degrees. Last Quarter
2/20/67	Oxford, WI	0910Z 2/20/67	Driving truck westward. Noticed orange red colored object approach and parallel truck. Flying towards east. Seen in NW moving northward at an angle towards the horizon. Cloudy skies.	Azimuth 300 degrees. 8 degrees elevation. Gibbous. See SUNlite 9-1
2/26/67	Dayton, OH	0210Z 2/27/67	Bright orange object in eastern sky. Appeared to move southward. Initially round but changed shape to a cigar. Disappeared into clouds. Bright as the sun without any glare. Visible low in NE.	Azimuth 94 degrees. 1 degrees elevation. Gibbous.
3/15/67	Dayton, OH	0010Z- 0300Z 3/16/67	Butterfly or box kite shape. Visible through clouds. Overhead to 55 degrees elevation in west. Still in view at 0300Z.	Azimuth 250 degrees. 53 degrees elevation. Moon set 0514Z Azimuth 299 degrees. Crescent.
4/12/67	Cherryville, NC	0210Z- 0220Z 4/13/67	Red with a few white lights. Cloudy and hazy. Driving in a car in west direction. Elevation angle of 35 degrees. Saw through front windshield.	Azimuth 290 degrees. 9 degrees elevation. Crescent.
4/18/67	Tucson, AZ	0830Z- 0845Z 4/18/67 (Zulu time on card incorrect 0130 MST=0830Z)	Very bright orange. Circular with 1/3 of it missing. Had dark spots and blue halo around it. Disappeared slowly to the horizon. NW to West motion.	Azimuth 293 degrees. 8 degrees elevation. Moon set 0916Z Azimuth 299 degrees. First Quarter.
5/26/67	Dayton, OH	0500Z 5/26/67	Visible low in SE for five minutes. Bottom 1/3rd of object covered. Bright orange. Almost red. Scattered clouds with light rain.	Azimuth 142 degrees. 11 degrees elevation. Gibbous.
5/27/67	Kirksville, MO	0730Z- 0800Z 5/27/67 (Zulu time on card incorrect 0230 CDT=0730Z)	Pinkish/Fiery color. Bright like a sunset. Cloudy conditions. Circular object with 1/4 missing. 30 degrees elevation to the SE.	Azimuth 153 degrees. 17 degrees elevation. Gibbous.

7/12/67	Indianapolis, IN	0415Z- 0435Z 7/13/67	Scattered clouds. Cigar shape. Low towards horizon. Descended behind trees. Pulsating bright sunlight.	Azimuth 269 degrees. 4 degrees elevation. Moon set 0435Z Azimuth 272 degrees. Crescent.
11/5/67	Farmersville, OH	0100Z 11/6/67	Visible five minutes. 20 degrees elevation 258 degrees azimuth. Looked like first quarter moon.	Azimuth 229 degrees. 2 degrees elevation. Moon set 0116Z Azimuth 232 degrees. Crescent.
4/4/68	Cochrane, WI	0215Z- 0225Z 4/5/68	Visible five minutes. Driving in car in NW direction. Like a pointed boomerang. Orangish. Fuzzy edges. Went from East to SW. Mostly cloudy with fog. At one point, witness stated it was overhead and to NNE (The direction she thought she was driving).	Azimuth 260 degrees. 53 degrees elevation. First Quarter.
7/11/68	Eielson AFB, AK	1200Z- 1225Z 7/11/68	Low near horizon. Moved from SSW towards SW. Hazy conditions. Bright orange or yellow. Round object.	Azimuth 189 degrees 1 degrees elevation. Moon set 1303Z Azimuth 203 degrees. Full
7/28/68	Altavista, VA (incorrectly identified as Attanista)	0215Z 7/29/68	2-3 minutes. Quarter moon shaped. White-Yellow. 20-30 degrees above the western horizon. Two objects side by side. As first object disappeared second appeared. Some cirrus clouds.	Azimuth 275 degrees 2 degrees elevation. Moon set 0230Z Azimuth 277 degrees. Crescent
8/15/68	Yellow Springs, OH	0430Z- 0500Z 8/15/68	Large yellow-gold-white light. Visible in NE to ENE.	Azimuth 74 degrees. 9 degrees elevation. Last Quarter.
8/30/68	Hamilton, OH	0205Z- 0245Z 8/31/68	Football shaped light that moved downward. Was in SW and disappeared behind clouds. 60-45 degrees elevation towards the southwest.	Azimuth 216 degrees. 15 degrees elevation. Moon set 0355Z Azimuth 235 degrees. First Quarter.
12/5/68	Bellefontaine, OH	0005Z- 0020Z 12/6/68	Seen when driving car eastward. 30 degrees above horizon. Moving East and then, after turning south, object followed car southward. Seen out left side of car. Round and bluish white.	Azimuth 74 degrees. 23 degrees elevation. Full
8/26/69	Algoma, WI	0900Z 8/26/69	Bright light west of their boat sometimes obscured by clouds. Brilliant orange with tail. Shaped like half of a watermelon.	Azimuth 236 degrees. 6 degrees elevation. Full