

Comprehensive Catalog of 1,600 Project Blue Book UFO Unknowns: Database Catalog *Not* a Best Evidence List – Work in Progress (Version 1.25, Jan. 2, 2014)

Compiled by Brad Sparks, © 2001-2014

The main purpose of this catalog *at present* is to help identify and fill in where possible missing or difficult-to-obtain U.S. Air Force documentation on better quality Unexplained UFO cases, not to present any so-called "proof" of UFO reality nor to discuss possible IFO identifications, subjects reserved for later analysis once full files can be examined (with a few exceptions on IFO's noted below). This is *not* a list of official USAF designations of "Unexplained" or "Unknown" cases as it has proven to be almost impossible to establish *when* such evaluations can be considered definitive and many more cases misdesignated IFO's have turned out to be Unexplained UFO's based on recent analyses.

Here the goal is preliminary and to compile more complete documentation, not the perfection of the analysis or categorizations. Many cases here are merely *placeholders* for later work to fill in more info from the BB files or other sources. This catalog will be used eventually to produce *another* catalog of UFO Best Evidence after a screening process based on Hynek's and other criteria and for that reason columns for data on Duration, No. of Witnesses, Angular Size and "Instrumentation/Scientists etc." have been separately presented from the available case data and/or calculated where possible.

When IFO/conventional explanations are tentatively found or suggested on occasion the *cases are not removed from the catalog*, so that researchers will be able to keep track of changes in case status from revision to revision of this Catalog. There is no point in segregating such relatively few cases from the main catalog into some separate catalog listing because (a) many such IFO suggestions are only tentative anyway, thus requiring some difficult and pointless BB-style ranking of certitude into Possible, Probable, Certain, etc., and (b) multiple lists make it more difficult to locate cases – keeping all cases in one chronological master list is easier for reference.

When Project Blue Book (BB) closed down on Jan. 30, 1970 (it was *not* on Dec. 17, 1969, which was merely the announcement date by the Secretary of the Air Force) the total number of Unidentified sightings was thought to be 701 and this is the number given on all subsequent press releases and so-called "fact sheets." However, based on the review by Hynek and the CUFOs staff of the released sanitized BB microfilm and Hynek's personal records which included many missing (and unsanitized) BB documents, the final number was determined to have been approximately 587, apparently reflecting an IFO elimination process carried out on old historical cases by the second-to-last BB Chief, Major Hector Quintanilla in the 60's (and of dubious scientific validity based on examples McDonald studied), which must have reduced the number of Unexplained cases by 114. Evidently the AF did not update its annual historical UFO statistics to reflect this gradual winnowing process, not realizing it could improve upon its anti-UFO PR position by reducing the perennially embarrassing number of Unidentifieds.

Perhaps Quintanilla did not regard it as his job to update the SAFOI (SecAF Office of Information) statistics, letting that be the PR function of some PIO staffer in the Pentagon.

However, in reverse, Hynek re-evaluated 53 Blue Book IFO cases as Unexplained UFO cases, bringing the total partially back, up to 640, unfortunately a complete list identifying these is not available, though some of the worksheets have been copied by Jan Aldrich from CUFOS-Hynek files. A number of the re-evaluated cases have been included in *The Hynek UFO Report* book published in 1977.

Much more disturbing are the indications from my limited review of BB cases that there may be as many as possibly 4,000 Unexplained UFO cases miscategorized as IFO's in the BB files. McDonald similarly stated in 1968 at his CASI lecture that from his review of BB cases he estimated that 30-40% of 12,000 cases were Unexplained, or about 3,600 to 4,800. These are mostly military cases and many involve radar. McDonald argued with Hynek on a number of occasions from 1966 onward that the number of Unknowns in the BB files was in reality "about an order of magnitude" greater than what the AF claimed (so instead of 500-600 Unidentifieds possibly as many as 5,000-6,000).

The BB files total some 13,134 cases altogether, UFO and IFO, according to the Hynek-CUFOS revised statistics, or about 14,613 when 1,558 "info only" cases are included, per the Saunders/FUFOR Index. Many cases are actually multiple incidents, perhaps totaling 324 or more, filed under one date/location (e.g., Aug 1965 Houston, Texas, with no day specified in August, has "59 reports" in one case file as if it was only one case, but it is unclear how many are multiple witnesses' reports of one UFO incident or how many are actually separate UFO incidents lumped together into one catchall file). The CUFOS UFOCAT database, which includes the BB entries cataloged by former Condon project scientist David Saunders, has approximately 15,472 entries but include an unknown number of duplicates which are extremely time-consuming to weed out. For simplicity I am therefore rounding to 15,000 as the approximate total number of UFO incidents in the BB files.

This catalog is based on the outstanding catalog prepared by Don Berliner of the Fund for UFO Research (FUFOR) from his exhaustive review of the then unreleased Project Blue Book (BB) files at Maxwell AFB (Air Force Base), Alabama, in Jan. 1974, which included many witness names that were later sanitized out ("blacked out") for the public release of the BB files by the Air Force in late 1975. (Kevin Randle and Robert C. Cornett prepared an Unknowns catalog exactly like Berliner's, some time early in 1975 before the files were withdrawn from public access in April 1975 for release review and processing. Randle, *Project Blue Book Exposed*, 1997, pp. 208-265. The Randle-Cornett catalog has been used in those rare cases, numbering about 40, where it supplements what is in the Berliner catalog.) Berliner's effort is now supplemented with the tremendous intelligence coup by William Weitzel and FUFOR in early March 1998 in discovering and later securing copies of the unsanitized pre-redaction record copy 16 mm Maxwell AFB microfilm of the BB files, filmed at Maxwell in Feb. 1975, that the National Archives inadvertently made available (at the College Park, Maryland, NARA II facility in Record Group 341 / 190 / 68 / 08 / 03, boxes 1-6, 70 films numbered 30,362 through 30,431). All of UFOlogy owes an enormous debt of gratitude to FUFOR for this lasting

contribution to the preservation and disclosure of this vast treasure of priceless military UFO records.

The AF security classification and privacy review panel began reviewing the BB files by April 1975 (when the BB files were withdrawn from access by AF Archives at Maxwell) and sanitizing witness names (also destroying or removing certain documents evidently thought embarrassing or incriminating to the AF such as famed Lockheed aircraft designer Clarence “Kelly” Johnson’s signature page with his conclusion that the UFO he saw was an actual “device”). The AF finished the review and turned over sanitized files to NARS (now called NARA) in Dec 1975, apparently without yet physically moving the files to NARS facilities (they evidently remained at Maxwell AFB until a 2nd microfilming, post-redaction) now including an added set of AF Office of Special Investigations (AFOSI) files of UFO investigations from 1948 to 1968 released by AFOSI (some of which were already in BB files and some not).

Then NARS started microfilming BB files by Reproduction Service Order NNMM 76-57, approved by NARS Modern Military Branch Chief William H. Cunliffe, Jr., which was placed with commercial firm Fuller & Dees Marketing Group, Montgomery, Ala., on Feb. 19, 1976, (see Order on BB Microfilm Roll 89) indicating that the BB files had not yet been moved out of Maxwell AFB, Montgomery, and were now being microfilmed a 2nd time in Montgomery, this time after redaction. NARS publicly released the BB paper files at NARS, College Park Branch, Md., in mid-May 1976 and the 94 reels of 35 mm microfilm were released on July 12, 1976 (see CUFOS-NARS correspondence 1976).

The Blue Book Archive project, founded in 2004 and headed by software developer Rebecca Wise, was ambitiously determined to put the entire BB file collection, both NARA and unsanitized Maxwell AFB versions (plus several rare Project SIGN and BLUE BOOK microfilms rescued from oblivion by Herbert Strentz in 1968, as well as other government UFO document collections), online on the Internet/Web including searchable OCR text. This project has been stalled for the last few years and is on hiatus at present (2012). It had been hoped to add the McDonald and Hynek BB collections, including their case investigation reports and notes.

The current BB Archives collection of about 56,000 pages consists of mostly unredacted AF UFO files, roughly 45,000 pages of BB files (a partial set, of just over 1/3 of approximately 123,000 pages total BB files), several sets of additional AF files (possibly 10,000 pages many duplicating BB files but often in much more legible copies) and redacted AFOSI UFO files (about 7,000 pages). This online collection is organized exactly the way the AF organized the files for record-copy microfilming in Feb 1975 (done so that the AF would have an official record of what was turned over to the National Archives in Dec 1975, then called NARS now NARA). Sometime later the AF decided to give up to NARS/NARA even its record microfilm and this is where they were discovered in 1998.

In 2007, the National Archives allowed the entire collection of sanitized BB documents to be put on the Web through a private company (originally called Footnote.com, now called Fold3.com, renamed in 2011), totaling nearly 130,000 pages (129,658 pages, a figure that is

much higher than my previous estimate of about 115,000 pages for combined BB + AFOSI). The Fold3 collection of BB documents does include the AFOSI collection of roughly 7,000 pages (contrary to what I had previously thought, and enabling me to update my prior estimate of about 5,000 pages to about 7,000 pages).

Footnote (now Fold3) reorganized the BB case files. The original BB UFO case files were organized chronologically, followed by the Administrative files in the rather confused often non-chronological order the BB staff left them in. The BB Archives follows this pattern strictly in order to maintain page-for-page traceability to the Maxwell and NARA (and other AF) microfilm rolls. But the original BB files were sometimes out of order chronologically for various reasons (e.g., much of the Jan. 7, 1948, Mantell file was put in a "special file" not placed in Jan 1948 but between March and April 1948; most of the BB file on the famous Tremonton, Utah, movie film case of July 2, 1952, is *missing* somewhere on Fold3, with only a few pages in the designated July 1952 Tremonton file – the bulk of the file is probably misplaced in some "[ILLEGIBLE]" catch-all file on Fold3).

The Footnote/Fold3 file organization uses the sighting file Month as its basic unit, with individual cases *alphabetically* arranged *within that month*. (Sometimes when cases do not have a month date there are seasons or quarters used for dates instead, such as Spring or Summer, and cases with only a year are apparently put into a January grouping of some sort.) But if the Footnote/Fold3 organizers didn't find a BB Record Card to separate cases then multiple unrelated cases ended up being mindlessly merged together without end until another BB Record Card shows up to begin a new case partition. Also, Footnote people decided to shove various BB Admin memos and documents at the end of the Month of the document's date, sometimes tacked onto the end of a completely unrelated UFO sighting file that happened to be at the end of the Month alphabetically in Footnote's reorganized scheme, or in some mammoth catch-all [BLANK] file heading or [BLANK] [BLANK] or [ILLEGIBLE], etc., sometimes hundreds of pages long! They decided to shove all the 7,000+ pages of AFOSI files at the very end of the BB files, after Dec 1969, in some immense [BLANK] [BLANK] [BLANK] heading.

Sources and Catalogs of BB Cases Designated as Unidentifieds

The Berliner and Randle-Cornett catalogs have been heavily augmented here with:

- (a) Listing of BB Unknowns selected from the National Archives index of BB cases (published by Steiger in Nov 1976 and available on the World Wide Web at various websites) but lacking descriptive sighting details.
- (b) Partial case listings of re-evaluations by Hynek and CUFOs staff (primarily in *The Hynek UFO Report*, Dell, Dec. 1977), who personally retained many hundreds of unsanitized BB case files in his personal papers which are now with CUFOs (partially made available thanks to the tremendous efforts of Mary Castner and Jan Aldrich; location and existence of some Hynek files still uncertain).
- (c) The 1969 Magonia catalog of landing/close encounter cases by Jacques Vallée who as Hynek's assistant in the 60's examined the BB files and Hynek's copies of BB cases, when many reports had not yet "disappeared."

- (d) Battelle Memorial Institute list of 12 Best Unknowns which also caught a few cases before records vanished (May 5, 1955, report issued as Blue Book Special Report No. 14).
- (e) Lists by James McDonald who saw and copied BB files on five research trips from June 1966 to Aug. 1970 and conducted his own exhaustive and independent investigations, especially see his prepared statement in the 1968 House Committee on Science and Astronautics hearing (McDonald 1968; see the National Capital Area Skeptics website) and his 1969 AAAS paper as revised and published posthumously by Sagan & Page (McDonald 1972).
- (f) Records obtained by Jan Aldrich of Project 1947 directly from unsanitized BB files on the Maxwell AFB microfilm, from McDonald, CUFOs, Robert G. Todd, Willy Smith, and Keyhoe/Richard Hall/FUFOR files, from FOIA requests to declassify AF HQ records at National Archives, and from SHG oral history and file recovery efforts.
- (g) Condon project (Univ. of Colorado Project) investigations of BB cases published in the Condon Report (Bantam Books edition, New York, Jan. 1969; especially see the convenient "Sightings, Unexplained" listing in the index, p. 961).
- (h) FUFOR's *Index to the Case Files of Project Blue Book* (1997) which consists of a computer printout reportedly prepared by David R. Saunders of the Condon project, completed circa 1970, but which inexplicably includes cases up to Dec. 1969 near the end of BLUE BOOK and over a year after the AF contract with the Condon project had ended in Oct. 1968. Don Johnson has incorporated these BB listings into his digital UFOCAT database.
- (i) National Aviation Reporting Center on Anomalous Phenomena (NARCAP).
- (j) Willy Smith's case evaluations (*On Pilots and UFOs*, UNICAT 1997).
- (k) NICAP website compiled by Francis Ridge.
- (l) Dominique Weinstein's *Aircraft/UFO Encounters* (Nov. 1997; and rev. 5th ed. June 2001, *Aircraft UAP Encounters*).
- (m) H. B. Darrach and Robert Ginna, *LIFE* magazine article, April 7, 1952.
- (n) Various USAF records obtained by Freedom of Information Act (FOIA) requests, especially a collection of long-missing Project SIGN/GRUDGE records found at the St. Louis records center, however please note that it is uncertain whether all of these cases are in the BB/predecessor files or had ever been and got lost or were removed.
- (o) U.S. Air Force Intelligence TOP SECRET analysis of flying disc incidents, April 28, 1949, Report No. 100-203-79 or "AIR 203."
- (p) Martin Shough catalog of radar UFO incidents (RADCAT), 1987, revised 2002, and augmented by Jan Aldrich and Brad Sparks.
- (q) My personal investigations and research (especially all bracketed [] material and most parenthetical () material).

There are other resources that could be consulted and will be eventually. An outstanding example is the voluminous collection of Loren Gross histories only recently made available to this researcher thanks to the untiring efforts of Mary Castner of CUFOs and still undergoing review. But this is a first pass at an ongoing, continually revised and supplemented work. The Blue Book Archive has been authorized by Gross to put his entire history collection online on the Web but this is a huge project for the future.

Another outstanding effort by the new NICAP website team headed by Francis Ridge has gathered together a group of UFOlogist specialists to download and review BB and other UFO file materials for open Web access. The new materials, including some contributions by Sparks, Shough, Aldrich, Ridge, and others, has not yet been fully digested for this BB Unknowns Catalog, but will be assimilated in due course.

The Berliner, Randle-Cornett and the National Archives lists represent most of the cases that BB itself categorized as Unknowns when it closed down in 1970. Only after all of the unsanitized records have been examined will it be possible to complete and double check this list. I hope to eventually include all cases that have ever been categorized as Unknowns by BB or its predecessor projects. Later, this full list will then be fully re-screened for IFO's.

At present it is unclear at what stage or stages the various lists of Blue Book Unknowns represent initial, intermediate or final evaluations by Blue Book staff and/or Blue Book consultants such as Hynek and Battelle Memorial Institute (which carried out the March 31, 1952 – March 17, 1954, statistical study known as BB Special Report 14, and known internally as Project STORK subproject PPS-100). Hynek with graduate assistant Jennie Gluck (Zeidman) set up a subproject of STORK/Battelle (PPS-161) for Blue Book, called Project HENRY from Jan to Dec 1953/Jan 1954, to channel Hynek's astronomical consulting services and to act as an administrative and investigative supplement to the downsized Blue Book project. HENRY reviewed about ½ of the 1953 UFO cases that came into Blue Book (see CUFOS files for index tabulations and partial case file copies).

A comprehensive examination of the sanitized and unsanitized BB microfilm files and Hynek's enormous BB record collection at CUFOS would be needed to answer the question about what stage of evaluation did "Unknown" or "Unidentified" or "Unexplained" appear in most cases but at present there are no resources to undertake such a time-consuming project. Even so, because of lost and incomplete files this may not be possible in all cases even if the available records could be studied. The goal here is completeness of documentation and to try to fill in gaps where records have been lost. Whenever a case has been evaluated as an "Unknown" or "Unidentified" by BB staff and/or competent investigators it is included here, with preference given for those cases that have actually been *investigated* since it appears that quite a few that are on BB's list as Unknowns do not seem to have actually been investigated. Eventually such cases will be weeded out (at the screening stage mentioned above). Cases that were evaluated by the AF as Unknowns at some point but have turned out to be IFO's are excluded here (Fred Johnson and Chiles-Whitted are included here but with IFO notations), and some famous cases may never have been officially considered unexplained by the military or perhaps only briefly (e.g., Kenneth Arnold).

However, please note that in general when there is some doubt as to whether a case was ever actually on file at BB or its predecessors I will err on the side of *inclusiveness* and will include it rather than omit it.

IMPORTANT: Please note that the AF did *not* simply start by calling all 15,000 cases "Unknowns" and then whittle them down to 700. Rather, the AF started with 15,000 cases and after a process of elimination and some investigation came up with only some 700

"Unknowns." That is the total at the end in 1970 but if cases that were classed as Unknowns at various times from 1947 to 1969 are included the total may be closer to the 1,600 or so cataloged here. Also please note that *information on each BB case in this catalog is presented from all sources* not just the information from the BB case file so that the sighting event is as reasonably complete as possible within space limitations.

For convenience "BB files" will be considered inclusive of predecessor projects at Wright-Patterson AFB (Wright Field), but not projects or investigations elsewhere, such as Air Force Intelligence or AFOSI.

Note that operational dates are not necessarily the dates of the orders unless the orders were implemented immediately or made effective immediately or both. For example, Project SIGN was ordered by the AF Director of R&D (Craigie) on Dec. 30, 1947, to be set up but was not initiated until Jan. 22/23 and not formally "operational" as Project HT-304 until Jan. 26, 1948, later designated Project XS-304. SIGN's name was ordered changed by the new AF Director of R&D (Putt) on Dec. 16, 1948, but the name change was not implemented until the day after SIGN's Final Report was issued on Feb. 11, 1949:

Operational Dates of UFO Projects at Wright-Patterson AFB (Wright Field)

Initial unnamed AMC project	June 30, 1947 -	Jan. 26, 1948
Project SIGN	Jan. 26, 1948 -	Feb. 11, 1949
Project GRUDGE	Feb. 12, 1949 -	Aug. 10, 1949
GRUDGE dormancy period	Aug. 10, 1949 -	July 7, 1950
GRUDGE reactivation	July 7, 1950 -	Oct. 22, 1951
"New Project" GRUDGE	Oct. 22, 1951 -	Mar. 25, 1952
Project BLUE BOOK	Mar. 25, 1952 -	Jan. 30, 1970

Comments such as "No further information in the files" are typically by Berliner. Annotations of "Case missing" are usually from the National Archives index. Uncertainties or discrepancies in reported data such as dates, times, etc., are indicated in brackets [] and/or with question marks [?], and conflicting data from differing sources may be indicated by "cf." in the sources notes. Cases that may seem out of order by time of day are listed approximately chronologically according to times as converted to GMT or UTC, though not perfectly rigorously. The local time is more important for indicating lighting conditions than robotically converting all times to a universal GMT/UTC which no one can relate to. Similarly I do not use 24-hour clock times as most people myself included do not do the mental time conversions necessary and the time data just gets ignored. Some date confusion exists on many nighttime cases due to midnight date crossovers, which will have to be resolved by study of the case files. Geographic locations and coordinates have been spot checked but not completely. State abbreviations (U.S.) are applied partially and only when confusion is avoided. Original units of measurement used by the witnesses are always preferred for accuracy and then conversions as needed presented in parentheses (except angular sizes are usually converted to degree measure or "full moon" units and the details if needed can be retrieved from the case file). Statute miles are preferred here, however in many cases military records referring to "miles" may refer to nautical miles and it is not possible at present to know for certainty which unit is used.

NOTE on Geographic Latitude-Longitude Coordinates: Many of the lat-long coordinates are from the Saunders/FUFOR Index and have not been checked; these usually refer to generic coordinates of a city or town and *not* to the exact location of the witness. UFO coordinates are usually never known as accurately as those of the witnesses so witness coordinates are given except where noted. The best coordinate data are when the lat-long coordinates are stated as “at” the given lat-long. This means the UFO witnesses were actually located “at” that position and it is not a generic set of coordinates. If locations changed because witnesses were in a moving vehicle the initial coordinates are given first in the geographic location header for the entry and subsequent coordinates are given in the body of the narrative if available.

NOTE ON CATALOGING PROCEDURES: These case entries are *not* final, complete, scientific investigations. This is a *catalog* not an *encyclopedia*. It is by nature a *synopsis* of AF records (as supplemented) in varying stages and states of completeness and incompleteness, with analytical comments and data corrections where possible. This is a spare-time volunteer effort and I have been unable to completely review all ~270,000 pages of BB and AFOSI files and duplicates and supplemental AF files (often both the unredacted Maxwell AFB and redacted NARS copies must be reviewed because of legibility problems, missing pages, etc.). Only about 1/3 of the unredacted Maxwell BB copies are online, so the other 2/3 are presently unavailable. In many cases these are *placeholder entries* awaiting further documentation and/or time and resources to look up the cases online to see if available and then to digest them. Bare entries of only a few lines, usually referenced to the “McDonald list” or to the “Berliner” catalog of BB Unknowns, are obvious placeholders for which little or no checking has been done.

No.	BB Case No.	BLUE BOOK UNKNOWN: Date. Location of Witnesses (when given as “at” a certain Lat-Long the actual coordinates have been checked and are not generic coordinates for a city/landmark). Time. Witnesses & Circumstances. (Principal Sources identifying case as found in BB/predecessor files)	Duration	No. of Witnesses	Angular Size (max.) in Full Moons (= 0.5° approx.)	Instruments / Scientists, etc.
1.		Jan. 16, 1947. North Sea, 50 miles from Holland. 10:30 p.m. (GMT). RAF pilot of Mosquito pursued unidentified radar target showing efficient controlled evasive action at 22,000 ft speed equal or greater than Mosquito, headed W? towards Norfolk, Eng. (Sparks; FOIA)		1+		radar
2.		April 1947. Richmond, Virginia (37.55° N, 77.44° W). 11 a.m. (EST). Meteorologist Minczewski saw a silvery disc through a theodolite while tracking a pibal weather balloon, traveling E to W at less than 15,000 ft, appeared larger than the balloon. (Sparks; McDonald 1968; FOIA; Saunders/FUFOR Index)		1		theodolite; meteorologist
3.		May 17 [19?], 1947. Oklahoma City, Oklahoma (35.46° N, 97.51° W). 8:30-9 p.m. Field Engineer Savage saw a frosty white round and flat object, with diameter/thickness ratio 10:1, the size of a B-29 [?] (140 ft) traveling N at 350° heading at 10,000-18,000 ft and 3 times speed of a jet [1,800 mph] with a slight swishing sound. (Sparks; FOIA; Saunders/FUFOR Index)	30 mins	1	1 ?	
4.		June 2, 1947. 2-3 miles S [?] of Rehoboth Beach (near Lewes), Delaware. Pilot Horace P. Wenyon in aircraft		1		

		<p>flying N at 1,400 ft saw a silvery “mayonnaise jar”-shaped object 15 inches [?] in size cross in front of the plane at 1,000-1,200 mph heading W to E on a straight course at same altitude, with a silver-white fire exhaust. Confusion with previous sightings of “same object” in Sept and Oct 1946. [Daytime meteor?] (Sparks; Project 1947; McDonald list; FOIA; Bloecher 1967)</p>				
5.		<p>June 12, 1947. Weiser, Idaho (44.25° N, 116.98° W). 6:15 p.m. Mrs. H. Erickson saw 2 high speed round objects glistening in the sun at high altitude headed SE in trail formation moving up and down twice and leaving a vapor trail that persisted for over an hour. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index; Bloecher 1967)</p>	several secs ?	1		
6.		<p>June 14 [23?], 1947. Bakersfield, Calif. (35.37° N, 119.00° W). 12, 2:15 p.m. Veteran pilot Richard Rankin and a young boy saw 10 "almost round" or Flying Flapjack-shaped objects in formation at 9,000 ft and 300-400 mph headed N on a straight level course, then 7 returned on reverse S course at 2:15 p.m. (Sparks; McDonald list; Saunders/FUFOR Index; Bloecher 1967)</p>		2		
7.		<p>June 21, 1947. Spokane, Wash. (47.66° N, 117.44° W). 11:50 [11:55 PST?] a.m. Civilian woman [Mrs. Guy R. ?] Overman saw 8 [shiny silvery and slim-bodied?] disk-shaped objects the size of a house fly at 600 mph [or slower than a 2-engine army plane?] traveling SSW at 7,000 ft one object below an aircraft, then fall with a dead-leaf motion and land before 10 witnesses on the shore of the St. Joe River, Idaho. (Sparks; Vallée Magonia 57; cf. FOIA; Saunders/FUFOR Index; Bloecher 1967)</p>	several mins ?	11		
8.	12	<p>June 24, 1947. Mt. Adams, Wash. Afternoon. Prospector Fred Johnson of Portland, Oregon, was at the 5,000 ft level when he saw a group of 6-7 fast-moving objects [heading SE?], extremely bright on top, with long sharply pointed tails and one waving like a compass needle, flashing when seeming to bank, at perhaps 1° elevation (seemingly 1,000 ft higher and possibly 10 miles away), angular size roughly 0.03° (seeming 30 ft size at 10 miles) viewed through a small pocket telescope, focusing on one object mainly while noting 5-6 others; his compass needle fluctuated. [Probable daytime meteor fireball simultaneous with Kenneth Arnold.] (Sparks; FOIA; Bloecher 1967)</p>	45-60 secs ?	1	1/15 ? (0.3° equiv in telesc??)	telescope; EM?
9.		<p>June 28, 1947. Rockfield, Wisc. (43.24° N, 88.09° W). 3:43 [3:45 CST?] p.m. Marion Beuschler and her brother a farmer saw 7-10 saucer-shaped objects fly overhead heading S at high speed. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index; Bloecher 1967)</p>		2		
10.		<p>June 28, 1947. 30 miles NW of Lake Mead, Nevada (37° N, 115° W). 3:15 [1:15 PST?] p.m. AAF pilot Lt. K. B. Armstrong from Brook AAF, San Antonio, Texas, flying F-51 fighter at 6,000 ft saw a tight formation of 5-6 white circular 3 ft objects off his right wing heading 120° [about ESE] at 6,000 ft at 285 mph. (Sparks; Ruppelt p. 19; FOIA; Saunders/FUFOR Index; Bloecher 1967; FBI files)</p>		1		

11.		June 28 [26?], 1947. Maxwell AFB, Montgomery, Alabama (32.37° N, 86.31° W). 9:20-9:45 p.m. 4 AAF officers including 2 pilots and 2 intelligence officers, Capt. W. H. Kayko, Capt. J. H. Cantrell, Capt. Redman, 1st Lt. T. Dewey, saw a bright light just above the SW horizon travel towards them in a zigzag with bursts of high speed, when directly overhead it made a sharp 90° turn and lost to view in the S [SW?]. (Sparks; Ruppelt p. 19; FOIA; Saunders/FUFOR Index; Bloecher 1967)	25 mins	4		
12.		June 29, 1947. Des Moines, Iowa (42.74° N, 93.74° W) [Clarion, Iowa ?]. 3:45 [4:45 CST?] p.m. Bus driver Dale Bays saw a single file line of 4 [18 ?] "dirty white" round objects between circular and oval in shape, inverted saucer shape about 175-250 ft diameter 12 ft thick, at about 1,200 ft height traveling about 300 mph to the SSE, sound of electric motor or dynamo. Another group of 13 objects seen heading SSE to NNW [later?]. (Sparks; Battelle/BBSR14 ?; Mary Castner/CUFOS; Saunders/FUFOR Index; FOIA; Bloecher 1967)	few mins		15-20 ?	
13.		June 29, 1947. About 7 [?] miles ENE of Las Cruces, New Mexico (at 32.3° N, 106.7° W). About 1:15 [1:20?] p.m. Rocket scientist-engineer Dr. Carl J. Zohn, Admin Asst., Rocket Sonde Section, USN Naval Research Lab (NRL) temporarily assigned to White Sands Proving Ground (WSPG), NRL high-altitude spectrograph scientist Curtis C. Rockwood and his wife Nancy, and NRL telemetry supervisor John R. [W.?] Kauke also posted to WSPG, were driving in a car from Las Cruces to WSPG to the V-2 launch site on Highway 17 [70?] headed NE at 60 mph when they saw to their right front [E] a rotating [?] silvery or shiny disc or sphere with no appendages, wings, tail, propellers, angular size of the sun (0.5°), reflecting sunlight [pulsating?], crossing the sky at high speed heading N right to left at about an estimated 8,000-10,000 ft about 45° elevation which suddenly disappeared in mid-air in a clear cloudless sky (Kauke thought it disappeared by distance). Kauke had stopped the car and briefly saw a short vapor trail at one point not reported by the others. Zohn on the passenger side rolled the window for an unobstructed view. (Sparks; NARA BB Microfilm Roll 1, pp. 648-663, Maxwell Roll 2, pp. 865-878; FOIA; cf. Ruppelt, p. 20; Saunders/FUFOR Index; Randle; Bloecher 1967; etc.)	nearly 60 secs [30-60 secs?]	4	1	Naval Research Lab rocket scientist
14.		June 30, 1947. Near S rim of Grand Canyon, Ariz. 9:10 a.m. (MST?). Navy Lt. William G. [C.?] McGinty flying P-80 from Williams AAF at 30,000 ft heading S saw 2 gray, circular objects about 8 or 10 ft diameter, diving at "unconceivable" speed from about 25,000 ft, which appeared to land 25 miles S of the Grand Canyon. (Sparks; Vallée Magonia 59; cf. Project 1947; FOIA; Saunders/FUFOR Index; Bloecher 1967; FBI files)		1		
15.		July 2, 1947. Roswell, New Mexico. 9:50 p.m. (MST). Pharmacist Dan Wilmot, wife, and son Paul, at home in downtown Roswell, 105 S. Pennsylvania Ave. [at SE corner of Pennsylvania Ave. & W. 1st St.?]. Fireball came from SE [directly or almost directly overhead?], heading	40-50 secs ? [10? secs]	3	1 ?	

		towards and disappearing over Sixmile Mtn at about azimuth 306° (about NW). Entire object glowed, oval shaped like inverted saucers or washbowls, 15-20 ft in size if at 1,500 ft altitude, estimated speed 400-500 mph. [Speed and altitude indicate angular velocity of ~30°/sec which would be inconsistent with 40-50-sec duration, better fit is with ~10-sec duration. Scaling up to possible terminal meteor fireball altitude ~20 mi thus scales speed to ~36,000 mph, typical slow meteor fireball velocity.] (Sparks; <i>Roswell Daily Record</i> , July 8, 1947)				
16.	27	July 3, 1947. South Brooksville-Harborside, Maine. 2:30 p.m. (EDT). Astronomer John F. Cole alerted by a roaring noise overhead saw about 10 very light colored 50-100 ft wide objects to the N at about 50° elevation in a formation initially about 1.5° wide, with 2 dark forms to their left or 2 objects had darker projections somewhat like wings, moving like a swarm of bees to the NW at about 600-1,200 mph through about 30° arc [at about 4-20 miles distance?]. (Sparks; Berliner; McDonald 1968; FOIA; Bliecher 1967)	10-15 secs	1	1/4 to 1/2 ?	astronomer
17.		July 4, 1947. Near Redmond, Oregon. 11 a.m. C. J. Bogue of Tigard, Ore., and other witnesses in a car near Redmond saw 4 discs flying past Mt. Jefferson on a straight course at high speed. (Sparks; McDonald list; FOIA; Ruppelt p. 20; Bloecher 1967)		multiple		
18.		July 4, 1947. Portland and Milwaukie, Oregon, and Vancouver, Wash. 1:05 p.m. Radio newsman Frank Cooley of station KOIN, INS wire service employees in the Portland <i>Oregon Journal</i> Building, Clark County Sheriff's Deputy Fred Krives, Deputy Clarence McKay, Sgt. John Sullivan, Portland Police Officer Kenneth A. McDowell, Harbor Patrol Capt. K. A. Prahm, Harbor Patrolmen A. T. Austad and K. C. Hoff, Portland Police Officers Earl J. Patterson [Paterson?], Walter A. Lissy and Robert Ellis, Oregon Highway Patrol Sgt. Claude Cross, and many others over a wide area saw 5 large discs moving at high speed to the E, 2 flying S and 3 to the E, with oscillating or wobbling motion, sudden 90° turns or zigzagging, radio reports alerted other officers who saw the objects, aluminum or chromium color, disc or hubcap or piepan or half-moon shape flashing in the sun, no vapor trail, no noise (except possible humming), some at 10,000-40,000 ft others at about 1,000 ft. McDowell noticed pigeons reacted. Sullivan, McKay and Krives noted low humming sound and reported 20-30 objects. Cooley reported 12 discs at about 20,000 ft. [Further sightings at 2, 4:30, 5 p.m.] Patterson, Lissy and Ellis were pilots. (Sparks; Hynek UFO Rpt pp. 100-2; McDonald 1968; FOIA; Bloecher 1967)	30-90 secs	many (13+)		
19.		July 4, 1947. Portland, Oregon. 2 p.m. E. A. Evans saw 3 metallic discs glinting sunlight, 1 moving W to E, followed by 2 others heading N. [Other sightings at 1:05, 4:30, 5 p.m.] (Sparks; Hynek UFO Rpt pp. 100-2; McDonald 1968; FOIA; Bloecher 1967)		1		
20.		July 4, 1947. Portland, Oregon. 4:30 p.m. Mrs. L. J. Hayward saw a silvery disc-shaped object looking like a		1		

		new dime flipping in an erratic path moving slowly. [Other sightings at 1:05, 2, 5 p.m.] (Sparks; Hynek UFO Rpt pp. 100-2; McDonald 1968; FOIA; Bloecher 1967)				
21.		July 4, 1947. Portland and Milwaukie, Oregon, and Vancouver, Wash. [?] 5 p.m. [Other sightings at 1:05, 2, 4:30 p.m.] (Sparks; Hynek UFO Rpt pp. 100-2; McDonald 1968; FOIA; Bloecher 1967)				
22.	34	July 4, 1947. Near Emmett, Idaho (43.88° N, 116.48° W). 9:12 [8:17? 8:12?] p.m. (MST). United Air Lines Flight 105 Capt. Emil J. Smith, First Officer Ralph Stevens, Stewardess Marty Morrow who was called in by Smith as a confirming witness, flying NW on heading 300° from Boise to Seattle at about 7,000 ft, saw 5 disc-shaped objects with flat bottoms and rough tops (possibly 100+ ft size) move at varying speeds, in loose formation [or evenly spaced?] roughly 1,000 ft higher in altitude about 10° left of their heading [or at 290°], with one high and to the right of the others in the distance, all disappearing to the W [NW?] in a gradual climb at about 9:20 p.m. as 5 [4?] additional similar objects came into view slightly higher heading W [or took off to the NW; 3 objects in a line with 1 off to the side]. Smith tried to close on the objects at 185 mph as he climbed from 7,000 to 8,000 ft but could not. (Sparks; Berliner; cf. McDonald 1968; Bloecher 1967; FBI files Maury Island)	12-15 mins	3	2 ??	
23.	36	July 6, 1947. Fairfield-Suisan Air Base, Calif. (38.25° N, 121.99° W). Daytime. AAF Capt. and Mrs. James H. Burniston saw a highly reflective round flat object having no wings or tail, the size of a C-54 transport (118 ft) roll from side-to-side 3 times then fly away very fast from NW to the SE [SW?] at 10,000 ft. (Sparks; Berliner; Bloecher 1967)	1 min	2	1 ?	
24.		July 6, 1947. Clay Center (about 100 miles W of Kansas City), Kansas (39.32° N, 97.13° W). 1:45 p.m. AAF pilot Major A. B. Browning and crew flying B-25 E to Kansas City saw a silvery circular object 30-50 ft diameter pacing the aircraft at a little lower altitude then shot off at high speed heading E at 11,000 ft at 210 mph. (Sparks; Project 1947; FOIA; Bloecher 1967)		>2 ?		
25.		July 7, 1947. Lakeland, Florida (28.05° N, 81.94° W). Bet. [?] 1-2 p.m. (EST). Sign painter Griffin saw 5 round shiny objects in the NE climbing at 7,500 ft; shrill noise heard. (Sparks; Battelle/BBSR14 ?; Mary Castner/CUFOS; Saunders/FUFOR Index)		1?		
26.		July 7, 1947. Hickam Field, Hawaii (21.34° N, 157.95° W). 9 a.m. Civil Service employee Saito saw a large silver balloon-like object with silvery disc [attached?] immediately beneath it without attaching cables slowly ascending to the NW at 6,000 ft. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		1		
27.		July 7, 1947. 7 miles N of Shreveport, Louisiana. Morning. Military aircraft pilot Harston saw a bright silver object about the angular size of the moon. (Sparks; Project 1947; McDonald list)		1	1	
28.		July 7, 1947. Muroc Army Air Field, Calif. (34.89° N,		multi	1/10 ?	

		117.88° W). 10:10 a.m. AAF experimental test pilot Major Jowell C. Wise while powering up an XP-84 jet on the runway looked up where others were looking and saw to the N a yellowish-white sphere about 5-10 ft diameter oscillating in a "forward whirling" motion without losing altitude at about 10,000-12,000 ft altitude moving W to E at about 200-225 mph. [Sightings at Muroc next day.] (Sparks; FOIA)		ple		
29.		July 7, 1947.				
30.		July 7, 1947.				
31.		July 7, 1947. Arlington, Virginia (38.91° N, 77.09° W). Bet. 10:30 and 11 p.m. (EDT). AAF Lt. Col. Cobb saw a "blob," the size of a small airplane, reflecting white light flying at less than 500 ft above ground to the SE at about 1,350 mph. (Sparks; FOIA; Saunders/FUFOR Index)			6 ?	
32.	50	July 8, 1947. Muroc Army Air Field, Calif. (34.89° N, 117.88° W). 9:30 a.m. (PDT). AAF 1st Lt. Joseph C. McHenry, T/Sgt Joseph Ruvolo, S/Sgt Gerald E. Nauman, and Miss Jannette Marie Scotte, saw 2 disc-shaped or spherical objects, silver and apparently metallic, fly a wide circular pattern [?] at about 7,000-8,000 ft at 300-400 mph heading 320° (about NW) toward Mojave, Calif. Before the first 2 objects disappeared a 3rd similar disc or spherical silver object reflecting sunlight was seen, with additional 5 witnesses, to the N flying tight circles at about 7,000-8,000 ft beyond capability of known aircraft, maintaining altitude. No sound or trails. [See sightings at Muroc later in the day and previous day.] (Sparks; FOIA)	3-4 mins + ?	9		
33.		July 8, 1947. Muroc Army Air Field, Calif. 11:50 a.m.-12 noon. AAF experimental test pilot Capt. John Paul Stapp, Mr. Lenz from Wright Field and 2 others in an observation truck at Area 3 of Rogers Dry Lake for a P-82 ejection seat test saw a round silver or aluminum-white object at first thought to be a parachute, about 25 ft wide, falling from a height below the 20,000 ft of the test aircraft at 3x the rate for an ejection seat test, drifting horizontally toward Mt. Wilson (to the S) at less than 50-80 mph, which when close to horizon appeared to have an oval outline with 2 thick fins or nobs on the upper surface which seemed to rotate or oscillate, no propellers, slowly disappearing below the mountain tops in the distance after 90 secs. Others witnesses (Black?) independently, including Muroc CO Col. Signa A. Gilkey and engineer Major Richard R. Shoop and wife saw from a different location 5-8 miles away to the N [?] the apparently same falling object, thin metallic aluminum colored and the size of a pursuit aircraft [50 ft?], reflecting sunlight and oscillating, descend to ground level, then rise again and move slowly off in the distance for a total of 8 mins. No sound or trail. [See sightings at Muroc earlier and later in the day and previous day.] (Sparks; FOIA; Vallée Magonia 60)	8 mins	7+	1/5 ?	triangulation?
34.		July 8, 1947. 40 miles S of Muroc Army Air Field. 4 p.m. AAF pilot of an F-51 fighter at about 20,000 ft saw a flat reflective object with no vertical fin or wings flying high above him which he could not reach in a climb. [See previous Muroc sightings.] (Sparks; Ruppelt p. 22)		1		

35.		July 9, 1947. Bet. Meridian and Boise, Idaho (at 43.63° N, 116.21° W). 12:17 p.m. (PDT). <i>Idaho Statesman</i> aviation editor and former (AAF) B-29 pilot Dave Johnson flying in an Idaho Air National Guard AT-6 saw a black disc, standing out against the clouds, make a half-roll then a stair-step climb. Object the size of a 25-cent coin [at arm's length?]. (Sparks; Berliner)	10+ secs	1	2 ?	
36.		July 10, 1947. Harmon Field, Newfoundland, Canada (48.54° N, 58.56° W). Bet. 3 and 5 p.m. [or 5:30 p.m. (ADT)]. 3 ground crewmen, A. R. Leidy, J. N. Mehrman, and J. E. Woodruff, of Pan American Airways, briefly saw a translucent disc or silvery wheel-shaped object the size of a C-54 transport fly very fast at 10,000 ft, leaving a dark bluish-black trail, then ascend and cut a path through the clouds. (Sparks; Berliner; FOIA)		3	1	photo
37.		July 10, 1947. Near Ft. Sumner, New Mexico. 4:47 p.m. Dr. Lincoln LaPaz with wife and 2 teenage daughters were driving W on Hwy 60 when they saw a sharply outlined, white ellipsoidal seemingly luminous 200 ft object (±40 ft, major/minor axis ratio 2.45) wobbling in the distance to the W [probably 272° azimuth initially] about 25 miles away (±5 miles; distance from triangulation of the cloud bank by driving around it by about 90° over 50 miles along Hwy 84 and from weather data). Object stayed about 30 secs almost motionless at a low speed of about 150 mph (±30 mph) then disappeared behind a cloud at 273° azimuth elevation 1° but reappeared 5 secs later further to the right, or N, and higher at 275° azimuth 2° elevation, about 1 mile distance traveled thus an average speed of roughly 600-900 mph [peak velocity about 1,400 mph at about 13 g's], but no sound, no trail. Object continued to slowly drift N about 2 mins [in level flight] until disappearing in the cloud bank [at about 287° azimuth]. (Sparks; LIFE Incident 2; Hynek astronomer survey Aug. 1952; etc.)	2 1/2 mins	4	1/6	Lincoln LaPaz, world's leading investigator of aerial phenomena
38.		July 11, 1947. Elmendorf Air Base, Anchorage, Alaska (61.25° N, 149.80° W). AAF Colonel Perry (?) plus another witness Guyer, saw a round 3 ft aluminum object travel at great speed to the S. At 6:30 p.m. (AHST) [July 12?] AAF Major Graham saw a balloon-like grayish 10 ft object headed NW at 100 mph at 1,500 ft. [Same incident?] (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		3?	2/3 ??	
39.		July 29, 1947. Canyon Ferry, Montana (Helena? 46.6° N, 112.01° W). 12:05 p.m. Observer Madden saw hovering and fluttering, rising and descending thin 3 ft gleaming and shimmering object heading BE at 3,000 ft height at tremendous speed. (Sparks; McDonald list; Saunders/FUFOR Index)			1/10	
40.	69	July 29, 1947. Hamilton Field, Calif. (38.07° N, 122.51° W). 2:50 p.m. (PDT?). Assistant Base Operations Officer Capt. William H. Ryherd and ex-AAF B-29 pilot 1st Lt. Ward Stewart saw for unknown length of time two round, shiny, white objects with estimated 15-25 foot diameters, fly 3-4 times the apparent speed of a P-80, also in sight, (or at 750 mph), at 6,000-10,000 ft heading S or SE at		2	1/5 – 2/5	

		120°. One object flew straight and level; the other weaved from side-to-side like an escort fighter. (Sparks; Berliner; FOIA; Saunders/FUFOR Index)				
41.		Aug. 4, 1947. Between Bedford Radio Beacon and Everett, Mass. (42.36° N, 71.06° W) (or 10 miles NW of Boston). 4 p.m. While flying at 265 mph at 8,000 ft, heading 244° Magnetic, Pan Am airliner pilot A. C. Powell and navigator White saw 45° to the left [of their course?] a bright orange or deep-gold colored blunt cigarette-shaped (or elliptical) object the length of a P-40 fuselage [or 15? ft long 2-3 ft wide?] flying at 150 (or 175) mph at 7,800 [7,000?] ft to the S [E?] at about a course of 200° [110°?] magnetic. (Sparks; Sign Microfilm Roll 8, p. 348; Project 1947; McDonald list; FOIA; Saunders/FUFOR Index)	30 secs	2	1/5	
42.		Aug. 4, 1947. 10 miles NW of Bethel, Alaska (60°47' N, 161°50' W). 8:20 p.m. (Bering Standard Time). Pilot Capt. Jack Peck and copilot Vince Daly with Al Jones Flying Service flying a DC-3 saw a smooth surfaced "discus like" (or like rear view of C-54 without motors or lie a Flying Wing) black object as large or larger than a DC-3 with no visible means of propulsion silhouetted against the brilliant sunset sky [sun set at 8:17 PM BST at azimuth 309° in the NW], at about their altitude, which crossed their flight path at right angles at 500-1,000 ft height [or they could not determine its direction of flight and climbed to avoid collision and pulled in behind the object and then were able to see object was moving away from them]. They averted collision by climbing to 1,200 ft [from 1,000 ft ?], then turned in pursuit at IAS 170 mph but the object flew out of sight at 3x their speed maintaining the same altitude [off to the NW at about 500 mph]. (Sparks; Project Sign Microfilm Roll 1, pp. 599-608)	4 mins (5? mins)	2	10 ??	
43.		Aug. 13, 1947. 40 miles SW of Twin Falls [at Salmon Dam?], Idaho. 9:30 a.m. County Commissioner L. W. Hawkins and Mr. Brown while fishing saw 2 disc-shaped objects 6 ft diameter reflecting light and making the echo of a motor, at 4,000-6,000 ft flying at high speed. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		2	1/6 to 1/10 ?	
44.		Aug. 13, 1947. Snake River 6 miles W of Blue Lake Ranch, 9 miles NW of Twin Falls, Idaho. 1 p.m. A. C. Urie on land and 2 sons Billy and Keith 300 ft away in a boat, all on the S side of the river or river bank looking to the N, saw a squeezed or elongated straw-hat shaped sky-blue object about 10 x 10 x 20 feet, with pods on the side emitting red flames, about 1/2 mile away fly towards them down the canyon at 1,000 mph E-W at 75 ft height, with a contour following motion up and down over uneven terrain, trees swaying underneath with a circular motion, disappearing with a swish sound. Urie was about 300 ft from the object which was about level with him about 75 ft above the river, and silhouetted against the canyon wall 1,200 ft away, disappearing behind a hill about 1 mile away. Object was at about 45° elevation to the boys on the river below him, disappearing behind trees. (Sparks;	5 secs ?	3	8	triangulation

		Maxwell BB Microfilm Roll 3, pp. 73-84; NARA BB Microfilm Roll 2, pp. 198-208; BB PR Microfilm Roll 1, pp. 663-673; Sign Microfilm Roll 8, p. 349-351; Battelle Unknown No. 9; FOIA; Saunders/FUFOR Index)				
45.		Aug. 14, 1947. Harmon Field, Newfoundland, Canada. 10:40 a.m. 3 AAF airmen with the 147th AACS Sq saw 2 small crescent-shaped objects pass over them on a zigzag path at 2x jet speed [1,200 mph?] heading W at about 1,200 ft disappearing into clouds, a few secs later a same or similar object emerged from the clouds and continued to the W. (Sparks; FOIA)		3		
46.		Aug. 14, 1947. 5 miles S of Placerville, Calif. 4 p.m. Insurance adjuster Switzer saw a metallic highly-polished chromium surface object 4-6 ft wide 10-14 inches thick, rounded slightly on top larger in the front, leaving a white trail, at 500-1,000 ft height traveling at high speed. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)			2/5 - 1	
47.		Aug. 15, 1947. Weaver, Minn. 9:30 p.m. [?] Nocturnal light. (Sparks; Saunders/FUFOR Index)				
48.		Aug. 15-20 (approx.), 1947. Rapid City Air Base [Weaver?], South Dakota. Major Hammer sitting in the parking lot near the flight line shortly after dark saw to the NW about 12 elliptical objects about the span of a B-29 (140 ft) with a yellow-white luminous glow in a tight diamond formation, approaching in a shallow descent, level off at about 5,000 ft altitude [height?] at 300-400 mph, make a gentle 110° turn to its right about 4 miles away climbing to the SW, accelerating rapidly. No sound or trail. (Sparks; FOIA; Saunders/FUFOR Index)	1 min ??	1	3/4	
49.		Aug. 18, 1947. Near Mountain Home, Idaho. 12 p.m. United Airlines Flight 147 pilot and copilot saw 2 "skeet target" shaped objects flying under the plane. (Sparks; Project 1947)		2		
50.		Aug. 19, 1947. Twin Falls, Idaho (42.57° N, 114.46° W). 9:30 p.m. Housing Authority Executive Director Hedstrom saw 55 [?] [luminous?] objects in horizontal flight looking like electric lights headed NE at tremendous speed. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		1		
51.	83	Late Aug. 1947?. Alamogordo [Holloman] Army Air Field, New Mexico. AMC Watson Labs Project MOGUL engineer P. Rosmovski tracked a stationary target at 200 miles altitude using a modified CPS-4 height-finder radar aimed at 70° elevation. [Normally a CPS-4 requires a crew of 6 operators so there may have been other witnesses.] (Sign Microfilm Roll 2, pp. 363, 367-8; FOIA; Loren Gross Aug-Dec 1947 SUPP p. 28; Project 1947)		2+		radar
52.		Late Aug. 1947. Alamogordo [Holloman] Army Air Field, New Mexico. AMC Watson Labs Project MOGUL communications officer 1st Lt. Herbert G. Markley while watching 2 balloons with radar reflector to the SE in 10x binoculars saw traveling at "unprecedented rate of speed" a round white object in horizontal flight S to N several thousand feet over the tops of Sacramento Mtns. [Case	secs	1 [3?]		binoculars

		falsely explained by AF as “false radar targets” when no radar observation was involved. Possible additional witnesses AMC Watson Labs MOGUL Project Scientist Dr. James W. Peoples, and Joseph Olsen also of same project.] (Sparks; BB Microfilm Roll 2, pp. 931-3; Sign Microfilm Roll 2, pp. 366; FOIA; Mary Castner/CUFOS; Loren Gross Aug-Dec 1947 SUPP p. 28; July-Dec 1949 orig ed p. 25; Project 1947)				
53.	85	Sept. 3, 1947. Lake Oswego, Oregon. 12:15 p.m. (PDT). Housewife Mrs. Raymond Dupui saw 12-15 round, silver objects fly an unstated pattern for unknown length of time. (Sparks; Berliner; FOIA)		1		
54.		Sept. 8, 1947. Logan [Salt Lake City?], Utah (41.74° N, 111.84° W). 10:30 or 11 p.m. Anderson and Hall saw 5 groups of a total of 12 [?] white or yellowish objects traveling at high speed to the N at 2,000-3,000 ft height, faster than birds, size of pigeons [?] (Battelle/BBSR14 ?; Mary Castner/CUFOS; Saunders/FUFOR Index)		2		
55.		Sept. 12, 1947. Midway Island to Oahu, Hawaii, [about 90 miles] past Necker Island (23°34' N, 164°42' W). 6:58 p.m. (Bering Standard Time). Capt. Stanley S. Griffin, pilot, and 2nd Officer Edward B. Polhemus on Pan Am airline flight [military air flight?] heading east at 110° True at 9,000 ft and 205 knots (236 mph) saw a bright white light with no blue or red tinge about 60° to the right [2 o'clock position] about 5 miles away, first heading 350° (almost due N), approaching to 1 mile while increasing in apparent brightness still on the right side of the airliner. When pilot switched [or was about to switch?] from autopilot to manual the object “abruptly” changed course to 109° [paralleling course of airliner to within 1° ?] while maintaining altitude at 9,500-10,000 ft then split into 2 reddish objects about a “wing length” (100 ft?) apart then disappeared traveling at 1,000 knots (1,200 mph), burning out about 30 miles ahead of airliner. Possible meteor fireball. (Sparks; McDonald list; Project 1947; FOIA; BB Sign Microfilm Roll 1, pp. 611-7)	6 secs	2		
56.		Sept. 17, 1947. Ft. Richardson, Alaska (61°15' N, 149°41' W). [Army officer saw a 2-3 ft silver sphere traveling S at tremendous speed below the 10,000 ft cloud cover.] (Sparks; McDonald list; Mary Castner/CUFOS)				
57.	91	Oct. 1947. Dodgeville, Wisc. 11 [a.m.?]. Unnamed civilian man saw an undescribed object fly counterclockwise circles. (Sparks; Berliner)	1 hr	1		
58.		Oct. 8/9, 1947. Las Vegas, Nevada (36.17° N, 115.17° W). Daytime. [AAF reserve Capt. Moore saw an object traveling at 700 mph leave an almost white smoke/vapor trail and change direction from SE to W.] (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		1?		
59.		Oct. 12, 1947. Guadalupe, Mexico. 9:30 a.m. (CST). Numerous witnesses saw a cigar-shaped, blue and silver color fireball trailing blue flame heading E to W plunge to earth resembling an errant V-2 rocket and appearing to head for impact in the Zamalayuca Mtns. with a billow of smoke and loud explosion. Mexican Army reserve Capt.		many		

		Aranda saw the fireball from the Hernandez Torres filling station near Caseta and saw it disappear over the sandhills near Colonia Reforma. No meteorites or other remains found in saerches. (Sparks; Loren Gross, Jul-Dec 1947 p. 38; 1947 pp. 69-71; SUPP Aug-Dec 1947 pp. 44-45; Mary Castner/CUFOS; Saunders/FUFOR Index)				
60.	95	Oct. 14 [12?], 1947. 11 miles NNE of Cave Creek, Ariz. 12:11 p.m. (MDT). Ex-AAF fighter pilot J. L. Clark, civilian pilot Anderson and a third man saw 3-foot "flying wing," black against the white clouds and red against the blue sky, flying straight at an estimated 380 m.p.h., at 8,000-10,000 ft, from NW to SE. (Sparks; Berliner; Saunders/FUFOR Index)	45-60 secs	3	1/25	
61.		Oct. 20, 1947. Xenia, Ohio (39.69° N, 83.94° W). 11 a.m. Atkinson saw a round 1 ft object at 1,500 ft heading SW on a straight course. (Sparks; McDonald list; FOIA; Mary Castner/CUFOS)				
62.		Oct. 20, 1947. Dayton, Ohio (39.75° N, 84.18° W). 1:20 p.m. Farmer Britton saw 2 cigar-shaped objects reflecting brilliant sunlight traveling W to E on a straight course at high speed about 1 mile height in trail formation about a city block apart emitting a slight vapor trail, disappearing suddenly. (Sparks; McDonald list; FOIA; Mary Castner/CUFOS)				
63.		Nov. 2, 1947. Anderson Rd., Houston, Texas (29.76° N, 95.36° W). Daybreak. Immigration Service [agent?] Brimberry saw an almost round or oval or saucer-shaped object with bright light [?] about 100 ft [?] diameter spinning in its descent. (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		1?		
64.		Nov. 12, 1947. 40 miles N [S?] of Cape Blanco, Oregon, 20 miles off coast. Early morning. USS Ticonderoga USN 2nd Officer Williamson saw 2 balls of fire with a fiery trail headed NW at 700-900 mph. [Probable meteors.] (Sparks; McDonald list; FOIA; Saunders/FUFOR Index)		1?		
65.		Dec. 30, 1947. 1 mile W of Pilot Hill, Calif. (at 38°50' N, 121° 2' W). 7:25 p.m. (PST). Crew of McClellan Field C-47 saw a high speed low altitude object trailing red, green and other colored flames headed E over hills. At 7:58 the crew found a growing ground fire about 7 miles E of Pilot Hill, at 38°50' N, 120°53' W, another C-47 crew sent to investigate found a triangular fire area with 2 points emitting bright blue-green flames, going out at 9:55 p.m. (Sparks; FOIA)		multiple		
66.		Dec. 30, 1947. Sawtooth Nat. Forest, Idaho (at 42° 9.3' N, 114°22.2' W). 7:26 p.m. (PST). Pilot AAF Lt. Col. W. W. Jones, Hq EPW [Enemy Prisoners of War?], and copilot Major A. A. Andrae, flying a C-54 from Great Falls to Fairfield-Suisun Field at 13,000 ft saw a high speed object trailing green and blue flames descending vertically at their 2:30 o'clock position, but slowing just above the ground. (Sparks; FOIA)	2 secs	2		
67.		Jan. 7, 1948. Central and south-central Kentucky, near Ft. Knox and other sites. About 1-3:50 and 4:45-7:06 p.m.	2 hrs 50 mins + 2	50+	½ to ¼ to 1/10	theodolite +

	<p>(CST). Mantell case. At about 1:00 p.m., Kentucky State Police phoned USAF Godman Field Commanding Officer Col. Guy F. Hix's office reporting an unidentified object near Elizabethtown, Ky., (15 mi S of Godman). Another call to Godman's CO came from State Police at about 1:10 p.m. of observation by civilian in Madisonville (90 mi WSW of Godman) through Finch telescope of cone-shaped object, estimated 100 ft high by 43 ft wide, height 4 miles, speed 10 mph. This was apparently the Skyhook balloon Flight B, 70 x 30 ft, height 15 miles, speed 27 mph, heading 150° about SE, which passed about 40 miles to SW-SSW of Madisonville at 12-1 p.m. thus was within visibility range. Then still another call came from Lexington (80 mi E of Godman and far beyond visibility of the Skyhook balloon), the first of about 35 calls received by Hix's office. At 1:20 p.m. another report of [another UFO] a 250-300 ft unidentified "circular" object over Maysville [Maysville? 120 mi ENE of Godman?], Ky., moving W at "a pretty good clip" [300 mph??], sighted by State Police first radioed then phoned (at 1:30?) to Ft Knox Military Police and Godman Field CO Col. Hix. Between 1:20 and 2 p.m., Army Flight Service reported to Godman Army Air Field Control Tower, Ft. Knox, Ky., (37°54'23" N, 85°58'00" W, about 725 ft elevation) that the object was over Irvington (15 mi W of Godman) then Owensboro (60 mi W of Godman), Ky. [possibly 130 mi from Maysville to Irvington in 20-30 mins = 260-390 mph or roughly 300 mph]. Godman Tower operator Tech/Sgt Quentin A. Blackwell, Capt James F. Duesler, Jr., base air inspector Lt Col. E. Garrison Wood, and other USAF personnel sighted round white or silver or ice-cream cone-shaped UFO with revolving red streamer, to the S from base [apparently the same object hovering near Elizabethtown 15 mi S of Godman] beginning at 1:50 p.m., including many others such as Ops Ofcr Capt Cary W. Carter at 2:07 p.m.. onward and Col. Hix beginning about 2:10 p.m. Approaching flight of 4 F-51D fighters came from the SSE, led by Kentucky ANG pilot Capt Thomas F. Mantell, Jr., who was overheard by Godman Tower giving radio position report to their home base Standiford Field, Louisville, Ky., at 2:50 p.m. Godman broke in over the radio to request Mantell intercept and identify UFO at about 210° azimuth from Godman Tower (soon corrected to 205°), "slightly lower" than the sun [at about 14°] as reported by Mantell's wingman [thus about 10-12° elevation, altitude about 15,000 ft]. UFO maintained constant angular position including elevation angle as seen from Godman Tower as it apparently receded on azimuth heading 205°, during most of Mantell's pursuit, which required altitude of 50,000 to 60,000 ft to be reached at 60-70 miles distance at a recession velocity of about 240 mph, increasing to 300 mph when Mantell approached, but otherwise still maintaining constant position in the sky to Godman observers. Flying at 300 mph and gradually climbing to about 22,000 to 23,000 ft, Mantell overtook</p>	hrs 21 mins			binoculars
--	---	-------------	--	--	------------

		<p>the UFO from below, past Bowling Green about 70-75 miles from Godman, at about 3:10 p.m. when in one of Mantell's last radio reports to Godman Tower he described UFO as "metallic and tremendous in size." Mantell went into war emergency (combat) maximum climb rate [2,000 ft/min at altitude] to reach UFO nearly overhead, but lost control at about 25,000 ft from hypoxia [?] and began fatal spiral descent at about 3:11 p.m. Mantell was killed in his F-51D fighter, which crashed at about 3:18 p.m. about 4 miles SSW of Franklin, Ky., (at about 36°40.4' N, 86°35' N) about 92 miles S (more exactly 202° azimuth) from Godman Tower. UFO disappeared from view of Godman Tower behind a cloud in the distance [at about azimuth 205°] at 3:50 p.m. (CST). From about 4:45 to 7:06 p.m., USAF 1st Lt. Paul I. Orner, Commander, 733-5 Detachment, AACS 103rd Sq, tracked unidentified white light with red coloration (or red cone with green tail) by weather theodolite from Godman Field hangar at 234° azimuth 6° elevation just after sunset [sunset at 4:40 p.m. CST thus roughly at 4:45 p.m.]. Object then at 240° azimuth 8° elevation at 5:35 p.m., (numerous measurements omitted here), 253.0° azimuth 1.2° elevation at 7:02 p.m., and disappeared over the horizon at 250° azimuth 0° elevation at 7:06 p.m. (CST). Illuminated inverted cone-shaped object looked like a sunlit Skyhook balloon except it was nighttime and 2 hours after sunset even for balloons at 80,000 ft (Louisville amateur astronomer Latimer J. Wilson observed and timed disappearance into earth shadow of Skyhook balloon about 180 mi S of Godman at 5:12 p.m.). See later sightings at Lockbourne AFB and Clinton County AFB, Ohio (below). (Sparks; NICAP; BB files).</p>				
68.		<p>Jan. 7, 1948. Lockbourne AFB, Columbus, Ohio, and Clinton County Air Base, Wilmington, Ohio. 7:15 p.m. (EST). Lockbourne Tower operators, Air Traffic Controller and pilot Alex A. Boudreaux and VHF DF Operator and amateur astronomer Frank M. Eisele, 103rd AACS Sq, sighted an bright object to the SW of the airfield which appeared and disappeared intermittently. Fighter pilot USAF Capt. Charles E. McGee, Asst. Operations Ofcr., Lockbourne AFB, sighted the object on runway 23 landing approach when he was at about 1800 ft and the light seemed to be at about 3,000 ft to the SW about 4-5 miles away, later on the ground sighted it to the W about 6-7 miles away. USAF VHF Direction-Finding (DF) Operator and pilot Albert R. Pickering, Detachment 733, 103rd AACS Sq, Lockbourne AFB, was awakened by the sudden emergence of a lighted amber-color round or oval object about the size of a C-47 or larger [60+ ft] dropping out of the overcast bank 10,000 ft overhead. Lockbourne Control Tower at the same time radioed report of the object, which then maneuvered over to Commercial Point about 3-5 miles away to the WSW, then made 3 full 360° circles over one spot in 30-40 secs per turn diameter about 2 miles [about 600-700 mph at 7 g's centripetal acceleration] over the runway, at a speed of 500+ mph,</p>	40 mins	5+	1/3 to 5?	

		leaving a luminous amber-colored tail or exhaust about 5x its length. Then the UFO went to another location [?] and did more 360° turns estimated 2 mi turn diameter at 3-5 mi distance [roughly 30° diameter]. Disappeared into the overcast at one point for 1 min then reappeared. Just before departing UFO hovered or “appeared to touch down” on the grass extension past the end of the Lockbourne AFB runway for 10 secs then left at 120° (ESE) heading into the overcast. Also sighted by pilot of USAF 9944 a C-45 at 5,000 ft off right wing at 7:53 p.m. Some observations in the SW possibly planet Venus setting. (Sparks; APRO 1977; BB Sign Microfilm Roll 1, pp. 245-265; NICAP)				
69.		Jan. 9, 1948. Near Cartersville, Georgia (at 34°10' N, 84°49' W). 11:30 p.m. Eastern Airlines DC-3 airliner pilot? DuBose saw a blue circular flame pass the plane, turn, then blink [out?]. (Sparks; Project 1947; Saunders/FUFOR Index)				
70.		Jan. 10, 1948. Wildwood, New Jersey. 8 or 10 p.m. Knitting designer saw a "saucer" or "queer light" approach from the ocean then rise and fall slowly, departed at high speed. Previous sightings of the same or similar phenomenon Dec. 27, 1947, Jan. 3, 1948, "all" at 8 p.m. (Sparks; McDonald list; FOIA)		1		
71.		Jan. 11, 1948. Hartford, Conn. (41.77° N, 72.68° W). 4:30 p.m. Pilot USAF Capt. Helton and copilot Pargoe in transport plane saw fast moving disc with bluish center and red edges dive at 45° angle to the E. (Sparks; Project 1947; FOIA; Saunders/FUFOR Index)		2?		
72.		Feb. 1, 1948. Circleville, Ohio. 2 a.m. C. Bruce Stevenson saw a large 60 ft domed disc, with bright orange-amber glow from within, approach slowly to about 100-150 ft away and just above his tool barn and then continue to slowly move away. (Sparks; Project 1947)		1	60	
73.		March 1, 1948. Coast of Sweden. 9:30 a.m. Airline pilot and copilot saw a missile-like object flying at 20,000 ft passing along the coast with a bluish flare [exhaust? trail?]. (Sparks; Project 1947)		2		
74.		April 1, 1948. About 9 miles SE of Sorsogon, SE Luzon Island, Philippines (at 12°52' N, 124° 3' E). 9:55 a.m. USAF Lt. Meyers leading a flight of 4 P-47 fighters of the 67th Fighter Sq was flying S heading 180° at 1,500 ft altitude when he saw a half-moon shaped "flying wing" about 30 ft wide 20 ft long, with a barely perceptible dorsal fin, flying on a N heading 360° at about 1,000 ft about 3 miles to his E [evidently silhouetted against the surface 9 miles away at a depression angle of about 2°]. He immediately made a 270° left turn to identify the object when it made a 90° left turn [banking evidently] leveled out on a W heading 270° accelerating rapidly to disappearance in 5 secs, no trail [assuming 10x distance increase to reduce apparent size below visual resolution limit, and constant acceleration, terminal velocity would be about 11 miles per second or 39,000 mph at about 350 g's]. (Sparks; FOIA; Saunders/FUFOR Index)	5+ secs ? [10 mins?]	1	1/5	

75.	139	April 5, 1948. Holloman AFB, New Mexico (32.86° N, 106.10° W). 2 p.m. [?]. Geophysics Lab Section of AMC Watson Labs balloon observers Joseph Olsen, Johnson, Chance, saw 1 to 2 “irregularly rounded,” round, gray-white or golden objects, indistinct in outline like a “major’s insignia ... slightly concave on top,” one [?] estimated 100 ft size. Both were rising straight up then one veered to the right, dropped, made a large loop, went upward again, then disappeared “suddenly” not due to distance. The other object arced off to the W at “terrific” or “tremendous speed,” made 3 vertical loops or “violent maneuvers” then disappeared “suddenly” not due to “fading away in the distance.” (Sign Microfilm Roll 2, pp. 356-367; Berliner; cf. Ruppelt p. 71; Vallée?; Loren Gross Jan-July 1948 orig ed p. 25; Saunders/FUFOR Index)	30 secs	3	1/6	geophysics balloon observers
76.		April 8, 1948. Ashley, Ohio [Delaware?]. Paines. Night. (Sparks; McDonald list; Saunders/FUFOR Index)		6+		
77.		April 9, 1948. Holloman AFB?, Alamogordo, New Mexico. 2:06 p.m. (MST). (Sparks; Trakowski GRUDGE rpt)				
78.		April 9, 1948. Montgomery, Alabama (32.37° N, 86.31° W). 3:10 p.m. Lt. Col. Hughes, Air Tactical School instructor, Tyndall AFB, Panama City, Florida, while flying a P-51H fighter at 16,000 ft and just before completing a 180° left turn spotted a silver parachute-shaped 8 ft disc with a 5 ft long cable or shroud underneath suspending a silver canister or ball, at his 10 o'clock position (to the SE) off his left wing headed NW, about 300-500 ft away and 200-300 ft below him. He banked sharp left to try to follow the object, at 310 mph IAS, but it disappeared in 5 secs without dropping in altitude. (Sparks; FOIA; Saunders/FUFOR Index)	5+ secs ?	1	2	
79.		April 11, 1948. Alton, Illinois (38.90° N, 90.17° W). Afternoon. Siegmund. (Sparks; McDonald list; Saunders/FUFOR Index)				
80.		April 18, 1948. N Atlantic bet. Iceland and Greenland (at 62° N, 33° W). (Sparks; McDonald list)				radar
81.		April 18, 1948. 1 mile N of Fairbanks, Alaska (64°50' N, 147°50' W). 1:06 p.m. USAF member Johnson of 375th Recon Sq-Very Long Range, Ladd AFB, in the Chaechako Hotel saw a noiseless object with a flat discus shaped object 8 inches in size [at arm's length??] rapidly oscillating in flight at about 2,000-3,000 ft altitude about 1 mile away traveling NE to SW at about 250-300 mph visible only when the flat side was toward the observer reflecting high intensity sunlight (?). (Sparks; FOIA; Saunders/FUFOR Index)	few mins or 15 secs ?	1	1/15 ??	
82.		April 19, 1948. Greenville AFB, South Carolina (34.84° N, 82.39° W). 4:15 p.m. 1st Lt. Francis W. Hennin Jr. and 1st Lt. Robert G. Loomis, 5th Liaison Sq., Greenville AFB, heard jet fighter(s) and when looking for it saw a stationary white ellipse [sphere?] directly overhead [?] at about 15,000-20,000 ft [to the NE?], which looked like a weather balloon (but none had been launched), and after 1	2-3 mins	2	1/5	

		min it was joined by [or seen to be with?] an identical object also at 15,000+ ft which remained relatively stationary (about 1 min) then both suddenly accelerated to high speed climbing to the NNE (against the winds aloft from the N at 10,000 and 20,000 ft) in N-S trail formation disappearing in about 30 secs ["a few" secs? 1 min?], while the original object drifted N [?]. Size estimated at slightly smaller than a 42 ft AT-6 at the indicated altitude. (Sparks; FOIA; Saunders/FUFOR Index; BB Maxwell Microfilm Roll 3, pp. 916-930)				
83.		April 30, 1948. S of Anacostia NAS, Maryland. 10:15 a.m. Pilot USN Lt Cdr Marcus L. Lowe of USN Bruno aircraft flying S at 180° magnetic at 5,500 ft saw yellow or light-colored sphere 25-40 ft diameter on opposite course S to N at constant altitude at 100 mph about 1,000 ft below. (Sparks; Jan Aldrich; Project 1947; Saunders/FUFOR Index; AIR 203 Dec 10, 1948; NICAP)		1		
84.		May 5, 1948. Adapasari [or Adapazari], Turkey (40°45' N, 30°23' E). Rocket? (McDonald list; Saunders/FUFOR Index)				
85.		May 6, 1948. Near Wake Island, bet. Kwajalein and Hickam Field, Hawaii (19°18' N, 166°36' E ?). 9:05 a.m. USAF pilot Barnes of MATS plane saw a ball of fire explode like a shell. [Probable meteor bolide.] (Sparks; McDonald list; Project 1947; Saunders/FUFOR Index)		1?		
86.		May 7, 1948. Memphis, Tenn. (35.14° N, 90.03° W) Bray and Kaiser. (Sparks; McDonald list; Saunders/FUFOR Index)		2?		
87.		May 31, 1948. Wilmington, North Carolina (34.23° N, 77.94° W). 1:20 p.m. [?] Alspach and Colvin. (Sparks; McDonald list; Saunders/FUFOR Index)		2?		
88.		June 20, 1948. Scott AFB, Belleville, Illinois. Balloon? (McDonald list)				
89.		June 29, 1948. W Uniontown, Penna. 11 p.m. Mrs. Catherine MacDonald and Mrs. Margaret Hollar saw an oval luminous object "rolling" vertically on its edge in level (or climbing) flight at about 5,000 ft, below the clouds, with a short trail (about 1/2 length of object), in the SW moving SW to NE (to the S of witnesses?). 2 similar objects seen at 5-min intervals, the 2nd seeming transparent as lightning could be seen flashing behind it. Police were then called so 2nd/3rd objects were seen by police Sgt. Charles Schulz [Schuh?] and Mrs. MacDonald's daughter Catherine. Another neighbor woman and her daughter were brought out, when a 3rd object was seen, height estimated 6,000-9,000 ft (climbing?), same SW to NE path. (Sparks; FOIA; Saunders/FUFOR Index)	5-10 secs + ? + 6-7 secs	6		
90.		June 30, 1948. S Knoxville, Tenn. (35.98° N, 83.92° W) Whitehouse. (Sparks; McDonald list; Saunders/FUFOR Index)				
91.		June 30, 1948. Hecla, South Dakota. Pfitzenreuter. (Sparks; McDonald list; Saunders/FUFOR Index)				
92.		July 1, 1948. Rapid City AFB, South Dakota. Major Hammer sighted 12 oval-shaped discs, about 100 ft long,		1?		

		flying in excess of 500 mph, descending from 10,000 ft. Discs made 30°-40° climbing turn accelerating very rapidly out of sight. (Sparks; AIR 203 Dec 10, 1948; NICAP)				
93.		July 4, 1948. Dravosburg, Penna. Jannicky. (Sparks; McDonald list; Saunders/FUFOR Index)				
94.		July 8, 1948. McKeesport, Penna. Veway and Geltz. (Sparks; McDonald list; Saunders/FUFOR Index)				
95.		July 9, 1948. Fielding Lake, Wash. Caramia. (McDonald list; Saunders/FUFOR Index)				
96.		July 9, 1948. Osborn, Ohio. 9:47 p.m. AMC Technical Intelligence Division officer and pilot, Lt. C. W. G., of MCIAXO-4, saw to the N about 70° elevation a luminous yellowish-white object traveling E to W at estimated 3,000-4,000 ft about 500-600 mph, illuminated at regular intervals, first 1-2 secs, then dark 3 secs, lit 1-2 secs again, dark 3 secs, then lit 1-2 secs again disappearing to the W slightly above the horizon N of Patterson Field. No sound or trail. Moon 1/4 illuminated seen rising to the WSW (actually setting to the W at 272° azimuth 21° elevation 15% illuminated). (Sparks; FOIA; Saunders/FUFOR Index)	3-6 secs	1		
97.		July 17, 1948. 5 miles S of San Acacia Dam, New Mexico. 4:50 p.m. 2 Kirtland AFB Sgts. on a fishing trip with their families saw a group of 7 aluminum circular possibly spherical objects approach from the S at 20,000 ft pass overhead at 1,500 mph if the altitude was correct (5°/sec angular velocity), at first appearing like snub-nosed jet fighters of unknown type, shifting from V formation to L formation to circular formation to no regular formation, at which point a regular pulsating flashing light appeared in the group at 30° from zenith to the N, and at this oblique angle the objects did not appear circular. No noise or trail. (Sparks; FOIA; Saunders/FUFOR Index)	[10-30 secs?]	2		
98.		July 21, 1948. Van Nuys, Calif. (34.18° N, 118.45° W). (McDonald list; Saunders/FUFOR Index)		many		
99.		July 24, 1948. Altoona, Penna. Night. Griebel. Meteor? (McDonald list; Saunders/FUFOR Index)				
100.		July 24, 1948. 20 (25?) miles SW of Montgomery, Alabama (at 32.1° N, 86.7° W). 2:40-2:45 a.m. (EST). Chiles-Whitted case. Probable meteor fireball seen from North Carolina to Georgia to Alabama. (Sparks; Battelle Unknown No. 5; Loren Gross Jan-July 1948 pp. 34-48, 53-55, C-F; Supp. 1948 pp. 54-60)	5-10 secs	8+	16 ?	
101.		July 26, 1948. Chamblee (near Atlanta), Georgia. 8:45-9 p.m. 5-15 (?) students outdoors at Georgia Tech at Chamblee, including Mr. and Mrs. Harold Shaw, Robert Sebring, Mrs. Jeanne Hill, Mrs. Myrtle Renfroe, Mrs. John Gall, saw a green light with a silver tail about the size of a football [at arm's length??] in steady flight to [in?] the SE slowly descending as if for a landing [maintaining steady horizontal flight?], completely silent. At 9 p.m. Atlanta Naval Air Base tower observer Doyle L. Avery saw a blue-white object in horizontal level flight at high altitude in the NE heading SE in a few seconds then gain altitude,	few secs?	16-26+		

		then suddenly turn to the S, completely noiseless. Independent witnesses include City Editor of Atlanta <i>Chronicle</i> newspaper and 9 others. Possible meteor? (BB Maxwell Microfilm Roll 3, pp. 1201-4; FOIA; Saunders/FUFOR Index)				
102.		July 27, 1948. Albuquerque, New Mexico (35.1° N, 106.6° W). 8:35-8:45 a.m. Dr. Everton Conger, journalism instructor at Univ. of NM, sighted in the sky a round flat plate-like object like duraluminum metal highly polished and reflective. (Sparks; Hynek Astronomer Survey Aug. 6, 1952; BB NARA Microfilm Roll 86 p. 478, Maxwell Roll 1 p. 973)	10 mins	1		
103.	185	July 29, 1948. Indianapolis, Indiana (39.76° N, 86.15° W). 9:18 [9:55] a.m. James Toney and Robert Huggins, both employees of a rug cleaning firm in a truck headed W, saw a shiny propeller-shaped aluminum object, with 10-12 small cups protruding from either blade, 6-8 ft long, 1.5-2 (or 1-2) ft wide, above trees about 30 ft altitude to the NW about 300 ft away heading S about 170° approaching to about 100 ft at closest. Object glided across the road at 25-30 mph in a slight descent then made a 20° bank to the E, went down in a wooded area; witnesses stopped truck got out to look but object disappeared behind trees; later search found no traces. No sound or trail. (Sparks; Battelle Unknown No. 1; Vallée Magonia 65)	[15 secs]	2	8	
104.	190	July 31, 1948. S central Indianapolis, Indiana. 8:25 a.m. Mr. and Mrs. Vernon Swigert saw a cymbal-shaped or domed disc object or rounded coolie hat to the W, about 20 ft across, 6-8 ft thick, 3:1 ratio noted, white without any shine but shadowing on upper right (sun from the left or E), fly straight and level from horizon to horizon W to E heading 90°, first through window facing W then window facing S, altitude estimated at 2,000 ft covering distance of 5 miles (1,800 mph? distance 2 miles? elevation 10°?), shimmering in the sun as if spinning. No sound or trail. (Sparks; Battelle Unknown No. 8; FOIA; Saunders/FUFOR Index)	10 secs	2	1/5 ?	
105.	191	July 31, 1948. Near Marion, Virginia (36.81° N, 81.52° W). Shortly after sunset. Max Abbott, flying a Bellanca Cruisair four-passenger private airplane, saw a single bright white light [take off?] accelerate [to 300 mph?] and turn up a valley. (Sparks; Berliner; cf. Project 1947; Saunders/FUFOR Index)		1?		
106.		Aug. 2, 1948. Columbus, Ohio (39.98° N, 82.99° W). 7:45 p.m. [?] Saunders. (Sparks; McDonald list; Saunders/FUFOR Index)				
107.		Aug. 3, 1948. 25 km NW of Moscow, USSR (55°45' N, 37°42' E). 8 a.m. [?] Long metallic cylinder with no wings, no sound, at very high altitude flew at high speed to the NE. (Sparks; McDonald list; Saunders/FUFOR Index)				
108.		Aug. 4, 1948. North Powder, Oregon. Night? Meteor? (McDonald list; Saunders/FUFOR Index)				
109.		Aug. 11, 1948. Near Hamel, Minn. Bet. 12 and 12:15		2	30	

		p.m. (CDT). 2 Leuer boys playing outside saw a round, dull gray or silver object 2 ft diameter, 1 ft thick, like inverted plates approach from the NW drop down between the boys from a height of 12 ft and land 8 ft away from one of the boys like a balloon with a metallic clinking sound and a train whistle noise. It spun once, shot up 20 ft, made the whistle noise again, hovered, shot up to a height of 30 ft maneuvering to avoid phone lines and trees, flew away to the NE. CIC Special Agent Capt. Charles L. Victor, 113th CIC Det., found an area 2 ft in diameter where the ground showed signs of extreme pressure. (Sparks; Vallée Magonia 66; FOIA; Saunders/FUFOR Index)				
110.		Aug. 29, 1948. Maplewood, Ohio (40.377° N, 84.029° W). 5:03 a.m. Farmer Niswenger saw a large silvery sphere rise from a wooded area and hover above his farm, dropping a silvery substance that disintegrated before touching the ground. (Sparks; Vallée Magonia 67; Saunders/FUFOR Index)		1		
111.		Sept. 12, 1948. 8-12 miles SE of Pittsburgh, Penna. 3:20 p.m. USAF pilot and copilot flying C-45 transport saw a round white object moving at high speed on a SW heading. (Sparks; Project 1947)		2		
112.		Sept. 18, 1948. SE Shreveport, Louisiana (32.50° N, 93.76° W). 5:00 p.m. Draftsman at home using high-power binoculars to watch an L-6 aircraft at 10,000 ft altitude at 60° elevation to the SE traveling 100 mph, for Air Force Day, saw a bright white-aluminum half-spherical object traveling the opposite direction in level flight at about 20,000 ft altitude 2-1/2 miles away ground distance at 100-150 mph heading S, no trail, lost when he tried to view it without binoculars. Object appeared to be 1/3 size of the L-6 (35.5 ft) but 2x the distance, or about 24 ft. (Sparks; FOIA; Saunders/FUFOR Index)	10-15 secs	1	1/10 (0.5° ? equiv in binocs)	binoculars
113.		Sept. 22, 1948. Near Turner AFB, Albany, Georgia (31.57° N, 84.17° W). 3:30 p.m. (EST). USAF Lt. Martin G. Rubisch, Asst. Combat Ops Ofcr. at Eglin AFB, Flor., the copilot of a C-47 was flying from Eglin heading NE into Turner AFB at 2,000 ft when he saw a shiny metallic object about the size of a radio-controlled target drone, but with no wings or rudder, approaching from about 1,500-2,000 ft away about 35° to the left heading 335° (or 155°?) at about 250 mph at 1,500 ft altitude, no trail. (Sparks; FOIA; Saunders/FUFOR Index)		1	1 ?	
114.	208	Sept. 23, 1948. 4 miles E of San Pablo, 4.1 miles S of Pinole, Calif. Approx. 12:02-12:03 p.m. Retired U.S. Army Col. Horace S. Eakins and Sylvester Bentham saw a 2-engine bomber aircraft pass low overhead to the SE then saw far beyond and high above it, possibly 1 mile higher, a strange fast-flying irregularly shaped translucent white "amoeba" headed E, the size of a 4-engine bomber, with 3 appendages in front 2 trailing with a dark grey spot possibly spherical near the center which remained stable in motion, the arms of the "amoeba" undulating, the object wobbling, disappeared suddenly, no trail. [Another object sighted?: a buff or grey rectangle with vertical lines.]		2	2 ?	

		(Sparks; cf. FOIA; Saunders/FUFOR Index)				
115.		Sept. 23, 1948. Los Alamos {Santa Fe?}, New Mexico (35.68° N, 105.94° W ?). 9:40 a.m. Group of Los Alamos Scientific Lab personnel, Angier, Fairchild and others, waiting for an aircraft at the landing strip saw a sun-reflecting glint in the sky from a flat circular metallic object high in the N sky appearing like a flat dime on-edge slightly tipped as if 50 ft away. (Sparks; Case recounted in unpublished Ruppelt manuscript said to be included in the TOP SECRET AMC Estimate of the Situation, apparently a revised version of the Aug. 5, 1948, initial draft. Saunders/FUFOR Index.)		several	1/10	
116.		Sept. 23, 1948. Los Alamos, New Mexico. [AESS security guard Hanson ?? saw an oval orange luminous object, length/width ratio about 1.5:1, to the E crossing the sky in level flight from right to left, trailing flame, disappearing in a cloud bank to the NE.]		1?		
117.		Sept. 28 [18?], 1948. San Simeon, Calif. Patterson. (Sparks; McDonald list; Saunders/FUFOR Index)				
118.		Oct. 1, 1948. Fargo (46.88° N, 96.78° W) to 25 miles SE of Fargo, North Dakota. 9:00-9:27 p.m. (MST). Air National Guard fighter pilot Lt. George F. Gorman plus 4 others including 2 CAA tower controllers saw a small 6-8-inch round white ball of light with a flat, no-depth disc-like appearance, blinking off and on at slow speed. First spotted by pilot Dr. A. D. Cannon and passenger Einar Neilson aboard Piper Cub aircraft at 1600 ft AGL, N of Hector Field moving fast to the W above them at about 250-270 mph, spotted by Gorman shortly after. Gorman radioed tower and began pursuit at 9:07 p.m. Cannon and Neilson landed, went up into airport tower and with binoculars watched Lt. Gorman attempt to chase the light in his F-51 fighter, closest approach less than 500 ft distance on his first pass at about 5,000 ft. Gorman climbed to 14,000 ft but stalled out unable to intercept light at about 16,000 ft. Light made evasive and aggressive maneuvers, such as seeming to try to ram the F-51, that outperformed the F-51 at a top speed 600+ mph. Light dropped to 11,000 ft, Gorman attempted to dive on it, light pulled up, rose vertically until it disappeared. (Sparks)	27 mins	5	1/6 – 1/9 (0.06°-0.08°)	binoculars; oculist
119.		Oct. 11, 1948. Neubiberg AFB, Munich, West Germany. Swap and Ingelido. Balloon? (McDonald list; Saunders/FUFOR Index)				
120.		Oct. 13, 1948. South Bend, Indiana (41.68° N, 86.26° W). Brooke and Thompson. Debris? (McDonald list; Saunders/FUFOR Index)				
121.	218	Oct. 15, 1948. About 50 miles NW (at 330° from) Fukuoka, Japan (at 34°00' N, 130°00' E). 11:05 p.m. (intermittently to 1:30 a.m.?) USAF pilot 1st Lt. Oliver Hemphill Jr. and radar observer 2nd Lt. Barton Halter flying a P-61 "Black Widow" night fighter made 6 interceptions of the same or different objects tracked on airborne radar, only one seen visually (4th intercept). Dull or dark translucent object shaped like a dirigible with a flat	10 mins (total)	2		RV

		bottom and clipped tail end. Speed varied from 200 to about 1,200 mph. Pilot tried to close on visual object, but it dove away fast. Continued search to 1:30 a.m. unsuccessful at finding object again. (Sparks; BB Maxwell Microfilm Roll 4, pp. 363-401; FOIA; Jan Aldrich; Saunders/FUFOR Index)				
122.		Oct. 15, 1948. At 36°42' N, 74°40' W (about 50 miles E of Virginia coast in the Atlantic). 5:20-6:10 p.m. (EST). Ship's observer aboard SS Gulfport, named Keme [?], saw a bright nearly moon-shaped object with distinct bright center about 1/4 moon's angular size at 350° azimuth (nearly N) 40°18' elevation heading SE becoming darker with nightfall, at 5:30 p.m. at 358° azimuth 43°41' elevation, [passing near the North Celestial Pole by about 10°], at 5:54 at 50° azimuth (nearly NE) 57°5' elevation. (Sparks; FOIA; Saunders/FUFOR Index)		1	1/5	marine sextant
123.		Oct. 16, 1948. 1 mile S, 8 [5?] miles E of Sterling, Utah. 11:45 a.m. Airplane mechanic and used car dealer Mr. Nash on a hunting trip on a mountain at 9,000 ft MSL heard a fluttering, throbbing or purring noise and saw a flattened football or lozenge shaped black object with wide silver longitudinal stripe 9 x 6 x 3 inches, with blunted opening in the rear but no exhaust, pass < 500 ft overhead on a NNW path at 300 mph. (Sparks; FOIA; Saunders/FUFOR Index)	4+ secs	1	1-1/2 (0.8°)	
124.		Oct. 17, 1948. Crescent City, Calif. (41.75° N, 124.20° W). 8:10 a.m. (PST) [4:10 p.m. GMT?]. Blimp-like object much too fast and maneuverable for a blimp. [Siler, Haley and 2 other witnesses saw bright silvery oval object heading SE at 6,000+ ft altitude moving faster than an aircarft.] (Sparks; FOIA; Saunders/FUFOR Index)		4		
125.		Oct. 18, 1948. Pacific Heights, Oahu, Hawaii (21.31° N, 157.87° W). 5:05 p.m. (AHST). USAF rated pilot Major Robert C. Drum, wife and daughter, saw a round or elliptical bright silver object 10-15 ft in size [or 4-5 inches at arm's length??] about 10,000-14,000 ft altitude heading NE on a steady course horizontal to the ground about 200 mph, no trail or sound, no markings of any kind seen, observed intermittently for up to 10 secs at a time [due to cumulus clouds?]. (Sparks; FOIA; Saunders/FUFOR Index)	mins	3	1/10 ? 20 ?	
126.		Oct. 24, 1948. 10 miles SW of Junction City, Kansas. Huber. Aircraft? (McDonald list; Saunders/FUFOR Index)				
127.		Oct. 24, 1948. Phoenix, Ariz. (33.45° N, 112.05° W). Night. Peterson. Green point source moved slowly from W to E. Balloon? (BB NARA Microfilm Roll 91 p. 407; McDonald list; Saunders/FUFOR Index)	75 mins	1		
128.		Oct. 24, 1948. 4 miles SE of Moorhead, Minn. 5:45 p.m. Mr. Sanders and his wife while driving NW on Hwy 52 towards Moorhead and Fargo (46.88° N, 96.78° W) saw a brilliant golden-white round object suddenly appear as if a light switched on, about 3 miles away to the NE at 1,000 ft altitude in a gradual climb traveling at high speed, estimated 600-1,000 mph, heading W towards Moorhead,	5-7 mins ?	2	1/2	

		no trail or sound, about 1/2 full moon angular size [moon and sun both below the horizon]. When they reached the N of Moorhead the object, which was slightly to the left of directly ahead, suddenly made a right turn to the N then 1 sec later disappeared by suddenly switching off. (Sparks; FOIA; McDonald list; Saunders/FUFOR Index)				
129.		Oct. 29 [27?], 1948. Goose Bay AFB, Labrador, Canada (53.33° N, 60.41° W). On this date or succeeding dates Oct. 31, and Nov. 1, 1948, slow-moving unidentified targets were radar tracked at low altitude. On one date 2 targets were on a collision course S of base and were radioed a warning, the targets then veered off. High speed radar track on Nov. 1. (Sparks; McDonald list; Saunders/FUFOR Index; Ruppelt manuscript)				radar
130.		Oct. 30, 1948. About 15 (25?) miles WNW of Grays Harbor / Pacific Beach, Wash. (at 47°20-1/2' N, 124°42' W). 4:20?-4:30 p.m. (PST). While flying in an F-82 fighter headed N at 8,000 ft at 240 mph on a GCI intercept mission initially directed by the ADC radar site 634th Aircraft Control Sq., Neah Bay, Wash. (505th AC&W Group, Everett, Wash.) radar observer AF 2nd Lt. Robert L. Kunzman, 318th All Weather Fighter Sq, 325th Fighter Group, McChord AFB, Wash., saw as he headed toward an interception point a single compact group of yellow objects in the WNW at 10 o'clock position which burst into an in-line formation of about 10-20 or 25 white egg-shaped objects that crossed over in front of aircraft to 1 o'clock (in the NNE) heading W to E still in line formation at about 8,000 ft heading S and dropping back to 3 o'clock position in the E, which he first thought might be seagulls. Objects maintained same altitude and horizontal flight throughout. Objects then doubled back heading N paralleling the F-82's course while moving back up to 2:30 o'clock position at high speed, turning translucent part of the time just before disappearing by fading out or dissolving without going far enough to have vanished due to distance (some fog with visibility 5 miles may account for disappearance). [If at 5 miles objects covered 15° from 3 to 2:30 position in possibly 5-10 secs, time assumed not reported, then relative velocity was possibly 500-1,000 mph greater than F-82's 240 mph.] He called attention of the pilot Maj. Homer William Morris who missed seeing the objects. Ground radar lost object at this same time. AFOSI interviewed radar controllers at 635th AC&W Sq at Pacific Beach, who tracked "no unidentified objects at high rate of speed" (leaving unstated what about unidentifieds at moderate speed) but did not interview at 634th AC&W Sq at Neah Bay which did the tracking. (Sparks; McDonald list; BB Maxwell Microfilm Roll 4, pp. 630-657; Sign Roll, pp. 57-58; NARA Roll 88 pp. 144-149)	? (radar) + 20 secs (visual)	2+		RV
131.		Oct. 31, 1948. Goose Bay AFB, Labrador, Canada (53.33° N, 60.41° W). (Sparks; McDonald list; Saunders/FUFOR Index)				radar
132.		Oct. 31, 1948. Azores. USAF AFB? Balloon? (McDonald list; Saunders/FUFOR Index)				

133.		Nov. 1, 1948. Goose Bay AFB, Labrador, Canada (53.33° N, 60.41° W). High speed radar track. (Sparks; Ruppelt manuscript; Saunders/FUFOR Index)				radar
134.		Nov. 3/4, 1948. 10 miles E of Vaughn, New Mexico (34.61° N, 105.21° W). About 10 p.m. U.S. Army Col. Hayes. Bright white round light "larger than a basketball" descended slowly vertically until exploding 400-500 ft above ground. (Sparks; BB NARA Microfilm Roll 91 p. 407; McDonald list; Saunders/FUFOR Index)	secs?	1		
135.		Nov. 6, 1948. Wakkanai, Japan (45°26' N, 141°43' E). Radar track of 2 UFO's in dogfight. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
136.		Nov. 12, 1948. Clark AFB, Manila, Philippines. Bet. 1 and 2 p.m. Airman Wright with 18th Maint. Sq saw a white speck flying in the distance to the NE, then N, then fly into a cloud bank and emerge to the NNW, approaching closer so that he saw it was a very large 300 ft long 140 ft wingspan snow-white aircraft with low wings darting in and out of clouds much faster than any jet, about 20-30 miles away about 3-6 miles high, leaving an exhaust trail like skywriting and making loud aircraft noise. (Sparks; FOIA; Saunders/FUFOR Index)		1	1/5	
137.		Nov. 17, 1948. Peace River, Alberta, Canada (at 56°10' N, 117°30' W). 6:18 a.m. (PST). Pilot and radio [radar?] operator of military aircraft saw a bright orange flaming egg-shaped object flying on a SW heading. (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)		2		
138.		Nov. 18, 1948. Camp Springs, Maryland (38.81° N, 76.88° W ?). 9:45-10:03 p.m. USAF Lts. Jackson and Combs, 2 reserve pilots, aboard an Andrews AFB T-6 aircraft traveling 150 mph and 2 independent ground observers saw a highly maneuverable whitish-grey oval lighted object smaller than the T-6 cross over Andrews AFB from NE to SW and back again in a circular pattern from 4,000 ft dropping to 1,700 ft then climbing to 7,000 ft. T-6 followed object to identify it, made 3-4 passes at the object while climbing, dove on the object at 240 mph but it dropped down and came up behind the T-6 and continued circling the base. T-6 was able with difficulty to put object in front of city lights on the ground to try to make out details, and came within about 300-400 ft turned on landing light and object responded with a dull glow, then sped off to the NE at 8,000+ ft and 500-600 mph disappearing. Object's speed varied from 80 to 600 mph in multi-directional or omnidirectional flight, with vertical maneuverability, highly evasive with high acceleration. Another reserve pilot, a USAF 2nd Lt. in another aircraft over the NE corner of Andrews AFB at 1,000 ft saw the object directly overhead. A further independent witness, USAF Staff Sgt. John J. Kushner, observed object from the ground. (Sparks; FOIA; Ruppelt p. 46; Saunders/FUFOR Index)	18 mins	4	10	triangulation?
139.		Nov. 23, 1948. Furstenfeldbruck AFB, Munich, West Germany (48°10' N, 11°15' E). 10:20 p.m. USAF F-80 jet fighter pilot Capt. Slater, another jet pilot Capt., and a 1st Lt. of 23rd Fighter Sq from the ground saw a reddish star-		3		RV

		like object to the E moving S over Munich at 200-500 mph, turning slightly SW then SE. Slater called the Racecard DF Station equipped with radar which tracked an unidentified target at [900 mph] 27,000 ft and 30 miles S of Munich, rapidly climbing to 40,000 [50.000] ft at 40 miles S of Munich then circling around. (Sparks; FOIA; Saunders/FUFOR Index)				
140.		Nov. 23, 1948. 10 miles E of Vaughn, New Mexico (34.61° N, 105.21° W). About 10 p.m. U.S. Army Col. Hayes. Bright white round light "larger than a basketball" descended slowly vertically until exploding 400-500 ft above ground. (Sparks; BB NARA Microfilm Roll 91 p. 407; McDonald list; Saunders/FUFOR Index)	secs?	1		
141.		Nov. 26, 1948. Washington and Oregon. Young. (Sparks; McDonald list; Saunders/FUFOR Index)				
142.	257	Dec. 3, 1948. Fairfield-Suisun AFB, Calif. (38.25° N, 121.99° W). 8:15 p.m. USAF Sgt. control tower operator McFarland saw a round, white light fly with varying speed, bouncing motion, and finally a rapid erratic climb. (Sparks; Berliner; Saunders/FUFOR Index)	25 secs	1		
143.		Dec. 3, 1948. Dayton, Ohio (39.75° N, 84.18° W). S. R. [?] Hoffman. (Sparks; McDonald list; Saunders/FUFOR Index)				
144.		Dec. 5, 1948. ~5 mi SW of Las Vegas (35°36'N, 105°13'W), New Mexico. 9:05 p.m. (MST). AF Air Training Command, Randolph AFB, San Antonio, Tex., copilot Capt. William R. Goade, pilot Major Roger M. Carter, flying a C-47 from Lowry AFB, Denver, to Williams AFB, Chandler, Ariz., at 15,000 ft, on a 230° Mag heading [= 243° True] at 155-160 mph [158 mph IAS], true ground speed ~190 mph, saw a green fireball about 1-1/2 to 2 miles to their right with a parabolic path descent. 2nd green fireball sighting at 9:27 p.m. made from ~20 mi ENE of Albuquerque of bright green flare shooting up from ground level on E slopes of [South] Sandia Peak rising to ~500 ft height above ground, slope location at 35°07' or 09'N, 106°24'W [~5 miles E of Albuquerque]. (Sparks; FOIA; Saunders/FUFOR Index)	?? (1st) + 5-15 secs or 1-2 secs (2nd)	2 + 2	1	
145.		Dec. 5, 1948. NW of Las Vegas near Montezuma Mission (5 mi NW of Las Vegas? at ~35°39'N, ~105°16'W), New Mexico. 9:35 p.m. Pioneer Airlines Flight 63 pilot Capt. Ernest Van Lloyd and copilot James L. Smith, saw a pale green (later said to be white or whitish-orange) fireball with pale green trail coming headon slightly above their altitude, while flying W on 272° heading at 9,000 ft in a C-47 approaching Las Vegas from the E, attempted evasive action but object dropped close to ground level. (Sparks; BB NARA Microfilm Roll 91 p. 407; FOIA)	few secs	2	1 ?	
146.		Dec. 6, 1948. Albuquerque, New Mexico (35°03'N, 106°32'W). 10:55 p.m. AECS officer Joseph Toulouse driving W on D Street stopped at intersection with Main Street saw a green fireball almost directly overhead above Sandia Base nuclear weapons assembly site, slightly to the NW arching slightly downward, traveling from E to W, with a flaming tail. (Sparks; BB NARA Microfilm Roll	2-3 secs	1	1/3 or 2/5	

		91 p. 407; FOIA)				
147.		Dec. 8, 1948. About 22 miles E of Las Vegas, at 35°31' N, 104°51' W, New Mexico. 6:33 p.m. 2 AFOSI Special Agents, Capts. Melvin E. Neef and John J. Stahl, Jr. (Deputy Commander 17th Dist. AFOSI), returning from investigation of green fireballs in a Beech T-7, heading E at 90° and 190 mph at 11,500 ft altitude and 5,000 ft above ground, saw green fireball 30° to the left of their flight path, to the ENE at 60° azimuth, at an estimated 2,000 ft above their flight altitude of 13,500 ft., which shot past them maintaining almost level flight until the end to the WSW at 240° azimuth when it seemed to burn out and drop suddenly with reddish-orange glowing fragments which lasted less than 1 sec. Later aerial search of the ground site in daylight found nothing. (Sparks; BB NARA Microfilm Roll 91 p. 407; FOIA; Saunders/FUFOR Index)	2 secs	2		
148.		Dec. 8, 1948. Chanute AFB, Illinois. Night? Meteor? (McDonald list; Saunders/FUFOR Index)		many ?		
149.		Dec. 9, 1948. Near Pittsburgh, Penna. (40.44° N, 79.97° W). 3:20 p.m. (EST). USAF officers Mulling and Col. Brown flying in a C-45 saw round object to the N on converging course then at 250° then 270° in the W at 12,000-16,000 ft about 2 miles away traveling about 250 mph. Angular size about 2°. (Sparks; McDonald papers; Jan Aldrich; Saunders/FUFOR Index)	7 mins	2	4	
150.		Dec. 11, 1948. Hood River, Ore. 7:30 p.m. Blue and white flash of light. (Sparks; BB NARA Microfilm Roll 91 p. 410)				
151.		Dec. 12, 1948. Starvation Peak near Bernal, New Mexico (at 35°23' N, 105° 19' W). 9:02.0 p.m. ±0.5 min (MST). Dr. Lincoln LaPaz, USAF Capt. Charles L. Phillips, and CAP intelligence officer Lt. Allan B. Clark, returning from green fireball investigations while looking to the NW saw a green fireball at least stellar magnitude -4 traveling E to W low above the horizon about 3°-4° elevation in almost perfectly level flight until the last 0.1 to 0.2 sec when it slightly curved downward, disintegrating into 3-4 pieces, no sound. Based on independent witnesses, AESS Inspectors Jeffers and McGuigan at Los Alamos, LaPaz triangulated object's flight path at about 8-10 miles [6-7 miles] height along a 25-mile path from 35°50'N, 106°40'W, to 35°45'N, 107°05'W, speed 39,000 to 43,000 mph. (Sparks; BB NARA Microfilm Roll 88 pp. 740, 745; Roll 91 p. 410; FOIA)	2.1-2.3 secs	3	1/7 (0.08°)	Lincoln LaPaz; triangulation
152.		Dec. 17, 1948. N Ambridge, Penna. 1:30 a.m. 2 witnesses in the railyard, a train conductor Hildebrand and the yardmaster Werner [?], saw a formation of 8 white luminescent rotating spherical objects, like wheels revolving around hubs, approaching from the N high above horizon, 45° elevation, headed S, just before reaching overhead they made a controlled dive and a sharp 90° right turn to the W, with the topmost object leading the others, fading from view while still high above horizon. (Sparks; BB Microfilm Roll 88 pp. 367-372; FOIA; Saunders/FUFOR Index)	30 secs	2	1 (as a group?)	

153.		Dec. 20, 1948. W of Los Alamos, New Mexico (35.89° N, 106.31° W). 8:54 p.m. AESS Physical Security Inspectors Clifford E. Strang and George S. Skipper on jeep patrol on Route 4 north of Bandelier cut-off at Los Alamos South Gate, Station 390 (at 35°48'.9N, 106°18'.4W) sighted pale green or bluish-white round fireball descending from 20° elevation to horizon with a triangulated 7-8-mile W to E flight path on a 45° downward angle from a height of ~10 miles (at 35°56'N, 106°30'W) to ~2.3 miles (at 35°57'N, 106°23'W), calculated by LaPaz based on another independent observation at a different AESS site by Inspectors William D. Wilson and Buford G. Truett (at 35°55'N, 106°23.7'W). Disappeared behind mountain. (Sparks; BB NARA Microfilm Roll 88 p. 745; Roll 91 p. 410; FOIA; Saunders/FUFOR Index)	1-1/2 secs	4	1/4	triangulation
154.		Dec. 28, 1948. Los Alamos, New Mexico (35.89° N, 106.31° W). 4:31 a.m. White point source descended vertically from N to S to 6,000 ft [height above ground? elevation above MSL?] disappeared with green flash. (Sparks; BB NARA Microfilm Roll 91 p. 410)	1-1/2 secs	1		triangulation
155.		Dec. 30, 1948. Sweden. (Sparks; McDonald list)				
156.		Jan. 1, 1949. Jackson, Mississippi (32.30° N, 90.18° W). 5 p.m. Pilot D. [?] Rush flying private plane saw a 60 ft cigar-shaped object cross the sky in front of the plane to the SW, nearly colliding, at 500 mph. (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)		1		
157.	275	Jan. 4, 1949. Hickam Field, Hawaii (21.34° N, 157.95° W). 2 p.m. USAF pilot Capt. Paul R. Stoney, on ground at Pacific Command HQ, saw a flat white, elliptical object, with a matte top, blinking once per sec, about the size of a T-6 aircraft, circle at about 3,000 ft while oscillating to the right and left, then speed away to the NE in a climb. (Sparks; Jan Aldrich; Saunders/FUFOR Index)		1	1	
158.		Jan. 6, 1949. Los Alamos, New Mexico (35.89° N, 106.31° W). 3:10 a.m. Brilliant green light seen traveling horizontally E to W about 3° to 5° above horizontal (mountain line?) disappearing behind mountains. (Sparks; BB NARA Microfilm Roll 91 p. 410)	2 secs	1		
159.		Jan. 6, 1949. Kirtland AFB (Albuquerque), New Mexico. 5:30 p.m. Everitt and Willis. Bright white diamond shaped light in horizontal flight from SE to NW about 1500-2,000 ft height faster than a jet, about 2 ft in size [?]. [Meteor?] (Sparks; BB NARA Microfilm Roll 91 p. 410; McDonald list; Saunders/FUFOR Index)	secs?	2		
160.		Jan. 23, 1949. 4 miles S of Tillamook, Oregon (at 45°22'17" N, 123°48'12" W). 11:05 a.m. Burt Leckington and wife while driving S on Hwy 101, about 1/4 to 1/2 mile SE of Pleasant Valley, saw a shiny, silvery, round stationary object about 10-15 ft size glinting in the sun to the SE at about 35° elevation about 500 [or 2,000] ft height about 1/2 to 3/4 mile away. When he went inside his shop to get binoculars the object disappeared. No sound or trail. Witness Smith in Tillamook (at 45°26'4" N, 123°48'xx" W) saw for about 1 min the polished silver saucer-shaped object reflecting sunlight nearly overhead at	2.5-3 mins	3	2/5 + 1	triangulation

		45° elevation stationary at first about 1,000-2,000 ft altitude, angular size of full moon (0.5°), then moving NE at about 30-50 mph, for about 1 min. (Sparks; FOIA; Saunders/FUFOR Index)				
161.		Jan. 24, 1949. About 250 miles SW of Bermuda Island, Atlantic (at 29°30' N, 67°29' W). 12:00-2:10 a.m. (Z/GMT/UT) USAF pilot Capt. Marsden W. Mattatall and crew (copilot 1st Lt Frank J. Stockton, navigator Lt. Austin, S/Sgt Joseph D. Marx, S/Sgt Leonard G. Lerch, Sgt Sims) of RB-29 bomber no. 44-87750 in the 373rd Recon Sq (Very Long Range – Weather) based at Kindley AFB, Bermuda [on classified Atomic Detection System service] searching for lost BOAC Tudor IV airliner Star Ariel, at 1,500 ft heading 50° True (about NE) [at 200 mph] saw to the left (in the N) a red glow on the ocean 1 to 1-1/2 miles in size extending up to 2,500-3,000 (or 4,000-6,000) ft altitude with 2-4 white searchlight-like beams of light within the red glow. At 12:25 a.m. B-29 turned toward the light on heading 350° True and by 12:40 approached so close, estimated 100-150 ft [?] distance at 6,000 ft altitude at 31°24' N, 67° 8' W, that pilot made a sharp bank to avoid collision. B-29 crew unable to take nuclear fallout sample of air around red glow because in haste to take off on search mission they failed to bring filter paper. B-29 circled the red glow from all directions for 44 mins as the glow slowly moved to 31°25' N, 67° 14' W [at about 10 mph headed W], when they finally departed the area at 1:24 a.m. Red glow still visible on landing in Bermuda [at about 2:10 a.m.]. Crew took 15 (?) photos with K-20 camera set at 1/125th sec and f/4.5 aperture, but none were sensitive enough to show the red light. Later RB-29 (?) flight equipped with fallout filters visited the coordinates of the red glow at 11:00 a.m. but results of air sampling not known or reported. AMC Intell Dept Chief Col. William R. Clingerman ordered references to “filtering” deleted from sighting reports as the would “unnecessarily disclose classified Air Force operations.” (BB Maxwell Microfilm Roll 5 pp. 167-233; Project 1947; Saunders/FUFOR Index)	2 hrs 10 mins	6?	100	nuclear monitor flight
162.	284	Jan. 27, 1949. Cortez-Bradenton, Florida. 10:20 [10:15?] p.m. Capt. Sames [Sannes?], Acting Chief of the Aircraft Branch, Eglin AFB, and wife saw a cigar-shaped object as long as 2 Pullman cars, with 7 lighted square windows and throwing sparks 4 per sec, descend then climb with a bouncing motion at about 400 mph. (Sparks; Berliner; Saunders/FUFOR Index)	25 mins	2		
163.		Jan. 30, 1949. Near Amarillo (at 34°50' N, 102°5' W) to near Lamesa (at 32°48' N, 102°22' W), Texas. 5:54 p.m. (MST). Thousands of witnesses over several states saw spectacular green fireball, N-S trajectory [azimuth heading 186.7°] triangulated by Dr. Lincoln LaPaz as 12 mile altitude over Amarillo area descending slightly on nearly horizontal 143-mile [actually 141 miles] path to near Lamesa disappearing about 8 miles altitude, velocity estimated at 25,000 to 50,000 mph by triangulation and reenactment timings. From numerous AF witnesses at	10-20 secs	1,000' s	1/3	triangulation

		Walker AFB, Roswell, LaPaz measured with transit first appearance at 52° magnetic bearing, elevation 2.2°, disappearing at 87-1/2° magnetic (other witnesses continued the flight path further south). No noise except slight hissing, broke into pieces at the end, no fragments found despite extensive ground search. 100+ witnesses interviewed. Estimated 200 witnesses in El Paso, 10 in Ft. Worth, Texas, 200 in Roswell, 200 in Alamogordo, NM. [Projected radiant of origin along a 1.7° descent angle is at 14.0 hrs Right Ascension +56° Declination.] (Sparks; BB Maxwell Microfilm Roll 5, pp. 279-284, NARA Microfilm Roll 91 pp. 410-1; FOIA; Saunders/FUFOR Index)				
164.		Feb. 14, 1949. Ganado, New Mexico. 6:40 p.m. Brilliant white slightly green fireball first stationary then fell with slight curve to the W slightly above the horizon. (Sparks; BB NARA Microfilm Roll 91, p. 411)	secs?	2		
165.		Feb. 17, 1949. SE of Grants (at 35° 7' ±2' N, 107°47' ±2' W), Sandia Base, and near Albuquerque (at 35° 5' N, 106° 35' W), New Mexico. 5:57-6:06 p.m. Green Oil Co. truck driver Herman Wilcox, at Chief's Rancho stop on Hwy 66 SE of Grants, NM, saw oval luminous white light with faint trail of white smoke in the SW at about 225° azimuth moving S in vertical climb then leveled off, then a gradual ascent, disappearing suddenly after several secs, no clouds in the sky to obscure it. Univ. of NM Prof. of Civil Engineering Marvin May, an associate of Dr. Lincoln LaPaz in meteorite tracking, saw a brilliant white object in the W at 6° elevation at 5:57 p.m. for >6 mins total. Object was first round [1/3 Full Moon in size at this point apparently] then shifted to ellipse as it approached then appeared to be elongated like a bent pipe with corners, 1 Full Moon in length and 1/10 in width. Object made slight climbing turn to the N, shifted to peach color [yellow-orange?] as it made rapid sharp turning climb to the S at the end, disappearing in cloudless sky by diminishing in size and brightness. 100 Sandia Base guards including Officer of the Guard saw a yellow-orange cigar or yellow-red cigar-shaped object for 7 minutes from 5:59 to 6:06 p.m. (Sparks; BB Maxwell Microfilm Roll 5, pp. 546-557, NARA Microfilm Roll 88, p. 401, Roll 91, p. 412; FOIA; Saunders/FUFOR Index)	9 mins	100+	1	UNM Civil Engr Prof / meteorite tracker (LaPaz assoc.)
166.		Feb. 23, 1949. Sandberg Pass 40 miles S of Bakersfield, Calif. 10:30 p.m. USAF pilot of T-11 with 703rd Air Reserve Division saw a sausage-shaped object circle the plane at 10,000 ft in 360° and 180° turns. (Sparks; Project 1947; Saunders/FUFOR Index)	40 secs	1		
167.		Feb. 27, 1949. Los Alamos, New Mexico (35.89° N, 106.31° W). 7:05 p.m. Green-white fireball seen in horizontal flight parallel to earth from W to E, abruptly disappeared. (Sparks; BB NARA Microfilm Roll 91, p. 412; FOIA; Saunders/FUFOR Index)	2 secs	1		
168.		March 2, 1949. Los Alamos, New Mexico (35.89° N, 106.31° W). 12:10 a.m. Sewald saw high speed light in horizontal flight low in the sky N to S, disappearing behind trees. [Meteor?] (Sparks; BB NARA Microfilm Roll 91, p. 412; FOIA; Saunders/FUFOR Index)	2 secs	1		

169.		March 6, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 8:20 [9?] p.m. Army artillery observers with triangulation equipment, Sgt. Hubert Vickery and PFC John Ransom, on patrol at the AFSWP (Armed Forces Special Weapons Project) national nuclear weapons storage Site B saw a blue-white oblong object about 2 ft x 1 ft in size with a trail travel from 286° to 279° azimuth elevation 5°45' [6°45'?] height about 600 ft. No sound. Other sightings by Army patrols from 8:30 p.m. [8:45? 9?], 1:10, 1:15 to 2 a.m. (Sparks; BB NARA Microfilm Roll 91, p. 412, Maxwell Roll 5, p. 627; FOIA)	1 sec	2		
170.		March 6, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 8:45 p.m. Army artillery observation patrol saw a light-colored round object with trail about 10° long travel S to N from azimuth 189° elevation 21° to azimuth 210° elevation 6°31'. No sound. Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)	1 sec	1		
171.		March 6, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 9 [8:20?] p.m. Army artillery observation patrol saw a blue-white ball-like "fixed flash," size of basketball [?], in the NE at azimuth 40° elevation 59°. No sound or trail. Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)	1 sec	2		
172.		March 7, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 1:15 a.m. Army artillery observation patrol saw a brilliant blue-white flash of light like flash-bulb in the NE at azimuth 40° elevation 66°15'. No sound. [Meteor?] Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)	1 sec	1		
173.		March 7, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 1:30 a.m. Army artillery observation patrol saw a blue-white ball-like "fixed flash," size of basketball [?], in the NNE at azimuth 16° elevation 27°30'. No sound. [Meteor?] Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)	1 sec	1		
174.		March 7, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 1:30-2 a.m. Army artillery observation patrol saw a bluish-white ball-like flash of light like flash-bulb in the WSW at azimuth 250° elevation 26°. No sound. Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)	1 sec ?	2		
175.		March 7, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 1:45 a.m. Army artillery observation patrol saw an orange tear-drop shaped object, 2 x 1 ft in	2 secs	1		

		size [?], drop vertically to ground, in the ENE at azimuth 60°. No sound. [Meteor?] Other sightings by Army patrols (see above, below). (Sparks; BB NARA Microfilm Roll 91, p. 413, Maxwell Roll 5, p. 627; FOIA)				
176.		March 7, 1949. Window Rock, Ariz. 6:10 p.m. Sighting of round object fire red in the center shading to blue at edge, 3 ft in diameter [?], traveling estimated 200-300 mph, in the N at elevation 40°-45° disintegrating at the end. No sound. (Sparks; BB NARA Microfilm Roll 91, p. 414)	6-8 secs	1		
177.		March 8, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 1:03 [2?] a.m. Army artillery observation patrols in separate locations 1/2 mile apart sight different [?] lights, one pale white light with roundish haed and hazy smoke trail (streak? 900 ft height?) seen by Payne moving in an arc from 122° to 126° azimuth [southward?] from 58° to 54° elevation, the other, by Cpl. Luke Sims, was of a lemon-shaped red light with whitish nose and red trail in level flight about 15° above horizon crossing 60° of sky from 304° to 244° azimuth [WNW to WSW]. (Sparks; BB Maxwell Microfilm Roll 5, p. 627, Roll 91, p. 414; FOIA; Saunders/FUFOR Index)	5 secs ?	2		
178.		March 8, 1949. Los Alamos and Kirtland AFB, New Mexico. 6:35-6:36 p.m. Los Alamos AESS guards Patterson and Lang at guard stations 103 and 106 saw noiseless greenish-white light in the WSW heading SE, descending at 60° [45°] angle. Kirtland Control Tower saw same object to the NW descending vertically. (Sparks; BB Microfilm Roll 88, p. 373, Roll 91, p. 414; Saunders/FUFOR Index)	2-4 [1-2?] secs	3+		
179.		March 13, 1949. Albuquerque, New Mexico. 9:53 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)		1		
180.		March 14, 1949. Aircraft bet. Honolulu and Canton Island. bet. 9 and 9:16 a.m. (GMT). (Sparks; BB Microfilm Roll 91, pp. 414ff.)		1		
181.	319	March 17, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 7:52 [7:47?] p.m. Capt. Horace McCulloch, Asst. G-2 of the 2nd Armored Division at the nuclear weapons storage site, was preparing the test firing of flares in order to prove recent sightings were mistakes when he and his men themselves saw aerial phenomena, 7 separate sightings [first 3 were yellow lights then 1 red light] by trained artillery observers in different locations enabled rapid triangulation of large, green, red and white flare-like objects flying in generally straight lines. (Sparks; BB Maxwell Microfilm Roll 5, p. 627; FOIA)	1 hr ?	multi ple		real-time triangulation ns
182.		March 18, 1949. Fort Chimo, Quebec, Canada (46°50' N, 71°15' W). 7:50 p.m. (EST). USAF and RCAF personnel at Detachment Crystal-I, 1227th Air Base Sq, including USAF 1st Lt. and Warrant Officer JG, RCAF Flying Officer/Liaison Officer Brodribb, and a USAF civilian employee, saw a red light like an aircraft light to the S traveling W to E at high altitude estimated 10,000 ft and	2-5 mins	4+		

		200-250 mph silently with stops and starts and flickering, and a turn to the S at the end. (Sparks; FOIA)				
183.		March 27, 1949. Tucumcari (35°10' N, 103° 44' W), Montoya (35°6' N, 104°4' W), New Mexico. 6-6:30 p.m. Various witnesses, including police officer, postmaster (Montoya, N.M.), newspaper editor (<i>Tucumcari Daily News</i>), saw a contrail-like yellow-amber-orange object, length/width ratio 5:1, 1/6 moon's diameter, slowly moving from S (205° azimuth) to W (254° azimuth) at about 45°-60° elevation (75° at Montoya moving 180° to 260° azimuth), wiggling slightly, at first in a vertical orientation [?], dived steeply-leveled-climbed 2-3 times, reversed course once at top of a climb, a bright glitter of white light at a leveling off. No sound or trail. (Sparks; FOIA; BB Microfilm Roll 91, pp. 414ff.)	15-30 mins	5+	1/6	triangulation?
184.		March 29, 1949. Shemya AFB, Aleutian Islands, Alaska (52°45' N, 174° 5' W). 10:05 p.m. USAF crew of B-29 bomber saw a dull yellowish light flying at 2,400 ft. (Sparks; Project 1947)				
185.		March 31, 1949. E of Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 11:50 [9:50?] p.m. Army Lt. Frederick Davis on patrol saw a reddish white round ball of fire [size of basketball?] with a trail pass horizontally over the base airstrip [at height of 2,000 ft?], and noted interference on the field telephone afterward when he reported it. (Sparks; BB Maxwell Microfilm Roll 5, p. 628, Roll 91, pp. 414ff.; FOIA)	10-15 secs	1		EM
186.		April 3, 1949. 1 mile SE of Dillon, Montana. 11:55 [11:50?] a.m. Miller Construction Co. owner Gosta Miller, who was a commercial pilot / aviation engineer, plus 3 other witnesses – an employee, a trucking company owner and a gas station attendant (Lovell, Lessey, Greene) – saw an object like two inverted plates attached face-to-face, matte blue-grey or greenish-grey non-reflective bottom, bright aluminum top reflecting sunlight, 20 ft diameter (others estimated 15-25 ft), 4-5 ft thickness. Object seen over the N end of town at 3,000-5,000 ft height about 4 miles away moving in several directions rocking or rotating in semi-circles 6 times, move E descending rapidly to about 700-1,000 ft height, rock again a few times with upper side now visible reflecting sunlight, fly SW to 2 miles W of Dillon, rock again a few times, then rapidly flew over airport 12 miles NE of Dillon at 1,000 ft departing rapidly to the E disappearing over mountains. No sound or trail. Speed > 1,000 mph so great object seemed blurred. (Sparks; Berliner; cf. FOIA; Jan Aldrich)	several mins	4	1/5	aviation engineer
187.		April 4, 1949. Merced, Calif. 10:20 p.m. Major William Parrott, former Air Force pilot, saw a generally round object with curved bottom and dull coloring, giving off clicking sound until overhead. Parrott's dog reacted. (Sparks; Berliner)	35 secs	1		
188.		April 5, 1949. Los Alamos, New Mexico. 11 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	½-1 sec	1		

189.		April 6, 1949. Los Alamos, New Mexico. 12:05 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	3-5 sec	1		
190.		April 7, 1949. Los Alamos, New Mexico. 1-1:35 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	5-45 secs	2		
191.		April 6-7, 1949. Memphis, Tenn. (35° 8' N, 89°59' W). 12:01 [12:30?], 2, 3:30, 4 a.m. Housewife Mrs. Mike Love Stewart and Dorthy [Dorothy?] Hall (and Helen Howell?), a husband and son, saw 6-9 climbing, diving, whirling yellow or silvery oval objects which avoided 3-4 airplanes, traveling from SW to SE about 45° elevation about 1-2 miles away, 1/4 moon angular size. (Sparks; FOIA)	2-4 hrs	5+	1/4	
192.		April 7, 1949. March AFB, Riverside, Calif. (34.12° N, 117.29° W). Bet. 2:45 and 3:00 p.m. Air National Guard Lts. Reeser and Salter, pilots in a T-6 heading SE over March AFB's radio beacon at 7,000 ft, first saw about 1,000 ft below them for 4-5 secs a tumbling red and grey wingtip-tank-shaped object, smaller than a T-6, and then 4 white domed-disc parachute-shaped objects separated by about 1,000 ft each. They circled around and copilot saw the 4 white parachute shapes, no shroud lines, etc., and climbed to 9,000 ft for a better look but the objects disappeared to the E. (Sparks; FOIA; Saunders/FUFOR Index)		2		
193.		April 12, 1949. Albuquerque, New Mexico. 7:30 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	8 secs	1	1/8	
194.		April 15, 1949. El Paso, Texas. 4:30 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	15 mins	1		
195.		April 18, 1949. Flagstaff and Williams, Ariz. 1:48 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	1-2 secs	2		
196.		April 20 [21?], 1949. Ludington, Mich. Afternoon. Paul Timm and Pat O'Connell, high school students, saw a fast moving white "comet with a tail" cross the sky to the W disappearing over Lake Michigan. (Sparks; FOIA; Saunders/FUFOR Index)		2		
197.		April 22, 1949. Cliff, New Mexico. 9:05 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	2 mins	1		
198.	358	April 24, 1949. 3 miles N of Arrey, New Mexico (at 32°52.5' N, 107°19.5' W). 10:33 a.m. (MST). General Mills meteorologist and balloon expert Charles B. Moore and 4 Navy artillery fire-control crew on a balloon launch team (William Akers, Richard G. Davidson, Clifford E. Fitzsimmons, Moorman) saw a white, round ellipsoid, shadowed yellowish on one side, length/width ratio 2.5x, cross the sky from the S (azimuth 210° elevation 45° only reported by Moore; Akers first saw object while watching balloon at 175° azimuth 45° elevation; Fitzsimmons first saw it in the E; Davidson first saw it in the ESE at elevation about 35°). Object moved to the E at about 5°/sec angular velocity (per Moore) possibly representing peak angular velocity, or 2.5°/sec (per Akers), possibly representing roughly the average angular velocity since the latter is more consistent with total azimuth change (about 185° to 190° according to Moore; only roughly 100° to 150° per the crew) in the total duration of azimuthal	~50-80 secs	5	1/20 to 1/25 (0.02° to 0.03° or poss 0.4 to 0.6° equiv in theod)	theodolite

		<p>change (about 50 secs per Moore, about 50-80 secs per the crew). Object passed near the sun (127° azimuth 61° elevation at 10:33 AM), roughly followed by Moore attempting to view it through ML-47 David White theodolite (21x telescope with 2° field of view, and/or 4x wide-angle 10° viewfinder) after it came out of the sun, but because of its speed Davidson had to visually point the theodolite through the naked-eye open sight while Moore tried to catch it in the telescopic view (previously Davidson viewed through the theodolite tracking the slow-moving balloon and was told by Moore to train it on the UFO). Davidson stated that Moore could only get the object within the telescopic view of the theodolite for about 1 sec when about NE “and could never get on it again” (Akers agreed that it was caught by Moore in theodolite only a “fraction of a second” because of its speed). Object seemed to turn to the N, until reaching and maintaining a constant azimuth at about 20°-25° (5° per Davidson’s diagram) when it suddenly climbed from 25° to 29° elevation in 10 secs (exact numbers only reported by Moore; Davidson said it was lost at about 35°), diminishing “rapidly” in apparent size (possibly by factor of about 3.5x), and disappeared by distance (per Moore) or dust obscuration (per Akers and Davidson; Moore claimed “no dust”). Distance unknown; by assuming 70 miles (67-72 mi increasing to 250 mi at end), horizontal velocity as object allegedly circled the site (per Moore only) is then 7 mi/sec or 25,000 mph (earth escape velocity not orbital velocity 5 mi/sec) but this is pure assumption (at 7 miles slant range the speed would only have been about 2500 mph, etc.). At Akers’ slower <i>average</i> angular velocity of 2.5°/sec the linear speed at the assumed 70 miles distance would be about 12,500 mph (or 1250 mph at 7 miles). Object size at the larger assumed distance would be about 100 ft, or at the smaller distance about 10 ft. If disappearance was due to a distance increase of a factor 3.5x, using the smaller distance (7 miles) speed might have reached peak of about 13,000 mph at the end, accelerating at about 50 g’s, to a terminal altitude of about 14 miles (70,000 ft). Projected target radiant at 5° ascent angle, assuming disappearance by distance, at 20° azimuth is approximately 9 hrs Right Ascension +55° Declination. Possibility of escaping, tangential grazing meteor fireball that skipped back into space requires discarding some sighting details including theodolite measurements, size, shape, reported curving or circling trajectory, and manner of disappearance. Possible meteor scenario postulates closest ground distance ~35 mi at path midpoint ~100° azimuth (nearly due E), altitude ~30 mi, disappearance at ~130 mi distance at azimuth 20° to 25° (about NNE), altitude ~70 to ~90 mi depending on the angular elevation figure used (25° to 35°), but total azimuth-change duration must be reduced to less than ~40 secs in order to conform to >7 mi/sec escape velocity along ~260 mi path length (an additional 10 secs while the UFO stayed on the same terminal azimuth but zoomed</p>				
--	--	--	--	--	--	--

		upwards vertically). (Sparks; BB Maxwell Microfilm Roll 5, pp. 1451-1499; BB Misc [Strentz] Microfilm Roll 1, pp. 681-748; BB AFOSI Microfilm Roll 88, pp. 630-4, 703-708, Roll 89, pp. 319-320, Roll 90, pp. 997-1004)				
199.		April 25, 1949. Springer Lake, New Mexico. 6:50 [6:30-7:30] a.m. Mr. Abreu saw silvery white spherical objects like Christmas ornaments fly over the lake at high speed, reappearing repeatedly with a high-pitched whistling sound a few secs each time. (Sparks; FOIA; Saunders/FUFOR Index)	4 x 5 secs	2		
200.		April 27, 1949. SE of Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 9:20 p.m. 2 Army soldiers [Pillett and Belisandro?] on patrol saw a blinking violet object 1-1/2 inches in diameter 10-12 ft away and about 6-7 ft above ground in motion, passing through branches of a tree before disappearing. At 9:25 [9:35?] p.m., 2 miles away 4 Army men sighted a 4-inch bright light, with a 2-4-inch metallic cone trailing in the back, 600 ft away 6-7 ft above ground silently approaching from the NE in level flight at 60-70 mph, disappearing suddenly in the SW at 150 ft away. At 9:37 p.m. the same witnesses saw a 2-inch white light appear 100 ft away to the NNE flying in a zigzag in level flight about 6 ft above ground, disappearing suddenly. At 9:39 p.m. the same witnesses saw a 3rd light in the WSW. (Sparks; BB Maxwell Microfilm Roll 5, p. 628; FOIA; Saunders/FUFOR Index; Jan Aldrich)	1 min + ? + 30 secs	2 + 4	1.2 – 1.4 + 1/5 + ? (0.6°- 0.7° + 0.1° + ?)	
201.		April 28, 1949. Homer, Mich. 9:15 a.m. William Sackett and William Gibson pursued 6 flying discs 10 inches diameter by car along Hwy 60 for 5 miles as they flew at low altitude in "wide circles" paralleling the road. (Sparks; FOIA)	5 mins ?	2		
202.	361	April 28, 1949. Tucson, Ariz. (32.23° N, 110.96° W). 5:45 p.m. Howard Hann [Hamm?], Mr. Hubert [Huber?] and Tex Keahey saw a a very large bright, sausage-shaped object, with no fins, wings or protuberances, roll and fly fast. (Sparks; BB Microfilm Roll 91, pp. 414ff.; FOIA; Saunders/FUFOR Index)	12-40 mins	3 + ?		
203.		April 28, 1949. SE of Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 8:30-10 p.m. Several Army security patrols sighted a variety of strange lights, mostly slow-moving changing color from white to red to green, one with a red blinking light, one with a "cone-shaped affair" trailing in the rear similar to one seen the day before. (Sparks; FOIA)		12		
204.		April 30, 1949. Albuquerque, New Mexico. 10:15 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	2 secs	1		
205.		May 2, 1949. Elko, Nevada. 11:40 a.m. CAA radio operator Mr. Small using field glasses saw 3 flying discs 30 ft diameter at 14,000 ft moving (heading?) SW at 300-400 mph make a left turn and depart ahead of a United airliner taking off from Elko airport. (Sparks; FOIA; Saunders/FUFOR Index)	3-4 mins	1	1/10 ? (0.4°? equiv in binocs)	binoculars
206.		May 3, 1949. Los Alamos, New Mexico. 9:26, 9:43,	2-10 secs	3		

		10:05 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)				
207.		May 3, 1949. Sidney, Ohio. 9:00 a.m. Store owner Wilford and Sprague saw bright shiny disc high overhead at about 85° elevation heading NE wavering, climbing and descending slightly on a straight path. (Sparks; FOIA; Saunders/FUFOR Index)	2 mins	2	20 ?	
208.		May 4, 1949. 4-1/2 miles W of Maplewood, Ohio (40.377° N, 84.029° W). 6:30 p.m. Ms. Wical saw bright silver flat circular object to the SE traveling NE with sun glaring off the surface, spinning at high altitude, no sound or trail. (Sparks; FOIA; Saunders/FUFOR Index)	<2 mins	1	30 ?	
209.	376	May 5, 1949. Ft. Bliss, Texas. 11:40 a.m. Army officers Maj. Day [May?], Maj. Olhausen, Capt. Vaughn saw 2 oblong white discs, flying at about 200-250 mph, make a shallow turn. (Sparks; Berliner)	30-50 secs	3		
210.		May 6, 1949. Sidney, Ohio. 8:30 a.m. Stump, Herman and Quinn saw a bright object about 1/2 mile to the W moving S at high speed, no trail or sound, one saying it was too bright to see the shape the other saying it had a flat circular shape. (Sparks; FOIA; Saunders/FUFOR Index; Jan Aldrich)	2 mins	3	20 ?	
211.	379	May 6, 1949. Livermore, Calif. (37.69° N, 121.76° W). 9:35 a.m. C. G. Green saw 2 shiny, disc-like objects rotate around each other and bank, then one shot upwards with a grey trail and rejoined the other. (Sparks; Berliner)	5 mins	1		
212.		May 6, 1949. Los Alamos, New Mexico. 1:05 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	<1 sec	1	1/8	
213.		May 6, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 8:40-9:30 p.m. UFO observation network using Army artillery observers (Lt. Mardell E. Ward?), established 2 days earlier, tracks its first object. (Sparks; BB Maxwell Microfilm Roll 5, p. 628, Roll 91, pp. 414ff.; FOIA; Jan Aldrich)	50 mins ?	2+	4-6 ?	real-time triangulation ?
214.		May 7, 1949. S St. Louis, Missouri (38.63° N, 90.21° W). 7 p.m. (CST). Just after sunset Vaughn saw the sun glinting off a flat reddish-brown object, "somewhat triangular" shaped, oscillating, the size of a private plane but faster. (Sparks; FOIA; Saunders/FUFOR Index)		1		
215.		May 7, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 7:40 p.m. Lt. Mardell E. Ward, at the Plotting Center (command post) of the Army's UFO observation and triangulation network established May 4 after a series of unexplained UFO incidents over the previous 2 months, and an artillery observer at another network observation site, spotted a brilliant white diamond-shaped object at triangulated location 15,000 ft away at 1,000 ft altitude headed NW. Object was tracked for 57 seconds as it traveled 20 miles (at 1,300 mph) while changing color from white to reddish to greenish as it dropped altitude and dimmed then disappeared. [Angular size 3 mils translates to actual size about 45 ft. Battery Commander scope used, 25x-40x.] No sound. [Another sighting 8:25-9:05 p.m.] (Sparks; FOIA; Jan Aldrich;	57 secs + 40 mins	2+ + 4	1/3	real-time triangulation, scope

		Loren Gross Jan-Jun 1949 Supp p. 79, erroneously put at Los Alamos; BB Maxwell Microfilm Roll 5, p. 628)				
216.		May 8, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3' 53" N, 97° 49' 40" W). 10:08-10:17 [8:08-17?] p.m. Lt. Mardell E. Ward, at the Army's UFO observation post, and 2 other posts sighted brilliant diamond-shaped object to the W moving NW or NE at 1,600 ft altitude slowly dropping. Severe radio interference during sighting, none afterward. (Sparks; FOIA; Jan Aldrich; Loren Gross Jan-Jun 1949 Supp p. 80, erroneously put at Los Alamos; BB Maxwell Microfilm Roll 5, p. 628)	9 mins	3+	1/4	real-time triangulation
217.		May 8, 1949. Tucson, Ariz. (32.23° N, 110.96° W). 9:30-11 a.m. MSgt. Troy Putnam [?] plus 3 other witnesses saw round, flat silvery object, about 40-75 ft diameter, in the W flying faster than a jet, in horizontal flight at 4,000 ft, make 90° turn to the N, then rapid climb at 45° angle until out of sight. (BB Microfilm Roll 91, pp. 414ff.)	10-20 mins	4		
218.		May 9, 1949. Tucson, Ariz. (32.23° N, 110.96° W). About 2:30 p.m. MSgt. Troy Putnam saw two round, flat silvery objects, about 25 ft diameter, flying 750-1,000 mph in a banking but steady manner, from SW to NE, which faded from view. (Saunders/FUFOR Index; Randle)	6-10 secs	1		
219.		May 9, 1949. White Sands Proving Ground. WSPG Naval Unit Commander, Cdr. Robert L. McLaughlin, with several other officers, witnessed UFO near a WAC-B rocket just launched. (McLaughlin ltr to Van Allen, May 12, 1949)				
220.		May 12, 1949. Holloman AFB, New Mexico (at 32° 50' N, 106° 4' W, elev. 4,070 ft). 9:30 p.m. (MST). AF contract solar astronomer, Donald H. Menzel, of Harvard Observatory, was being driven by military car from Holloman AFB, on Hwy 70 just outside the base, en route to Alamogordo [headed ENE on road azimuth 66°], when shortly after leaving the base he saw a bright reddish star Antares about 6°-8° East [to the lower left] of the nearly Full Moon estimated to be 15°-18° above the ridge line [99.3% illuminated Moon at about 19° elevation 136° azimuth, Antares at about 11° elevation 132° azimuth] rising above the Sacramento Mountain ridge. Shortly afterward he noticed first one small round white light low about 3°-4° over the ridge to the lower left of the Moon and star and then another identical light to the right of the first and in horizontal line, about 3° apart [at roughly 122° to 125° azimuth, 5°-6° elevation, seemingly over Moore Ridge, summit 7,264 ft, 32° 42' 22" N, 105° 51' 11" W, 15 miles away]. Each light was white possibly slight greenish tinge, about 0 to 1st stellar magnitude, the left one slightly brighter, both increasing in brightness as if possibly rising above a haze layer, both initially "fuzzy" but apparently sharpening in edge contrast. Each light suddenly disappeared one after the other before the car could be stopped. Menzel estimated that as the car traveled 50 mph it created a 3-mile baseline over which he nevertheless noticed no perceptible change in the lights' azimuths, or perhaps no more than 1° to 2°, hence a distance he	4 mins	1	1/4	astronomer Donald Menzel

		calculated at 180 miles and object "diameter" about "3/4 mile" (4,000 ft) [correct figure 2,300 ft]. (Sparks; BB NARA Microfilm Roll 88, pp. 904, 920-1; Roll 91, pp. 424-5; Maxwell Roll 6, pp. 241-9)				
221.		May 16, 1949. Tucson, Arizona. About 5 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	8-10 secs	1		
222.		May 21, 1949. Hanford AEC plant, Wash. 1:30 p.m. Hanford ADC radar detachment of 637th ACW Sq detected a stationary object over the East 200 area about 4 mi E of the Hanford Plant, which took off on a SE heading faster than a jet, reported it to the 637th ACW Sq, 505th AC&W Group, Moses Lake AFB, Wash. AF radar crew at 637th ACW (Spokane?) unable to detect object on radar but sighted round white or silver object by telescope (or telescope sighted by Hanford meteorologist Max Segoinns? who estimated altitude at 17,000-20,000 ft), which was heading NE faster than a jet at about 10,000 to 15,000 ft. At 2:20 p.m., USAF F-82 fighter, pilot Gardner, was airborne from Moses Lake AFB, Wash. (47.13° N, 119.29° W), to intercept Track 81 in the ESE from the 637th (Spokane? or Hanford?) detected on radar but target faded from radar scope about 5 mins after F-82 was airborne. (Sparks; BB Maxwell Microfilm Roll 6, pp. 475-9; Hynek UFO Rpt pp. 141-2; Saunders/FUFOR Index; Jan Aldrich; Loren Gross; 505th ACW Group AF History; Todd Lemire)	?	3?		RV, telescope
223.		May 23, 1949. Moses Lake AFB, Wash. 8:45 a.m. (PST). Three USAF pilots, Lt. Col. Walter C. Hearne, Lt. Col. Wallace R. Jordan, and 1st Lt. Gerald B. Blish, sighted from the ground at 325th Fighter Wing, Moses Lake AFB, a small [pinpoint-like] bright silver light traveling at high speed straight and level heading about 15° - 20° course about 5-10 miles away at about 10,000 to 15,000 ft altitude. (Sparks; BB Maxwell Microfilm Roll 6, pp. 565-9)	1 to 1-1/2 mins	3	point?	
224.		May 24, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 12:30 a.m. Round pale-yellow slow-moving light about 6,000 to 9,000 ft away smaller than Full Moon, slightly above horizon. Tracked by Army UFO observation network at Site B nuclear weapons storage stockpile? (BB Maxwell Microfilm Roll 5, p. 630)	60 secs		<1	
225.		May 24, 1949. Rogue River 1-1/2 miles E of Gold Beach, Oregon (at 42°25' N, 124°24' W). 5:00 p.m. (PST). NACA Ames Research Lab employees Don Heaphy and Gilbert Rivera, with Roy McBeth and wives Mrs. Rivera, Mrs. Oliver Elizabeth McBeth and Madlyne [Amlyne?] MacBeth [?], saw in the E at azimuth 60° a hamburger-shaped metallic disc about 25-35 ft to 100 ft wide with a tail fin and "dirty" surface, rough wrinkled surface in the rear, at about 5,000 ft altitude about 1-4 miles away traveling at about C-47 speed (200 mph?) which accelerated to jet speed (600 mph?) to the S, azimuth 170°. Observed with 8x binoculars. (Sparks; Maxwell BB Microfilm Roll 5 pp. 863-879, 890-3; Battelle Unknown 10; Bruce Maccabee; FOIA; Saunders/FUFOR Index;	90 secs-3 mins	5	1/5 - 2	binoculars

		Jan Aldrich)				
226.		May 24, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 7:46 p.m. Security agent [Army CIC?] sighted brilliant stationary incandescent round light [low on the horizon?] then sighted the same about 2 secs later but ½ the apparent size. (Sparks; BB Maxwell Microfilm Roll 5, p. 630)	1 sec	1?	2? + 1?	
227.	404	May 27, 1949. Near Hart Mtn., south-central Oregon (at 42° 27' N, 120° W). 2:25 p.m. (PST). Oil company vice-president, USNR pilot, former AAF flight instructor, Joseph C. Shell, flew his lightened-load SNJ Navy aircraft from Red Bluff, Calif, to Burns, Oregon, heading NNE at 212 mph ground speed at 9,000 ft above MSL (about 4,000 to 5,000 ft above ground level), saw to his right (about NE) something metallic in the distance [about 20 miles away] at about 42° 38' N, 119° 43'W, which as he approached resolved into 5-8, most likely 6-7, oval or egg-shaped metallic objects, 2:1 length/width ratio, and 1/5 as thick, each the same size less than 20 ft in diameter, fly in trail formation, with an interval equal to 3-4x their length between the lead object and the 2nd object, and only ½ to 2/3 object length spacing between the 2nd and all remaining objects, which separation remained constant almost as if being towed by the lead object. He saw the objects "outlined" against the bluffs of Hart Mtn, and could see the dark ground between each object, and noticed they had slightly changed course from "quartering" path to a path parallel to his course in the opposite direction (heading SSW) at about 230 ±30-40 mph while following the rim of the bluffs (which rim was about 7,000 ft MSL), appeared to be about 1,000 to 1,500 ft below his altitude about 5-1/2 to 7-1/2 miles away at closest approach (to his ESE), but less than the 10-mile distance to the bluffs. Near end of sighting Shell dropped in altitude and then could see the objects at his flight level, at his estimated position 42° 41' N, 119° 49' W, hence his estimate of objects' altitude as about 1,000-1,500 ft below his original 9,000 ft MSL. Objects disappeared on the horizon out of visual range, at estimated position 42° 28' N, 119° 48' W. Visibility being >60 miles. (Sparks; Berliner; Jan Aldrich; Footnote.com images 6313041 ff.)	5 mins	1	1/30 ?	
228.		May 31, 1949. Misawa AFB, Honshu, Japan (at 40°43' N, 141°22' E). 11:10 a.m. USAF pilot Giles flying F-80 saw a circular object moving at high speed and disappearing into cirrus cloud overcast. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
229.		June 1, 1949. 2 miles from Stewart Field, Newburgh [or at Walden?], New York. 8:30-9 p.m. (EST). S/Sgt. and 6 others saw yellow oblong soundless object appear and disappear every few mins 30° NW of the moon [which was at about 268° azimuth 35° elevation]. (Sparks; FOIA; Saunders/FUFOR Index)	30 mins	7	1	
230.		June 2, 1949. Los Alamos, New Mexico. 12:40 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	1 sec	1		
231.		June 6, 1949. Killeen Base/Site B [Nuclear Weapons	2 mins	multi	1/4	real-time

		National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 9:05-9:08 p.m. Williams, Jones and others in the Army UFO observation and triangulation network tracked a hovering orange object about 30-70 ft in diameter, 2 mils angular size, 1 mile above ground, 3 miles S of the observation post, 4-1/2 miles S of the Plotting Center, which suddenly started moving in level flight then exploded in a shower of particles. (Sparks; FOIA; Saunders/FUFOR Index)	40 secs	ple		triangulation
232.		June 10, 1949. 20 miles SW of Boston, Mass. USAF pilot Kirschbaum flying T-6 with 58th FI Sq saw a white tubular 100 ft long flying at 100 mph, chased but lost. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
233.		June 11, 1949. Los Alamos, New Mexico. 8:57 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	4-5 secs	1	star	
234.		June 14, 1949. White Sands Proving Ground, New Mexico. 3:35 p.m. (MST). During the test firing of a Navy rocket [actually AF V-2 rocket No. 47 to 83 miles altitude] 5 tracking stations observed 2 small circular objects about 1.7 ft in size parallel the 1,500 mph rocket on each side, then the W object passed through the rocket exhaust, joined the E object and both accelerated away. Observed through 20x telescope (theodolite) tracking instrument (with photos? that failed to show UFO's). 8 mins later a possible 3rd object was sighted. (Sparks; BB Maxwell Microfilm Roll 5, pp. 1466-7, 1470; McLaughlin TRUE article Mar 1950; Saunders/FUFOR Index; LA Times, Aug. 30, 1949)		12+	1/50 ?? (0.25° equiv in theod ??)	missile tracking personnel; telescope (theodolite)
235.		June 20, 1949. Los Alamos, New Mexico. 8:10 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	1.5-3 secs	2		
236.		June 24, 1949. Mesa, Arizona. 3:45-4:30 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	4 for 30 mins + 25 secs	2		
237.		June 27, 1949. Albuquerque, New Mexico. 1:38 a.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	2 mins	1		
238.		June 29, 1949. Flagstaff, Arizona. 8:10 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)		1		
239.		June 30, 1949. Seligman, Arizona. 4:30 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	8 secs	1		
240.		July 3, 1949. Longview, Wash. (46.12° N, 122.95° W). 10:40, 10:49, 11:25 a.m. (PDT?). Aeronautical engineer Moulton B. Taylor with experience in USN guided missile and pilotless aircraft development was airport manager at Longview preparing for an air show when someone pointed out an object in the sky to the NW at about 30° elevation. Taylor immediately announced this sighting over the public address system to the crowd of 150-200 observers, including pilots, who watched a metallic disc-shaped object cross the sky from NW to SE (track offset to the W not quite reaching zenith) with an oscillating falling-leaf motion along a straight path and occasional sun glints, estimated altitude 30,000 ft at 300 mph, approx. size of DC-3 [about 100 ft] disappearing in smoke from a wood pulp mill at about 80° elevation after a total duration about 2-1/2 to 3 mins. A 2nd similar object was seen	3 + 2 + 2 mins	150- 200	1/5 – 2/5	aeronautical engineer

		about 6 mins later coming from the N [or NNE] at about the same altitude/distance, at about 45° elevation, heading about due S on slightly curved path (concavity of path away from witness, radius of curvature about 15 miles), disappearing in the sun (about ENE [actually ESE azimuth 116° elevation 53° at 10:51 a.m. assumed PDT]) after total duration about 2 mins (on a possibly 8 mile long path [240 mph]). Then a 3rd sighting at 11:25 a.m. coming from almost due W [or WNW] at about 40° elevation, on a W-E straight line path (passing to the N, not quite reaching zenith) again at about the same altitude/distance at which time the oscillations were precisely timed at 48/min, and again disappeared in the sun (to the ENE [actually ESE azimuth 127° elevation 58° elevation at 11:27 a.m.]) (again on a possibly 8 mile long path [240 mph]). (Sparks; BB Maxwell Microfilm Roll 6, pp. 1227-1240; McDonald 1968)				
241.		July 11, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 9:10 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	2 secs	1		
242.		July 21, 1949. Mount Pleasant, Utah. 1:13 p.m. (MST). Military aircraft pilot Knight saw 2 white or silver objects on headon course below the nose of his aircraft. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
243.	483	July 24, 1949. Mountain Home, Idaho (at 43°10' N, 115°35' W). 12:03-12:13 p.m. Harry F. Clark, manager of a flying service, flying a Piper Clipper at 19,000 ft, saw 7 delta-shaped objects, 35-55 ft in span, 20-30 ft long, 2-5 ft thick, light colored except for a 12 ft diameter dark circle at the rear [center?] of each, with a flat top surface and a 2-5 ft high dome, sharp needle nose, flat tail, outer panels oscillated then disappeared. Objects flew in a tight formation of 2's with 1 behind, and made a perfect, but unbanked, right turn about 1,500 ft ahead and 500 ft below with no wake turbulence, displaying decreasing smooth oscillations, then turned right again passing the aircraft at about 450-500 mph. Clark's engine ran rough during the sighting, and on landing was found with all spark plugs burned out. (Sparks; BB Maxwell Microfilm Roll 6, pp. 1487-1509; Berliner; cf. NARCAP)	10 mins	1	2 - 4	EM
244.		July 24, 1949. Near Socorro, New Mexico. Green fireball sighting. Dr. William D. Crozier of the New Mexico School of Mines collected dust samples showing presence of copper particles possibly originating from the fireball. (Sparks; FOIA)				
245.		July 28, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 8:45, 10:58, 10:59 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	3-5 secs + 15-20 secs + 2-12 secs	1 + 1 + 1 ?		
246.	496	July 30, 1949. Mt. Hood, Oregon. 9 p.m. Northwest Airlines Capt. Thrush, 2 Portland control tower operators, and a flying instructor (Henry, Penhallegan, Brasford) saw an object with 1 white light and 2 red lights, maneuver and hover. (Sparks; Berliner; Jan Aldrich)		4		

247.		July 30, 1949. Killeen Base/Site B [Nuclear Weapons National Stockpile], Camp Hood, Texas (31° 3'53" N, 97°49'40" W). 9:35, 10:04 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	2-2.5 secs + 2-3 secs	1 + 1 ?		
248.		Aug. 6, 1949. Las Cruces, White Sands, Alamogordo, and Albuquerque, New Mexico. 8-8:30 p.m. (Sparks; BB Microfilm Roll 91, pp. 414ff.)	1-5 secs	9		
249.		Aug. 20, 1949. Las Cruces, New Mexico (32.22° N, 106.75° W). 10:45 p.m. Astronomer and discoverer of planet Pluto, Clyde W. Tombaugh, with wife and mother-in-law, all saw a rigid formation of faint bluish-green rectangles as if windows on a solid dark object about 1° across, which flew at high speed from zenith SSE to about 35° above the horizon where it disappeared all the while the rectangles foreshortening due to the slant angle. No sound. Wife thought she saw faint interconnecting glow. [If object passed overhead at 1 mile altitude, size might have been about 100 ft, velocity about 1,700 mph.] (Sparks; Saunders/FUFOR Index; etc.)	3 secs	3	2	astronomer Clyde W. Tombaugh
250.		Aug. 26, 1949. White Sands Proving Ground, New Mexico. Just after 11 a.m. Just prior to a [planned Navy Viking] rocket launch a senior officer scanning the sky with binoculars sighted an unidentified object from the N which was in a shallow dive then turned W. [Viking no. 2 launch postponed to Sept. 6, 1949.] (Sparks; BB Maxwell Roll 5, p. 1467; LA Times, Aug. 30, 1949)		1+		
251.		Sept. 5, 1949. Lebec, Calif. 12:10 p.m. 2 USAF pilots flying military aircraft with 3538th Maintenance Sq saw an oval object climb at tremendous speed to the S. (Sparks; Project 1947)		2		
252.		Sept. 9 [10?], 1949. Goose Bay, Labrador, Canada (53.33° N, 60.41° W). 9:56 p.m. (AST). Military aircraft pilot saw an egg-shaped object disappear into a cloud at high speed. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
253.		Oct. 14, 1949. Mt. Palomar Observatory, Calif. 1:15 and 1:20 p.m. Observatory Manager of Public Relations Harley C. Marshall drove away from Observatory when he saw a perfect "V of V's" formation of about 16-18 silver [round?] objects without tails or wings overhead traveling at high speed to the NW and emitting a sound like jets but not quite the same which noticeably lagged behind visual location of objects in the sky by about 35°-40°. Marshall stopped car and observed objects disappear [behind?] cloud cover that extended from horizon to about 45° elevation. [Marshall returned to Observatory] and phoned Asst. Superintendent-Electrical Benjamin B. Traxler on duty who at about 1:20 p.m. saw one dark unidentified object traveling to the SW while checking the cosmic-ray Geiger counter recording equipment and saw that the needle had jumped off scale for several secs. For the next 10 days another 21 incidents of off-scale cosmic-ray detector incidents occurred at scattered times fitting a periodic 1.5-hour time schedule, a phenomenon not seen before or after, and unexplainable by equipment failure or radio interference from aircraft. Several Navy aircraft of		1 + 1		EM effects on cosmic ray detector

		differing prop and jet types were flown near Palomar Observatory using radio, radio altimeter and radars on Oct. 21 and Nov. 2 in an unsuccessful effort to trigger the Geiger counter. (Sparks; Jan Aldrich; McDonald list)				
254.		Oct. 17, 1949. Mt. Palomar Observatory, Calif. 7:20 a.m. Observatory Asst. Superintendent-Electrical Benjamin B. Traxler saw a small black object without apparent projections moving at high speed to the SW at the same time the cosmic-ray Geiger counter went off-scale again (see incidents of Oct. 14 and 21, 1949). (Sparks)		1		EM effects on cosmic ray detector
255.		Oct. 21, 1949. Mt. Palomar Observatory and Palomar Gardens, Calif. 2:30 p.m. Observatory Asst. Superintendent-Electrical Benjamin B. Traxler saw an elongated slightly curved or banana shaped object traveling to the E or SE for about 3 secs. Independently and without knowledge of Traxler's sighting, George Adamski of Palomar Gardens saw the dark cigar-shaped object. (Sparks; Jan Aldrich; McDonald list)	3+ secs	2		
256.		Nov. 21, 1949. Akita, Honshu, Japan (39°44' N, 140° 5' E). USAF pilot flying F-80 fighter saw a rectangular object flying at 500 mph. (Sparks; Weinstein)		1		
257.		Dec. 4, 1949. Bet. Covington and Hammond, Louisiana (at 30°30' N, 90°15' W). 4:35-4:38 p.m. (CST). USAF pilot of C-47 transport Flight AF 5566, Maj. F. E. Whitaker, Base Legal Officer of Walker AFB, Roswell, N.M., copilot 1st Lt. P. H. McDavid and crew chief engineer Staff Sgt. C. Thomas also from Walker AFB, while flying from Carswell AFB, Dallas, to Keesler AFB, Miss., at 180 mph at 5,500 ft heading 90° (E), saw a bright silver sphere about the size of a jet fighter [50 ft?] come towards their aircraft heading about 300° or about W nearly headon at 1 o'clock position [from about 120° ENE] at about the same altitude, 5,500 ft, at high speed in excess of 600 mph or faster than a jet then after about 30 secs object turned abruptly to the S, then stopped, bobbed up and down. Object made several accelerations and decelerations and sharp direction and altitude changes during sighting, very maneuverable in all directions, Whitker describing as appearing to "bounce all over the sky." Object disappeared by sudden burst of speed crossing field of vision in about 1 sec. No vapor trail, exhaust, distinguishing features, or sound noticeable above the C-47's noise. Apparent size half-dollar on windshield. (Sparks; Jan Aldrich)	3 mins	3	2 ?	
258.		Dec. 29 [28?], 1949. Bet. Hamlet and Greenwood, North Carolina. 5 p.m. James and 3 other pilots of military light training planes saw a blimp-shaped object outdistance the [4?] planes at high speed. (Sparks; Project 1947; Saunders/FUFOR Index)		4		
259.		Dec. 31, 1949. Andrews AFB, Washington, D.C. Daytime. Wash DC Air National Guard 113th Aircraft Control Squadron Corporal Robert E. Guinn happened to look overhead during a jet takeoff and noticed an object like a "huge stack of tinfoil" when it tilted toward the sun, floating in and out of the clouds, the size of an ANG hangar, then suddenly headed SE at high speed. (Sparks;		1		

		BB Maxwell Microfilm Roll 7, p. 1053-5)				
260.		Jan. 6, 1950. Near Howard, Kansas. Gray and 2 other USAF crew of C-47 transport saw a 30-60 ft silver football-shaped object flying in straight level flight. (Sparks; Project 1947; Saunders/FUFOR Index)		3		
261.		Jan. 7, 1950. S of Corona, New Mexico. 10:15 p.m. Holloman AFB Asst. Maintenance Officer Risley while driving saw a yellowish-white ball of light at about 45° elevation descending at a 60° angle, changing color to orange with trailing flame, to just above a mountain range where it leveled off becoming bright blue-green traveling 10° E [?] until it dropped behind the mountain. (Sparks; FOIA; Saunders/FUFOR Index)		1		
262.		Jan. 12, 1950. Gulf of Mexico SW of Florida at 24° 0' N, 85°20' W. (Sparks; McDonald list)				
263.		Jan. 18, 1950. Denver, Colo. 6:19 p.m. USAF pilots of T-6 saw a round reddish-white object tapered aft flying at 15,000 ft. (Sparks; Project 1947)		2		
264.		Jan. 22, 1950. Near Kodiak NAS, Alaska. 2:40-4:40 a.m. USN P2V3 patrol plane pilot Lt. Smith and radar officer A. L. C. Gaskey briefly detected a radar target 20 miles N, then another target S of Kodiak at 2:48 a.m., possibly the same target traveling 225 mph in between. Smith radioed Kodiak NAS to look for other air traffic but none was reported. Gaskey then noticed strong radar interference preventing him from tracking the target. At 3 a.m. watch officers Morgan and Carver on the USS Tillamook S of Kodiak island saw a maneuvering red exhaust-like or orange ball of fire circle the Kodiak area in 30 secs clockwise beginning and ending in the SE. At 4:40 a.m., P2V3 radar picked up fast moving target at 5 miles which closed that distance in 10 secs (1,800 mph) to dead ahead position, where it was seen as "two orange lights rotating about a common center like two jet aircraft making slow rolls in tight formation." Smith tried to pursue but object came at him in a "highly threatening gesture." Smith turned off all aircraft lights to reduce visibility, object flew off to the SE disappearing in 4 mins. (Sparks; Project 1947; BB files??)	? + 30 secs + 4 mins	4+ (8+?)		radar; EM
265.		Jan. 24, 1950. Near Blackstone, Virginia (37° 5' N, 78° 1' W). 4:50-5:05 p.m. (EST). 3 Pentagon officials, including 2 USAF combat flying officers, pilot Capt. G. B. Edwards and copilot Capt. Theron C. Fehrevach flying C-45 transport plane heading 26° at 5,000 ft, saw a dark 200-250 ft diameter hemispherical parachute-shaped or B-35 flying wing shaped object at about 20° azimuth at about 7,000 ft about 5-10 miles away with a large black smoke region below it almost looking like a large suspended black object about 3x the object's diameter, possibly obscuring a lower portion of a sphere instead of the object being just an upper hemisphere. UFO was darker than the 50% cloud cover and "easy to distinguish as not being cloud." Object moved smoothly horizontally to the right to about 32° azimuth at about 300+ mph then back again without any noticeable turn radius. Edwards put the C-45 into a climb to 7,000 ft so they would be on the same	15 mins	3	1/2 - 1	

		height level as the UFO and turned left slightly to 20° to head directly toward it. Army Courier Service passenger 1st Lt. John H. Van Santen was alerted by Fehrevach and now also saw the object move right then left by 12° again, then they all saw the object recede at high speed radially away and disappear [at possibly 6,000 mph to reduce angular size below visual resolution by increasing distance at least 200 miles in <2 mins at about 4:55 p.m.]. About 1-1/2 mins later object reappeared about 30°-45° to the right of their heading at the same level but at greater distance, stationary in position, then oscillating or “wiggling” about that position horizontally right-left about 1-1.5x object’s width. Object moved horizontally to dead ahead again and disappeared by receding in the distance at high speed. (Sparks; BB Maxwell Microfilm Roll 7, pp. 1160-6; Jan Aldrich)				
266.		Jan. 31, 1950. N of Aleutian Islands, Alaska (at 53° N, 171°11' W). 6:55 p.m. USAF pilot saw 3 ft red and white elliptical object flying E. (Sparks; Project 1947)		1		
267.		Feb. 2 [1?], 1950. Davis-Monthan AFB, Tucson, Ariz. USAF bomber pilot saw object trailing smoke [heading W]. [Thousands of witnesses??] (Sparks; Weinstein; BB files??; Keyhoe 1953 pp. 43-44)		1? thous ands?		
268.		Feb. 5, 1950. Teaticket, Mass. 5:10 p.m. Marvin Odom, former U.S. Navy fighter pilot, USAF pilot from Otis AFB Lt. Philip Foushee, and 2 others saw 2 thin, illuminated cylinders, one dropped a fireball, both maneuvered together then disappeared high and fast. (Sparks; Berliner)	5 mins	4		
269.		Feb. 8, 1950. Tampa, Florida (27.98° N, 82.44° W). 11:45 p.m. USAF crew of B-29 bomber saw 300 ft long 30 ft wide rocket-shaped object flying at 2,000+ mph. [Eastern Airlines??] (Sparks; Project 1947; Saunders/FUFOR Index)		multi ple?		
270.		Feb. 22?, 1950. Key West NAS, Florida. USN radar tracking of object at 50 miles altitude. [Beyond radar altitude limit?] (Sparks; Keyhoe 1953 pp. 43-44; BB??)				radar
271.		Feb. 24, 1950. Los Alamos, New Mexico. 1:15-2:00 p.m. At various locations around Los Alamos, AESS security personnel, including Philip C. Mackey AESS Inspector and another AESS inspector, and 2 Los Alamos Lab chemical operators, sighted shiny metallic or bright white, silver white, saucer or sphere hovering to the NW at azimuth 310° elevation about 30°, estimated distance possibly 20,000 to 30,000 ft, size estimated at about 100 ft if at 20,000-30,000 ft range, then moving erratically, flashing bright sunlight at times, heading E or NE, then suddenly climbing vertically at possibly supersonic speed straight up out of sight at about 70° elevation. One witness reported object dispersed nearby clouds as it passed, and emitted an intermittent vapor trail, no trail reported by others; no sound noted by anyone. (Sparks; BB Microfilm Roll 91, pp. 365-9)	2 to 45 mins	4+	1/3 to 1/2	
272.	642	Feb. 24, 1950. Albuquerque, New Mexico (35.10° N, 106.64° W). 1:55 p.m. While tracking a weather balloon	1.5 mins (theod)	2	1/20	theodolite

		from atop TWA Bld. at the Municipal Airport, Weather Observer Luther B. McDonald saw crossing the field of view in the theodolite a white, round object not quite as elongated as an egg, darkened on the top-left side, flying straight and level from about 20° to 23° elevation at about 110° azimuth in the E apparently on a trajectory towards them on about a 240° to 270° heading, covering 2° in 1-1/2 mins [probable roundoff in angles so that elevation may have changed from about 20.5° to 22.5° and azimuth from about 109° to 111°]. Object's angular size about that of the upper part of the moon as seen through theodolite [probable 21x telescope sight of David White pibal theodolite]. Lost sight when shifted to weather balloon (and back). Weather Observer Harrison S. Manson also observed object with the naked eye, for about 20-30 secs, appearing to be brilliant white like metal reflecting sunlight the apparent size of a weather balloon about to disappear in the distance, impression of flight heading to ESE [actually from ESE]. (Sparks; BB NARA Microfilm Roll 91 pp. 334-7, 372-3; Berliner; Jan Aldrich)	20-30 secs (unaided)			
273.		Feb. 24, 1950. Datil, New Mexico (34° 8' N, 107°45' W). 7:30-10 p.m. (MST). USAF Corporal Lertis E. Stanfield, 3024th Air Police Sq., Holloman AFB, and other Holloman AFB Photographic Branch project staff for tracking aerial phenomena at the Datil observation post saw due S at about 30° elevation and took 5 photos of a circular luminous white object changing to red and green 15.31 arcmins (0.2552°) in diameter with a 3.785° long trail, using 1-5 Cineflex camera with 3-inch focal length lens. Angular velocity > 0.5°/min in azimuth calculated by LaPaz. Object appeared brighter and closer, in smooth straight-line motion from about 8 to 9:30 p.m. to the W, blinking red and green. Disappeared high in the sky. Note 2nd sighting that night on Feb. 25, 1950. (Sparks; BB NARA Microfilm Roll 91, pp. 400, 463-4; Maxwell Microfilm Roll 7 pp. 1226-52; Saunders/FUFOR Index)	2 hrs 30 mins	2 ?	1/2 (0.2552° diam)	observation post photo
274.		Feb. 25, 1950. Datil, New Mexico (34° 8' N, 107°45' W). 2-2:30 a.m. White round light reappeared in the same position in the sky from 4 hours earlier, changing to red and green, moving slightly towards the NW, then disappeared behind mountain. Angular velocity 0.5°/min [in azimuth?] calculated by LaPaz. Note this is 2nd sighting of the same night by this Holloman AFB UFO observation post. (Sparks; BB NARA Microfilm Roll 91, pp. 465-6; Maxwell Microfilm Roll 7 pp. 1226-52)	30 mins	1		observation post photo
275.		Feb. 25, 1950. Albuquerque, New Mexico. 9:15 p.m. (Sparks; BB Microfilm Roll 91 pp. 465-6)	1.5 secs	1		
276.	645	Feb. 25, 1950. Los Alamos, New Mexico (35.89° N, 106.31° W). 2:10-3:55 p.m. 12 AEC Atomic Energy Security Service (AESS) inspectors saw a cylinder with tapered ends, silver and flashing, fly slow then fast, flutter and oscillate, change course. (Sparks; BB NARA Microfilm Roll 91 pp. 355-8, 370, 465-8; Berliner)	3 secs to 2 mins	12		
277.	650	March 3, 1950. Selfridge AFB, Mich. 11:05 p.m. USAF 1st Lt. Frank Mattson saw an intense, dull yellowish light descend vertically, then fly straight and level at high	4 mins	1		

		speed. (Sparks; Berliner)				
278.		March 4, 1950. Los Alamos, New Mexico. (Sparks; BB Microfilm Roll 91 pp. 370)		1		
279.		March 5?, 1950. Vaughn, New Mexico. 11:35 a.m. – 1:00 p.m. White object in straight flight toward 195° azimuth? at 180-200 mph. (Sparks; BB Microfilm Roll 91 pp. 467-8)	1 hr 25 mins	4	4	
280.		March 9, 1950. Selfridge AFB, Mich. 7:45-9 p.m. (EST). USAF 1st Lt. Francis E. Parker, 1st Lt. Frank Mattson, Sgt. McCarthy, Cpl. Melton, made multiple air defense ground radar trackings of an object erratically varying height, position and speed from 25,000 to 47,000 ft altitude, 0 to 1,500 mph. High speeds were partially disputed. Despite claims of “evident correlation” or agreement between the two radars, height-finder CPS-4 and CPS-5, at 8:52 p.m. the former showed the target at 79 miles range but the latter at 110 miles. F-80’s were vectored but results not stated. Possible MOGUL-type high-altitude constant-level balloon? (Hynek UFO Rpt. pp. 123-5, 295-7; Todd Lemire)	75 mins + ?	4+		multiple radars (CPS-4 and CPS-5)
281.		March 10, 1950. Phoenix, Ariz. About 6-6:30 p.m. Object about 200 ft by 30 ft to SSE azimuth 160° at about 40,000-50,000 ft seen by 7 witnesses from moving car. (Sparks; BB Microfilm Roll 91 pp. 338-340, 467-8)	10 mins	7	½ or 1	
282.		March 11, 1950. Holloman AFB, New Mexico. 1:00 a.m. USAF Air Provost Marshal Major William J. Haynor. (Sparks; BB Microfilm Roll 91 pp. 381-3, 469-470)	5 mins	1	4	
283.		March 11, 1950. Punta Arenas, Chile (53° 6' S, 70°53' W). 12 p.m. Many witnesses saw a silver ping-pong-shaped object at extreme altitude in the NE traveling toward the SW. (Sparks; Jan Aldrich)		many		
284.		March 16, 1950. Farmington, New Mexico. 10-11 a.m. 2 USNR pilots plus many others. (Sparks; BB Microfilm Roll 91 pp. 385-6, 392-3, 469-470; McDonald 1968)	30 mins, 3-5 mins	10-20+	¼ to 1/2	
285.		March 17, 1950. Los Alamos, New Mexico. 3:07-3:08 a.m. 5 AESS inspectors. (Sparks; BB NARA Microfilm Roll 91 pp. 359-364, 469-472)	1-5 secs	5	1/4	
286.		March 17, 1950. Los Alamos, New Mexico. 4:45 a.m. AESS inspectors. (Sparks; BB NARA Microfilm Roll 91 pp. 359-364, 471-2)	5 secs	1	1/4	
287.		March 20, 1950. 35 miles SE of Clovis, New Mexico. 1:16 a.m. USAF pilot of T-6 saw a white spherical then elongated object flying at 2,000 mph. (Sparks; Project 1947; BB NARA Microfilm Roll 91 pp. 471-2)	1-2 secs	1		
288.	671	March 20 [22? 31?], 1950. 40 miles E of Little Rock, N of Stuttgart, Ark. 9:26 [9:29?] p.m. Chicago & Southern Airlines Capt. Jack Adams and First Officer G. W. Anderson, Jr., flying a DC-3 at 2,000 ft heading W from Memphis to Little Rock, saw a 100 ft flat cylinder-section circular disc [or body of object not visible?], width/diameter ratio about 1:4.5, with 9-12 [or 7?] bright white lights or "portholes" along the lower side emitting a soft purple [?] light, and a blinding blue-white center light at the top which flashed 3 times in 9 secs [or 3/sec ??], fly at 700-1,000 mph [or 1,000+ mph?] from the S headed N,	25-35 secs	2	4	

		passing to their right at about 1/2 mile distance about 1,000 ft higher altitude. (Sparks; Battelle Unknown No. 11; Project 1947; Ruppelt)				
289.		March 21, 1950. Kirtland AFB (Albuquerque), New Mexico. 1-1:30 p.m. 4 members 4925th Special Weapons Group. Sandia Base witnesses 1:15 and 1:20 p.m. (Sparks; BB NARA Microfilm Roll 91 pp. 342-5, 473-4)	5 mins + 30 mins	4 + 3		
290.		March 22, 1950. Kirtland AFB (Albuquerque), New Mexico. 12:10 a.m. (Sparks; BB Microfilm Roll 91 pp. 373-4, 475-6)	1.5-3 secs	2 [3?]		
291.		March 22, 1950. Kirtland AFB (Albuquerque), New Mexico. 11 a.m. 11 members 4925th Special Weapons Group. (Sparks; BB Microfilm Roll 91 pp. 351-4, 473-4)	5-6 secs++ ??	11	10 ?	
292.	678	March 27, 1950. Motubu Peninsula, Okinawa. 10:30 a.m. USAF anti-aircraft radar operator Cpl. Bolfango tracked stationary target on radar at 18 miles range for 10 mins at 13,000 ft. Object then moved on 220° heading for 16.9 miles in 2 mins or about 500 mph to a point over a mountain apparently still at 13,000 ft, where it was lost. Visual observation not detailed, only mentioned in summary. (Sparks; Berliner; Jan Aldrich)	12 mins	2+ ?		RV
293.	680	March 28, 1950. Santiago, Chile (33°30' S, 70°40' W). 3:15 p.m. M/Sgt. Prince Patterson, U.S. Air Attache's office, saw a white object through binoculars flying at extreme altitude and speed, crossing 30° of sky in the WNW about 300° azimuth at one point briefly lost in sun's glare [at 296° azimuth 29° elevation] then reappearing [and crossing the sky to about 330° azimuth]. Patterson left roof of U.S. Embassy to retrieve camera with telephoto lens but object was gone when he returned. (Sparks; Berliner; Jan Aldrich)	5-10 secs	1		binoculars
294.	682	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		
295.		April 1, 1950. Los Alamos, New Mexico. 4:20 a.m. (MST) White light seen about 75° above horizon. (Sparks; BB Microfilm Roll 91 pp. 374-5, 475-6)	<1 sec	1		
296.		April 7, 1950. Logan Airport, Boston, Mass. (42.36° N, 71.06° W). CAA Watch Supv. Connelly and 3 controllers saw a deep-blue ellipsoid object in the W at 15° elevation moving SW-NE opposite the winds, changing back to blue, split into 2 blue lights revolving around each other then separate, change to white then cherry-red, increasing to 45° elevation, disappearing in NE. Overcast at 16,000 ft. (Sparks; Hynek UFO Rpt pp. 65-68; Saunders/FUFOR Index)	10 mins	4		binoculars
297.	706	April 8, 1950. Kokomo, Indiana (40.50° N, 86.13° W). 2 a.m. Earl Baker saw a grey metallic disc, 50 ft in diameter, 15 ft thick, top-shaped with a "conning tower" at the top and three ports on the rim giving off a blue light. Hovered for 2 mins about 200 ft away, slowly spinning and oscillating, then flew away to the N. Baker aroused from sleep by his dog. (Sparks; Berliner; cf. Vallée	2+ mins	1?	30	

		Magonia 75)				
298.		April 10, 1950. Brookley AFB (30°38' N, 88° 3' W) and Bates Field, Mobile, Alabama. 2 p.m. USAF control tower operator, civilian tower operator and pilots of 2 aircraft saw an object flying to the NE or E over Brookley AFB at 3,500 ft altitude about 45° elevation from Brookley tower. (Sparks; Willy Smith files)	30 secs	4		
299.	711	April 14, 1950. Ft. Monmouth, New Jersey (40°31' N, 74°05' W). 2:30 p.m. Army M/Sgt. James saw 4 rectangular, amber objects, about 3 ft by 4 ft, change speed and direction rapidly, rising and falling as a group. (Sparks; Berliner)	3-4 min	1		
300.		April 17, 1950. Los Alamos, New Mexico. 3:30 p.m. UC scientists Buck, et al., with telescope. (Sparks; BB Microfilm Roll 91 pp. 376-9, 475-6)	20-30 secs to 15-30 mins	3 to 13	1/5 to 1/4	UC scientist, telescope
301.		April 18, 1950. Near Memphis, Texas. 9 a.m.-12:40 p.m. (CST). CAA observers in Clarendon, Texas, saw unidentified object to the SE while observers in Childress about 50 miles SE saw object to NW and triangulated stationary object midway in between near Memphis, for 3+ hrs beginning at 9 a.m., which did not move significantly despite winds aloft. Northrop engineering test pilot Max Stanley and observers Lloyd Balsam and Sam F. West were asked to intercept object as they were about to take off in F-61C (AF 8357) from Amarillo on an MX-775 test (Navaho cruise missile celestial guidance test), and a B-36 also took off from Ft. Worth to intercept. At about 12:20 p.m., F-61C crew reached 20,000 ft near Memphis and saw a translucent silver spherical shaped object to the SE at "considerable distance" at 30,000+ ft with "prominent detents" top and bottom with a dark vertical streak or shadow, and streak tilted occasionally resulting in object moving laterally slowly and briefly, with no visible means of propulsion. Object was visible only when sunlight intermittently reflected on it. Contact with CAA Amarillo Range Station revealed no other aircraft in area at high altitude. Northrop crew flew 10 mins at 200+ mph (150 mph IAS) toward object but could not overtake it though apparently closed distance so that object was better observed, appearing as if possibly a weather balloon, however CAA Amarillo denied the possibility due to winds aloft and extreme length of CAA observation. Object then disappeared behind or into a deck of high altitude cirrus clouds. F-61C continued on SE heading for about 5 mins at 30,000 ft and UFO reappeared slightly to the right and higher, very close to the base of the cirrus cloud deck, and much closer than when it had disappeared. UFO angular size 1/2 of full moon. F-61C made radio contact with B-36 crew at 46,000 ft, above the cloud layer who could not see object. UFO then disappeared again behind or into a cloud [probably after < 1 min], F-61C circled for about 5 mins, then regained object for about 30 secs in a break between 2 clouds before losing sight of it for the last time. F-61C had to descend due to depletion of oxygen supply, 2-3	3+ hrs	5+	1/2	triangulation; test pilot

		mins later B-36 broke off attempted intercept too. (Sparks; Jan Aldrich)				
302.		April 23, 1950. Red Bud, Illinois. 3:58 p.m. Photographer Dean Morgan, Mr. and Mrs. Greene, and Donald Gene, saw and Morgan photographed hovering object that shot away. (Sparks; Randle)		4		photo
303.		April 27, 1950. 10 miles NE of Camp Haugen, near Hachinohe, Japan (at 40.6° N, 141.7° E). 2:45 p.m. Misawa AFB 7th Fighter Bomber Sq USAF pilot 2nd Lt. James Henry Petty was flying F-80C jet fighter in a slight turn to the left at 25,000 ft 320 mph (IAS?) heading NE about 45° azimuth to meet up with a lead aircraft (apparently another F-80C) piloted by Lt. Sofbom of 7th Fighter Bomber Sq, also heading NE at 45° at this point in a sharper gradual left turn, when he saw an unidentified object about 3 miles away at his 2 o'clock position (about ESE) following the lead aircraft in a tracking position about 1,000 ft below and to the right-rear [about 5 o'clock position roughly 1 mile away] from the lead aircraft traveling about 275-300 mph, silhouetted against clouds. During the lead aircraft's wide left turn that eventually resulted in a 260° heading, the UFO "accelerated" and pulled up to level position [at 3 o'clock] and climbed to the lead plane's altitude while the F-80C rapidly approached and overflew both the lead aircraft and UFO, having to climb (slightly) to avoid collision [now heading about NW about 315°], but getting "a very good look from the top and both sides" of the UFO, Petty saw that it was a rectangular cream-colored flat object appearing to be made of "muslin" about 20 ft high, 60 ft long, but only about 2 inches thick, oriented vertically, not reflecting sunlight despite bright sun, no exhaust, no apparent means of propulsion, not wavering or fluttering. Petty first thought it was an aerial tow target but knew there was no aerial gunnery scheduled. After being overflown, UFO pulled away from lead aircraft, accelerated to 600 mph on a 330° heading [climbed to 28,000 ft?], overtook and crossed in front of Petty's F-80C from behind and left to right [from about Petty's 7 o'clock to 1 o'clock positions] and disappeared in the distance against a clear sky. Similar incident next day near Wakkanai. (Sparks; Jan Aldrich; Weinstein)	2.5-3 mins	1	6	
304.		April 27, 1950. Plymouth, Mass. 9 a.m. USAF pilot flying F-86 jet fighter saw a light-brown flat oval object that climbed to 28,000 ft and turned. (Sparks; Weinstein; BB files??)		1		
305.		April 27, 1950. Holloman AFB, Alamogordo, New Mexico. While preparing for an MX-776A Shrike air-to-ground missile test Charles Riggs and other members of USAF contractor Land-Air, Inc., Askania theodolite crews saw, tracked, filmed 4 high flying objects on a cinetheodolite at station P-10 and a theodolite at station M-7. Triangulation resulted in 30 ft size and 150,000 ft altitude for the "high speed" objects located between Holloman AFB and Tularosa Peak. (Sparks)		several	1/50 (0.25° equiv in theod)	cinetheodolite triangulation
306.		April 27, 1950. Near South Bend (or Goshen?), Indiana.	6-7 mins	14	2	Boeing

		8:25 p.m. Trans World Airlines Flight 117 pilot Capt. Robert Adickes and FO Robert F. Manning heading W en route to Chicago in a DC-3 at about 200 mph and 2,000 ft altitude saw off to the right well to the rear a bright red disc-shaped object, 5:1 to 10:1 width/height ratio, no trail, angular size of an orange at 20 ft, rolling on edge vertically on a parallel course to their plane overtaking it gradually in about 2 mins at slightly below 2,000 ft altitude until it reached about 100° relative bearing about 1/2 mile away. Adickes and stewardess Gloria Henshaw were then called in to watch, as well as at least 11 passengers including Boeing engineers C. H. Jenkins and D. C. Bourland, executives E. J. Fitzgerald, S. N. Miller, et al. When airliner was turned toward the object it veered off at 400 mph dropping down to about 1,500 ft headed N (or NNW), presenting edge-on view, disappearing in a few mins. (Sparks; McDonald 1968; Project 1947; Keyhoe 1953; NICAP)				aero? engineers
307.		April 28, 1950. About 2 miles W of Wakkanai, Japan (at 45°23' N, 141°38'E). 11:30 a.m., 12:30 p.m. Misawa AFB 9th Fighter Bomber Sq USAF pilot 1st Lt. James H. Harvey flew an F-80C jet to attempt to intercept unidentified target tracked by Radar Site #18 without success. After 1 hr, at 12:30 p.m., while flying due N 360° about 2 miles W of Wakkanai at 300 mph (IAS?) at 30,000 ft Harvey saw an object about 7 miles to his left in the W on a S 180° heading at 600-650 mph and lost it in the clouds or over the top of the clouds after about 5 secs. Object apparently circled around at high speed in about 10 secs [roughly 8 miles or about 3,000 mph] reappearing on Harvey's right [at around 2 o'clock position] and continued to circle from right to left in front of the F-80C apparently still at 10,000 ft and closer [roughly 1 mile], was seen "clearly" contrasted against the ocean. Object was a white square 12 x 12 ft (height x length) thin, appearing somewhat like an aerial tow target, oriented vertically, with no evidence of propulsion, exhaust, control surfaces or lights. Object was lost after about 5 secs when it blended in with the lower overcast clouds on about 270° W heading [roughly 10 o'clock from F-80C possibly 3 miles range]. F-80C had been in continuous radio contact with Radar Site #18 during UFO sightings but radar was unable to track either the UFO or the F-80C. Harvey had another F-80 in sight the entire time. Harvey descended to 18,000 ft and searched for the UFO for 15 mins without success. Similar incident previous day near Camp Haugen, Japan. (Sparks; Jan Aldrich)	? + 5 secs + 5 secs	1 + 1	1/4 ?	radar
308.		May 1, 1950. Kirtland AFB (Albuquerque), New Mexico. 3:10 p.m. 2 members 690th ACW Sq. saw metallic object angling downwards headed SW to NE. (Sparks; BB Microfilm Roll 91 pp. 388-390, 475-6)	1 sec	2		
309.		May 5, 1950. Elmendorf AFB, Alaska. Several witnesses reported to 57th FIS seeing hovering intense reddish-orange light overhaed above Elemendorf AFB beneath overcast cloud layer at 7,000 ft. Hovered for 5 mins then departed at high speed. No noise or acrobatic maneuvers.	5 mins	several		

		(Sparks; AFHRA index for 57th FIS History)				
310.	721	May 7, 1950. 9 miles S of Ely, Nevada. 6:45 p.m. Mr. and Mrs. George Smith and their grandson saw a silvery white object hover at 100 ft altitude, move back and forth then fly up out of sight at high speed. Note in case file: "No investigation." (Vallée Magonia 79; Randle)	10 mins	3		
311.		May 11, 1950. About 9 miles SW of McMinnville, Oregon (UFO at 45.103° N, 123.336° W). About 7:20 p.m. (PST). Evelyn Trent was feeding the rabbits in her backyard just before sunset when she spotted an object to the N in the distance and called out to her husband Paul Trent, who was in the house at the back door, asking him to retrieve their camera. She went into the garage to look for the camera but Paul found it in the house, ran out into the yard toward where his wife had been standing, then he saw the rapidly approaching large metallic object to the N heading almost directly towards them, "tipped up" its flat underside towards them, felt a gust of wind seemingly from the object, snapped a photo of the object at azimuth 335° (about NNW) elevation 14°, angular size 1.67°. Paul Trent was at 45.1007° N, 123.3335° W, in his back yard between the house and garage. Then as the object turned on a W heading he walked ~5 ft to his right to compensate for object's motion to the left, snapped a 2nd photo about 30 secs after the 1st, which shows a metallic pie-pan shaped object 1.46° angular size with a large off-center tilted antenna or pole projecting from the top, at azimuth ~317.5° (about NW) 12° elevation. Evelyn had joined Paul by the time he started taking pictures and later described the arc covered between photos (determined by a reporter as about 15° -- close to actual figure ~17.5°). Distance and size of object estimated by the witnesses as about 1/4 mile distance and 20-30 ft diameter, or "parachute-sized" (about 24-28 ft), which size/distance figures translate to a maximum angular size 1.3° (close to the photographically measured 1.46°-1.67°). AF Colorado Project and Bruce Maccabee estimated distance about 1 mile and object diameter about 100 ft but methodology is mistakenly based on excess brightness of what was supposed to be dark shadow of the bottom of the object (in fact the bottom was not in shadow but caught bright nearly-direct sunlight at sunset from bright sky illumination at near grazing angle ~2° off of direct sunlight). Several other witnesses reportedly saw the object. (Sparks; Condon Report pp. 396-407; Bruce Maccabee; Hynek UFO Rpt pp. 244-5; etc.)	2-3 mins	2+	3 (1.67°)	stereo photo pair
312.		May 19, 1950. 100 miles E of Honshu, Japan. 2 military aircraft pilots saw stationary kite-like object tracked by ground radar. (Sparks; Project 1947; McDonald list)		3+ ?		radar
313.		May 24, 1950. Holloman AFB, Alamogordo, New Mexico. During an MX-674 Tarzon controllable vertical bomb test, Floyd Fannon and other USAF contract Land-Air, Inc., Askania theodolite crew members saw 8 unidentified objects then separately tracked and filmed 2 of the objects down the North American Aviation missile firing range. Cinetheodolite station P-8 filmed one object	15+ secs	multi ple		films by cinetheodol ites

		to the NE for 6 frames (1.0 sec) moving uniformly to the S from azimuth 38°26'59.2" to 38°33'59.2" and elevation 47°32'20" to 47°25'50". Cinetheodolite station P-10, located 5.6781 miles down range to the N (to azimuth 347.07723°) from P-8 and 7 ft higher, filmed another object, hence no triangulation possible, viewed to the E for 74 frames (14.6 secs) moving uniformly to the N from azimuth 86° 9' 9.2" to 85°47' 9.2" and elevation 25°48' 0" to 25° 7'50". (Sparks)				
314.		May 29, 1950. About 7 miles W of Mt. Vernon, Virginia (at about 38°42.5' N, 77°13' W). 9:20 p.m. Capt. Willis T. Sperry with about 10,000 flying hours, copilot Bill Gates, flight engineer Robert Arnholt, a stewardess and 2-3 or 8 passengers on a DC-6 airliner headed 230° (about SW) out of Washington, D.C., en route to Nashville, at 7,500 ft at 250 mph, saw a spindle-shaped 150 ft long metallic object with intense blue light (about mag. -6) on the tail, beginning with Gates who sighted blue light from their DC-6 airliner on headon collision course. Sperry made evasive 45° turn to the right (to 275° heading), object passed from 11 o'clock to 7 o'clock position (about 125° or SE) to the left at slightly higher altitude meanwhile crossing in front of upper part of full moon to the S (at 145° or 159° azimuth 22° or 27° elevation, depending on whether EST or EDT time, 97% full) where submarine-like silhouette clearly seen, about 5 miles away. Sperry turned left back onto original course to get the object back in view, object may have stayed stationary about 30 secs at this point. Gates then noticed object circled around to the right side, Sperry banked right again, while the object paced the airliner about 20-30 secs before climbing to the E at a 30° angle at "fantastic" speed and disappearing. (Sparks, Tom Tulien)	2-3 mins	6-12 ?	2/3 – 3/4	
315.		June 16, 1950. E of Tucson, Ariz. (at 32° N, 110°35' W). 8:25 p.m. Air National Guard C-47 pilot Santini saw a triangular object pass the aircraft at 700 mph. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
316.		June 17, 1950. Hasselbach, East Germany. 2:30 a.m. Central Europe Time. Town mayor Oscar Linke and daughter Gabriele [Gabiella?] spotted landed 40-50 ft frying pan-shaped object with two rows of 1 ft holes on the periphery, a 10 ft tall black conical tower on top, about 450 ft away, walked towards it until at about 130 ft away saw two "men" in shiny metallic one-piece suits stooped over, and approached to within 30 ft of the "men," when Gabriele called out, the "men" were alarmed and jumped on the conical tower and went inside [object about 80 ft from witnesses?]. The tower retracted, a cylindrical support column shifted position, object turned from green to red, a slight hum was heard, it lifted off the ground and started spinning, sound turned to a whistling as it accelerated and headed off toward Stockholm. Linke found a round dug impression in the ground seeming to match the support column of the object. [Case frequently misdated to June-July 1952 when first published in the press after Linke escaped to the West.] (Sparks; Hynek		2+	60 - 70 ?	

		UFO Rpt pp. 204-6; Davis-Bloecher 1978; Loren Gross June-July 20, 1952, pp. 39-41)				
317.		June 21, 1950. Hamilton AFB, Calif. 1:35 a.m. Cpl. Garland Pryor and S/Sgt. Ellis Lorimer saw a disc-shaped object shooting a blue flame, traveling at over 1,000 mph. Case missing. (Sparks; Randle)		2		
318.		June 23, 1950. Gulf of Mexico (at 26°50' N, 86° 5' W). 7:40 p.m. (CST). USAF 308th Recon Group, Tinker AFB, Okla., "Pelican" weather recon flight at 10,000 ft heading about 30° (about NNE turned to 326° at 7:44 p.m.) ground speed 173 knots (199 mph) with crew navigator 1st Lt. Donald D. Sherr, scanner Sgt. Elbert C. Bishop, engineer Tech. Sgt. John W. Horn, radio operator Sgt. Claudio S. Gonzales, saw at relative bearing 80° [to the right to the ESE?, contra other data to the left or NW?] a huge ball of fire descend slowly in 1-1/2 mins in a wavy spiral or erratic elongated "S" shaped path from at least 50,000 ft to 20,000 ft (or from 50-70 miles down to 30 miles per one witness) at estimated position 28°45' N, 89°45' W [estimated by triangulating vapor trail as aircraft flew along a baseline of about 60 miles from a distance of about 270 miles ?] where it faded, leaving an extremely bright glowing bluish or blue-white smoke or vapor trail that persisted for 20 mins without dimming for 15 mins then finally fading into a soft blur at about 8:00 p.m. bright object with extremely bright trail flying erratically. Numerous other witnesses in Alabama, Texas, Mississippi [?], including National Airlines pilot Capt. James L. Hansen flying near Mobile, Ala., J. A. Ellis of Rosedale, Ala. (Sparks; Jan Aldrich; Saunders/FUFOR Index)	1.5 mins	> 4 + many		triangulation
319.		June 24, 1950. Daggett, Calif. 8:08 p.m. (PST). Numerous observers over Nevada and Calif. United Airlines Capt. E. L. Remlin, First Officer David Stewart, observer Capt. Sam B. Wiper, and crew of 2, plus about 25 of 50 passengers on an airliner at 290 mph at 14,000 ft saw a brilliant bluish-center cylindrical or dirigible-shaped object with orange-tint fly a parallel course with the airliner for 20 miles [3-5 mins duration] at about 20-30 miles distance at 20,000 or 60,000 or 80,000 ft then fade in the distance. Navy transport pilot sighted dark gray or gunmetal cigar-shaped object 1/8 Full Moon angular size, with faint radiant exhaust at estimated speed 1,000-1,500 mph, altitude 50,000-100,000 ft, 3 mins, traveling N then turned W to disappearance. Lovelock, Nev., airport 30 pilots sighted vapor trail persisting for 20 mins. Witnesses in Ely, Pioche, and Briston Silver Mine, Nev., sighted vapor trail or smoke in a "3" shape to the W for 1/2 hour. (Jan Aldrich; David Rudiak; Weinstein; UFO Evid.)	3 mins (1/2 hr duration of contrail)	100's	1/8	
320.	738	June 27, 1950. Texarkana, Texas (33.43° N, 94.05° W). 7:50 a.m. Red River Arsenal employees Terrell and Yates saw a bright object shaped like two dishpans face-to-face, fly straight and level at high speed. (Sparks; Berliner)	4-5 secs	2		
321.		June 27 ?, 1950. Louisville, Kentucky (38.24° N, 85.77° W). Movie film of UFO taken by newspaper reporter Al Hixenbaugh. Clandestine investigations initiated by AF				film

		Intelligence and AF R&D. (Sparks; Saunders/FUFOR Index)				
322.		June 29, 1950. Phoenix to Blythe, Calif. 5:45-8:35 p.m. B-29 pilot. (BB NARA Microfilm Roll 91 pp. 482)		1		
323.		July 11, 1950. Near Osceola, Ark. USN pilots of 2 planes saw a domed disc. (Sparks; Weinstein; BB files??)		2		
324.		July 13, 1950. Fort Peck, Montana. 11:50 a.m. USAF Weather Recon flight crew saw 4 groups of round metallic silver objects. (Sparks; Weinstein)		2+ ?		
325.	758	July 13, 1950. Huntsville, Alabama. 5 p.m. 2 Redstone Arsenal employees including Mr. Washburn, saw a polished aluminum object, shaped like a bowtie fly straight and level, then one triangle rotated 1/4 turn in the opposite direction and returned to its original position. Object then made a right-angle turn and accelerated away. (Sparks; Berliner; Saunders/FUFOR Index)	30 secs +	2		
326.		July 15, 1950. Los Alamos, NM. 2:15 p.m. Sighting from Gamma Bld., LANL, of bright metallic aluminum-colored flying-wing-shaped object, no fuselage, with transparent section in middle, 15° above the horizon, heading E to W over mountain range at estimated distance of 15 miles, size about 35 ft, speed about 300 mph, yawing motion in straight flight, seen from window which blocked view of disappearance. (Sparks; BB NARA Microfilm Roll 91, pp. 489-492)	1 min	1	1/20 ?	
327.		July 31, 1950. 12-15 miles NW of Bernalillo, NM (35°22' N, 106°40' W). 11:54 a.m.–12:20 p.m. (MST). NM Air National Guard 188th Fighter Sq, 1st Lt. James F. Savage, in F-51 fighter aircraft at 14,500 ft saw a flash of light about 2,200 ft below his aircraft level about 10° below his horizontal, object at about 3,000 ft slant range gradually descended to 9,800 ft as pilot increased speed to 340 (mph?) and descended to 12,200 ft to chase bronze-to-amber colored smooth tear-drop shaped object, slightly smaller than F-51, heading 60° gradually turning right to the E, for 26 mins until it disappeared in clouds, at about 34°35' N, 105°35' W. (Sparks; BB NARA Microfilm Roll 91, pp. 493-5)	26 mins	1	1	
328.	773	Aug. 4, 1950. Approx. 100 miles SE of New York City (39°35' N, 72°24.5' W). 10 a.m. (EDT). Master Nils Lewring, Chief Mate Jacob Koelwyn, and the Third Mate, of M/V Marcala saw a 10 ft elliptical half-egg or cylindrical object, with shiny aluminum or metallic white surface sparkling in sunlight, approach from the SW heading NE at 50-100 ft altitude, approaching to within 1,000 ft or 10 miles (depending on witness) at 25 to 500 mph (depending on witness), flying with a churning or rotary motion, accelerating at end of sighting. (Sparks; Berliner; Tony Rullan; NICAP website)	15 secs to 1.5 mins	3		
329.		Aug. 7, 1950. Near Santa Fe, New Mexico (35.68° N, 105.94° W). 4:50 a.m. USAF fighter pilot 1st Lt. Henry W. Frazier with 93rd FI Sq saw black object first thought to be a C-47 or C-54, at 20,000 ft on heading 20° outpace his 620 mph [F-86A] fighter (at 30,000 ft) and disappear in the distance, at about 15 miles range straight and level	5 mins	1	1/10 ?	

		flight, as he descended to pursue. (Sparks; NARA BB Microfilm Roll 91, pp. 497-9; Project 1947; Saunders/FUFOR Index)				
330.		<p>Aug. 14, 1950. 10 miles N of Cromer, England (52°56' N, 1°19' E). 1:22 p.m. (GMT). RAF Fighter Command Control at Neatishead radar (52°44' N, 1°28' E) tracked an unidentified aircraft designated "85N" at 55° azimuth range 90 miles, located near Cromer at 15,000 ft traveling about 325 knots (375 mph). After 2 mins radar tracking, Neatishead GCI controller scrambled 257 Squadron Red Section leader Flight Lt. Kartley and a wingman at 1:24 p.m. in 2 RAF Meteor jet fighters from RAF Horsham St. Faith (52°40' N, 1°17' E), airborne 1:27 p.m. At 1:28 p.m. Neatishead Type 13 radar tracked target at 40,000 ft and height was radioed to jets which leveled off at 15,000 ft. At 1:35 p.m. jets reached 10 miles N of Cromer climbing in altitude to 25,000 and 30,000 ft where the pilots saw two vapor trails suggesting to them widely spaced engines on a single aircraft to their right at great distance and higher altitude on a heading of 280° on a parallel course to the jets. Jets got "slightly ahead" of the contrails while keeping them in sight, at a radar track range of 5 miles to the target. At 1:41 p.m. Neatishead radar plotted unidentified target and Meteors at 7 miles due N of Hunstanton (52°56' N, 0°29' E) heading WNW. At 1:42-1/2 p.m. pilots saw contrails change heading to the right and they did the same, heading NW or N, all confirmed by Neatishead GCI radar controller. At 1:45 p.m. radar tracked jets and target 5 miles S of Mablethorpe (53°20' N, 0°15' E), when blips faded; at this time pilots were at 38,000 [or 38,800] ft with contrails still above them and behind on the left at 7 o'clock position, estimated visually at 30 miles distance when contrails turned to the right heading due N 360° then disappeared. Jets made 360° right turn while still climbing to 39,500 ft but were unable to see contrails or aircraft. Object always remained too far to be seen. At 1:49 p.m. blips reappeared on GCI Neatishead radar which tracked the jets 10-15 miles E of Grimsby (53°48' N, 0° 8' W), but no unidentified target, and GCI ordered jets to turn right to the S to verify target identity on scope. Two USAF F-84's from Manston (51°21' N, 1°21' E) in the area independently saw the Meteors at about 36,500 ft and also the two unidentified contrails higher above. [Apparently not reported to the USAF, two hours earlier at 11:27 a.m., about 150 miles to the SSW of Cromer area, Flight Lt. David Hubbard at the Royal Aircraft Establishment, Farnborough, Eng., after hearing a subdued humming noise like a "model" (?) diesel motor, looked around for the source then sighted a light pearl gray disc almost directly overhead estimated 50 ft diameter at about 5,000 ft altitude (= about 1 Full Moon angular size) heading on course 100° (almost due E) at 800-1,000 mph making S-turn oscillations which reflected sunlight off different parts of the disc, seen for 30 secs.] (Sparks; Jan Aldrich; [UK JTIC/DSI FSWP Report 7, June 1951])</p>	23 mins	5+		RV

331.	793 [783?]	Aug. 20, 1950. Nicosia, Cyprus (35°11' N, 33°23' E). 1:30 p.m. USAF MATS liaison officer Lt. William G. Ghormley, Col. William V. Brown, Lt. Col. Lloyd W. Brauer heard an aircraft overhead (a Turkish C-47 at 9,500 ft heading SE to Beirut) and looked for it but saw a small, round or elliptical, bright object directly overhead traveling W at terrific speed and high altitude moving somewhat erratically passing through the glare of the sun about 15° below zenith with no change in brightness [sun then at 58° elevation 231° azimuth to the SW], until disappearing about 30°-35° above the [W?] horizon, clear weather visibility 50+ miles. Brown called Brauer's attention to object the last 2-3 secs. (Sparks; Jan Aldrich)	15-20 secs	3		
332.		Aug. 21, 1950. Echterdingen Air Base (48°41' N, 9°13' E elev 396 m), Stuttgart, W Ger. 9:54, 9:58-9:59 a.m. USAF Cpl. George P. Scarlett, 18th Weather Sq, Det 18-32, Echterdingen AB (Army Air Field), launched a 100-gram pilot balloon tracked by theodolite at 9:30 a.m., briefly noticed a small white object pass across his field of view at about 9:54 a.m., just before the balloon burst at 9:55 a.m. He followed a broken balloon fragment in the theodolite for 3 mins after the balloon burst, when at 9:58 a.m. he spotted a small white object again crossing his 2° field of view of the theodolite, at azimuth 80° (almost due E) 25° elevation headed S for 1 min, appearing as a white oval 15 arcmins in size [1/2 Full Moon with naked eye but possibly 10 Full Moons in theodolite] increasing in size to 50 arcmins [1.5 Full Moons or perhaps 30 Full Moons in optics] then appearing grayish-white with several small lines or shadows on its surface with indistinct outline, when it abruptly changed direction to WSW at high speed and disappeared into the sun [at 99° azimuth 25° elevation]. (Sparks; BB Maxwell Microfilm Roll 8, pp. 161-2)	? + 1+ min	1	1.5 [in optics equiv to 30 ?]	theodolite
333.		Aug. 23, 1950. Philadelphia, Penn. (at 39°57.2' N, 75°10.0' W elev. 40 ft) 9:05 p.m. (EDT). Retired USAF Col. D. Moreau Barringer and mother-in-law Mrs. Albert Newcombe sighted a white point of light 15 to 45 arcsecs in diameter (?) with sharp leading edge, flickering trailing edge with short yellowish flame exhaust trail, to the NNE (?) coming up from the tree-lined horizon S (?) towards zenith, getting a little brighter, passed near bright stars including Vega [at 103° azimuth 85° elevation] so its brightness could be estimated at about 0 mag., passing 2° to 3° W of zenith, but noiseless, without altering course, disappeared in the trees on the S (?) horizon, where the ¾ Moon was visible [at azimuth 167° elevation 20° illuminated 85%]. Speed possibly 300 mph if at 6,000 ft or 1,500 mph if at 25,000 ft [angular velocity about 4°/sec]. (Sparks; BB Maxwell Microfilm Roll 8, pp. 164-7)	30-40 secs	2	1/40	
334.	787	Aug. 24, 1950. About 250 miles SW of Bermuda (at 29° 40' N, 67° 28' W). 8:04-8:24, 8:27 p.m. (AST). USAF 373rd Recon Sq (Very Long Range) B-29 from Kindley AFB, Bermuda, piloted by 1st Lt. Frank J. Stockton was flying at 192 knots (221 mph) at 10,000 ft heading 27°	20 mins + ?	3 + 1		radar

		(about NNE) when radarman S/Sgt. William W. Shaffer turned on his APQ-13-A radar and tracked a distinct bright unidentified target appearing to travel at same speed and heading as B-29 but about 1,000 ft lower and at 10° left of dead ahead 12 o'clock position about 1-1/2 miles away. Shaffer alerted pilot Stockton who alerted crew to look for visual, without success, possibly due to 50% cumulus cloud coverage; two officers verified Shaffer's radar scope readings. Radar target maintained position for several mins then started to fall behind gradually until overtaken by B-29 passing about 1/4 mile to the left, then holding a trailing position behind the B-29 for about 5 mins, then increased speed passing B-29 on the right at about 1/4 mile, drawing slightly ahead of B-29 then gradually turning away to the right and accelerating rapidly. Pilot turned away 20° left to see if target would follow, but it didn't, instead continuing its gradual right turn until it disappeared off scope at about 400 knots (460 mph) at 8:24 p.m. at 30°15' N, 67°12' W [about 30 miles to the SSW when B-29 was at about 30°37' N, 66°54' W]. At about 8:27 p.m. B-29 crew member saw a bluish streak flash past the left wing from headon position about 1,000 ft below, appearing like a meteor but less bright than lightning. (Sparks; Jan Aldrich)				
335.		Aug. 27, 1950. Near Brockton, Mass. 6:30 p.m. USN radio mechanic John T. Early from Quonset NAS, Rhode Is., who was a licensed civilian pilot, was flying with a passenger Russell Des-Jardins at 1,300 ft when they spotted a shiny white spherical object with no projections or irregularities on its surface about 20 ft diameter at least 1,000 ft below their aircraft flying at high speed, jet speed [600 mph?], to the E cross wind. No exhaust smoke or unusual noise. (Sparks; Jan Aldrich)		2	2 ?	
336.	790	Aug. 30, 1950. S of Sandy Point/Indian Head, Newfoundland, Canada. 1:30-1:50 p.m. (ADT). 3 civilian Harmon AFB Water Transportation Section employees, John Kaeel, Fred Messervy and John Smith, located [in a boat] about 2 miles S of Indian Head (48°29' N, 58°30' W) saw a black or dark round object the size [shape?] of a barrel resembling a "large balloon" located about 3 miles SW of Indian Head (at 48°27' N, 58°33' W) about 1-1.5 [?] miles offshore [apparently about 2 miles to the W of the observers]. The object was hovering just above the water and after a few mins began to slowly ascend to about 15-20 ft above water, then descended again to just above water, in about a 40-60-sec cycle each time which occurred 3 times. On the last cycle the object remained near the surface about 3-4 mins when it ascended vertically until disappearance at 1:50 p.m. [See similar sighting at 2 p.m. near Kippens.] Helicopter search at 4:20 p.m. negative. [No unidentified ground radar returns were reported yet false explanation of "WX Returns" (weather returns) inserted into BB file listings.] (Sparks; Jan Aldrich)	20 mins	3	1/10 – 1/4 ??	
337.	790	Aug. 30, 1950. S of Kippens, Newfoundland, Canada. 2 and 4? p.m. (ADT). William Alexander, son Bill	5 mins + ?	3	1/5 to 1/4	

		Alexander and nephew Austin Alexander, fishing in a dory boat about 1-1/2 miles offshore from Kippens, saw a black or yellowish-brown object thought to be a submarine, the size of a dory [about 20 ft] about 1-1/2 to 2 miles away [to the S?], about 3 miles offshore about 15-20 ft above the water, the shape of a large aerial gunnery target balloon or a barrel with a pole or periscope trailing from its center line into the water, moving at 3-5 mph to the NNE [towards shore?]. Object disappeared over the horizon; briefly resighted from high ground ashore sometime later [about 4 p.m.?]. Reported to the USAF at 4:10 p.m. No smoke, exhaust, noise or markings. Helicopter search at 4:20 p.m. negative. [See earlier similar sighting from Sandy Point/Indian Head.] (Sparks; Jan Aldrich)				
338.		Aug. 30, 1950. Holloman AFB, Alamogordo, New Mexico. 10:45 a.m. During a Bell Aircraft MX-776 Shrike missile test (for the later Rascal air-to-ground strategic missile) USAF M/Sgt and 8 Bell Aircraft employees on base saw two glaringly bright circular to elliptical unidentified objects maintaining relative position to each other following the B-50 launch aircraft from above on both the dry run and hot run prior to missile release. Objects gave “strong glare at all times” not reflected sunlight, maneuvered at high estimated speeds up to 10x the B-50 or roughly 2,500 mph for short distances, left no vapor trails, hovered, accelerated rapidly, made abrupt “square” turns with apparent size changing to indicate ascent and descent. (Sparks; Jan Aldrich; McDonald files)	30 mins	9		theodolite?
339.		Aug. 31, 1950. Holloman AFB, Alamogordo, New Mexico. 10 a.m. – 1 p.m. (MST). After V-2 missile launch no. 51, Project TWINKLE Askania theodolite crews tracked and filmed multiple objects sporadically several times from several different directions at very high speeds over the course of 3 hrs. Askania cinetheodolite station P-5 filmed object with major axis varying from 8.65 to 13.243 arcmins (0.1442° to 0.22072°), minor axis 3.493 arcmins (0.05822°), one frame per second on 60 cm focal length camera, 35 mm color film. Tape recording of audio reporting. Frames 593 and 595 (2 secs of nearly 10 mins? of film of object) show elevation angle changing from 53°44' to 52°38' at a rate of 0.37°/sec. Attempted interception by 4 F-86 jets from 93rd FIS, Kirtland AFB, for 1 hr failed to locate objects, which apparently returned after jets left. Cinetheodolite observers noted object with definite shape and 3-D depth but indistinct or not sharp edges, no smoke or trail, object seemed to “rock or oscillate,” lost when observer looked away to get angle reading. (Sparks; McDonald files; Jan Aldrich)	3 hrs intermittent	multiple	2/5 (0.22072° major axis)	cinetheodolite
340.		Sept. 1, 1950. McKorryuk, Nunivak Island, Aleutians, Alaska (60° N, 166° W). 7:30-7:35 p.m. Nunivak Island CAA Airways Observer Timothy J. Kenick, George Williams and others saw a strange deep red ball of fire near the horizon to the N towards Siberia “hundreds of feet” high which slowly faded out, followed by sudden appearance of another round red ball of fire above the first	5 mins	2+		

		slowly fading out repeated another 2 times or so gradually becoming oval shaped and moving toward Siberia, finally disappearing behind clouds. (Sparks; Jan Aldrich)				
341.	797	Sept. 3, 1950. Spokane, Wash. (47.66° N, 117.44° W). 2 p.m. Major R. J. Gardiner saw 3 metallic bronze discs, 20-30 ft long, 2-6 ft thick, moving independently and erratically; his wife and neighbor [Fortney?] saw 1 object. (Sparks; Berliner; Saunders/FUFOR Index)	5 mins	3		
342.		Sept. 8, 1950. Germany. (Sparks; McDonald list)				
343.		Sept. 13, 1950. 5 miles SW of Effingham, Illinois (at 39° 3' N, 88°36' W). 7:30 to 7:40 p.m. (CST). Cessna test pilot D. D. Frye and passenger at 8,000 ft saw 3 dim rosey red lights in triangle formation on collision course, flashed landing lights several times then made sharp right turn to avoid collision, then made climbing turn to the left to observe observe object and saw the triangular arrangement of 3 red lights. Object disappeared before full turn could be completed. Investigated by AFOIN Techncl Capabilities Branch (TCB) Lt Col Milton D. Willis and Maj. Aaron Jeremiah Boggs. (Sparks; Project 1947; Saunders/FUFOR Index)		2		
344.		Sept. 18, 1950. Poplar [Poplar Bluff?], Montana (36.76° N, 90.41° W). 4 p.m. Air National Guard pilot James and another flying F-51's, CAA tower personnel and other ground witnesses saw a round object moving erratically at high speed then hover. (Sparks; Project 1947; Saunders/FUFOR Index)		4+		
345.	807	Sept. 20, 1950. Various locations Kit Carson to Akron, Colo., Idaho, Wyoming, Utah, Arizona, NM, etc. 10:43 or 10:45 or 10:49 p.m. (MST). Multiple fireball-like sightings in central Colorado. Driver between Kit Carson and Cheyenne Wells, Colo., sighted luminous objects reportedly at 500 ft altitude, below cloud cover: 2 larger 3-7 ft saucer or spherical shaped, glowing objects and 3 smaller, internally lit objects; the 2 hovered for 1 min, then moved at 200 mph across the road [in front of the driver], then the 3 smaller objects came from behind or within the 2 larger objects and aligned themselves with the first 2. All sped upward vertically and away at 2,000 mph disappearing by distance or by turning lighting off. USAF B-25 crew with 3416th Training Sq flying at 241° Mag at 8,000 ft aboit 10 mi S of Akron, Colo., at 39°55' N, 103°05' W, saw brilliant white star-like object accelerate and decelerate, emitting sparks, traveling (N to S?) across path missing aircraft by 500 yards (?) 10-30 secs at 10:43 p.m. At least 17+ observers in 6 states. Probable meteor fireball. (Sparks; Berliner; cf. Project 1947)	20-30 secs ? to 1 min + ?	17+		
346.	809	Sept. 21, 1950. Provincetown, Mass. 9:53-9:55 a.m. (EST). MIT research associate/Air National Guard Maj. Myron Herbert Ligda and Joseph V. Connelly (plus another witness) tracked on SCR-615B radar an unidentified object heading N, during MIT Weather Radar Research Group tracking of USAF flight of 2 Otis AFB F-84 jet fighters which were heading 333° straight and level course at about 400 mph (IAS 250 knots) positioned at range 45 miles 105° azimuth initially, at 9:50 a.m. Object	2 mins	3		MIT radar

		detected at 9:53 a.m. on a nearly intersecting straight line course heading about 358° [at about 500 mph?], F-84 pilots were warned by VHF-1 radio but could not see object due to poor visibility haze when ground radar showed object crossed about 3 miles [actually plotted about 1-1.5 miles ahead and blips “nearly merged”] in front of jets at 9:54:00 a.m. Object speed about 1,500 mph as it made a sharp right turn and loop of about 270° about 15 g's centripetal acceleration back to the W. (Sparks; Jan Aldrich; Hynek UFO Rpt pp. 139-141; etc.)				
347.		Oct. 12, 1950. Knoxville/Oak Ridge, Tenn. (35.98° N, 83.92° W). (Sparks; McDonald list)				radar
348.	819	Oct. 15, 1950. Oak Ridge AEC site, Tenn. (Solway Gate near Kerr Hollow 35°59.0' N, 84°13.7' W). 3:25 p.m. AESS (Atomic Energy Security Service) Trooper Edward D. Rymer and John Moneymaker of Univ. of Tenn. Research Farm, saw a strange diving object shaped like bullet with a smoke trail (Moneymaker saw a double pear-shape), the bullet or pear shape turned into a flat 2x5-inch grayish card shape with the smoke trail turning into a 20-ft long flat shimmering light gray ribbon-like streamer with small black line running down middle, which streamer had a pulsating glow on the end 15-ft section which was also partly transparent, which maneuvered at 3 mph to within 210 feet of witnesses, Rymer approached to 50 ft (but object did not seem larger), object at 6-ft height above ground maneuvered over road at Solway Gate to Oak Ridge, jumped over a 9-ft chain link fence with a terrain-following maneuver (object turned vertical to follow the fence), then rose sharply to negotiate a 30-ft willow tree similarly, card shape changed to pear shape with same tail while en route to disappearing at increased speed over top of a ridge to the SE about 1 mile away. Rymer called attention of Hightower, employee of Maxon Construction Co., who was driving up to Solway Gate, who then saw object disappearing. AESS Capt. Joe Zarzecki arrived just after disappearance of first object but saw 2nd and 3rd. Second similar object appeared shortly afterward seen by all 4 witnesses for about 30 secs at 300 ft height with similar shape and maneuvers disappearing over same ridge to SE. Then about 5 mins later a third object with similar shapes and maneuvers, seen for 10 secs at 500 ft height by all witnesses disappeared over same ridge to SE. One object had a double pear shape. (Sparks; Berliner; FBI files; BB AFOSI Microfilm Roll 90, pp. 636-637; Hynek UFO Rpt pp. 142-3)	? mins + 30 secs + 10 secs	4	3/4 ?	
349.	821	Oct. 15, 1950. Pope AFB, North Carolina. 4:20 p.m. Miami Airlines DC-4 pilot and copilot Daniel and Woodward saw 4 round shiny 100 ft objects descend slowly then take off in a line. (Sparks; Berliner; Saunders/FUFOR Index)		2?		
350.		Oct. 16, 1950. Oak Ridge (Blair Gate), Tenn. 1:30 and 2:55 p.m. (Sparks; 36.0° N, 84.2° W) (BB Microfilm Roll 90, pp. 638-9; NICAP)	several mins	1 + 7 + radar crew		
351.	824	Oct. 23, 1950. Bonlee, North Carolina. 12:42 p.m. Ex-	40 secs	1		

		USAF pilot Frank Risher saw an aluminum object shaped like a dirigible or Convair C-99 cargo plane, with 3 portholes, arrive from SE, hover 3-5 secs and fly away to the SSE. (Sparks; Berliner)				
352.		Nov. 5, 1950. Between Great Falls and Raynesford, Montana. 6:00 a.m. (MST). Mr and Mrs Morrisette. Disc came within 100 ft while driving. (Sparks; see BB Great Falls-Ennis July 29, 1952, case)		2		
353.	829	Nov. 5, 1950. Oak Ridge, Tenn. 11:55 a.m. Fairchild Aircraft illustrator Don Patrick saw a semi-translucent object, light grey with dark core, shaped like a pear or bean, flying with rapid darting movements in and out of a cloud over a mountain range, Waldron Ridge, about 6 miles away at 305° magnetic or NW. (Sparks; BB Microfilm Roll 90, pp. 643-5; Berliner)	5-10 mins	1	1/2	
354.		Nov. 7, 1950. E of Lakehurst, New Jersey (40.01° N, 74.31° W). 7:15 p.m. USN pilot Lt. jg Robert Haven flying AD-4Q at 3,500 ft heading W saw a steady white 10-12 inch light to his right at about 4,000 ft 5 miles away heading SE, made a slight climbing turn to the left to get on the tail of the object but it responded by making a headon pass about 100-200 ft over the AD-4Q in a slight dive at high speed. Haven made a tight turn to pursue, noted no wash or slipstream from the object traveling at about 900 mph, which made 5-6 headon passes at the AD-4Q, climb rate >2,000 ft/min, chase abandoned at 11,500 ft., as object outmaneuvered aircraft. When jets arrived object reached about 25,000 ft and disappeared. (Sparks; Hynek UFO Rpt pp. 68-70; NARCAP)		3	1/2 - 1	
355.		Nov. 10, 1950. South Ruislip, England, UK. (Sparks; McDonald list)				
356.		Nov. 14-15, 1950. Key West, Florida (24.58° N, 81.80° W). (Sparks; McDonald list)				
357.		Nov. 23, 1950. Maxwell AFB, Alabama (32.37° N, 86.36° W). Thompson. (Sparks; McDonald list; Saunders/FUFOR Index)				
358.		Nov. 29-30, 1950. Knoxville, Tenn. (35.98° N, 83.92° W). (Sparks; McDonald list)				
359.	845	Dec. 2, 1950. Nanyika [Nanyuki?], Kenya, Africa (0° 1' N, 37° 5' E). 10:50 a.m. Mr. and Mrs. L. Scott saw a pearly, iridescent object with a flattened top, spin while hovering, making a sound like bees buzzing. Only data in files from East African <i>Standard</i> newspaper. (Sparks; Berliner)		2		
360.	848	Dec. 6, 1950. Ft. Myers, Florida (26.64° N, 81.87° W). 5 p.m. Former aircraft purchasing agent Harry Lamp and 4 boys, using 10x binoculars saw a 75 ft object, 3-4 ft thick, bubble on top, silver with a red rim having two white and two orange jets along it and a center that revolved when the object hovered. Object flew away at very high speed. (Sparks; Berliner)		5		binoculars
361.	849	Dec. 11 [18?], 1950. 10 miles NW of Gulkana, Alaska. 10:13 p.m. Crew of Northwest Air Lines flight 802 [and military ?] saw 2 white flashes, followed by a dark cloud which rose and split in 2. (Sparks; Berliner)		2+ ?		

362.		Dec. 18, 1950. Oak Ridge, Tenn. (36.05° N, 84.20° W). Calkins. (Sparks; McDonald list; Saunders/FUFOR Index)				
363.		Dec. 27, 1950. Lakehurst, New Jersey (40.01° N, 74.31° W). Folean. (Sparks; McDonald list; Saunders/FUFOR Index)				
364.	864	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)	5 mins	4+		
365.		Jan. 12, 1951. Los Alamos, NM. 5 a.m. 10 Los Alamos Lba employees saw tear-drop shaped brilliant light with small tail descend slowly, sky lit up for 1 sec. (Sparks; BB NARA Microfilm Roll 85, p. 504; Maxwell Roll 1, p. 904)	1 sec+	10		
366.	868	Jan. 12, 1951. Fort Benning, Georgia. 10 (11:01?) p.m. U.S. Army 2nd Lt. A. C. Hale saw a light with a fan-shaped wake remain motionless like a star then speed away. (Sparks; Berliner; Saunders/FUFOR Index)	20 mins	9 ?		
367.		Jan. 14, 1951. Jolon [S of King City or near Salinas?], Calif. 11:40 a.m. Private pilot Rosenburg of Navion 4582K saw 3 rectangular objects with flat tops. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
368.		Jan. 14, 1951. Big Bear Lake, Calif. (34°15' N, 116°53' W). 12:38 p.m. Private pilot K. D. Hillman flying Navion aircraft with 3 passengers saw 40-50 ft [150? ft] circular object at 30,000 ft moving W towards Los Angeles. George AFB unable to scramble fighters because of a crashed aircraft on the runway. (Sparks; Project 1947; Saunders/FUFOR Index; NICAP)		4		
369.	1037	Jan 16, 1951. Artesia, New Mexico (32.84° N, 104.40° W). 11 a.m. A. V. Swearingen, photographer Raymond Dugan, pilot Raymond E. Stiles, and Alvin H. Hazel, members of a balloon project of General Mills Aeronautical Research Laboratory, while observing the project's 110 ft balloon at an altitude of 112,000 ft spotted a motionless dull white, round object 5/3 larger than the balloon, apparently higher than the balloon, which then flew off at high speed covering 45° in 3 secs [5+ miles/sec]. Other observers included 6 pilots on the ground and a newspaper reporter from Artesia. Shortly thereafter, the balloon crew, the manager of Artesia Airport, 3 pilots and 2 newspaper reporters saw 2 gray flat elliptical objects from the NW flying side-by-side, then circle the balloon and fly away to the NE. Note: In May 1952 AFOSI re-interviewed the witnesses to clarify a 1951/1952 date ambiguity. (Sparks; BB Maxwell Microfilm Roll 9, pp. 743 etc.; Berliner; BB Rpt 6; cf. Hynek UFO Exp ch. 6, case DD-8; Loren Gross 1951 p. 4; Saunders/FUFOR Index; Joel Carpenter)	? + 40 secs	10+ + 7+	1/6 ?	
370.		Jan. 20, 1951. Sioux City, Iowa. 9:20-9:26 p.m. (CST). Capt. Lawrence W. Vinther, copilot James F. Bachmeier, passengers AF Colonel and aide, and CAA tower	6 mins + [3 mins?]	6	60 ?	

		controller John M. Williams. At 9:20 the 2 CAA tower controllers sighted light in the W [NW?]. After Vinther's Mid-Continent Airlines DC-3 took off he was asked by the tower to look for light, then while still in a climbing 360° turn at about 1,000 ft they spotted object to the NNW at about 8,000 ft and 4 miles away that looked like a B-29 fuselage with wings but no engines, which blinked some lights like running lights. Object came at the DC-3, flew across the nose within 200 ft, they had to turn their heads to follow it then suddenly found it instantly appeared on the other side again, paralleled them for 2-3 secs, then flew under them and disappeared in 2-3 secs to the NW. (Sparks; Battelle Unknown No. 3; cf. NARCAP)				
371.		Jan. 21, 1951. Oak Ridge, Tenn. (36.06° N, 84.20° W). 6:20 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)				
372.		Jan. 22, 1951. 50 miles SE [ESE?] of Holloman AFB, New Mexico. 10 a.m. (EST [sic; PST?] 11 ? a.m.). Pilots Capt. Ernest W. Spradley of Aerial Photo Lab and Capt. James E. Cocker of All-Weather Flying Division both AMC, Wright-Patterson AFB, Ohio, a General Mills Aeronautical lab project engineer Mr. McAleese and an airman, were flying in a C-47 heading E [ESE?] at about 11,000 ft [10,000-12,000 ft] and tracking a Project GOPHER plastic balloon at about 50,000-70,000 ft [70,000-100,000 ft] when they saw a bright star-like object hovering seemingly next to the pear-shaped balloon or above and to the side. As they approached and flew under the balloon they noticed the object descend to the balloon's level and grow larger in apparent size until about 1/4 to 1/2 the 70 ft balloon, when it appeared to be round and flat like a dime, milky white or silvery in color with a clear outline. Cocker and McAleese left the cockpit, went to the astrodome to observe the object. After 3 mins they saw the object separate from the balloon and head W at high speed, after about 1 min it emitted a series of 3 bright flashes like photo flashes at 1 sec intervals and disappeared from sight. (Sparks; BB Maxwell Microfilm Roll 8 pp. 956-9; Jan Aldrich; Saunders/FUFOR Index)	3-5 mins	4	1/20 – 1/10	
373.		Jan. 24, 1951. Westover AFB, Mass. 10:45 a.m. (Sparks; McDonald list; Saunders/FUFOR Index)	15+ mins			
374.		Jan. 26, 1951. Sea of Japan off coast of South Korea (at 36°40' N, 130°50' E). 2:05 p.m. Radar tracking of unidentified target at 3,000 knots (3,500 mph). (Sparks; Jan Aldrich; Saunders/FUFOR Index)				radar
375.	886	Feb. 1 [2?], 1951. Johnson AFB, Japan. 5:10 p.m. [?] Pilot and radar operator of F-82 night fighter saw an amber light make 3-4 360° turns to the right, reverse towards the F-82 then climb out of sight. (Sparks; Berliner)		2		
376.		Feb. 15, 1951. Sea of Japan off coast of South Korea (at 38°30' N, 130° 0' E). Early afternoon. Radar tracking of unidentified target at 12,000-14,000 mph. (Sparks; Jan Aldrich)				radar
377.		Feb. 19, 1951. Near Mt. Kilimanjaro, Kenya. 7:20 a.m. East African Airways Lodestar crew and several	17 mins	several		

		passengers saw stationary silvery elongated object. (Sparks; Project 1947; Saunders/FUFOR Index)				
378.		Feb. 19, 1951. Rodeo, New Mexico. USAF? C-54 pilot saw a green flare [fireball?] pass his plane at 9,000 ft moving vertically [up?]. [Meteor?] (Sparks; BB NARA Microfilm Roll 85, p. 504; Maxwell Roll 1, p. 904; Project 1947; Saunders/FUFOR Index)		1		
379.	896	Feb. 21 [26?], 1951. Durban, South Africa (29°53' S, 31° 0' E). 4:55 a.m. 3 men in a truck and several other persons, none named, saw a dark red, torpedo-shaped object with darker center, fly straight and level. (Sparks; Berliner; Saunders/FUFOR Index)	1 min	5+		
380.	897	Feb. 26 [25?], 1951. Ladd AFB, Alaska. 7:10 a.m. USAF Sgt. J. B. Sells saw a dull grey, metallic object, about 120 ft long 10-12 ft thick, hover, puff smoke and speed away. (Sparks; Berliner)	1-1.5 mins	1		
381.		March 9, 1951. About 20 miles SE of Tsushima Island, Japan (at 34° 5' N, 129°31' E). 2:25 p.m. Radar tracking of unidentified target at 3,350 mph. (Sparks; Jan Aldrich)				radar
382.		March 10, 1951. Chinnampo, Korea. 9:51 a.m. Crews of USAF B-29 bombers, including scanners and tail gunner, saw a large red-yellow glow burst and become blue-white. (Sparks; Berliner)	1 sec	9		
383.		March 12, 1951. Albuquerque, NM. Two witnesses saw a shining white ball-shaped object descend rapidly to the horizon. (Sparks; BB NARA Microfilm Roll 85, p. 505; Maxwell Roll 1, p. 905)		2		
384.	907	March 13, 1951. McClellan AFB, Sacramento, Calif. (38.74° N, 121.35° W). 3:20 p.m. USAF 1st Lt. B. J. Hastie and Mrs. Rafferty saw a cylinder with twin tails, 200 ft long and 90 ft wide, turn N at incredible speed. (Sparks; Berliner)	2 mins	2		
385.	908	March 15, 1951. New Delhi, India (28°37' N, 77°13' E). 10:20 (9:50?) a.m. 25 members of a flying club, including the chief aerial engineer (Floats?) and his two assistants saw a metallic cigar-shaped object with white exhaust which turned black when it accelerated to about 1,000 mph and made a large loop. (Sparks; Berliner; Saunders/FUFOR Index)	7 mins	25		
386.		March 24, 1951. Holloman AFB, Alamogordo, New Mexico. 5:55-6:00 a.m. (MST). Project TWINKLE personnel photographed with a Leica 3c 50 mm camera an unidentified elliptical object with major axis 8.31 arcmins minor axis 6.343 arcmins (0.1385° and 0.1057°). (Sparks)	5 mins ?		1/4 (0.1385° major axis)	photo by observer network
387.		April 1, 1951. Los Alamos, NM. Los Alamos Lab employee saw bright oblong object moving slowly horizontally and vertically. (Sparks; BB NARA Microfilm Roll 85, p. 505; Maxwell Roll 1, p. 905)		1		
388.		April 14, 1951. Yellow Sea (at 37° 9' N, 123°20' E). 1:22 p.m. Radar tracking of unidentified target at 3,755 mph. (Sparks; Jan Aldrich)				radar
389.	925	June 1 [May 31?], 1951. Niagara Falls, New York. 4:20 a.m. [GMT?] M/Sgt H. E. Sweeney and 2 enlisted men saw a glowing yellow-orange, saucer-shaped object with arc-shaped wings, fly straight up. (Sparks; Berliner)	30-40 secs	3		

390.		June 7, 1951. Los Alamos area?, NM. 11:10 a.m. Los Alamos Lab employee sighted pointed cylinder with cloth-like construction in vertical orientation fall into a canyon. Search party unable to find traces. (Sparks; BB NARA Microfilm Roll 85, p. 505; Maxwell Roll 1, p. 905)		1		
391.		June 8, 1951. Los Alamos, NM. Los Alamos Lab employee sighted large reddish dot that turned bright green. (Sparks; BB NARA Microfilm Roll 85, p. 505; Maxwell Roll 1, p. 905)	3 secs	1		
392.		July 1, 1951. Seoul, South Korea (37°30' N, 127° 0' E). 10:50 [10:20?] p.m. USMC pilots flying 4 F4U-5N fighters with 1st Marine Air Wing saw several bright green spheres [fireballs?]. Ground radar confirmation [?]. (Sparks; Project 1947; Saunders/FUFOR Index)		4+ ?		radar?
393.		July 9, 1951. Near Dearing (25 mi W of Augusta) (at 33°28'N, 82°25'W), Georgia. 1:40-1:50 p.m. (EST). 1st Lt. George H. Kinmon, Jr., 160th Tactical Recon Wing, Lawson AFB, Columbus, Ga., flying F-51 fighter at 250-270 mph at 8,000-8,500 ft on heading 247° saw high speed white oval disc about twice size of his plane [or about 75 ft] [or 10-15 ft?] in headon collision from the direction of the sun [sun at about 237° azimuth 72° elevation]] suddenly dive underneath narrowly missing his plane. He turned to pursue but couldn't find object, then 15 secs later the object made another headon dive at him, repeated it several times, on last pass climbed upward out of sight. [Conflicting account to AFOSI states after first dive object continued to barrel-roll around the plane for 10 mins, then disappeared under the plane. Pilot states object was 300 to 400 feet from plane and appeared to be 10 - 15 ft diameter.] Object flat on top and bottom, white not aluminum. Front view with rounded edges slightly beveled, and small crater-like spots. Top view as it dived, object appeared round and spinning clockwise. From front view as object dived observer noted. No vapor trails or exhaust or visible system of propulsion. Described as traveling tremendous speed. He compares its speed to that of a jet plane. Pilot turbulent wake "bump" when object passed under plane. Object left the plane a few miles S of Milledgeville, and 15-20 miles from Macon. (Sparks; Weinstein; NICAP Hall UFO Evid p. 20; Uninvited Guests pp. 328-330; AFOSI files)	10 mins	1	5? 25?	
394.		July 9, 1951. Corona, New Mexico. 10:30 p.m. USAF Sgt. Meadows, security guard at Corona Experimental Radar Site, saw red glowing ball about size of full moon to the W descending into the tree line for 30 secs and afterglow seen another 10 secs. [Crescent moon was setting in the W about 268°-272° azimuth about 10-10:30 p.m. depending on height of mountains and tree line to the W.] (Sparks; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	40 secs	1	1	
395.		July 14, 1951. Holloman AFB, New Mexico. (Sparks; McDonald list; Saunders/FUFOR Index; UFO Evid I, pp. 77, 84)				film
396.	943	July 24, 1951. Portsmouth, New Hampshire. 7:10 p.m.? Hanscom AFB Operations Officer Capt. Cobb and Cpl.	20 secs	2	12 ?	

		Fein saw a greyish 100-200 ft tubular object with many black spots, 5:1 length/width ratio, with fins at one end, fly 800-1,000 mph at 1,000-2,000 ft altitude, leaving a faint trail. (Sparks; Berliner)				
397.		July 30, 1951. Selfridge AFB, Mich. 5:14 a.m. (Sparks; McDonald list; Saunders/FUFOR Index)	18 mins			
398.		Aug. 8, 1951. NE of Port Clinton, Ohio. 2:10 p.m. USAF pilot Skelops (?) in flight and ground witnesses saw a 20 ft dark cigar-shaped object flying at high speed. (Sparks; Project 1947; Saunders/FUFOR Index)		3+ ?		
399.		Aug. 21, 1951. Sea of Japan (at 41°55' N, 133°52' E). 12:05 p.m. Radar tracking of unidentified target. (Sparks; Jan Aldrich)				radar
400.	955	Aug. 25, 1951. Albuquerque, New Mexico. 9:58 p.m. (MST). Sandia Base Security guard Hugh R. Young and wife saw a flying wing-shaped craft pass overhead at about 800-1,000 ft altitude and 300-400 mph with no sound. Size estimated at 1.5x wingspan of B-36 bomber, or 350 ft. Dark, chordwise stripes on underside, and 6-8 pairs of soft, glowing lights on trailing edge of "wing." (Maxwell BB Microfilm Roll 8 pp. 1324-58; Berliner; Ruppelt; Grudge Status Rpt 1)	30 secs	2	40	
401.		Aug. 26, 1951. Larson AFB, Wash. (at 47°12' N, 119°18' W). 12:28-12:36 a.m. [08:28-08:36Z?] USAF Capt. Ernest W. Rees, senior radar controller, and other operators of two radars at USAF AC&W 637th Sq, Detachment 1, search radar CPS-1 and height-finder CPS-4 tracked 950 mph unidentified target at 13,000 ft heading N on course 340° Magnetic [= 355° True approx.] headed into the radar site [evidently from the S]. Tracked 95 miles in 6 mins [=950 mph] evidently the total duration was 8 mins, the accurate time plotting following an initial 2 mins of surprise from 12:28-12:30 a.m. (probably about 30 miles covered in the 2 mins for a total of about 125 miles in 8 mins). Object transmitted IFF Mode 1 signal in response to radar transponder interrogations from Larson AFB's TPX-22 interrogation set (using KY-97 encrypted? signal generator) which appeared to be emitted twice by an APX-6 transponder or something simulating it on the UFO, at about 115 miles range and again at about 80 miles range, a difference of 35 miles representing 9 sweep intervals of the CPS-1 radar with 4 RPM sweep rate, providing a double-check on the estimated speed, which computes at 933 mph. Height-finder CPS-4 briefly detected UFO, which was determined to be at 13,000 ft. CPS-1 low beam tracked the object but not the high beam. The 2-1/2° to 25° high beam only covered down to about 30,000 ft at 80 miles range and thus could not have detected the target at the much lower altitude of 13,000 ft. Object apparently left radar low beam between about 50 and 35 miles from radar station and was lost. Attempted scramble of F-86 interceptor too late, no contact from 17,000 to 25,000 ft [but this was wrong altitude, too high]. (Sparks; Maxwell BB Microfilm Roll 8 pp. 1382-9; McDonald list; Saunders/FUFOR Index; Grudge Rpt 1; cf. Ruppelt pp. 96-98, 108-109)	8 mins	2+		IFF transmission, multiple radars

402.		Aug. 27, 1951. Vandalia, Illinois. Approx. 8-8:30 p.m. Private pilot Raymond Williams was on the runway about to take off when he saw a large blinding orange light to the SW, radioed the CAA tower but light went out. After takeoff he saw the object again, noticing it was not an airplane, the light was at one end of the object and had a small red light on top, and it came directly at him, circled his plane twice, then headed to W to Greenville. Williams followed, saw object circle Greenville twice then return E towards Vandalia. Commercial pilot at 20,000 ft radioed he also saw the object. (Sparks; Maxwell BB Microfilm Roll 8 pp. 1396-1401; NARCAP; Saunders/FUFOR Index; Grudge Rpt 2)		2		
403.	962	Aug. 31, 1951. Near Matador, Texas (34.01° N, 100.79° W). 12:45 p.m. (CST). Mrs. Tom Tilson, daughter Mrs. Eugenia T. Bethard were driving N on Hwy U.S. 70 from White Flatt to Matador, all apparently of excellent reputations, saw to the W a pear-shaped object the length of a B-29 fuselage (100 ft) or the size of a Matador railway freight shed (48 ft), aluminum or silver-yellow reflecting brightly in sunlight with a port or some type of aperture on the side, move with smaller end forward, drifting slowly at about 150 ft altitude about 200 ft (Bethard said 375-450 ft) in front of their car, then shot up in a circular fashion and out of sight to the E after a few secs. (Sparks; Maxwell BB Microfilm Roll 8 pp. 1408-29; Berliner; McDonald files; Jan Aldrich; Grudge Rpt 2)	few secs +	2		
404.	964	Sept. 6, 1951. Claremont, Calif. (E of Hwy 66?). 7:20 p.m. (GMT?). S/Sgt W. T. Smith and M/Sgt L. L. Deuel (?) saw 6 orange lights in an irregular formation, fly straight and level into a coastal fog bank. (Sparks; Berliner; Saunders/FUFOR Index)	3-4 mins	2		
405.		Sept. 9, 1951. About 50 miles off coast of North Korea (at 39° 5' N, 128°40' E). 6:50 p.m. Radar tracking of multiple unidentified targets at 900 mph. (Sparks; Jan Aldrich)				radar
406.		Sept. 10, 1951. 3 miles NE of Asbury, New Jersey. 11:35-11:37 a.m. (EDT) USAF pilots Lt. Wilbert S. Rogers and Major Ezra S. Ballard flying in a T-33 at 20,000 ft from Dover AFB, Delaware, to Mitchel AFB, New York, on a NNE course at 450 mph saw a silvery metallic discus-shaped 30-50 ft object to their 11 o'clock position below their altitude viewed against the Sandy Point area and silhouetted against the ground. Rogers immediately turned left and descended to intercept the object which then banked, revealing its flat round profile, no appendages, no trail, and curved in more tightly on the turn than the T-33, covering an estimated 30-50 n.mi. in 2 minutes (about 1,000-1,500 mph), and seen projected against the ground near Red Bank and Freehold, New Jersey, as the T-33 descended to 17,000 ft, accelerated to 550 mph and covering about 120° of its 360° turn during the sighting. The object passed within about 8,000 ft distance of the T-33, descending from about 12,000 to 5,000 ft and headed at high speed out to sea near Pt. Pleasant at about 120° heading until disappearance. Radar	2 mins	2	2/5 – 2/3	

		sightings earlier in the morning at Ft. Monmouth Army Signal Corps Labs, ending about 11:18 a.m., were inconclusive. (Sparks)				
407.	969	Sept. 13, 1951. Goose Bay, Labrador, Canada (53.33° N, 60.41° W). 9 and 9:15 p.m. (9:30?) (AST). 1932nd AACS Sq, Goose AFB, T/Sgt Warner B. Maupin, Cpl. John W. Green operators of GCA radar tracked 2 objects on a collision course, then one evaded to the right upon the request, by radio, of one of the radar operators (!). No aircraft were known to be in the area except the C-54 en route to landing at Goose AB which arrived during the second radar tracking (the 3rd object at 10:15). First target strong and steady radar return at 4,000 ft and 140 mph covering 7 miles in 3 mins. About 3 mins later 2nd target observed with weak intermittent return above 5,000 ft level of GCA radar, 3rd target similar and with similar speed appeared after first 2 disappeared. No visuals despite efforts by radar crew, tower crew and C-54 crew. (Berliner; McDonald files; Jan Aldrich; NICAP; NARA BB-AFOSI Microfilm Roll 89, pp. 1202-6)	3+ mins + ?	2		radar
408.		Sept. 17 [16?], 1951. 3 miles NE of Marion, Ohio (40.58° N, 83.13° W). 12:17 p.m. Cessna pilot Grover saw a black swept-wing object at 2,800 ft in near collision with his aircraft. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
409.		Sept. 17, 1951. Hudson Strait (at 61°30' N, 68°50' W) to Baffin Island, Canada. 10:20-11:55 p.m. (EST). USAF B-36 radar operator Major Paul E. Gerhart and navigator Major Charles J. Cheever on a flight from Goose Bay, Labrador, to Resolute, North West Territories, heading NW at 208 knots (239 mph) over Hudson Strait, picked up radar interference which came from an unidentified aircraft at relative bearing 130° (E) at 28 n.mi. (32 miles) heading away. Anti-jamming device on the APQ-24 radar was turned on at 11:20 p.m. but did not affect the jamming on the radar scope. At 11:35 jamming covered 120° of the right side of the radar scope and then an unidentified aircraft was seen visually on the right side of the B-36, which was then at 18,000 ft at 65°40' N, 71°40' W (over SW Baffin Island). Object had "unconventional running lights" all white instead of red-green, with twin white flashing tail lights, traveling about 30 knots faster than the B-36, crossed the front from right to left heading 334° true towards the NNW, and was in view about 20 mins [to a distance of about 12 miles]. While the object was still visible, at 11:50 p.m. the B-36 autopilot and APQ-24 radar set went out, the latter returning after a few mins about when the object disappeared. ECM operators S/Sgt. Donald E. Jenkins and S/Sgt. Doty T. Larimore on 2 B-36 flights from Goose to Resolute while still over Labrador the next day detected carrier wave signals at several frequencies and some radar-like pulses at other frequencies, all below 1,000 MHz. (Sparks; Jan Aldrich; cf. Hynek UFO Exp ch. 7, case RV-11)	1 hr 35 mins			RV, radar jamming
410.		Sept. 18, 1951. ADC radar sites P-34 (Empire AFS, Mich.), P-31 (Elkhorn AFS, Wisc.), P-69 (Finland AFS,	1 hr +	multi ple		multiple radar

		Minn.) 4:35-5:31, 7:10 a.m. USAF CPS-6B and CPS-5 radar tracks of 6,000 mph (intermittent?) targets. (Sparks; McDonald files; Jan Aldrich; Grudge Rpt 1; Saunders/FUFOR Index)				
411.		Sept. 23, 1951. About 30 miles W of Long Beach Airport to Camp Pendleton, and March AFB, Calif. 7-9:25 a.m. (PDT). 2 F-86 jet interceptors were scrambled from George AFB, near Victorville, Calif., then vectored by air defense GCI radar to [a target?] at 33°50' N, 118°40' W (off the coast about 30 miles W of Long Beach Airport), where the jets circled and headed E toward Long Beach when an object was seen at 12 o'clock high position at 7:55 a.m. in a left orbit at about 50,000 ft above the F-86's, appearing to be a bright silvery aircraft with highly swept back 45° wings; [the F-86's tried to climb to intercept the object but it climbed away in response]. Another 2 F-86's were scrambled from George AFB at about 8:00 as the first 2 were running low on fuel and were released to return at 8:10-15 when the 2nd flight arrived. The 2nd pair of F-86's was vectored by GCI radar to 33°20' N, 117°30' W (Camp Pendleton), arrived there at 8:10 at 43,000 ft [and circled?], spotted the object at 1 o'clock high back to the N toward Muroc/Edwards AFB appearing at about 50,000-55,000 ft in a controlled orbit right and left, appearing as a swept wing aircraft [that sped up when the F-86's tried to close] and the object was found near March AFB, Riverside, to the NNW but they broke off intercept because of low fuel at about 8:20-25, landing at 8:45. 3rd flight of 2 F-86's scrambled [at about 8:45??] from George AFB [?] saw the object shortly after takeoff seeming to be heading S as F-86's made climbing turns up to 43,500 ft under the round silvery object [at 55,000? ft over the San Bernardino Mtns. ?] until breaking off intercept at about 9:25 a.m. [A 7th F-86 was scrambled to the S toward Long Beach but the UFO was gone.] (Sparks; GRUDGE Rpts. 1 and 2; Ruppelt pp. 94-5)	1.5+ hrs	7+ ?	1/2 ?	RV?
412.	980	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 9 pp. 231-7; Berliner)	1 min	1	[2-10??]	Battelle physicist Howard Cross
413.	984	Oct. 3, 1951. N of Kadena AFB, Okinawa (radar at 26°24' 55" N, 127°47' 49" E elev. 750 ft). 10:27-10:30 p.m.	3 mins	3		radar; possible

		(1327-1330Z). USAF 529th AC&W Group, GCI Station Site #51 "A" Radar operators Sgt. Melvin W. Watson, Pvt. Manuel M. Gonzales and Senior Radar Mechanic Sgt. James E. Biscanto radar tracked a large, sausage-shaped blip (apparent echo size 4 miles x 2 miles), enlarged possibly due to effects of the blip being a transponder signal from the UFO, logged as Air Defense Control Center (ADCC) Track No. 86, tracked at about 2,520 to 4,800 mph [varying from about 2,400 mph to 4,800 mph] from azimuth 14° (almost NNE) slant range 90 statute miles at 27°42' N, 128°10'E, to 340° azimuth (almost NNW) slant range 152 statute miles at 29°59' N, 127°25' E, [a distance of 60 miles on a heading of 331°] in 7 sweeps of the CPS-1 radar (15-sec sweep rate) high beam (transmitting at 2860 MHz, covering about 3-1/2° to 25° elevation). Watson missed detection on 6th sweep due to adjusting range setting. Then Gonzales tracked target, apparently at about 45,000-49,000 ft transition altitude from high to low radar beams, brighter than average echo and very large in size (3x the size of a B-29 echo, measuring apparent echo size 2-1/2 to 3 miles x 6-8 miles) in about 5-6 sweeps of the low beam (2700 MHz apparently covering 0° to 2-1/2° elevation) swerving to a due N heading disappearing suddenly in the middle of the 2nd pulse in the last sweep, without fading on any sweep, at azimuth 355° slant range 247 statute miles. Gonzales missed about 1-2 sweeps while adjusting range setting. CPS-1 PRF rate 350 pulses/sec, pulse duration 1 microsec, horizontal beam width 0.8° to half power. FEAF (Far East AF) and Philco radar experts believed UFO was amplifying radar echoes by transponder (non-encrypted non-IFF), but only on the CPS-1's frequencies of 2700 and 2860 MHz and not on the allocated beacon frequency of 2907 MHz or in the L-band and P-band frequencies of other nearby radars, types CPS-4, TPS-1B, and SCR-270DA, which did not detect the UFO. Radar site attempted to radio report of tracking to Itasuke ADCC at 10:35 and 10:50 p.m. but was blocked by "heavy CW [continuous wave] (code) interference" on HF at 5.85 MHz. (Sparks; BB Maxwell Microfilm Roll 9 pp. 257-332; Berliner; Saunders/FUFOR Index; Joel Carpenter)				UFO transponder transmissions
414.		Oct. 7, 1951. A few miles off coast of Honshu, Japan (at 37°37' N, 137°15' E). 7:37 p.m. Radar tracking of unidentified target at 420 mph. (Sparks; Jan Aldrich)				radar
415.	985	Oct. 9, 1951 5 miles E of Terre Haute, Indiana (39.48° N, 87.42° W). 1:42 [1:43?] p.m. (CST). CAA Chief Aircraft Communicator Roy Messmore at Holman Municipal Airport saw a flash on the distant SE horizon then a growing pinpoint of a rapidly approaching object appearing as a silvery "flattened tennis ball" when directly overhead disappearing to the NW [or SE??] after traveling from horizon to horizon in 15 secs, no sound or trail. Pilot Charles Warren at 5,000 ft flying W from Greencastle, Ind., to Paris, Ill., at location E of Paris (about 15 miles NW of Terre Haute) at 1:45 p.m. CST saw silvery "flattened orange" appearing stationary at first to the left	15 secs + ?	3?	4 + ?	

		rear (SE? or E? towards Holman Airport?) for a few secs (or longer?) then Warren banked in a tight left turn to pursue the object when it suddenly picked up speed and headed off NE towards the S of Newport, Ind. (Berliner; cf. Ruppelt pp. 112-3; Grudge Rpt 1)				
416.		Oct. 10, 1951. 10 miles E of St. Croix Falls, Wisc. (at 45°24' N, 92°28' W). About 10:10 a.m. Private pilot Jack Donaghue and aero engineer Joseph J. Kaliszewski, Supv. of Balloon Manufacture, both with General Mills Aero Labs, were flying in a light plane at 6,000 ft heading 230° climbing toward a large balloon their team had launched, which was at about 20,000 ft and 6 miles to their SE, when they saw a strange object traveling E to W much higher than the balloon, about 1/4 apparent size of balloon [which itself was about 80 ft??] first at a slight dive, leveling off about 1 min, slowing down, then making sharp left turn and climbing at an ascent angle of 50°- 60° into the SE with a "terrific acceleration," having covered about 45° (or 40°-50°) of sky total. No vapor trail. See next day's sightings (below). (Sparks; Project 1947; Saunders/FUFOR Index)	2 mins	2	1/15 ?	aero engr
417.	989	Oct. 11, 1951. Few miles N of Minneapolis, Minn. (44.97° N, 93.27° W). About 6:30 and 8:30 a.m. General Mills Aeronautical Labs balloon researchers during Project GRAB BAG balloon launch, including aeronautical engineer Joseph J. Kaliszewski, aerologist Charles B. Moore, pilot Richard Reilly in the air heading E at 10,000 ft, and Douglas Smith and Richard Dorian on the ground at Univ. of Minnesota Airport (also Zuckert). Flight crew saw the first object, brightly glowing with a dark underside and halo around it appearing to be SE of UM Airport. Object arrived high and fast traveling E to W at about 5°/sec angular velocity (using fix point of windshield divider for stable reference), then slowed and made slow climbing circles "like falling oak leaf inverted" for about 2 mins, and finally sped away to the E with rapid acceleration. Reported by radio to and confirmed by ground observers Smith and Dorian at Univ. of Minn. Airport using a theodolite, of a cigar-shaped object seen only in brief glimpses due to high angular speed as it sped across the sky. Soon they saw 2nd object (about 8:30 a.m.), traveling W to E. See previous day's sightings (above). (Sparks; Berliner; Saunders/FUFOR Index; McDonald)	5 mins + few secs	6		theodolite C. B. Moore
418.		Oct. 16, 1951. W of Whidbey Island NAS [S of Port Angeles?], Wash. (at 47°45' N, 123°30' W). 11:01 a.m. USAF pilots flying 3 F-94 fighters and USN ground personnel saw a round medium-grey object at high speed and high altitude, no sound. (Sparks; Project 1947; Saunders/FUFOR Index)	50 mins	4+		
419.		Oct. 18, 1951. 140 miles from Tsingtao, China over Yellow Sea (at 35°48' 38°48' N, 123°16' E). 3 a.m. [2:33 a.m.?] Gregory and other USN crew of PBM Mariner type BD-5 saw long orange-red conical flame change to white-orange. Airborne radar tracking [?]. (Sparks; Project 1947; Saunders/FUFOR Index)	16 mins			radar

420.		Oct. 21, 1951. 20 miles E of Battle Creek, Mich. (at 42°19' N, 84°55' W). 12:50 p.m. [10:25 a.m. CST?] Private pilot N. Manteris flying Navion aircraft (s/n N21424) at 4,000 ft saw a silver oval domed disc-shaped highly polished object closing at high speed on collision course at about 3,000 ft, pass underneath his plane, he turned 180° to pursue but it was gone. No trail or vents, upper surface had an indentation for a crown or dome. (Sparks; Project 1947; McDonald list; GRUDGE Rpt 1; NARCAP)	3-5 secs	1		
421.		Oct. 21, 1951. North Truro, Mass. 11:18-11:22 p.m. (EST) [1:30 and 9:30 p.m.?] (Sparks; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	4 mins + 2 mins			
422.		Nov. 2, 1951. E of Abilene, Texas. 7:15 a.m. Crew of American Airlines DC-4 flying Los Angeles to Dallas, at 4,500 ft, saw a bright green projectile-shaped object, about same size as DC-4, streak past at about same altitude and same E heading. Object left trail then exploded, shooting red balls of fire in all directions. Green fireball sighted in Ariz., NM, Texas, Okla. Radiant about 3.5 hrs RA, 0 Dec (Taurid fireball? 3.5-4 hrs RA, +13° to +22° Dec.). (Sparks; LIFE Incident 10?; Saunders/ FUFOR Index?; Keyhoe 1955, pp. 92-93)		165+		
423.		Nov. 2, 1951. 30 (35?) miles N of Mojave, Calif. (35.06° N, 118.16° W). 11 p.m. Bromley and another forest observer in a canyon saw a 30 ft disk-shaped flying object in the SW, 10 ft thick, blue-green, well-defined, surrounded with a glow of same color. Stopping their jeep, they signaled to the object, which approached within 10 [?] ft, flew away, seemed to play with them, vanished "like a magician's trick." (Vallée Magonia 85; Saunders/FUFOR Index)		2	120 ?	
424.		Nov. 18, 1951. Washington, D.C. 3:20 a.m. Crew of Capital Airlines Flight 610 and Andrews AFB senior air traffic controller Tom Selby saw an object with several lights, follow the DC-4 for about 20 mins [miles?] then turn back, with ground radar tracking [?]. (Sparks; Berliner; Saunders/FUFOR Index)	20 mins	2+		RV?
425.		Nov. 24, 1951. Mankato, Minn. (44.16° N, 93.98° W). 3:53 p.m. One of 2 USAF pilots flying P-51 fighters flying W at 25,000 ft, 210 knots IAS, Capt. William Fairbrother, saw a white 8 ft flying-wing-shaped object hovering then pass 100 ft over and 100 ft to the left of his fighter, he immediately turned 180° to follow but could not find object. (Sparks; Project 1947; NARCAP; Saunders/FUFOR Index)	6 secs?	1	8	
426.		Nov. 24, 1951. Coopersville (etc.), Mich. 5:24 p.m. (CST). Capital Airlines Flight 94 pilot and several ground observer(s) saw a large round object flying at 500-1,000 ft height at about 1,000 mph. Possible meteor fireball. (Sparks; Grudge Status Rpt 2; Project 1947; Saunders/FUFOR Index)	5-6 secs	7		
427.		Nov. 26, 1951. 25 miles E of Milwaukee, Wisc. (43.03° N, 87.93° W). 4:25 a.m. (CST). Capital Airlines DC-3 pilot Schroeder saw an orange ball of fire with blue tail	0.2 min	1		

		flying on a level trajectory. (Sparks; Project 1947; Saunders/FUFOR Index)				
428.		Dec. 1951. NW of Peru, Nebraska. 3 a.m. Mr. Barry from Lincoln driving to Indiana saw a blue light in the NW, vanish to the SE. He missed a turn, went back toward Auburn, when NW of Peru he saw an orange glow in the sky from a cauldron-shaped object on the ground, about 40 ft from the road. He stopped to examine the 30 ft diameter cast-iron object, with a row of 10-inch round windows 1 ft from the top, glowing orange; on the other side a blue flamelike glow. No noise, no sign of life or activity, no antenna or protrusion. Witness drove away. (Sparks; Vallée Magonia 86; Saunders/FUFOR Index)		1	80	
429.	1021	Dec. 7, 1951. Oak Ridge, Tenn. (at 35°56' N, 84°25' W). 8:15 a.m. AESS guard J. H. Collins in Tower #14 W of K-25 Gaseous Diffusion Plant, ORNL, [at about 700-800 ft MSL] saw a 20 ft square object, white-grey but not shiny, like a piece of canvas with no markings, to the NNW about 300 ft above ridge about 1 mile away [Blackoak Ridge, height about 1,000-1,100 ft MSL], fly vertically into the clouds at about 6,000 ft MSL and back again 300 ft above ridge, taking 30-40 seconds each time traveling at constant speed like that of conventional aircraft [roughly 100 mph at about 4,600 ft in 30-40 secs]. On second rise object climbed at 45° angle to the left and into the clouds then emerged out of the clouds diving straight down to 300 ft above ridge. Object circled slowly as it rose a third time at a 20° angle into the clouds again finally disappearing. Always kept broadside to witness. No sound or smoke. Report mistakenly treated as ground intrusion, thus GCI radar not alerted until 10:02 a.m., and F-47 fighters dispatched found nothing. (Sparks; BB Maxwell Microfilm Roll 9, pp. 640-4; Berliner; Saunders/FUFOR Index)	2 mins	1		
430.	1023	Dec. 7, 1951. Sunbury, Ohio. 4:30 p.m. Amateur astronomer Carl Loar saw a silvery sphere through telescope; 2 specks sighted at sides, object seemed to explode was then replaced by a dark cloud and many specks. (Sparks; Berliner)	30 mins	1		telescope
431.		Dec. 12, 1951. 5 mi SE of Hastings, Minn. 3:50 p.m. (CST). USAF 133rd FI Wing pilot Donald K. "Deke" Slayton [future NASA astronaut] flying F-51 fighter at 10,000 ft at 280-300 mph heading [NW] back to Wold-Chamberlain Field, Minneapolis, Minn., saw a 1-1/2 to 2 ft white (or gray) object off his left wing about 1 mile away and 1,000 ft below flight level [about 10° below local horizon or 8° below earth's horizon] at (about 8 o'clock position) looking like a kite at first, then like a weather balloon then 2 rapidly counterclockwise revolving discs overlapping with centers about 1 ft apart. He went into left 180° turn to intercept, approached to about 1,500 ft [heading SE] with object at about 1 o'clock (level ?) position, object accelerated to about 380-400 mph turning to the left, Slayton made 30° bank to turn left with object, but object outpaced him on the outside of turn [heading roughly SW at end of turn], changed appearance to look	3-4 mins	1 [several?]	1/6	future astronaut Deke Slayton; possible independent sighting by research balloon crew

		like a single object, then it made a sudden 45° climbing left turn, accelerated and disappeared. In 1980 Slayton estimated angular size as grapefruit at arm's length or about 11° but size/distance data indicate about 0.1°. Wing Intell ofcrs told Slayton a balloon research team [General Mills] sighted the same or similar UFO near a large balloon [Skyhook?] launch. (Sparks; Maxwell Microfilm Roll 1, pp. 537-8, 563-4, Roll 9, pp. 660-5; BB Grudge Status Rpt. 2, pp. 3-4, Rpt. 3, pp. 5-6; Project 1947; Richard Haines; etc.)				
432.	1011	Dec. 18, 1951. Andrews AFB, Washington, D.C. Civilian pilot. [Nov. 18, 1951, case??] (Sparks; NARA)		1?		
433.		Dec. 22, 1951. 5 miles E of Columbus, Ohio. 10:30 a.m. (EST). USAF F-84C pilot with 166th FI Sq saw an aircraft without a tail rolling on its longitudinal axis. (Sparks; McDonald list; GRUDGE Rpt 3; Project 1947; Saunders/FUFOR Index)	1+ min	1		
434.	1013	Dec. 24, 1951. Mankato, Minn. Military witness(es). [Nov. 24, 1951, case??] (Sparks; NARA)				
435.		Jan. 1952. Weston, Wyoming. 10:30 p.m. 38-year-old rancher saw a "shooting star" suddenly stop in mid-air between him and a mountain, spinning clockwise, with one red window periodically facing the observer, went down toward the Little Powder River, come up again. He turned his car to send light signals, object seemed to respond by stopping its red window to face witness. Spinning resumed, object rose and came down. Similar object arrived, then both went into the deep valley out of sight. (Sparks; Vallée Magonia 88)		1		
436.		Jan. 20, 1952. Fairchild AFB, near Spokane, Wash (at 47.62° N, 117.67° W). 7:20 p.m. 2 M/Sgts. in Intelligence saw a large bluish-white spherical object with long blue tail in the E about 2 miles away traveling N on a horizontal path below and seen against solid overcast cloud cover at 4,700 ft, speed later estimated at 1,400 mph, no sound, disappearing in the W. (Sparks; Ruppelt pp. 12-3; Saunders/FUFOR Index)	15 secs	2 [3?]		
437.		Jan. 22, 1952. E of Nenana, Alaska (64°35' N, 149°20' W). 12:20-2 ? a.m. (AHST). USAF Lt. A. L. Boyd, Jr., a CPS-6B radar operator at ADC radar site F-2 with CPS-6B radar, Murphy Dome AFS (about 19 miles WNW of Fairbanks), Alaska, tracked an inbound or outbound target at 210° azimuth at about 1,500 to 2,400 mph, and after 10-12 radar sweeps 12 secs each, urgently called twice (at 12:25 and 12:26 a.m.) for interception, and 2 USAF F-94 jets were scrambled [possibly multiple reversals of UFO direction in this time interval]. At 12:52-53 a.m., unidentified target was tracked inbound at 210° azimuth heading N at 45 miles range for about 1 min, first F-94 at 30,000 ft was vectored on 180° heading to attempt intercept at 20 miles projected range of target to radar site, but target reversed course over an 8-mile radius of turn (roughly 5 g's) and headed outbound at 1,500+ mph heading S and away from radar site and F-94. Pilot Lt. C. E. Garrett and radar observer Capt. V. D. Ramey on first F-94 tracked two targets, one strong one faint on APS-33	6? mins + 1 min + ? + 2-3 mins	6+		ground and airborne radars

		airborne radar, at 25,000 ft altitude range 24,000 yards at 40° to the right (220° azimuth) rapidly crossing over to the left to disappear at range 200 yards 55° left of heading, closure rate too rapid to follow by hand control of antenna and unable to lock on. F-94 circled for an hour before getting another target at 12 o'clock low, dropped to 25,000 ft with 100-knot closure rate, no visual contact, had to pull up at 200 yards distance to avoid collision, F-94 released to return to base at 2:13 a.m. Pilot Capt. R. B. Peterson of another F-94, from Galena AFS, during this time also obtained radar lockon to a target at 12 o'clock high at 17,000 yards range for 2-3 mins. (Sparks; Maxwell BB Microfilm Roll 9, pp 817-9; BB Status Rpt 7; McDonald files; Jan Aldrich; Saunders/FUFOR Index; cf. Ruppelt)				
438.		Jan. 21, 1952. 3 miles ESE of Mitchel AFB runway 30, New York (40.73° N, 73.59° W). 9:50 a.m. (EST). USN pilot Lt. James R. Zeitvogel, USN Special Devices Center, Long Island, flew USN TBM-3W bomber heading 45° (NE) at 160 knots (200 mph) at 6,000 ft shortly after takeoff from Mitchel AFB, sighted a 20-30 ft white circular domed or parachute-shaped, with parachute-like segmentation and dark underside, about 1/3 ratio thickness to diameter, which appeared to be about 1-1/2 miles to the WNW or half way between TBM and end of runway 30 at Mitchel AFB, silhouetted against the ground at a depression angle of about 45° at a very low altitude of 200-300 ft (consistent with ground range of 1-1/2 miles from TBM at 6,000 ft height). Pilot then chased object which was at first traveling about 300 knots (350 mph), by turning left in the TBM in a sharp 2-3 g turn, having to bank at almost 90° to see the low altitude object about 1-1/2 mins into sighting when TBM about completed 360° turn, object cutting on inside of TBM's turn apparently accelerating. Object at about 2 mins into sighting started climbing in altitude while still accelerating, disappearing suddenly not due to distance about 7 miles to the SW at 500+ knots (600+ mph) and about 10° above TBM's horizontal level. (Sparks; GRUDGE Rpts. No. 3, p. 8, No. 4, pp. 9-11ff.; Project 1947; NICAP)	2-1/2 mins	1	1/3 to 1	
439.		Jan. 29, 1952. 30 miles SW of Wonsan, South Korea. 11 p.m. USAF crew of B-29 flying at above 20,000 ft and 148 knots (170 mph) ground speed saw an orange luminous rotating and pulsating 3 ft sphere [or disc?], with blue flame halo, follow the B-29 at a distance of about 600 ft at the 8 o'clock position advancing forward to 9 o'clock then falling back to 8 o'clock [at one point almost withdrawing from view then returning?]. (Sparks; LIFE Incident 9; Project 1947; Loren Gross)	5 mins [1 min?]	3	1/2	
440.		Jan. 29-30, 1952. Sunchon, South Korea. 11:24 p.m. USAF crew of B-29 at 20,000 ft and 125 knots (144 mph) ground speed saw an orange sphere follow the B-29 at their level or slightly below [sun-like in brightness and 600 ft away?]. (Sparks; LIFE Incident 9; Project 1947; Loren Gross)	1 min [5 mins]	2+		
441.		Feb. 1, 1952. 10 miles W of Terre Haute, Indiana. 9:30 p.m. Military aircraft pilot saw a close group of moving		1		

		lights changing color from blue to green to yellow. (Sparks; Project 1947; BB files??)				
442.		Feb. 2, 1952. About 40 miles E of Pusan, South Korea (at 35° 0' N, 129°40' E). 10:30 and 10:40 a.m. Radar track of 767 mph unidentified target. 2nd track from position 35°30' N, 129°40' E, at 10:40 of 1,257 mph unidentified target. (Sparks; Jan Aldrich)				radar
443.		Feb. 2, 1952. E of South Korea (at 37°44' N, 130°30' E). 7:35 p.m. USS Philippine Sea heading S 180° at 13 knots (15 mph) tracked approaching radar target from the N 0° azimuth at 25 miles, veered off in a wide left turn to the E radius about 12 miles (when visual observers spotted exhaust trails), reversing course on radar away from the aircraft carrier accelerating from 600 mph to 1800 mph at 52,000 ft altitude, split into 2 targets 5-12 miles apart on a slightly zigzag wavy course headed due N 0° to disappearance at about 110 miles. Visual observers sighted 3 exhaust flames at 30° azimuth [?]. (Sparks; Hynek UFO Rpt pp. 126-8)	10 mins ?	4+		RV
444.	1052	Feb. 11, 1952. Pittsburgh, Penna. (40.44° N, 79.97° W). 3 a.m. USAF Capt. G. P. Arns and Maj. R. J. Gedson flying a Beech AT-11 trainer saw a yellow-orange comet-shaped object pulsing flame for 1-2 secs in straight and level flight. (Sparks; Berliner)	1 min	2		
445.		Feb. 12, 1952. Bet. Friendship Airfield and Baltimore, Maryland. 9:30 p.m. USAF MATS C-47 pilot and copilot saw a bright white object move slowly then speed away. Then at 10 p.m. they saw 10 miles S of Baltimore a similar object. (Sparks; GRUDGE/BB Rpt; Saunders/FUFOR Index)	2+ mins	2		
446.		Feb. 13, 1952. Granite City, Illinois (38.73° N, 90.14° W). 10:30 p.m. Radar. (Sparks; McDonald list; BB Rpt 6)				radar
447.		Feb. 16, 1952. About 60 miles E of Pusan, South Korea (at 35° N, 130° E). 2:40 and 3:50 p.m. USMC GCI Sq 3 at Yongil (36° N, 129° E) CPS-5 radar tracking of unidentified target traveling at 4,320 knots (5,000 mph). 2nd track at 3:50 at position 36°30' N, 129°30' E (a few miles off the coast of South Korea) of large target equivalent of 6-8 jet aircraft, traveling 1,380 knots (1,600 mph) target heading 170°, faded momentarily, then continued on 120° heading until lost. Visual sighting of contrail in direction of radar track. (Sparks; Jan Aldrich; McDonald files; Saunders/FUFOR Index)				radar
448.		Feb. 17, 1952. 25 miles SE of Roswell, New Mexico (at 33°15' N, 104°10' W). 1:45 a.m. (MST). USAF crew of B-29 bomber saw 3 ft [?] greenish-blue ball of fire flying straight at 15,000 ft. (Sparks; Project 1947)				
449.		Feb. 20, 1952. Mt. Diablo, Calif. 11:30 p.m. USAF pilot Montgomery and copilot of B-25 bomber saw bright yellow light on collision course climb and accelerate. (Sparks; Project 1947; Saunders/FUFOR Index)		2		
450.	1061	Feb. 23 [24?], 1952. Sinuiju [Antung?], North Korea (40° 4' N, 124° 25' E). 10:15 [11:15?] p.m. USAF 345th Bomber Sq Captain/B-29 navigator saw a bluish cylinder,	45 secs	1?		[radar?]

		3x long as wide, with a tail and rapid pulsations, come in high and fast, make several turns and level out under B-29 which was evading mild antiaircraft fire. (Sparks; Berliner; Saunders/FUFOR Index)				
451.		Feb. 27, 1952. Ft. Stockton, Texas. B-29 and radar. (Sparks; McDonald list; BB Rpt 5)				radar
452.		March 4, 1952. 15 miles W of Ashiya AFB, Japan (at 33°53' N, 130°40' E). 10:35 a.m. USAF C-54 crew with 53rd Troop Carrier Sq saw a bright orange oval object at 10,000 ft. (Sparks; Project 1947; Saunders/FUFOR Index)	< 2 mins ?			
453.		March 7, 1952. Bet. Claremore and Tulsa, Okla. 1 a.m. USAF copilot of C-54 transport saw a bright light pass from right to left, lose altitude and blink out 3 times. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
454.		March 15, 1952. Sandia Mtns. [Kirtland AFB?], New Mexico. 4:30 p.m. (MST). (Sparks; McDonald list; BB Rpt 7)	5 mins			
455.	1074	March 20, 1952. Centerville (Queen Anne's County), Maryland. 10:42 p.m. CIA clandestine employee [OPC?] who was WW1/WW2 Army veteran and pilot with extensive flight experience, A. D. Hutchinson, and son (Hutchinson Jr.), saw a dull orange-yellow saucer-shaped light, lighting looking like that of old-fashion light-bulb and about 2-3x size of aircraft wing light [or about 4-6 ft?], fly straight and level very fast from SW to SE about half way between horizon and zenith [or roughly 30° to 45° elevation], possibly about 5 miles away [better estimate about 1 mile], then made 2 sudden vertical jumps on order of 2° upwards each jump, jumps being like a "basketball bounce," before disappearing behind trees. No sound. (Sparks; BB Maxwell Roll 9, pp. 1097 to 1100; Berliner; Randle)	30 secs	2	1/3 ??	CIA
456.	1076	March 23 [22?], 1952. 20 miles S of Yakima, Wash. 6:56 and 7 [6:05? 6:33?] p.m. USAF pilot and radar operator of F-94 jet interceptor made 2 sightings of a stationary red fireball that increased in brightness then faded over 45 secs. Note: Project Blue Book Status Report #7 (May 31, 1952) says target was also tracked by ground radar at 78 knots (90 mph) at 22,500 ft and 25,000 ft altitude. (Sparks; Berliner)	45 secs x 2	3+ ?		RV ground and air radars
457.	1077	March 24, 1952. 60 miles W of Pt. Conception, Calif. 8:45 a.m. [p.m.?] B-29 navigator and radar operator Hancock tracked unidentified target on airborne radar at about 3,000 mph. (Sparks; Berliner; Shough; Randle)	20-30 secs	2		radar
458.	1082	March 29, 1952. 20 miles N of Misawa AFB, Japan (40°42' N, 141°23' E). 11:20 a.m. Lt. David C. Brigham, pilot of AT-6 trainer, saw a small, very thin, shiny metallic disc fly alongside the AT-6, then make a pass at an F-84 jet fighter, flip on edge, flutter 20 ft from the F-84's fuselage and flip in the slipstream. (Sparks; Berliner; Saunders/FUFOR Index)	10 secs	1?		
459.		March 29, 1952. Elizabethville, Belgian Congo. Two fiery discs were seen over uranium mines gliding in curves, changing orientation many times thus appearing as		many		

		plates, ovals and lines. Discs suddenly hovered then took off in a zigzag to the NE. Commander Pierre of Elizabethville airfield took off in a fighter aircraft in pursuit and came within 120 meters (400 ft) of one disc. (Sparks; McDonald files; Jan Aldrich)				
460.		March 29 [April 24?], 1952. Glen Burnie, Maryland. 10:45 p.m. Donald F. Stewart [Steward?] and George Tyler III saw 50 ft flat silver disc with cupola/dome to one side, a porthole and hatch on the dome, neon-like lighting around the edges [strangely pulsating?], approaching car from ahead to the NE about 60° elevation, then hovered and "wavered slightly" for 3 [2?] mins several hundred feet off the ground, whirring sound like a vacuum cleaner, car engine died while object hovered. Witness got out of car with Thompson submachine gun considering whether to shoot the disc, companion urged him not to. Object suddenly turned up on edge seeming to "roll across the sky" faster than a jet to the SW disappearing about 3-1/2 miles away. Witness claimed car wires "magnetized" and paint cracked. Secy. AF Finletter interest, AFOSI investigation. Hoax? (Hynek UFO Rpt pp. 196-8; Jan Aldrich; Saunders/FUFOR Index; Loren Gross Jan-May 52 p. 75)	3 mins +	4	10-20 ?	EM
461.		April 3, 1952. Marana, Ariz. 8:15 [8:23-9:15? MST] a.m. Pilot of T-6 aircraft and 6 pilots on ground saw a bright aluminum shiny oblong object above 54,000 ft. (Sparks; Project 1947; Saunders/FUFOR Index)	52 mins	7 [4?]		
462.	1095	April 4, 1952. Duncanville, Texas (32°38.8' N, 96°54.3' W). 8:30 p.m. (CST) USAF Cpl. Billy D. Greer and PFC John W. Harrington of the Radar Maintenance Section, 147th AC&W Sq, tracked unidentified target by FPS-10 radar first to the NW at 310°-315° azimuth at about 70 nautical miles (80 miles) moving at high speed of about 2,160 knots (2,500 mph) until it disappeared off scope at maximum range of 260 n.mi. (300 miles). Height-finder reading not taken, estimated at 42,000+ ft due to radar beam coverage at max range. (Sparks; BB Maxwell Microfilm Roll 9, pp. 1288-9; BB Rpt 71 Jan Aldrich; Saunders/FUFOR Index)	5+ mins	2		radar; radar maint personnel
463.	1096?	April 5, 1952. Phoenix [Glendale?], Ariz. (33.45° N, 112.05° W). 10:40 a.m. Mr. and Mrs. L. G. Ryan, R. L. Stokes, and D. Schook saw a large, dull grey circular object, followed by 2 more, fly straight and level at high speed. (Sparks; Berliner)		4		
464.	1097	April 5, 1952. Miami, Florida (25.78° N, 80.21° W). 9:15 p.m. L. E. VanDercar and 9 year old son saw 4 dark circular objects with mostly fuzzy edges, cross the face of the Moon [in the S at 175° azimuth 77° elevation, 83% illuminated or almost full], each 1/2 the angular size of Moon [one with a sharp leading edge and more plainly seen?]. (Sparks; Berliner; Randle)		2	1/2 (crossed face of moon)	
465.	1099	April 6, 1952. Temple (Draughan-Miller AFB), Texas (at 31°09'N, 97°24'30"W). 2:59 p.m. Herman L. Russell saw 50-75 greyish-white metallic disc-like shapes to the NNW about 30° – 40° elevation in random arrangement within a circular formation covering area of only 1 Full	3.5 mins	1	1 (whole formatio n)	

		Moon [hence each object probably <3 arcmins would have been too small to resolve disc-like details]. Objects would flash in unison every 12-15 secs for a period of 2 secs as if tilting on horizontal axis. After 2 mins cluster became less dense in the center and more dense at the outer rim. Formation estimated at distance of 15-25 miles [hence height about 50,000 ft] moved upwards in elevation by about 5° and laterally by 10° to 15° (direction not specified) until disappearing by fading into distance. [Possible shattered plastic fragments of Skyhook balloon fluttering in the sunlight.] (Sparks; BB Maxwell Microfilm Roll 9, pp. 1303-4; Berliner)				
466.		April 9, 1952. Bet. Shreveport and Barksdale AFB, Louisiana. 2:30 p.m. (CST). USAF C-46 crew [pilot and copilot] flying E at 90° heading at 9,000 ft saw a 30-40 ft cream color disc-shaped object ahead of the plane at about 4,000 ft, object reversed course heading E [but was overtaken by C-46 and passed under it ??], C-46 and object both [?] made 360° turns, object climbing into clouds at 12,000 ft at 200-400 mph. Similar sighting at 2:45 p.m. by another C-46 5-6 miles N of Barksdale AFB of an object disappearing on a N heading at 11,000 ft. (Sparks; BB Status Rpt 6; cf. NARCAP)		2?	1/2 ?	
467.		April 9-10, 1952. 6 miles W of Pecos [near Lackland AFB? 29.39° N, 98.61° W], Texas. 10:40 p.m. (CST). Bethune. (Sparks; Hynek UFO Rpt p. 43; Saunders/FUFOR Index)	5 mins (+ ?)			
468.	1108	April 12, 1952. North Bay CFS, Ontario, Canada (46.30° N, 79.46° W). 9:30 [11:30?] p.m. RCAF Warrant Officer E. H. Rossell, Flight Sgt. R. McRae saw a round amber object fly in from the S at 2x speed of F-86 at low level, stop, reverse direction, climb away at 30° angle. (Sparks; Berliner; Randle)	2 mins	2		
469.	1109	April 13, 1952. Moriarty AFS, New Mexico (35° 1'50" N, 105°49' 0" W, 6,700 ft MSL). 4:45 p.m. (MST). 4 USAF airmen of the 768th AC&W Sq ADC radar station, Staff Sgt. John R. O'Neal, A/1c David C. Miller, A/2c Earl O. Cormier, Airman Basic Charles E. Baker, saw silver disc-shaped (or egg-shaped) object to the E estimated altitude 40,000+ ft traveling very erratically at high speed, disappeared making a turn to the N due to its flatness in profile, then reappeared further N, then disappeared again in vertical dive, reappeared further S, and finally disappeared heading S. No trail, exhaust or sound. [CPS-5 radar tracking?] (Sparks; BB Maxwell Microfilm Roll 9, pp. 1368-1405; McDonald files; Jan Aldrich; BB Rpt 6; Saunders/FUFOR Index)	3-5 mins	4?		radar?
470.	1113	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)				
471.	1112	April 14, 1952. Memphis, Tenn. (35.14° N, 90.03° W). 6:34 p.m. U.S. Navy pilots Lt. jg. Blacky, Lt. jg. O'Neil flying on 18° (about NNE) heading at 2,000 ft over NAS Range Station saw to their left an inverted bowl glowing	45-60 secs	2	1	

		bright red, 3 ft long and 1 ft high, with vertical slots, approaching at high speed on 300° heading, straight and level at 2,000 ft, passing 300 ft from their aircraft and below overcast at 4,200 ft. [Red glowing exhaust trail?] (Sparks; Berliner; McDonald files; Jan Aldrich; cf. NARCAP; Randle)				
472.	1115	April 15, 1952. Santa Cruz, Calif. (36.97° N, 122.04° W). 7:40 p.m. Mr. Hayes [Hays?], brother of Master Sgt., saw 2 faint circular objects flying fast along the horizon through 20x spotting telescope. (Sparks; Berliner; Randle)	6-8 secs	1		telescope
473.		April 16, 1952. Shreveport, Louisiana (32.50° N, 93.76° W). 9:28 p.m. (CST). Senior USAF pilot Capt. E. Maths [Mathis? Matthis?]. Course reversing light. (Sparks; Willy Smith pp. 25-29; Saunders/FUFOR Index)	70 secs	1		
474.	1124	April 17 [13?], 1952. Longmeadow, Mass. 8:30 p.m. S. B. Brooks and chemical engineer J. A. Eaton saw a round, deep orange object fly fast and erratic, occasionally emitting a shaft of light to the rear. [Star color and shape??] (Sparks; Berliner; cf. Randle)	40 mins	2		
475.	1127	April 17 [18?], 1952. Yuma Test Station, Ariz. 3:05 p.m. (MST). Group of Army weather observation students, including several graduate engineers saw a flat-white, circular object flew with an irregular trajectory and a brief trail. (Sparks; Berliner)	7 secs [5-10 secs]	several [2?]		
476.	1128	April 18, 1952. Bethesda, Maryland (38.99° N, 77.09° W). 11:30 [1:30?] a.m. (EST). R. Poerstal [Parstel?], Mrage, Watkins and another man [Young?] saw 7-9 circular, orange-yellow lights in a 40° V-formation fly overhead silently from S to N in straight and level flight. (Sparks; Berliner; Saunders/FUFOR Index; Randle)	4-8 secs	4		
477.	1129	April 18, 1952. Corner Brook, Newfoundland, Canada (48.95° N, 57.96° W). 4 [3:30?] a.m. Janitor C. Hamilton saw a yellow-gold object make a sharp turn, leaving a short, dark trail. (Sparks; Berliner; Saunders/FUFOR Index)	1 min	1		
478.	1131	April 18, 1952. Corner Brook, Newfoundland, Canada (48.95° N, 57.96° W). 10:10 [9:40?] p.m. Reporter Chic Shave saw a round, yellow-gold object fly S [disappearing?] then return. Reporter had published article debunking subject of UFO's the day before. (Berliner; Saunders/FUFOR Index; Randle)	1.5 mins	1		
479.	1130	April 18, 1952. 50 miles NW of Kyushu, Japan (at 34°19' N, 129°51' E [34°30' N ?, 129°30'E ?]). 12:07 p.m. [9:07 p.m.?] A radar operator tracked unidentified target at 2,700 [2,100?] mph. (Sparks; Berliner; Saunders/FUFOR Index)	1 min	1		radar
480.		April 20, 1952. [Flint, Mich.? 43.00° N, 83.70° W?] 9:15-9:40 p.m. (EST?) Naval aviation student [Kohut ? Choot?], wife and several others at a drive-in movie saw about 20 groups of 2-9 aircraft-shaped objects fly over enveloped in a red glow, mostly on straight-line course, except for occasional standard aircraft-like turns. (Sparks; Battelle Unknown No. 2; Saunders/FUFOR Index)	25 mins [80 mins?]	several		
481.	1144	April 22, 1952. Naha AFB, Okinawa. 9 p.m. Crew of B-	10 mins	2+		

		29 bomber, on ground saw an elliptical object, about 2-3 ft long [?], followed by 2 then another 2, each with a white light that blinked every 1-2 secs as they performed erratic maneuvers. (Sparks; Berliner; Randle)				
482.	1147	April 24, 1952. Bellevue Hill, Vermont (at 40°30' ?? N, 72°15' ?? W [Atlantic]). 5 a.m. Crew of USAF C-124 transport plane saw 3 circular, bluish objects in loose “fingertip” formation, 2 flying parallel to the plane, all straight and level flight. (Sparks; Berliner; Project 1947; Randle)	3-4 mins [2+ mins?]	2+		
483.	1148	April 24, 1952. Great Blue Hill near Milton, Mass. (at 42°12.7' N, 71° 7.0'W, elev. 635 ft). 2:30 p.m. (EST) AF Cambridge Research Center, Radar Systems Lsb, Electronics Research Div, electronics engineers, Alfred P. Furnish and Herbert J. Brun, and MIT electrical engineering senior Joseph Page, were in an observation tower on top of Great Blue Hill saw to the NW 2 very thin flat, dull reddish orange squarish objects with no corners or “ovals pulled in at the waist” about 10-15 ft wide, with a lip around outer edges, fly wobbly in consistently undulating “swooping” motion in horizontal flight at about 2,000 ft altitude. Objects then climbed about 15° elevation at an estimated 240 mph, then flew away and disappeared due to distance. No trail or exhaust, no sound, visibility 70+ miles. [Unclear whether observers used 6x aircraft tracking telescope.] (Sparks; Berliner; Saunders/FUFOR Index; Loren Gross Jan-May 1952 p. 57)	1.5 mins	3		AFCRL-MIT elect engrs; telescope?
484.	1151	April 24, 1952. Clovis, New Mexico (34.40° N, 103.21° W). 8:10 p.m. USAF Flight Surgeon Maj. E. L. Ellis saw many orange-amber lights in a “blob” formation, sometimes separate, sometimes fused, behave erratically, varying speed from motionless to very fast. (Sparks; Berliner; Saunders/FUFOR Index; Randle)	5 mins	1		flight surgeon
485.		April 25, 1952. Rheim-Main AFB, [Darmstadt ?], West Germany. 9:20 [9:15?] p.m. 2 USAF C-47 pilots [Wisnieski ?] had near-collision with white circular object heading NW. (Sparks; Weinstein; Jan Aldrich; Saunders/FUFOR Index)	2 mins	2+ ?		
486.	1160	April 27, 1952. Roseville, Mich. (42.49° N, 82.93° W). 4:15 p.m. H. A. Freytag [Freitag?] and 3 male relatives, including a minister, saw an silver oval roll, [change shape?], descend and stop. 2 silver cigar-shaped objects appeared, one departing to the E, one to the W; 3rd silver cigar flew by at high speed. (Sparks; Berliner; Saunders/FUFOR Index; cf. Randle)	45 mins	4		
487.		April 27, 1952. Birmingham (NW of Detroit) [Pontiac 42.63° N, 83.31° W ?], Mich. 10:45-11:15 [10:06?] p.m. Family of 4 of Mr. [John ?] Hoffman in a car saw a brilliant white round-flat object with 2 tiers of windows descend from the NE, hover with rocking motion at about 15° elevation, stop and start at 100 mph drifting to NW. Witnesses pursued in car, lights went off and on 4 times changed color to white-orange, got 4 other witnesses, called police, <i>Detroit Times</i> newspaper and Selfridge AFB. Object disappeared over treetops to NW. [Same witness(es) as in May 25, June 18, 1952, cases??]	30 mins	8	2	

		(Sparks; Hynek UFO Rpt pp. 70-73; Saunders/FUFOR Index)				
488.	1163	April 27, 1952. Yuma, Ariz. (32.72° N, 114.62° W). 8:30 p.m. Off-duty control tower operator M/Sgt. G. S. Porter and wife saw bright red or flame-colored discs, appearing as large as fighter planes; 7 sightings of one disc, one of 2 in formation. All seen below 11,000 ft overcast. (Sparks; Berliner)	2 hrs total	2		
489.	1167	April 29, 1952. Marshall, Texas (32.54° N, 94.36° W). 3:30 p.m. (CST). Private pilot R. R. Weidman [Weedsman?] saw a round, white object fly straight, with a side-to-side oscillation. (Sparks; Berliner; Saunders/FUFOR Index)	1.5 mins	1		
490.	1168	April 29 [28?], 1952. N of Goodland, Kansas (at 39°38' N, 101°40' W). 10 p.m. (CST). B-29 bombardier Lt. R. H. Bauer saw a white fan-shaped light pulsing 3-4 times per second. (Sparks; Berliner; Project 1947)	2 secs	1		
491.		April 30, 1952. Moriarty AFS, New Mexico (35° 1'50" N, 105°49' 0" W). 7:40 and 7:46 a.m. (MST). CPS-5 radar tracking of 4,000 mph first target at 230° azimuth (about SW) at 149 miles range moving 11 miles per 10-sec sweep for 4 sweeps heading into the radar site. 2nd track at 7:46 a.m. of 4,000 mph target at 280° azimuth (about W) at 140 miles moving 11 miles per 10-sec sweep for 6 sweeps [toward the radar] until disappearing at about 70 miles range. (Sparks; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	30-40 secs + 60 secs	1+		radar
492.	1174	May 1, 1952. Moses Lake, Wash. (47.13° N, 119.29° W). 5:32 a.m. (PST). AEC employees Eggan and Shipley saw a silver object without wings fly straight and level. (Sparks; Berliner)	1.5 mins	2		
493.		May 1, 1952. Davis-Monthan AFB, Tucson, Ariz. 9:10 a.m. (MST). Base Intelligence Officer Major Rudolph Pestalozzi, M/Sgt. Edmund L. Bouton, Jr., and several others saw 2 shiny round 20-28-foot objects rapidly overtake then pace a B-36 in E-W flight at 20,000 ft at about 50° ±10° elevation, then depart at high speed, one object stopping to hover briefly, before disappearing, no sound, no trail. B-36 crew also saw objects and interrogated on landing. (Sparks; Case file was not missing, McDonald did not have a date or even the precise year.) (Maxwell BB Microfilm Roll 10, pp. 332-341; Hynek UFO Rpt pp. 109-112; Saunders/FUFOR Index)	3 mins	10+	1/10	
494.	1176	May 1, 1952. George AFB and Apple Valley, Calif. 10:50 a.m. (PDT?). 3 men on the arms range, plus Lt. Col. Lyle Albert Silvernail 4 miles away in Apple Valley saw 5 flat-white discs about the diameter of a C-47's wingspan [95 ft] or length of P-51 [32 ft] fly fast about 1,000 mph at about 4,000 ft height, make a 90° turn in a formation of 3 in front and 2 behind, and dart around. Silvernail reported the sighting and was told radar was tracking the object(s) and fighters were being scrambled. (Sparks; Berliner; NICAP)	15-30 secs	5+	2 ?	RV?
495.	1183	May 5, 1952. Tenaflly, New Jersey. 10:45 p.m. Mrs. M. M. Judson saw 6-7 translucent, cream-yellow objects, one		1		

		moved in an ellipse, others moved in and out. (Sparks; Berliner)				
496.	1185	May 7, 1952. Keesler AFB, Mississippi (30.42° N, 88.94° W). 12:15 p.m. (CST). Capt. Morris, a M/Sgt., a S/Sgt., and an Airman 1/c saw an aluminum or silver cylindrical object dart in and out of the clouds 10 times. (Sparks; Berliner)	5-10 mins	4		
497.		May 8, 1952. Atlantic, 600 miles E of Jacksonville, Florida (at 31°20' N, 70° W). 2:27 a.m. (EST?) Pilot Capt. Cent and copilot 1st Ofcr Gallagher of Pan Am Flight 203 flying DC-4 airliner at 8,000 ft on 180° heading from NYC to San Juan, Puerto Rico, saw brilliant white approaching from the left below the solid overcast at 10,000 ft. and streak by the left [?] wing at 1/8 to 1/4 mile, followed by 2 smaller orange balls of fire. (Sparks; NARCAP; McDonald list; Project 1947; Ruppelt pp. 133-4)	secs	2		
498.	1194	May 9, 1952. George AFB, Calif. 10:30 a.m. 2 USAF F-86 pilots (Crown and another) in the air and a witness on the ground saw a round silver object. (Sparks; Berliner; Saunders/FUFOR Index)		3		
499.	1194	May 9, 1952. George AFB, Calif. 5:20 [12:50?] p.m. USAF A/1c G. C. Grindeland saw a dull white, arrowhead-shaped object fly straight and level. (Sparks; Berliner; cf. Saunders/FUFOR Index)	10 secs [4 mins?]	1		
500.		May 10, 1952. Albuquerque, New Mexico. 2 [3?] p.m. (MST). USAF Lt. Col. M. G. B. and wife in the yard of their home saw 2 silvery disc-shaped objects one after the other moving SW to NE at above 20,000 ft, first object seeming to waver on axis or "flop over," 2nd object followed similar path but at higher altitude. Officer alerted radar station but unable to track object(s). (Sparks; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	5-10 mins + 10 mins	2		
501.		May 10, 1952. Paphos, SW Cyprus. 8:30 p.m. British scientist and others saw a luminous circular object rise from sea level, waver back and forth for an interval before fading from sight directly overhead. (Sparks; Jan Aldrich)				
502.	1198	May 10 [12?], 1952. New Ellenton, South Carolina. 10:45 [11:45?] p.m. 4 DuPont employees at the Savannah River AEC nuclear plant saw up to 4 yellow, disc-shaped objects on 5 occasions between 10:45 and shortly after 11:15. One object pulled up to avoid hitting ground objects [terrain?]. (Sparks; Berliner; Randle; Bruce Maccabee)	5 x ? [4 mins?]	4		
503.		May 11, 1952. George AFB, Calif. Grendilund. (Sparks; McDonald list; Saunders/FUFOR Index)				
504.		May 13, 1952. George AFB, Calif. 1:55 p.m. (PST). T-6 case. [Same as May 14?] (McDonald list; Saunders/FUFOR Index)	30 mins	2		
505.		May 13, 1952. Greenville, So. Carolina. 10:33 p.m. (EST). Richardson and 3 other amateur astronomers set up telescopes at dark area of Furman University when they saw a diamond formation of 4 oval reddish-yellow or reddish-brown luminous objects nearly overhead and disappeared after 3 secs motion through 12° arc [or at 12°	3 secs	4	4	

		elevation?]. Apparent size of half dollar at arm's length, 1/4 turned and wobbling in flight. (BB Status Rpt; Saunders/FUFOR Index)				
506.		May 14, 1952. George AFB, Calif. 1:05 p.m. (PST). [Same as May 13?] (Sparks; McDonald list; Saunders/FUFOR Index)	25 mins	2		
507.	1213	May 14, 1952. Mayaguez, Puerto Rico. 7 p.m. Attorney and ex-USAF pilot Mr. Stipes and Sr. Garcia-Mendez saw 2 shining orange spheres: one was stationary, while the other darted away and back for 30 mins. (Sparks; Berliner)	30 mins	2		
508.		May 15, 1952. S of Changsong-ni and N of Nangnim Mountain, North Korea. 11 a.m. USAF Lt. McCarthy and another pilot flying two F-86E jets, 51st Fighter Interceptor Wing, 25th FI Sq, at 30,000 ft, airspeed 500 knots, on 280° heading. Sighted a silvery oval-shaped object larger than a MiG jet airplane at 9 o'clock position below, to the S, at estimated altitude of 8,000-10,000 ft, about 1,200-1,500 mph, and about 20 miles away. Object on S to N straight flight path in a "rolling maneuver," disappeared at about 3 o'clock position to N. (Sparks; Jan Aldrich)	3-5 secs	2		
509.		May 15, 1952. S of Changsong-ni and N of Nangnim Mountain, North Korea. 6:35 p.m. USAF F-51 fighter pilot of 18th Fighter Bomber Group flying F-51 at 9,000 ft on 180° heading at 240 mph sighted 50 ft diameter silver object at 1 o'clock position moving to 3 o'clock at 1,000 mph at about the same altitude, which then started a steep climb, but at the top of the loop the object resumed a horizontal course (heading 360° or N) wavered momentarily, descended and disappeared into the haze which reached an altitude of about 7,000-8,000 feet. (Sparks; Jan Aldrich)	15-25 secs	1	4 - 6 ?	
510.		May 15, 1952. Georgetown, Washington, D.C. 10:25 p.m. (EST) [9:35? 9:50? p.m. EDT?] USN Lt. H. W. Taylor and Lt. P. G. R. and two girls saw soft golden glowing oval object on straight level path heading S moved through 70° arc. (Sparks; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	10-15 secs	5+		
511.		May 19, 1952. 30 miles SW of San Angelo, Texas (at 30°37' N, 100°47' W). 8:05 [7:46?] p.m. (CST). USAF 31st Strategic Recon Sq pilot and crew of RB-36 flying at 18,000 ft on a 301° heading at 214 mph TAS, Capt. Gerard A. Sharrock, Capt. Jack L. Bailey, Capt. Bernice O. Bowers, 1st Lt. Constantine G. Kollinzas, 2nd Lt. Norman V. Stewart, S/Sgt. John J. Fisher, S/Sgt. William O. Warr, A/1c Robert Schick, saw 7 bright white circular or doughnut shaped white contrails, like lenticular clouds, stacked vertically about 10°-20° elevation estimated distance 50-75 miles height ranging from 25,000 to 60,000 ft about 1 mile wide. Sighted through 6x binoculars and photographed in 6 frames with 35 mm camera by Bailey, also seen by radar station ground observer alerted by radio. Contrails persisted for at least 15-20 mins possibly 1 hr. Last seen when RB-36 was at 30°53' N, 101°20' W. (Sparks; Jan Aldrich)	15-20 mins	9		

512.		May 20, 1952. George AFB, Calif. 1:25 p.m. (PST). (McDonald list; Saunders/FUFOR Index)	5 mins			
513.	1219	May 20, 1952. Houston, Texas. 10:10 p.m. USAF pilots Capt. J. Spurgin and Capt. B. Stephan [Steven?] saw a bright or white [orange-white?] oval object move from side-to-side while making a gradual turn [towards them?]. (Sparks; Berliner; Saunders/FUFOR Index; Randle)	90 secs	2		
514.		May 22, 1952. Falls Church [or Alexandria], Virginia, (at 38°52' N, 77°10' W). Bet. 1 and 2 a.m. Top CIA official and several dinner guests, including a retired general, noticed noiseless red light approach from W at about 5,000 ft then suddenly climb almost vertically in the SE, stop, level out for a few secs, go into near vertical dive, level off, disappear to the E. (Sparks; Ruppelt pp. 135-6; BB Status Rpt 7; Jan Aldrich).		6+		CIA
515.		May 23, 1952. Kirtland AFB, Albuquerque, New Mexico, at 35° 2.9' N, 106°32.6' W. 4:00-4:45 p.m. (MST). USAF CO of 135th AC&W Sq ADC radar site, Lt. Col. Orlando W. Stephenson Jr., and other staff of radar site, Senior Director Lt. William J. Hopkins, Capt. Clarence R. Holloway, Lt. Edwin G. Kenyon, Philco radar tech rep John B. Cooper, and at least one other witness (door guard), saw a silvery or aluminum color flat on the bottom, slightly rounded on top, the highest part off center to the left, in the W at 268° azimuth 2° elevation at an estimated height of about 1,000-3,000 ft at 10-20 miles distance, seen through transit telescope, 7x 50mm binoculars and possibly theodolite [?]. Object reflected sunlight at varying irregular intervals of brightness for 3 secs to 2-3 mins and then dark or invisible for similar periods, headed to the right descending below the horizon at 271° azimuth about 0° elevation. Radar and 93rd FI Sq F-86D fighter interception unsuccessful. (Sparks; Jan Aldrich)	45 mins	6+	1/50 ? (0.1° equiv in binocs, telescope ?)	transit telescope, binoculars, (theodolite ?)
516.		May 24, 1952. Zuni, New Mexico. 1:27 a.m. Pilot of TWA airliner Brass saw 2 reddish torpedo-shaped objects appear in front of the aircraft. (Sparks; Project 1947; Saunders/FUFOR Index)	18 secs	1		
517.		May 25, 1952. Randolph AFB, Texas. 9:27 p.m. (CST). USAF navigator in charge of navigation section of Combat Crew Training School, Capt. J. S. J., his wife, and pilot Lt. P. H., saw a group of about 12 orange-white tear-drop shaped lights, points forward, in 3 groups of 4 objects moving from W to E at high speed 2,000 mph at 10,000 ft at 70° elevation. Heard deep soft intermittent noise. (Sparks; McDonald files; Jan Aldrich; cf. Ruppelt p. 140; Saunders/FUFOR Index)	3 secs	3		
518.	1227	May 25, 1952. Walnut Lake, Mich. 9:15 p.m. John Hoffmann, family, friends [and others?] saw and followed in their car a large white [white-yellow-orange?] circular object having dark sections on its rim, fly straight and level, appearing red when behind a cloud. [Same witness(es) as in April 27, June 18, 1952, cases??] (Sparks; Berliner; Randle)	30 mins	7		
519.		May 26, 1952. W or NW North Korea. 3:20 a.m. (local). USAF 319th FI Squadron pilot 1st Lt. John W. Martin and	~7 mins	3+		RV ground and air

		<p>radar observer 1st Lt. Edward A. Monard, flying N to S from an intercept mission near the front lines of the Korean War in an F-94C jet fighter at 2,500 ft altitude saw an unidentified brilliant white or blue light above them and in front. F-94 made about 7 passes in an attempt to identify the light, first to within 600 ft distance and then succeeding passes at different cardinal directions to within 50 ft range but could not see a shape due to the brightness of the light and airborne radar could not detect object. [Possible balloon since passes occurred over 5 mins as altitude increased to about 7,000-7,500 ft or at roughly standard weather balloon rise rate of 1,000 ft/min.] At 3:25 a.m. ground radar site "Bromide" told F-94 there was an unknown target on their tail, and F-94 radar observer visually sighted an aircraft behind them, while pilot saw that the original bright light was still visible too. Pilot turned right to come around behind the new target and radar observer detected on airborne APG-33 radar and locked on the object nearly dead ahead and slightly above at about 5°-10° elevation, range 7,000 yards, overtake speed 50 knots, F-94 at 250 knots and 7,000-7,500 ft altitude now heading NE [after ~50 secs of sharp turn]. Pilot went into shallow climb, closing range to object to 6,000 yards [after ~35 secs] when object started to rapidly pull away. F-94 went on afterburner [to ~500 knots] while object steadily accelerated in shallow climb to high speed [peak velocity of ~6,700 mph at about 21 g's] in 14 secs increasing range from 6,000 yards to 24,000 to 26,000 yards, till breaking radar lock, while F-94 accelerated on afterburner from 250 knots [to roughly 500? Knots], and object evidently still being tracked by ground radar site "Bromide." No visual contact made with object, no exhaust observed, no evasive maneuvers other than high acceleration. Flight crew timing was calibrated afterwards and found to be about ±2 secs in 60 secs or about ±0.5 sec in 14 secs. (Sparks; Weinstein; Saunders/FUFOR Index; NICAP)</p>				radars
520.	1232	May 28, 1952. Saigon, French Indo-China (10°46' N, 106°43' E). 10:30 a.m. Many in crowd watching a ceremony saw a white-silver disc-shaped object fly straight and fast. (Sparks; Berliner; Randle)	2 mins	many		
521.	1233	May 28, 1952. Albuquerque, New Mexico. 1:45-2:40 [1:30?] p.m. (PST). City fire department employees Romero and Atterbury saw 2 circular objects, one shiny silver and the other orange or light brown, come in from the NE at high speed, stop to circle, 3 times performing fast maneuvers, then climb out of sight. (Sparks; Berliner; Randle)	55 mins	2		
522.	1233	May 28, 1952. E of Albuquerque, New Mexico [and Okla. ?]. 8:10 [8:20? 8:40?] p.m. (MST). USAF crews of 5 B-29 bombers saw green spherical objects [fireballs?]. (Sparks; Project 1947; Saunders/FUFOR Index)		5+		
523.		May 29, 1952. S of Florida Keys, U.S. 5-5:30 p.m. Vickers electronics engineer aboard USS Oriskany aircraft carrier CV-34 headed S to Cuba was alerted by radar officer that there were two saucers in the sky. Using the	15-20 secs	2+	½ ?	RV, telescope

		ship's telescope on the navigation deck he observed the two elliptical outlines with a bubble on top of each, leaving white vapor trails, estimated at 10,000-15,000 ft altitude in the W about 30°-40° above horizon traveling supersonic headed S, larger than jet fighters (50 ft) possibly as large as flying wings (200 ft). AFOSI report sent to BB but not found in BB files. (Sparks; AFOSI BB NARA Microfilm Roll 90, pp. 1166-7)				
524.	1236	May 29, 1952. San Antonio, Texas. 7 p.m. USAF pilot Maj. D. W. Feuerstein [Weinstein?], on ground, saw a bright tubular object tilt from horizontal to vertical for 8 mins, then slowly return to horizontal, again tilt vertically, accelerate, appear to lengthen and turn red. (Sparks; Berliner; Saunders/FUFOR Index; Randle)	14 [8?] mins	1		
525.		May 30, 1952. Japan Sea, S of Oshima island, Japan (at 34°15' N, 139°30' E). 7 p.m. 3 USAF crew members of C-54 transport plane saw a round black object first motionless then moving rapidly to the W. (Sparks; Project 1947; Saunders/FUFOR Index)	5+ mins	3		
526.		May 31, 1952. S of Chorwon, South Korea (at 37°55' N, 129° 7' E). 3:45-55 a.m. Bright object to NE fell from about 3,500-3,600 ft to 2,000-2,600 ft height then ascended to 3,000-4,000 ft, headed E about 1/2 mile with jerky motion, stopped, reversed coursed to NE again at a speed of about 100-150 mph, reversed again heading E, climbed at 25° angle increasing to 45° angle away in 3-4 secs accelerating with jerky motion to disappearance. Second guard at different location Post 6 saw same but also heard "pulsating sound" and saw disc shape. Duration 2 mins. At about 3:50 a.m. 319th FI Sq F-94 interception of white-bluish round object on airborne radar for 9 mins at 500 mph at 6,000 ft height heading 90° initially, maneuvering down to 1,000 ft then up to 28,000 ft. disappearing on 45° heading. (Sparks; Hynek UFO Rpt pp. 87-90; Project 1947)	9 mins	3+		RV
527.	1243	June 1, 1952. Rapid City, South Dakota. 6 p.m. USAF A/1c Beatty and two civilians. At least 5 long silver objects flew in a neat box formation with a leader. (Sparks; Berliner)	15-20 secs	3		
528.	1245	June 1, 1952. Walla Walla, Wash. 1 p.m. Ex-military pilot Reserve Maj. W. C. Vollendorf saw an oval object with a "definite airfoil" perform a fast climb. (Sparks; Berliner)	7 secs	1		
529.	1246	June 1, 1952. Soap Lake, Wash. >3 p.m. [?] Ray Lottman saw 3 glimmering objects fly straight and level. (Sparks; Berliner)	10 mins	1		
530.	1249	June 2, 1952. Bayview, Wash. 5:02 p.m. Larry McWade saw a purple object for unknown length of time. No further information in files. (Sparks; Berliner)		1		
531.	1250	June 2, 1952. Fulda, West Germany. Time unknown. 1st Lt. John Hendry, photo-navigator on an RB-26C recon bomber, saw a porcelain-white object fly very fast for an unknown length of time. (Sparks; Berliner)		1		
532.		June 4, 1952. Stuttgart, West Germany (48°47' N, 9°12' E). 7:30 p.m. USAF pilot and copilot of C-47 transport				

		saw a circular object with white lights on the leading edge. (Sparks; Weinstein)				
533.	1255	June 5, 1952. Lubbock, Texas. 11 p.m. Dan Benson and Mr. Bacon saw a total of 8 yellow circular objects, like large stars, the first 2 in a trail formation, the others seen singly. (Sparks; Berliner)	45 mins	2		
534.	1256	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)	6 secs			
535.	1257	June 5, 1952. Offutt AFB, Omaha, Nebraska. 11 p.m. 2nd Lt. W. R. Soper, a Strategic Air Command TOP SECRET Control Officer, former AFOSI agent; and 2 others saw a bright red stationary object for 4.5 mins before speeding away with a short tail. (Sparks; Berliner)	4.5 mins	3		
536.	missing	June 6, 1952. Kimpo AB, Korea. 8:42 a.m. Flight Sergeant saw cylinder-section flat disc-shaped object, width/diameter ratio 1:7, doing a series of erratic spinning and tumbling motions, level flight, hovering, shooting straight up, level flight, tumbling, changing course, disappearing into the sun in the E, reappearing back and forth across the sun. At one point an F-86 fighter passed in front of object. Case file missing. (Sparks; Battelle Unknown No. 7; Randle)		2+		
537.	1260	June 7, 1952. Albuquerque, New Mexico. 11:18 a.m. Crew of B-25 bomber #8840 at 11,500 ft saw a rectangular aluminum object, about 6 ft x 4 ft, fly 250-300 ft below them. (Sparks; Berliner)			2	
538.	1263	June 8, 1952. Albuquerque, New Mexico. 10:50 a.m. Mr. and Mrs. J. D. Markland saw 4 shiny objects fly straight and level in a diamond formation. (Sparks; Berliner)		2		
539.	missing	June 9, 1952. Minneapolis, Minn. Case file missing. (Sparks; Berliner; Randle)				
540.	1269	June 12, 1952. Ft. Smith, Ark. 7:30 p.m. U.S. Army Major and Lt. Colonel using binoculars saw an orange ball with a tail fly with a low angular velocity. (Sparks; Berliner)		2		binoculars
541.	1270	June 12, 1952. Marrakech, Morocco. 11:26 a.m. T/Sgt. H. D. Adams, using an SCR-584 radar set, tracked an unidentified target at 650 knots (750 mph) at 60,000+ ft altitude. (Sparks; Berliner)		1		radar
542.	1273	June 13, 1952. Middletown, Penna. 8:45 p.m. (EST). R. S. Thomas, Olmstead AFB employee and former control tower operator, saw a round orange object travel S, stop for 1 sec, turn E, stop 1 sec, and drop down. (Sparks; Berliner; Saunders/FUFOR Index)	10 mins	1		
543.	1285	June 15 [16?], 1952. Louisville [Boundsville?], Kentucky. 11:50 p.m. Edward Duke, ex-U.S. Navy radar technician, saw a large, cigar-shaped object with a blunt front, lit sides and a red stern, maneuver in a leisurely fashion. (Sparks; Berliner; Saunders/FUFOR Index)	15 mins	1		
544.	1295	June 16, 1952. Walker AFB, Roswell, New Mexico. 8:30 p.m. USAF maintenance specialist S/Sgt. Sparks saw 5-6 greyish discs, in a half-moon formation, fly at 500-600 mph. (Sparks; Berliner)	1 min	1		

545.	1299	June 17, 1952. Cape Cod, Mass. 1:28 a.m. USAF pilot of F-94 jet interceptor saw a light like a bright star cross the nose of the jet. No further information in the files. (Sparks; Berliner)	15 secs	1		
546.	1298	June 17, 1952. McChord AFB, Wash. Between 7:30 and 10:20 p.m. Many witnesses saw 1-5 large silver-yellow objects flying erratically, stop and start. (Sparks; Berliner)	15 mins	many		
547.	1302	June 18, 1952. Columbus, Wisc. 9 a.m. R. A. Finger saw a crescent-shaped object hover then speed away. (Sparks; Berliner)	several secs	1		
548.	1305	June 18, 1952. Walnut Lake [Pontiac], Mich. 10 p.m. Marron [Marion ?] Hoffman and 4 relatives, using 4x binoculars, saw an orange light zigzag then hover for an unspecified length of time. [Same witness(es) as in April 27, May 25, 1952, cases??] (Sparks; Berliner)		5		binoculars
549.		June 18, 1952. 100 miles E of March AFB, Calif. UFO paced a USAF B-25 bomber. (Sparks; Ruppelt p. 146; etc.)	30 mins			
550.	1308	June 19, 1952. Goose Bay, Labrador, Canada. 2:37 a.m. 2nd Lt. A'Gostino and unidentified radar operator saw a red light turn white while wobbling. Radar tracked a stationary target that suddenly enlarged then returned to previous size possibly a disc rotating to present wider reflective surface. (Sparks; Berliner; cf. Ruppelt p. 146)	1 min	2		RV
551.	1310	June 19, 1952. Yuma, Ariz. 2 p.m. USAF pilot John Lane saw a round, white object fly straight and level. (Sparks; Berliner)	10 secs	1		
552.	1313	June 20, 1952. Central Korea. 3:03 p.m. 4 USMC Cpts. and pilots of F4U-4B Corsair fighters with 7302nd Sq saw a 10-20 ft white or silver oval object make a left-hand orbit at terrific speed. (Sparks; Berliner)	60 secs	4		
553.		June 20, 1952. Near Paulette, Mississippi (at 33° 2' N, 88°26' W). 8:26 p.m. USAF pilot Lt. Milo Roberts and bombardier Lt. Julius Prottengeier with 308th Bomb Sq, 310th Bomb Wing, Forbes AFB, Kansas, flying a B-29 bomber (s/n 44-62204) at 190 mph at 17,000 ft saw a cone-shaped object approach on collision course from the 2 o'clock position, before evasive action object made sharp left left and disappeared, followed by a 2nd object [?]. Object's length/width ratio 3:1, about 8-10 ft long at 1,200-1,500 ft away or 100 ft if at 15 miles away. (Sparks; NARCAP; BB files??)		2	1/10 – 1/2	
554.	1319	June 21, 1952. Kelly AFB, Texas. 12:30 p.m. T/Sgt. Howard Davis, flight engineer of B-29 bomber at 8,000 ft altitude, saw a flat object with a sharply pointed front and rounded rear, white with a dark blue center and red rim, trailing sparks as it dove past the B-29 at a distance of 500 ft, in 1 sec. (Sparks; Berliner)	1 sec ?	1		
555.		June 21 [23?], 1952. Oak Ridge [Marxville?], Tenn. 10:58 p.m. GOC post spotted target, confirmed by ADC radar, followed by F-47 fighter interception of a 6-8-inch white blinking light which made ramming attacks on the F-47 from 10,000 to 27,000 ft. (Ruppelt p. 43)		3+		radar
556.	1323	June 22, 1952. Pyungthek, South Korea. 10:45 p.m. 2	60 secs +	2	1/2	

		U.S. Marine Sgts. saw a 4 ft diameter orange object dive at a runway from the N dropping from 800 ft to 100 ft altitude over W end of runway, shooting 2-5 ft red flames, then head W at about 300-450 mph for 2-3 secs, hover briefly over a hill, turn 180° in 45-60 secs, flash, head E 1/2 mile, flash again and blink out. No sound. (Sparks; Hynek UFO Rpt pp. 82-83)				
557.	1331	June 23, 1952. Spokane, Wash. 4:05 p.m. Airport weather observer Rex Thompson saw a round disc with a metallic shine flash, and flutter like a flipped coin. (Sparks; Berliner)	5-7 mins	1		
558.	1332	June 23, 1952. McChord AFB, Wash. 9 p.m. 2nd Lt. K. Thompson saw a very large light fly straight and level. No further information. (Sparks; Berliner)	10 mins	1		
559.		June 23, 1952. Kirksville AFS, Missouri. 7:30 or 7:35 p.m. USAF ADC radar operators Lt. A. N. Robinson, Jr., and Airman Ray H. Foote, plus 5 other controllers, officers and maintenance technicians, tracked one (two?) unidentified target with a clear sharp return about the size of a B-29's (or B-50 or B-36) suddenly appear 80-85 miles NNW of radar site moving at a constant speed of about 3,600 mph [to 4,300 mph] on a straight path of about 120-125 miles headed 357° or almost due N to disappearance off scope. (Sparks; Hynek-CUFOS files)	1.75-2 mins	7		radar
560.	1334	June 23, 1952. Oak Ridge, Tenn. 3:30 a.m. Secretary Martha Milligan saw a bullet-shaped object with burnt-orange exhaust fly straight and level. (Sparks; Berliner)	30-60 secs			
561.		June 23, 1952. Location unknown, but information came via Japan Hq "CV 4359." 6:08 a.m. USAF pilot Wermack of the 18th Fighter-Bomber Group saw a black coin-shaped object, 15-20 ft in diameter, at 6,000 ft approach to within 1,500 ft, then make an irregular descent. (Sparks; Berliner; Project 1947)		1	1 – 1.3	
562.	1335	June 23, 1952. Near Owensboro, Kentucky. 10 a.m. National Guard Lt. Col. O. L. Depp heard sound, saw 2 objects looking like "giant soap bubbles" reflecting yellow and lavender colors, fly in trail. (Sparks; Berliner; Randle)	5 secs	1		
563.	1340	June 25, 1952. Tokyo, Japan. (Sparks; Berliner)				
564.	1344	June 25, 1952. Chicago, Illinois. 8:30 p.m. Mrs. Norbury and Mr. Matheis saw a bright yellow-white, egg-shaped object, sometimes with a red tail, make 7 circles. (Sparks; Berliner)	1-1/2 hrs	2		
565.		June 25, 1952. Michigan. (Saunders/FUFOR Index)				
566.	1347	June 25, 1952. Japan-Korea area. Military witness(es). Case missing [?]. (Sparks; NARA; Randle)				
567.	1348	June 26, 1952. Terre Haute, Indiana. 2:45 a.m. USAF 2nd Lt. C. W. Povelites saw an undescribed object fly at 600 mph then stop. No further information in files. (Sparks; Berliner)		1		
568.	1351	June 26, 1952. Pottstown, Penna. 11:50 p.m. Assistant manager of airport Mr. Wells made 3 sightings of flashing lights: (1) 2 lights separated by 2 miles, with the leader flashing steadily and the other irregularly; (2) 2 similarly flashing lights, but with 1 mile separation; (3) Finally a	1/2 hr total	1		

		single light. Speed estimated at 150-250 mph. (Sparks; Berliner)				
569.	1355	June 27, 1952. Topeka, Kansas. 6:50 p.m. Forbes AFB USAF pilot 2nd Lt. K. P. Kelly and wife saw a pulsating red object change shape from circular to a vertical oval as it pulsed, first stationary then moving. (Sparks; Berliner)	5 mins	2		
570.		June 28, 1952. Kirtland AFB, Albuquerque, New Mexico. 1:20 p.m. 2 observers with CARCO air service saw 2 silvery disc-like objects high in the sky moving slowly to the S, noiseless, suddenly climbed nearly vertically at high speed, one going SSE the other almost due E. (Sparks; Hynek UFO Exp ch. 6, case DD-7)	30 secs	2		
571.	1361	June 28, 1952. Lake Koshkonong, Wisc. 6 p.m. G. Metcalfe saw a silver-white sphere over the lake become an ellipse as it turned 180° and climbed away very fast. (Sparks; Berliner; Randle)	10 secs	1		
572.	1363	June 28, 1952. Nagoya, Japan. 4:10 p.m. Capt. T. W. Barger, USAF Electronics Counter Measures officer, saw a dark blue elliptical-shaped object with a pulsing border fly straight and level at 700-800 mph. (Sparks; Berliner)		1		ECM officer
573.		June 28, 1952. Pacific bet. Hawaii and Calif. (at 29° 0' N, 145° 20' W). 10:50 p.m. USAF C-47 pilot saw a very bright light pass across the flight path from left to right. (Sparks; Project 1947)		1		
574.	1364	June 29, 1952. O'Hare Airport, Chicago, Illinois. 5:45-6:30 p.m. (CDT). 3 USAF air policemen, 83rd Air Base Sq, Air Police Detachment, S/Sgt. Lopez, A/1c Weber, and A/3c Korkowski, saw a bright silver, smooth surfaced, flat oval 30 ft [150? ft] object estimated at about 500-1,000 ft height about 7 miles [2-3 mi?] away to the WSW reflecting sunlight surrounded by a blue circle of haze for the first 20-25 mins, hovering. Object appeared between or just above radio towers for stations WGN and WBBN 7 miles away and about 1 mile apart [at 42° 0' 42" N, 88° 2' 7" W, and 41° 59' 32" N, 88° 1' 36" W] to the WSW at about 2° elevation and to the left and S of the setting sun (which was at 284° azimuth, 20° elevation, at 6:30). Then move very fast [about 3 mi or 20°] to the right and left, and up and down relative to the radio towers, moving almost instantaneously and much faster than any jet fighter. Object rocked on its longitudinal axis, appeared oval (major/minor axis ratio about 2.2) when oriented vertically, thin and difficult to see when horizontal. Object receded at high speed then disappeared "like shutting off a light." No trail, no noise. Independently witnessed by Chicago firemen several miles away. (Sparks; Jan Aldrich; Maxwell BB Microfilm Roll 11, pp. 260-265; unpublished Ruppelt manuscript).	45 mins	3+	1/5 – 1/3 (~0.4 from drawing)	triangulation?
575.		June 30, 1952. Columbia, Missouri. 1:46-3:54 a.m. (CST). U.S. Weather Bureau observer tracked by theodolite an object at extreme distance irregularly changing color from red to green, seeming to move away, to the NNE making only "small" angular movement in the 14 recorded measurements of position in 2 hrs. (Sparks; Jan Aldrich)	2 hrs 8 mins	1		theodolite

576.		June 30 [July 1?], 1952. Phoenix, Ariz. Gaudet [and Wolf?]. (Sparks; Jan Aldrich; Saunders/FUFOR Index)		2?		
577.		June 30, 1952. Sea of Japan. 7 p.m. 3 USAF crew members of C-54 transport saw circular object flattened on top and bottom. (Sparks; Weinstein; BB files??)		3		
578.		July 1, 1952. Boston, Lynn and Bedford, Mass. 7:25-7:30 a.m. (EDT). 2 F-94's scrambled (at 7:25?) to intercept UFO that a GOC spotter saw heading SW over Boston, no radar contact and F-94's searched area found nothing. Erwin W. Nelson and wife at Lynn (9 mi NE of Boston) at 7:31-7:34 noticed two vapor trails from the climbing jets, looked around, saw in the W a bright silver "cigar shaped object about six times as long as it was wide" heading SW over Boston at a very high altitude, speed a little faster than the two jets. An identical UFO was following the first some distance back. No vapor trails. Witnesses watched the F-94's search back and forth far below the UFO's. At 7:30 AF Capt. Robert E. Metcalf, Petroleum Officer, 6520th Supply Sq, 6520th Test Support Wing, and USAF air policemen MSgt James Stiner and MSgt Joseph R. Bosh, 6520th Air Police Sq., near Hangar B, Hanscom Field, Bedford, Mass. (15 mi NW of Boston, W of Lynn) saw the two jets, looked for what they were intercepting and saw to the E [?] a 100 ft long silvery ellipse "fatter than a cigar" traveling SW but did not spot the 2nd UFO. At two points object seemed to hover for a few secs, then continued at about 40,000 ft. Object path intersected contrails of the two jets heading SE. Metcalf lost sight of object on his way to the Tower after a few (2-3?) mins then caught sight again at about 7:40, noting it had increased distance "considerably," but lost it at the Tower and unable to see it with unaided eye or 7x50mm binoculars. (Sparks; Maxwell BB Microfilm Roll 11, pp. 485ff.Ruppelt)	15+ mins	7+		
579.		July 1, 1952. Ft. Monmouth, New Jersey (40°31' N, 74°05' W). 9:30 a.m. 3 radar instructors and 12 Army Signal Corps radar students tracked 2 slow-moving UFO targets in the NE heading SW on SCR-584 radar while tracking 9 military jets [evidently a SAC exercise of 9 B-36's from 7th Bomb Wing, Carswell AFB, Ft. Worth, Texas, a high-altitude formation radar-camera flight to conduct simulated attack on NYC after circling around Cape St. Francis, Newfoundland]. UFO radar targets were much slower than the jets [400 mph B-36's] then hovered near Ft. Monmouth at 50,000 ft for about 5 mins then took off in a "terrific burst of speed" to the SW. An instructor and some students went outside shortly after the UFO targets appeared, searched sky for about 1 min and spotted 2 shiny objects in the same location painted by the radar, watched the objects for several minutes and saw them disappear in the SW with a burst of speed at same time radar showed the acceleration. (Sparks; McDonald list; Saunders/FUFOR Index; Ruppelt)	5+ mins	15		radar
580.		July 1, 1952. Washington, DC. George Washington Univ. Physics Professor saw "dull, gray, smoky colored" object in the NNW sky hovering motionless about 30°-40° above	8 mins	500+ ?	2	physics prof

		horizon, which occasionally moved through arc of about 15° right or left, and gradually descended from the sky until hidden by buildings on skyline. Angular size ½ of a quarter (coin) at arm's length [=1°]. He estimated at least 500 other witnesses in the streets, confirmed by brief newspaper reporting. (Sparks; Ruppelt)				
581.	1380	July 3, 1952. Selfridge AFB, Mich. 4:15 a.m. Witnesses not identified (civilians?) saw 2 big lights, about 20 ft diameter, fly straight and level at tremendous speed. (Sparks; Berliner)		2+ ?		
582.	1382	July 3, 1952. Chicago, Illinois. 11:50 p.m. Mrs. J. D. Arbuckle saw 2 bright pastel green discs fly straight and level very fast. (Sparks; Berliner)	6 secs			
583.		July 5, 1952. Elmendorf AFB, Alaska. (Saunders/FUFOR Index)				radar
584.		July 5, 1952. Hanford Atomic Works, Richland, Wash. 6 a.m. Conner Airlines C-46 pilot Baldwin, another pilot and 2 copilots saw a perfect circular white disc above the Hanford site. (Sparks; Project 1947; Saunders/FUFOR Index)		4		
585.	1390	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)	15 secs	1		
586.		July 6, 1952. Berkeley, Calif. (elevation 925 ft, near Claremont Hotel). 9:30 a.m. (PDT). Dr. Henry Ehrenberg saw an elliptical object the size of the Full Moon hovering in midair with no sound, about 40° elevation in the West about 5,000 ft over Golden Gate Race Track about 5 miles away. Object faded away without apparent motion. (Sparks; Maxwell BB Microfilm Roll 11, pp. 567-570)	30 secs	1	1	scientist
587.	1397	July 6-12, 1952. Governors Island, New York [Elizabeth, NJ?]. 11:00 p.m. Charles Muhr [and Neff?] took 4 photos of some indistinct light admittedly not seen visually, not known until film was developed. (Sparks; Berliner; Saunders/FUFOR Index; Randle)				photos
588.	1405	July 9, 1952. Colorado Springs, Colo. 12:45 p.m. USAF pilot Maj. C. K. Griffin saw an object shaped like an airfoil less its trailing edge, luminous white, move slowly and erratically. (Sparks; Berliner)	12 mins	1		
589.	1409	July 9, 1952. Kutztown, Penna. 6:30 p.m. Farmer John Mittl saw an aluminum, oval-shaped object change direction and attitude, finally tipping on end then departing. Case file includes three vague photographs. (Sparks; Berliner)	20 secs			photos
590.		July 9, 1952. Rapid City AFB, South Dakota. (Sparks; Saunders/FUFOR Index)		1?		
591.		July 10, 1952. Near Quantico, Virginia. 8:18 p.m. Pilot of National Airlines Flight 42, a C-60 aircraft, saw a very bright amber glow, stationary then climbing slowly till disappearance. (Sparks; Project 1947)		1?		
592.	1431	July 12, 1952. Annapolis, Maryland. 3:30 p.m. Insurance company president William Washburn saw 4 large, elliptical-shaped objects fly very fast, stop, turn 90° and fly away. (Sparks; Berliner)	7-8 secs			

593.		July 12, 1952. Arlington, Illinois. 9:04 p.m. USAF pilot of F-86 fighter in a flight of 2 F-86's with 62nd FI Sq after coming out of a right turn saw [and radar tracked?] an oblong yellowish lighted object with a trail flying in a straight course heading 240° about 15 miles away at 22,000 ft traveling 700 knots. F-86 pursued at max speed but object pulled away. Both pilots heard a strange radio transmission on their restricted comm channel during the pursuit saying the name of the pursuit pilot, "Casey," in eerie tone. (Sparks; Project 1947)	20 secs	2		unexplained radio message; radar?
594.		July 12, 1952. Near Greenfield, Indiana. 9:05 p.m. American Airlines Convair pilot and copilot saw an object paralleling the plane then dropping down. (Sparks; Project 1947)		2+ ?		
595.		July 12, 1952. Dayton, Ohio. 9:13 p.m. USAF pilots of 2 F-86's with 97th FI Sq saw 2 brilliant round white lights hovering at 21,000 ft which then disappeared. (Sparks; Project 1947)		2		
596.	1436	July 12 [13?], 1952. Kirksville, Missouri. 9 p.m. Many radar controllers who were military officers saw several big radar blips tracked at 1,500 knots (1,700 mph). No visual sighting. (Sparks; Berliner)		many		radar (scope photos)
597.		July 13, 1952. 60 miles SW of Washington, D.C. 4 a.m. (EDT). National Airline Flight 611 Capt. William Bruen piloting airliner heading N from Jacksonville, Flor., saw round ball of bluish-white light hovering to the W then ascend to airliner altitude of 11,000 ft, then parallel course off left wing at about 2 miles distance, took off upwards at 1,000 mph when Bruen turned on all aircraft lights. (Sparks; Hynek UFO Rpt pp. 90-91; NARCAP)		2+ ?		
598.	1444	July 14, 1952. 20-25 miles N of Norfolk, Virginia. 9:12 p.m. (EDT). Pan American Airways FO William B. Nash, Second Officer William H. Fortenberry, in a DC-4 airliner at 8,000 ft heading 200° magnetic, sighted a total of 8 large, round, glowing red coin-shaped objects, 100 ft diameter 15 ft thick, maneuvering in two groups of 3 then joined slightly after by another 2. Objects approached headon at high speed estimated at about 12,000 [27,000] mph at about 2,000 ft altitude [about 2° depression angle] silhouetted against the ground, to a position almost directly below their airliner, in a stack formation then suddenly making a 150° hairpin turn like balls bouncing off a wall, joined by 2 more identical but much brighter red objects which came from behind on the right under the aircraft at about the same 2,000 ft altitude as the first 6 objects joining formation by falling in behind, all silhouetted against the black background of bay water, with one moment when all 8 objects blacked out then reappeared. At about 10 miles S of Newport News objects ascended as a group in fixed formation in an arc to the right towards Newport News to about 10,000 ft altitude [about 0.4° above level or about 2° above horizon line] out to disappearance by blinking out randomly, after covering a total distance of roughly 90 miles from start to finish (35 miles on approach, 55 miles to departure). Possibly 7 ground observers. (Sparks; McDonald; Tom Tulien;	12 secs	2 + 7?	2	

		Joel Carpenter; etc.)				
599.		July 15 [16?], 1952. 20 miles S of McChord AFB, Wash. 12:50 [7:50?] a.m. (PDT). USAF pilots of 2 fighters from 318th FI Sq saw a strange object with red and green lights slowly rolling between the aircraft. (Sparks; Project 1947)		2?		
600.	1451	July 15, 1952. West Palm Beach, Florida. 10:10 p.m. J. Antoneff and 2 others saw a discus-shaped object, greyish, except when hovering, when it appeared muddy. Hovered over Palm Beach International Airport, then followed an SA-16 twin-engined amphibious aircraft and flew away. (Sparks; Berliner)	40-60 secs + ?	3		
601.		July 16, 1952. Hampton Roads, Virginia. 8 p.m. NACA aeronautical engineer Paul R. Hill saw 2 amber-colored objects approach from the S, turn W, reach overhead, begin a maneuver to retrace around a common center, change to a vertical plane [?] after a few orbits, were joined by 2 more objects and flew off to the S. (Sparks; McDonald list; Tom Tulien)				NACA aero engineer
602.	1501	July 16, 1952. Beverly, Mass. 9:35 a.m. U.S. Coast Guard photographer Seaman Shell R. Alpert saw several bright lights through a window screen (no glass) from his position inside the air station photo lab while cleaning a camera, watched them for 5-6 secs, called out to another Coast Guardsman, Hospitalman 1st Class Thomas E. Flaherty from sick bay to see. Objects dimmed then brightened suddenly, Alpert grabbed a camera and filmed 4 roughly elliptical irregular blobs of light in formation through the screen, on Super XX cut film 4 x 5 inch format, lens set at infinity, aperture f/4.7, 1/30 sec exposure. (Sparks; Berliner; etc.)	5-6+ secs	2		photo
603.	1502	July 17, 1952. White Plains, New York. 3:10 p.m. Mrs. Florence Daley saw 2 round objects, bluish-white with brighter rims, fly in formation, making a sound like bombers, only softer (witness later said she heard many feminine voices coming from the objects). (Sparks; Berliner)		1		
604.	1476	July 18 [17?], 1952. Lockbourne, Ohio. 9:10 p.m. T/Sgt. Mahone and A/3c Jennings saw an amber-colored, elliptical-shaped object with a small flame at the rear, periodically increasing in brightness, move very fast giving off a resonant beat sound. (Sparks; Berliner)	1-1/2 mins	2		
605.	1479	July 17, 1952. Rapid City, South Dakota. Military (USAF?) witness(es).				
606.	1482	July 18 [17?], 1952. Lockbourne AFB, Ohio. 11 a.m. Air National Guard employees saw a light like a big star that disappeared when an aircraft approached. Also seen the night[s?] of July 20, 22 and 23. (Sparks; Berliner)	3 hrs	multi ple		
607.	1483	July 18, 1952. Miami, Florida. 11 a.m. E. R. Raymer and daughter saw an opaque, silvery bubble fly very fast at a right-angle to the wind direction. (Sparks; Berliner)	10 secs	2		
608.	1485	July 18 [21?], 1952. Patrick AFB, Florida. 9:45 p.m. 3 USAF officers and 4 enlisted men saw a series of hovering and maneuvering red-orange lights moving in a variety of directions. (Sparks; Berliner; Saunders/FUFOR Index)	1 hr	7		

609.		July 19, 1952. Centerville, Va. 12 midnight. Part-time farmer Constatine (Constantine?) and hired hand Davis saw 2 cigar-shaped objects, one hovering the other moving to the E then come back, both ascending vertically until disappearing. Both objects transparent (translucent?), lit from within, and emitted an exhaust from one end. Object shapes possibly more like elongated footballs. (Sparks; Battelle Unknown No. 4; BB Index Maxwell Microfilm Roll 2, p. 293)	3-4 mins	2		
610.	1492	July 19, 1952. Williston, North Dakota. 2:55 a.m. Experienced civilian pilot saw an elliptical-shaped object with a light fringe, descend fast, make a 360° then a 180° turn. (Sparks; Berliner)	5 mins	1		
611.	1494	July 19, 1952. Elkins Park, Penna. 11:35 p.m. USAF pilot Capt. C. J. Powley and wife saw 2 star-like lights maneuver, hover and speed. (Sparks; Berliner)	5-7 mins	2		
612.		July 19-20, 1952. Andrews AFB and Washington National Airport, Washington, D.C. 11:40 p.m.-6 a.m. (EDT). Numerous visual, radar and radar-visual sightings by ground observers and pilots in the air. (Sparks)	6 hrs 20 mins	many		RV
613.	1504	July 20, 1952. Lavalette, New Jersey; yacht at 40°N, 75°W (Delaware River near Philadelphia) and Elk Park, Penna. 12:20-12:25 a.m. 3 independent groups of witnesses, including Seton Hall Univ. chemistry professor Dr. A. B. Spooner, saw 2 large orange-yellow lights with some dull red color fly in trail, turn and circle observers. First seen to the S at about 40° elevation, then E, N, W, and S again but at elevation 80°. Stellar magnitude about -3 to -5. AF pilot in Elk Park estimated 10°/min angular velocity accelerating up to 2°/sec. No sound. (Sparks; Hynek UFO Rpt pp. 73-77)	5-6 mins	10	1/2 ?	Seton Hall Univ Chem Prof
614.		July 21, 1952. Dobbins AFB, Georgia. (Sparks; McDonald list)				
615.	1514	July 21, 1952. Wiesbaden, West Germany (50° 5' N, 8° 15' E). 6:30 p.m. USAF pilot Capt. E. E. Dougher and WAF Lt. J. J. Stong, separated by miles saw 4 bright yellowish lights, seen by Dougher to separate, with 2 climbing and 2 flying away level in the opposite direction. Stong saw 2 reddish lights fly in opposite directions. (Sparks; Berliner)	10-15 mins	2		
616.	1522	July 21, 1952. Randolph AFB - Converse, Texas. 4:30 p.m. Wife of USAF Capt. J. B. Neal saw an elongated, fuselage-shaped object fly straight and level, make a right-angle turn, fly out of sight at 300+ mph. (Sparks; Berliner)	3-5 secs	1		
617.	1533	July 21 [22?], 1952. Rockville, Indiana. 8:10 p.m. Military officer and 2 enlisted men saw an aluminum, delta-shaped object with vertical fin, fly straight and level, then hover. (Sparks; Berliner)	3 min	3		
618.	1516	July 21, 1952. San Marcos AFB, Texas. 10:40 p.m. Lt., 2 Staff Sgts. and 3 Airmen saw a blue circle with a blue trail hover then accelerate to near-sonic speed (700+ mph) after 1 min. (Sparks; Berliner)	1 min	6		
619.	1524	July 21 [22?], 1952. Holyoke, Mass. After midnight. Mrs. A. Burgess saw a round, yellow, flashing light fly				

		downward. No further information in files. (Sparks; Berliner)				
620.	1538	July 22, 1952. Los Alamos, New Mexico. 10:50 [11:05] a.m. Control tower operator Don R. Wiens and 2 CARCO pilots, Jack E. Chinn and F. Dew, and fireman I. V. Rowland, saw 8-10 large, round or bell-shaped, bright aluminum objects fly straight and level, then dart around erratically. First overhead then headed SW where one object disappeared into or behind a cumulus cloud about 10-15 miles away over James Mtns. (Sparks; Berliner; BB Maxwell Microfilm Roll 12, pp. 1012-6, etc., Misc Roll 1, pp. 506-8)	25 mins	4		binoculars
621.	1654	July 22 [?], 1952. Stafford, Virginia. 12 p.m. USAF pilot of C-54 transport saw a bright ovoid object hover then move in stops and starts, first approaching the plane then paralleling it. (Sparks; Berliner; Loren Gross)				
622.		July 22, 1952. Brookley AFB (30°40' N, 88° 5' W), Mobile, Alabama. 2 p.m. USAF Tech Sgt. and a civilian employee saw a barrel-shaped black object 3.5-4 ft diameter, emitting black smoke trail and a black puff of smoke flying about 5,000 ft above ground 1 mile away heading E then flying "perpendicular" (vertical?). (Sparks; Hynek-CUFOS-Willy Smith files)	2 mins	2	1/15	
623.	1536	July 22, 1952. Uvalde, Texas. 2:46 p.m. Don Epperly, Trans Texas Airlines station manager and weather observer, saw a large, round, silver object fly at 1,000+ mph while gyrating. (Sparks; Berliner)	45 secs	1		
624.		July 22, 1952. 12 miles E of Peterson Field, Colo. 6:45 p.m. USAF ADC personnel in Cessna 140 and the pilot saw a round silver object disappear into clouds. (Sparks; Project 1947)		several		
625.	1556	July 22, 1952. Near Braintree, bet. Boston and Provincetown, Mass. (at 42°10' N, 71° 0' W). 10:20 and 10:47 p.m. (EST). USAF pilot and radar operator of F-94B jet interceptor saw a large round spinning object throwing off a blue light. At 10:47 p.m., same or different F-94B jet fighter chased blue-green or green object circling at high speed, with airborne radar tracking and lockon. Another [?] F-94 intercepted 2 objects with flickering white light and swishing circling blue light which passed the jet, with airborne radar tracking and ground visual observation. [Confusion with Misawa case of July 23??] (Sparks; Berliner; cf. Weinstein)		2 + 2 ?		RV ?
626.		July 22, 1952. MacDill AFB, Florida. 10:30 p.m. (EST). MacDill AFB air traffic control tower operator sighted for ½ hour a red-greenish-blue object to the WSW at about 45° elevation with 2 other [similar?] objects to the N of it, smaller and/or farther away and lower in elevation angle (?). Tower operator sighted another object to the SSE about 30° elevation at 11:30 p.m. MacDill AFB Detachment 21, 3944th Radar Bomb-scoring Sq (RBS), radar tracked object at 12:03 a.m. (July 23) at azimuth 160° range 65,000 yards (37 mi) at 41,200 ft altitude on a heading of 310° True [almost directly towards MacDill AFB] speed 462 knots [532 mph]. Tampa Radar Bomb-	1-3/4 hrs	10+		RV

		scoring Sq also tracked object at 160° azimuth [about SSE] altitude 41,000 ft [reportedly, in 1998 account, Navy and CAA radars also tracked object]. At 12:08 a.m. USAF pilot and copilot of B-29 bomber with 364th Bomb Sq on landing approach were vectored by MacDill tower operator to investigate, saw high speed object at 40,000 ft heading towards MacDill AFB on a heading of 308° traveling faster than the B-29. 4 airmen at MacDill AFB radar site sighted object as it passed close [nearly overhead?]. (According to 1998 report of B-29 pilot, an AF Lt Col, they were flying at 20,000 ft; the B-29 fire control radar locked on to object at 40,000 ft and prepared to fire when UFO changed course and disappeared at 4,000 knots speed.) MacDill RBS lost object on radar at range 145,000 yards [82 mi] azimuth 310° (about NW) [at about 12:15 a.m.]. Civilians near base sighted object(s) visually. (Sparks; Robert Klinn; Project 1947; McDonald list; BB files; NICAP; NUFORC)				
627.	1572	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 hrs + 2 hrs	several		RV
628.		July 23, 1952. Boston, Mass. [Same as or continuation of July 22 sightings near Braintree?] (Sparks; Saunders/FUFOR Index)				radar?
629.		July 23, 1952. Jamestown, Rhode Island. 7:36 a.m. USN radar tracked high speed target heading N at 42,000 ft and confirmed by ADC radar at Camp Hero, N.Y. F-94's and F-86's scrambled unsuccessfully. (Sparks; McDonald list; Loren Gross)				radar
630.		July 23, 1952. E of Misawa AFB, Japan. 8:20 p.m. USAF pilot flying F-94 jet fighter chased blue-green fireball. (Sparks; Weinstein)		2?		
631.	1554	July 23, 1952. Pottstown, Penna. 8:40 a.m. 2-man crews of 3 USAF F-94 jet on training mission saw a large silver object 50-300 ft in size, shaped like a long pear with 2-3 squares beneath it, flying at 150-180 knots (170-210 mph) headed W, while a smaller object, delta-shaped or swept back, flew around it at 1,000-1,500 knots (1,150-1,700 mph) for 1-4 mins. Possible Skyhook balloon. (Sparks; BB Maxwell files, roll 12, pp. 1173-1175; Berliner)	35-40 mins	6		
632.	1567	July 23, 1952. Altoona, Penna. 12:50 p.m. 2-man crews of 2 USAF F-94 jet interceptors at 35,000-46,000 ft altitude saw 3 cylindrical objects in a vertical stack formation fly at an altitude of 50,000-80,000 ft. (Sparks; Berliner)	20 mins	4		
633.	1578	July 23, 1952. South Bend, Indiana. 11:35 p.m. USAF pilot Capt. H. W. Kloth saw 2 bright blue-white objects	9 mins	1		

		flying together, then the rear one veered off. (Sparks; Berliner)				
634.	1584	July 24, 1952. Carson Sink, Nevada. 3:40 p.m. (MST). USAF HQ Directorate of Operations Lt. Cols. John L. McGinn (Deputy of Ops, Fighter Br) and John R. Barton (AFOOP-OP-D) flying E in a B-25 bomber at 11,000 ft and 185 knots airspeed saw 3 silver white, delta-shaped or arrowhead-shaped objects at their 1 o'clock position slightly larger than the size of F-86's (40 ft), each with a ridge along the top, in V-formation, cross in front of and above the B-25 from right to left (S to N) at about 1,200 to 2,400 ft away at about 1,800+ mph. (Sparks; Berliner; NARCAP; cf. Ruppelt pp. 10-1; NICAP)	3-4 secs	2	2 - 4	
635.	1588	July 24, 1952. Travis AFB, Calif. (Sparks; NARA)				
636.		July 25, 1952. Elmendorf AFB, Alaska. (Saunders/FUFOR Index)				radar
637.		July 25, 1952. Wilmington, Delaware. Afternoon. VA employee saw 2 discs reflecting light in a climb.		1		
638.		July 26, 1952. Hampton, and bet. Newport News and Langley AFB, Virginia. 12:15-12:45? a.m. Ground observers saw a brilliant luminous alternately bright silver, red and green object hovering over the James River Bridge at about 1,500 ft for 1/2 hour, then ascend towards the E where seen by Langley AFB tower. USAF crews of 2 F-94's and ground observers saw 4 round silver/bluish objects in V-formation shoot straight up and disappear at 5,000 ft, one tracked by USN ground radar at Norfolk and by airborne radars. (Sparks; Weinstein; Project 1947? Condon project?)				RV ground and air radars
639.	1628	July 26, 1952. Kansas City, Missouri. 12:15 a.m. USAF Capt. H. A. Stone, men in control towers at Fairfax Field and Municipal Airport, saw a greenish light with red-orange flashes descend in the NW from 40° to 10° elevation. (Sparks; Berliner)	1 hr	3+		
640.	1637	July 26, 1952. Kirtland AFB, New Mexico. 12:05 a.m. Airman 1st Class J. M. Donaldson saw 8-10 orange balls in triangular or V-formation flying fast. (Sparks; Berliner)	3-4 secs	1		
641.	1732	July 26, 1952. Langley AFB, Virginia. 2:30 p.m. USAF Capt Daniel G. Moore, military air traffic controller with 1909-7 AACS Detachment, and Tech Sgt. Edward N. Rosner [Roaner?], tracked on MPN-1C radar an unidentified object from about 15 miles [probably NM] S to disappearance 8 miles [probably NM] S of site, speed about 2,600 mph [7 mi in 0.2 min is 2,100 knots or 2,400 mph], below 5,000 ft altitude, headed towards the air base. Duration of 2 mins in report must be typo for 0.2 min. No visual. Possible radar interference (high-speed target moving radially inward towards radar not crossing center of scope). See similar case below. (Sparks; Berliner; Randle; NICAP)	0.2 min	2		radar
642.		July 26, 1952. Langley AFB, Virginia. 2:50 p.m. Capt Daniel G. Moore, military air traffic controller with 1909-7 AACS Detachment, and Gilfillan electronics technician William Yhope [Thorpe?] tracked a radar target moving E	4 mins ? [0.4 min??]	2		radar

		away from radar site at an unstated initial distance [possibly 8 NM if like case above], stopping for 2 mins [probably 0.2 min] at 12 miles [probably NM] E, again moving extremely fast, speed not estimated, disappearing at 15 miles [probably NM] E. Possible radar interference (high-speed target moving radially outward away from radar not having crossed center of scope). See similar case above. (Sparks; Berliner; NICAP)				
643.	missing	July 26, 1952. Williams, Calif. 5:15 p.m. (PST). Case file missing. (Sparks; Randle) [N Calif. F-94C intercept case involving large orange-yellow object moving fast and slow, tracked by airborne and ground radars?? (Weinstein)]		[3?]		RV ground and air radars
644.		July 26, 1952. Plainview, Texas. 7:17 p.m. USAF pilot and copilot of T-33 saw a stationary object move in a slight descent changing color from white to blue. (Sparks; Project 1947)		2		
645.		July 26, 1952. Atlantic 200 miles S of New York City, New York. 8:30 p.m. USAF B-29 gunner, 301st Bomb Wing, saw 3 amber edged [?] white flashing objects traveling at Mach 1. (Sparks; Project 1947)		1		
646.		July 26, 1952. Florence, South Carolina. 10:04 [10:10?] p.m. Eastern Airlines Flight 606 Constellation pilot and 2 crew members saw a steady white light traveling at high speed in a straight line at 22,000 ft. (Sparks; Project 1947)		3		
647.	1661	July 26-27, 1952. Andrews AFB and Washington National Airport, Wash., D.C. 8 p.m. [9:50? p.m. EDT] until after 12 midnight [1:00? a.m. EDT]. Radar operators at several airports, airline and F-94 fighter pilots, sighted and tracked many unidentified blips and/or lights all over Washington area, at varying speeds. (Sparks; Berliner)	3 hrs 10 mins	20+		RV
648.	1664	July 27, 1952. Wilmington, Delaware. 7 p.m. (EDT)?). James R. Thomas saw a cylindrical object with domed top and bottom moving NW to SE in an upright position, disappearing suddenly. (NARA; NICAP)	90 secs	1?		
649.		July 27, 1952. 10 miles SSW of Columbus, Ohio. 12:05 a.m. USAF pilot of B-25 with 3 Pentagon Colonels on board saw a white light with 4 flashing lights stationary then move. (Sparks; Project 1947)		4		
650.	1680	July 27, 1952. Selfridge AFB, Mich. 10:05 a.m. 3 B-29 bomber crewmen on ground saw many round, white objects fly straight and level, very fast. Two at 10:05, one each at 10:10, 10:15, 10:20. [Possible Exercise SIGNPOST SAC B-36's from Carswell AFB en route to simulated attack run on Detroit, Mich.??] (Sparks; Berliner)	4 x 30 secs	3		
651.	1684	July 27, 1952. Wichita Falls, Texas. 8:30 p.m. Mr. and Mrs. Adrian Ellis saw 2 disc-shaped objects, illuminated by a phosphorus light, fly at an estimated 1,000 mph. [Possible returning B-36's of Exercise SIGNPOST??] (Sparks; Berliner)	15 secs			
652.		July 27, 1952. Manhattan Beach, Calif. (Saunders/FUFOR Index)				
653.	1708	July 28, 1952. McChord AFB, Wash. 2:15 a.m. T/Sgt.		2	2	radar? RV?

		Walstead and S/Sgt. Calkins of the 635th AC&W Sq ADC radar site saw a dull, glowing, blue-green ball, size of a dime at arms' length, fly very fast, straight and level. (Sparks; Berliner)				
654.		July 28, 1952. Hallock, Minn. (Saunders/FUFOR Index)				
655.	1707	July 28, 1952. McGuire AFB, New Jersey. 6 a.m. GCA radar operator M/Sgt. W. F. Dees, and persons in the base control tower. Radar tracked a large cluster of very distinct blips. Visual observation was of oblong objects having neither wings nor tail, which made a very fast turn, at one time in echelon formation. (Sparks; Berliner)	55 mins	3+		RV
656.	1700	July 28, 1952. Heidelberg, West Germany (49°25' N, 8°42' E). 10:20 p.m. Sgt. B. C. Grassmoen and WAC PFC A.P. Turner saw a saucer-shaped object having appearance of light metal giving off shafts of white light, flying slow, make 90° turn and climb away fast. (Sparks; Berliner)	4-5 mins	2		
657.		July 28-29, 1952. 20 miles W of Port Huron, Mich (at 43.0° N, 82.8° W). 9:40-10 p.m. (EST). One of 3 USAF F-94B's on an ECM exercise at 9,000-9,500 ft from 61st FIS at Selfridge AFB climbed to 20,000 ft on a 270° heading when it was vectored to a UFO headed S [or SE?] at 625 mph from Saginaw Bay by a GCI air defense radar (callsign "Avenger") [tracked for about 7 mins evidently]. Ground radar told pilot Capt. Edward J. Slowinski (Sloan) to look at his 3 o'clock low position for a target (to the N), but nothing was found, then told to look at 3 o'clock high (radar man remembered being told "low" then "high," pilot said he was told "high" then "low"). F-94 turned right to pursue. Object suddenly reversed course with a tight 180° turn back N on ground radar scope [evidently at 300 mph to match F-94's speed, in a visible loop on the radar scope on a right turn paralleling the F-94's right turn but tighter]. As the F-94 continued right turn, radar observer Lt. Victor Helfenbein picked up target at 4 miles range on APG-33 airborne radar, level with jet altitude, at 60° relative or 2 o'clock (about 330° to 360° azimuth depending on how far into the turn) (pilot said Helfenbein reported 2:30 o'clock). Airborne radar contact made [for possibly 20 secs during the turn] then at dead ahead 12 o'clock position radar got lockon for 30 secs until target "jumped lock" when it apparently almost doubled its 4-mile [or 4-5 mi] distance in one sweep of the ground radar accelerating to 1,400 mph average speed [4-mile jump in 10-sec sweep of radar, thus reaching peak 2,600 mph at about 20 g's]. Jet briefly put on afterburner to try to close distance with object on 360° heading at 21,000 ft increasing speed with afterburner to about 350 knots IAS (about 490 knots TAS or 560 mph) [for about 5 mins?], but object would put on a burst of speed and pull away from the jet. F-94 pilot first saw multiple lights ahead as if from a jet aircraft, but no exhaust or trail, and followed the GCI vectoring to target ahead between 12 o'clock and 1 o'clock positions. Object appeared "many times larger than a star" then "took on a reddish tinge, and slowly began to get smaller, as if it were moving away," and	20 mins	3+		RV

		changed color from reddish then bluish-green then white then red again in sequence (both crewmembers in agreement) low on the horizon to the N (possibly the star Capella and unrelated to radar target, though Helfenbein was an expert celestial navigator since 1943 with 1,400 flying hours and had never seen anything “like this before”). F-94 continued N heading [for about 5 mins] at about 300 mph as object maintained lead at 6-10 miles range, with GCI telling F-94 crew they were not gaining on the target on scope. Chase ended with F-94 about 5 miles N of peninsula at Burnt Cabin Point (at 44°10' N, 82°45' W) having to return because of low fuel, object then slowed to 200-300 mph before disappearing after another 1-2 mins. (Sparks; McDonald 1968; McDonald papers; Mary Castner/CUFOS; Loren Gross July 21-31, 1952 SUPP pp. 71-77; Ruppelt pp. 171-172, 190; BB Status Rpt 8, pp. 27-28, in NARA Microfilm Roll 85, p. 701-2, Maxwell Roll 1, pp. 674-5; Todd Lemire)				
658.	1731	July 29, 1952. Osceola, Wisc. 1:30 a.m. Radar operators on ground and pilot of F-51 Mustang in flight. Several clusters of up to 10 small radar targets and one large target. Small targets moved from SW to E at 50-60 knots (60-70 mph), following each other. Large target moved at 600 knots (700 mph). Pilot confirmed one target. (Sparks; Berliner)	1 hr	3+		RV (scope photos in Steiger book)
659.		July 29, 1952. Walker AFB, Roswell, New Mexico. 4 weather observers including base weather officer sighted several high-speed discs through theodolite. (Sparks; Hynek UFO Rpt. pp. 114-5)		4		theodolite
660.		July 29, 1952. Los Alamos, New Mexico. 10:45 or 10:55 a.m. (MDT). Several Los Alamos Scientific Lab and other witnesses saw white object moving E to W, about 1.8°/sec angular velocity, with gyrating or fluttering motion. 2 F-86 jet interceptors from Kirtland AFB arrived about 5 mins later chasing object W to E, all 3 leaving contrails. At 10:57 a.m. light-brown egg-shaped object with wings was sighted hovering then shot off to the NW disappearing in 3 secs. (Sparks; Hynek UFO Rpt pp. 61-64; BB Misc Microfilm Roll 1, pp. 506-8 etc.)	30 secs +	7+	1/10 + ?	field glasses
661.	1739	July 29, 1952. Wichita, Kansas. 12:35 p.m. USAF shop employees Douglas and Hess at Municipal Airport saw a bright white circular object with a flat bottom fly very fast then hover 10-15 secs over the Cessna Aircraft Co. plant. (Sparks; Berliner)	5 min	2		
662.	1747	July 29, 1952. 8 mi S of Ennis, Montana (at 45°14' N, 111°40.7' W, elev. 5300 ft). Between 2 and 3 p.m. (MST). US Army (res.) Maj. Ben Shaffer with wife and 3 children sighted and filmed objects with Bell & Howell color movie camera and Kodak Retina b&w still camera, and sighted with 8x binoculars, for 30+ mins between 3 and 4 p.m. (MST). Shaffer saw an object hovering about 1,000 ft over a mountain or hills [to the E] about 3-4 [?] miles away, reportedly at 45°13' N, 111°32' W [Cedar Mtn, elev. 10,718 ft], while driving N, stopped the car, and stoped two other cars, for a total of about 12 witnesses, one of whom used 50x binoculars. The object formed a	30+ mins	12	1/4 ?	color movie and still photos, 8x and 50x binoculars

		cloud around itself, then three smaller disc-like objects possibly jet fighter-sized (50 ft) burst out of the cloud from different angles at about 200 mph, forming an arc then disappeared. Another 5 small objects appeared on the right side of the cloud in V formation traveling slowly, then each of the small objects formed clouds around themselves, then re-entered the large cloud one behind the other. No other clouds in the sky. Near end of Shaffer's sighting another cloud suddenly appeared to the left of highway about 6 [13 ?] miles away [to the W] over Hill 9572 (9572 ft elev.) [Baldy Mtn?] at 45°11' N, 111°57' W, with same phenomenon of objects emerging and re-entering the cloud. ADC 29th Air Div, AACS (1906-5 Sq Detachment) and CAA checked for radar tracks, none reported. (Sparks; Martin Shough; NICAP; Berliner)				
663.	1747	July 29, 1952. Great Falls AFB, Montana (47°30' N, 111°13' W). 3:25-4:48 p.m. (MST). 17+ military and civilian USAF personnel (possibly totaling 50) at AACS Sq, and 1701st Air Traffic Sq and 1701st Air Transport Wing and Wing Intelligence, Great Falls AFB were alerted by a Plan 62/Plan 113 inter-base intercom alert at 3:20 p.m. MST from McChord AFB, Seattle, Wash., of a possible incoming UFO, including USAF Maj. John J. LeGrand, Maj. Raymond L. Kolman, Capt. Roy J. Jackson, S/Sgt Donald M. Manchester, Lt Hilton D. Logan, Capt. Orin G. Harman, Lt John Macgill, Mrs Anne L. Macgill (off base 8 mi from Great Falls alerted by husband Lt Macgill), Miss Virginia Walbon, Airman Charles Hooks, Mrs Anne E. Mihalik, Mrs Margaret Evans (Western Union at GFAFB), Mrs Forrester, Airman William Cole, Airman Harold Bennett, S/Sgt Charles C. Boden, Jr., M/Sgt Clarence R. Stotesbury, T/Sgt Fernandez. McChord AFB transmission was cut off in mid-sentence right after the words "flying saucer" and base personnel later falsely denied ever making the alert (though heard by multiple GFAFB personnel). Some GFAFB personnel sightings possibly as early as 2:30 p.m. Disc-shaped object. ADC 29th Air Div, AACS (1906-5 Sq Detachment) and CAA checked for radar tracks, none reported. (Sparks; NICAP; Berliner)	2 hr period non-continuous	18+ [50+]	1/3?	binoculars
664.	1738	July 29, 1952. Merced, Calif. 3:44 or 4:35 p.m. Herbert Mitchell and employee saw a dark, discus-shaped object, trailed by a silvery light 2 lengths behind, tipped on its side, dive, hesitate then circle very fast. (Sparks; Berliner; Saunders/FUFOR Index)	2 min	2 [3?]		
665.	1758	July 30, 1952. San Antonio, Texas. 10 a.m. E. E. Nye and another saw a round, white object fly slow then speed away. (Sparks; Berliner)	20-30 mins	2		
666.		July 30, 1952. Atlanta, Georgia. (Saunders/FUFOR Index)				
667.	1755	July 30, 1952. Albuquerque, New Mexico. 11:02 p.m. Kirtland AFB USAF 1st Lt. George Funk saw a stationary orange light. No further details in files. (Sparks; Berliner)	10 mins	1		
668.		July 30, 1952. Holloman AFB, Alamogordo, New Mexico. (Saunders/FUFOR Index)				

669.		July 30, 1952. Keesler AFB, Mississippi (30°20' N, 88°57' W). 11:55 p.m. (CST). Capt. Eugene P. Daspit, Supv., Ground Ops Branch, Electronics Observer Dept, 3398th Tech Training Sq, Keesler AFB, and Tech Sgt. James E. Hansen, CPS-5 Team Chief, 3381st Tech Training Sq, Keesler AFB, detected a slow-moving radar target on CPS-5 radar about size of C-54 radar blip, about 43 miles (40 miles according to Hansen) N at 335° azimuth, first (stationary for 2 mins according to Hansen) moving slowly S about 1 mile in 2 mins [30 mph] (or 2 miles per Hansen [60 mph?]), that stopped for 4 mins, then slowly headed N for 3 mins, stopped 2 mins (at its original position per Hansen), disappeared for 3 mins, then reappeared traveling at higher speed of 40-45 mph, heading NE to range of 50 miles [6-1/2 miles traveled] in 3 mins [130 mph?] at 345° before disappearing at 12:12 a.m. (Sparks; BB Maxwell Roll 13, pp. 1151-1163)	17 mins	2		radar
670.		July 31, 1952. 15 miles E of Yokota AFB, Japan (at 38°30' N, 139°57' E ??). 10:10 p.m. USAF pilot Leach and copilot Kato of C-47 with 548th Tech Recon Sq saw an object at 7,000 ft off their left wing. (Sparks; Project 1947; Saunders/FUFOR Index)		2		
671.		Aug. 1952. Skylight Mtn., Washington County, Ark. 3:30 p.m. Inverted tin colored saucers, 4:1 width/thickness ratio, darted in and out of cloud bank, in 5 mile circles in 5 secs [3,600 mph]. (Sparks; Berliner)	5 secs x ?	2		photo
672.	1771	Aug. 1, 1952. Lancaster, Calif. 1:14 a.m. Sheriff's deputies and others, one named Mallette, saw 2 brilliant red lights hovering and maneuvering. (Sparks; Berliner)	5 mins	2+		
673.		Aug. 1, 1952. Near Troy [radar at Bellefontaine], Ohio. 10:51-11:13 a.m. (EST). Lt. James Lott, radar controller at USAF ADC radar site 664th AC&W Sq at Bellefontaine atop Campbell Hill at 1549 ft elevation (40°22'20" N, 83°43'10" W). tracked target from 25 miles at 230° azimuth from radar site, altitude within FPS-3 search radar (1290 MHz 3.3 RPM) high beam or above 10,000 ft, to 20 miles NNW of Wright-Patterson AFB, Dayton, Ohio, traveling 400-450 knots (~500 mph) on a heading of 240° about WSW and [at 10:54 a.m. ?] vectored 2 F-86's piloted by Major James B. Smith and Lt. Donald J. Hemer, from 97th FIS, Wright-Patterson AFB, Dayton, Ohio, at 30,000 ft, located 10 miles SE of the UFO. Jets made visual contact at 10:55, climbed to 48,000 ft, fell off, climbed again to 48,000 ft and Smith got a weak return on his radar gunsight, shot gun camera film of the (estimated 24-40 ft) white round object or silver-colored sphere or disc estimated at 60,000-70,000 ft [which then took off at high speed ?]. F-86's broke off intercept at about 11:13 a.m., apparently about 60 miles WSW of Dayton. Film reportedly shows UFO image in the upper right of the frames with noticeable motion to the lower left. (Sparks; BB Microfilm Maxwell Roll 14, pp. 51-72, BB Misc Roll 1, pp. 563-580; BB Rpt 8; cf. Ruppelt pp. 174-6; Keyhoe 1953 p. 107; CR pp. 161-3)	22 ? mins	3+	2 mils measured in gunsight (1/5 Full Moon)	RV, gun camera film
674.	1783	Aug. 2, 1952. Lake Charles, Louisiana. 3 a.m. USAF 1st Lt. W. A. Theil and enlisted man Edwards saw a red ball	3-4 secs	2		

		with blue flame tail fly straight and level. (Sparks; Berliner; Saunders/FUFOR Index)				
675.		Aug. 2, 1952. Houlton, Maine. Smart and another witness on a wharf saw 21 objects traveling 200-600 mph. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	35 mins	2		
676.		Aug. 3, 1952. Hamilton AFB, Calif. 4:15-5:30 p.m. (PDT). 2 AF pilots Capt. L. R. Hadley and Lt. D. A. Swimley, and AF Capt. W. T. Perske, saw visually and with binoculars 2 circular or spherical silvery objects 60-100 ft diameter at 12,000 and 18,000 ft drifting E to W on a 15-mile track passing overhead, darting and dogfighting at estimated 400-450 mph, the upper object dropping from 18,000 to 12,000 ft, at the end replaced by 8 more similar objects appearing in pairs in the W about 15-20 miles distant. No sound. (Sparks; BB Microfilm Misc Roll 1, pp. 538-541)	1 hr 15 mins + ?	3	1/3 to 1	binocs
677.		Aug. 3, 1952. Truth or Consequences, New Mexico. 10:20 p.m. Civilian engineer Anderson saw 3 light-green cylindrical objects hovering at 45° elevation in inverted-V formation, switching to echelon when one object moved, with a rolling motion along its long axis. Disappeared by rapidly rising vertically. (Sparks; BB Rpt 8; Saunders/FUFOR Index)	9 mins	1	4	engineer
678.	1812	Aug. 4, 1952. Phoenix, Ariz. 2:20 a.m. USAF A/3c W. F. Vain [and Parker?] saw a yellow ball which lengthened and narrowed to plate shape, flying straight and level. (Sparks; Berliner; Saunders/FUFOR Index)	5 mins	2+ (?)		
679.	1813	Aug. 4, 1952. Mt. Vernon, New York. 11:37 a.m. Woman and 2 children saw an object, shaped like a lifesaver or donut, emitting black smoke from its top and making a 15° [?] [reciprocating?] arc in 1.5 mins. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)	2 hrs	3		
680.		Aug. 5, 1952. Bet. Lima (12° 6' S, 77° 3' W) and Huacho, Peru. 5:13 a.m. Panagra DC-3 pilot Sullivan and crew saw 3 saucer-shaped objects in a V-formation maneuver around the plane. (Sparks; Project 1947; Saunders/FUFOR Index)		multiple		
681.	1827	Aug 5-6. 1952. Haneda AFB, Japan (35°33' N, 139°46' E). 11:30 p.m. USAF F-94 jet interceptor pilots 1st Lt. W. R. Holder, 1st Lt. A. M. Jones, and Haneda control tower operators. Airborne radar tracked a target for 90 secs. Control tower operators watched 50-60 mins while a dark shape with a light flew as fast as 330 knots (380 mph), hover, fly curves and perform a variety of maneuvers, at one point splitting into 3 targets [?]. (Sparks; Berliner)	50-60 mins	4+		RV
682.	1841	Aug. 6, 1952. Tokyo, Japan. Continuation of Haneda AFB sightings. (Sparks; NARA)				
683.	1843	Aug. 6, 1952. Belleville, Mich. Military witness(es). (Sparks; NARA)				
684.	1845	Aug. 6, 1952. Port Austin, Mich. Case missing. (Sparks; NARA)				
685.		Aug. 6-7 [7?], 1952. Port Lyautey [Mina Hassam Tani?], French Morocco (34°20' N, 6°34' W). 7:51 p.m. Control		4+		

		tower personnel and 3 USN officer pilots [one named Dobos?] while flying R5-D saw a brilliant white disc-shaped luminous object with red blinking light, leaving a smoke trail, traveling straight and level at high speed then shut up vertically to 15,000 ft at high speed, then hovered, descended. When aircraft tried to climb towards object it started moving at high speed and chase was abandoned. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)				
686.	1855	Aug. 7, 1952. San Antonio, Texas. 9:08 a.m. Mrs. Susan Pfuhl [Pzuhl?] saw 4 glowing white discs, one made a 180° turn, one flew straight and level, one veered off, and one circled. (Sparks; Berliner; Saunders/FUFOR Index)	70 mins	1		
687.		Aug. 8, 1952. Warren AFB, Wyoming. 7:48 p.m. Pollack and another witness saw an object immediately stop without appearing to decelerate. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	2-1/2 mins	2		
688.		Aug. 9, 1952. K-3 area E of Pohang, Korea (at 38° N, 127° E). 8:57 p.m. Pilot Nagrodsky of 1st Naval Air Wing aircraft a fireball with stream of flame pass the aircraft at 1,500 mph, tracked on airborne and ground radars. (Sparks; Project 1947; Saunders/FUFOR Index)		2+ ?		ground and air radars
689.	1870	Aug. 9, 1952. Lake Charles AFB, Louisiana. 10:50 a.m. USAF A/3c J. P. Raley while walking to work saw a disc-shaped object fly S at 5,000 ft at high speed, turn W then [?] hover for 2 secs. (Sparks; cf. Hynek-CUFOS re-eval; Jan Aldrich)	5-6 mins [1 min?]	1		
690.		Aug. 11, 1952. Hampton, Virginia. 9/10 p.m. USAF Capt. and wife driving to town saw a series of 7 yellowish-orange low-flying objects climb away. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	5 mins [7 x secs?]	2		
691.		Aug. 12, 1952. Near Cape May, New Jersey. 5:43 a.m. USAF pilot of F-94B saw stationary glowing object lose brightness and diminish in size. [Star?] (Sparks; Weinstein; BB files??)		1?		
692.		Aug. 12, 1952. Big Spring, Texas. 4:49 p.m. USAF pilot of T-6 saw a light flying at 500 mph and 15,000 ft pass his aircraft. (Sparks; Project 1947)		1		
693.		Aug. 12, 1952. 70 miles W of Wink, Texas. 10:48 p.m. [?] USN? pilot and copilot of SNB aircraft saw several pie-pan-shaped aluminum colored objects pass ahead of their aircraft and ascend. (Sparks; Project 1947)		2		
694.	1889	Aug. 13 [10?], 1952. Tokyo, Japan. 9:45 p.m. USMC pilot Maj. D. McGough saw an orange light fly a left orbit at 8,000 ft and 230 mph, spiral down to no more than 1,500 ft, remain stationary f or 2-3 mins and blinked out. Attempted interception unsuccessful. (Sparks; Berliner; Hynek-CUFOS re-eval; Jan Aldrich)	2-3 mins +	1		
695.		Aug. 17, 1952. W of Athens, Alabama (at 34°49'30" N, 87°11'30" W). 12:47 p.m. USAF pilot of T-6G saw an intensely bright bright white round object hovering then disappear suddenly. (Sparks; Project 1947)		1		
696.		Aug. 17, 1952. E of Abilene, Texas (at 32°35' N, 99°13' W). 4:49 p.m. USAF pilot of T-6D [from Webb AFB?] saw an oblong polished metal object climbing at 500 mph.		1		

		(Sparks; Project 1947; Saunders/FUFOR Index)				
697.	1920	Aug. 18, 1952. Fairfield, Calif. 12:50 a.m. 3 policemen saw an object change color from red-green-orange-blue, shaped like a diamond, and change directions [?] traveling in a straight line "sideways" [?] gaining altitude. Military witnesses [?]. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)	30 min	3		
698.	1928	Aug. 19, 1952. Red Bluff, Calif. 2:38 p.m. GOC observer Albert Lathrop saw 2 objects, shaped like fat bullets, fly straight and level, very fast. (Sparks; Berliner)	25 secs			
699.	1928	Aug. 19, 1952. Boron, Calif. 8 p.m. (PDT). Pilot of USAF aircraft saw tailless object greatly accelerate away to the E and disappear, with airborne radar tracking [?]. No ground radar tracking due to ground clutter. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)		1		radar?
700.	1938	Aug. 20 [19?], 1952. Neffsville [Lancaster?], Penna. 3:10 a.m. Bill Ford and 2 others saw an undescribed object flying at 500 ft altitude. No further data in files. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	several mins	3		
701.	1944	Aug. 21, 1952. Dallas, Texas. 11:54 p.m. Jack Rossen, ex-artillery observer, saw 3 blue-white lights hover then descend, 1.5 mins [30 secs?] later one [2?] of them descended further. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)	1.5 mins +	1		
702.		Aug. 23, 1952 [not out of order by GMT/UTC]. Sinuiju, North Korea. 1:04 a.m. USAF 19th Bomber Group weather recon B-29 crew saw an orange-red cigar-shaped object. (Sparks; Weinstein; BB files??)				
703.		Aug. 22, 1952. Ontario, Calif. 3 p.m. Pilot Irvin of aircraft saw 2 teardrop shaped objects cross his flight path 1/2 mile away in high speed straight level flight creating severe turbulence that rocked his aircraft. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	2 secs	1?		
704.	1956	Aug. 23, 1952. Akron, Ohio. 4:10 a.m. USAF 2nd Lt. H. K. Funseth, a ground radar observer, and 2 U.S. Navy men saw a pulsing amber light fly straight and level. (Sparks; Berliner)	7 mins	3		RV ?
705.	1961	Aug. 24, 1952. Bet. Hermanas, New Mexico, and El Paso, Texas. 10:15 [10:20?] a.m. Georgia Air National Guard F-84G jet fighter pilot Col. G. W. Johnson saw two 6 ft silver balls in abreast formation, one turned grey rapidly, the other slowly. One changed to long grey shape during a turn. (Sparks; Berliner)	10 mins			
706.	1964	Aug. 24, 1952. Tucson, Ariz. 5:40 p.m. Mr. and Mrs. George White saw a large round, metallic, white light with a vague lower surface, fly slowly, then fast with a dancing, wavering motion. (Sparks; Berliner)	1 min	2		
707.	1969	Aug. 24, 1952. Levelland, Texas. 9:30-9:53? p.m., 10:30 p.m. Mr. and Mrs. Elmer Sharp saw an object, shaped like a spinning top, changing color from red to yellow to blue, with a fiery tail, hover for 20 mins with whistling [shrill?] sound, then fly away on a NNW course in 3 mins. Same or similar object returned 1 hr later repeating maneuvers. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan	23 mins +	2		

		Aldrich)				
708.	1972	Aug. 25, 1952. Frontenac-Pittsburg, Kansas. 5:35 a.m. (CST). Radio station musician William Squyres saw 70-75 ft inverted platter-shaped dull aluminum color object to right side of road about 40° elevation and 750 ft away with head and shoulders of a "man" inside visible in a window, midsection had many windows in which regular motion of some kind could be seen. He stopped the car and got out to look from 300 ft away, object had "rocking motion" and deep throbbing sound, series of 6-7-inch rapidly rotating "propellers," then after 1/2 min rose vertically at high speed from 10 ft height, with the sound like a mass of quail suddenly aflight, and disappeared in a gap of broken clouds but not behind clouds. Later found 60 ft circle of grass matted down in the field. (Sparks; Hynek UFO Rpt pp. 200-3; Battelle Unknown No. 12; Vallée Magonia 98; Randle)	1/2 min. +	1	25	
709.	1915	Aug. 25, 1952. Delaware, Ohio. Stanger. (Sparks; NARA; Saunders/FUFOR Index)				
710.	1979	Aug. 25, 1952. Holloman AFB, New Mexico. 3:40 p.m. Civilian supervisor Fred Lee and foreman L. A. Aquilar saw a round silver object fly S, turn and fly N, make a 360° turn, fly away vertically. (Sparks; Berliner)	3-5 mins	2		
711.	1986	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)		1		
712.	1987	Aug. 26, 1952. Biloxi, Miss. (Sparks; NARA)				
713.	1994	Aug. 26-27, 1952. Veracruz, Mexico. 2:15 a.m. Many witnesses of object traveling in straight line out to sea with buzzing noise. Sighting on Aug. 30. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	8 secs	many		
714.	2006	Aug. 28, 1952. Chickasaw (30°45' N, 88°4' W) and Brookley AFB (30°38' N, 88°5' W), Mobile, Alabama. 9:30-10:20 p.m. 3 civilians in Chickasaw reported to duty officer USAF Capt. at Brookley AFB seeing multiple red stationary and maneuvering objects to the S and one moving from S to W, all over the direction of Brookley. AFOSI agent arrived in Chickasaw at 9:50 to investigate and saw the same 4 objects to the S and SW estimated 8-12 miles distance, one fiery red object stationary for 15 mins then drifted 15°-20° to the right then stationary again. Radar operator visually spotted red-green object over Chickasaw to the N. USAF duty officer and control tower operators saw one object to the SW at 240° azimuth to the right and lower than the moon [which was at about 214° azimuth 22° elevation], and another object to the W at 280° azimuth at 10°-20° elevation the latter was confirmed by GCA's MPN-1 radar as a stationary target at 280° azimuth 4 miles range 4,000 ft altitude [= 11° elevation]. AFOSI officer, and others saw one object	50 mins	10+		RV, binoculars, triangulation

		explode, one do a figure-8 maneuver, etc., 4-6 objects larger than a star or planet varying from fiery red, red-blue, red-green and sparkling diamond appearance, a civilian AF employee saw a flat oval shape. (Sparks; Berliner; cf. Hynek-CUFOS-Willy Smith files)				
715.	2013	Aug. 29, 1952. Colorado Springs, Colo. 8:35 p.m. Military [? USAF?] pilot C. A. Magruder saw 3 objects, 50 ft in diameter, 10 ft high, aluminum with red-yellow exhaust, fly in trail about 1,500 mph. (Sparks; Berliner)	4-5 secs	1		
716.		Aug. 29, 1952. W of Thule, Greenland (77° N., 75°15' W). 10:50 a.m. 2 U.S. Navy pilots flying a P4Y-2 patrol plane saw 3 white disc-shaped or spherical objects hover, then fly very fast in a triangular formation. [May be same as Aug. 1952 sighting by P4Y-2 crew at 10,000 ft, pilot Lt. John C. Callaghan, copilot Lt JG Bill O'Flaherty, Mr. Merchant, following Skyhook balloon where 3 silvery discs briefly clustered on the Skyhook instrument package at 90,000 ft for several minutes then flew off with a vertical banking then climbed to disappearance in 3 secs. Naval History Magazine Oct 2004, web version.] (Sparks; Berliner)	2-3 mins	2 [3?]		
717.		Aug. 30, 1952. Santa Monica, Calif. 8, 11:30 p.m. Hehr and another witness sitting in a park saw many horizontal bar-shaped objects appearing and disappearing, forming a formation, traveling laterally at 1,500 mph. 2nd sighting of light near moon. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	10 mins + ?	2		
718.		Sept. 1, 1952. Atlanta, Georgia. 9:43 p.m. Mrs. William Davis and 9 others saw a light, similar to the evening star, move up and down for a long period of time. (Sparks; Berliner)		10		
719.	2022	Sept. 1, 1952. Marietta, Georgia. 10:30 p.m. Mr. Bowman (ex-artillery officer) and 24 others saw a red, white, and blue-green object which spun and shot off sparks. An unidentified witness using binoculars saw 2 large objects shaped like spinning tops with red, blue and green colors, fly side by side, leaving a sparkling trail for 30 mins. (Sparks; Berliner)	15-30 mins	26		binoculars
720.		Sept. 1, 1952. Marietta, Georgia. 10:50 p.m. Ex-AAF B-25 gunner saw 2 large white disc-shaped objects with green vapor trails fly in trail formation, merge, fly away very fast. (Sparks; Berliner)		1		
721.	2023	Sept. 1, 1952. Yaak, Montana. 4:45 a.m. Visual sighting by 2 USAF enlisted men, radar tracking by 3 men using FPS-3 radar set. 2 small, varicolored lights became black silhouettes [of "dark, cigar-shaped object"?] at dawn, flew erratically. (Sparks; Berliner; cf. Ruppelt p. 194)	1 hr	5		RV
722.		Sept. 2, 1952. Tokyo, Japan. (Sparks; McDonald list)				
723.	2025	Sept. 2, 1952. Chicago, Illinois. 3 a.m. Radar controller Turason (GCA) at Midway Airport tracked 40 targets flying in miscellaneous directions, up to 175 mph, 2 targets seemed to fly in formation with DC-6 airliner. (Sparks; Berliner)	8 hrs total	1		radar
724.		Sept. 3, 1952. Tucson, Ariz. 9 a.m. Civilian pilots McCraven and Thomas saw a shiny, dark ellipse make	1.5 mins	2		

		three broad, curving sweeps. (Sparks; Berliner)				
725.	2045	Sept. 6, 1952. Lake Charles AFB, Louisiana. 1:30 a.m. T/Sgt. J. E. Wilson and 2 enlisted men saw a bright star-like light move about the sky. (Sparks; Berliner)	2 hrs	3		
726.	2048	Sept. 6, 1952. Tucson, Ariz. 4:55 p.m. Ex-Congresswoman Mrs. Isabella King and Bill McClain saw an orange teardrop-shaped object whirl on its vertical axis, descend very fast, stop, retrace its path upwards, while whirling in the opposite direction. (Sparks; Berliner)	1.5 mins	2		
727.	2049	Sept. 7, 1952. San Antonio, Texas. 10:30 p.m. Chemist J. W. Gibson and others saw an orange object or light (color temperature 2,000° F.) explode into view. (Sparks; Berliner)	3-20 secs	3+		
728.	2052	Sept. 7, 1952. San Antonio, Texas. (Sparks; NARA)				
729.	2062	Sept. 9, 1952. Rabat, French Morocco. 9 p.m. USAF Intelligence civilian illustrator E. J. Colisimo saw a disc with lights along part of its circumference, fly twice as fast as a T-33 jet trainer, in a slightly curved path. (Sparks; Berliner)	5 secs	1		
730.	2077	Sept. 12, 1952. Allen, Maryland. 9:30 p.m. GOC observers Mr. and Mrs. David Kolb using binoculars saw a white light with red trim and streamers fly NE. (Sparks; Berliner)	35 mins	2		binoculars
731.	2085	Sept. 13, 1952. Near Allentown, Penna. 7:40 p.m. Private pilot W. A. Hobler, flying a Beech Bonanza at 10,000 ft from Allentown to the Caldwell-Bright Omni station, saw a 3 ft object, shaped like a fat football, flaming orange-red color, at his 11 o'clock high position about 450-600 ft away descend at a 30° angle on a collision course, Hobler made a sharp climb to avoid it, object then pulled up in a 65° climb in front of Hobler's airplane, Hobler made a rapid 180° right turn but lost the object traveling at about 700 mph. (Sparks; Berliner; NARCAP)	< 15 secs ?	1	1/2 – 2/3	
732.	2086	Sept. 14, 1952. Santa Barbara, Calif. 8:40 p.m. USAF C-54 transport pilot Tarbutton saw a blue-white light travel straight and level, then fly up. (Sparks; Berliner)	30 secs	1		
733.	2087	Sept. 14, 1952. North Atlantic between Ireland and Iceland. Military personnel from several countries aboard ships in the NATO Operation MAINBRACE exercise. Sightings include a blue-green triangle flying 1,500 mph and 3 objects in triangular formation giving off white light exhaust at 1,500 mph. (Sparks; Berliner)		multiple		radar?
734.	2089	Sept. 14, 1952. White Lake, South Dakota. 7 p.m. GOC observer L. W. Barnes, using binoculars saw a red, cigar-shaped object, with three puffs behind it, fly W, then S, then was gone. (Sparks; Berliner)	30-40 mins	1		binoculars
735.	2093	Sept. 14, 1952. Olmstead AFB, Penna. Time not known. Pilot of Flying Tiger Airlines airplane N67977 saw a blue light fly very fast on a collision course with the airliner. Note: the summary card attached to the file showed completely different information. (Sparks; Berliner)		1		
736.	2092	Sept. 14, 1952. El Paso, Texas. (Sparks; NARA)		multiple		
737.		Sept. 14-15, 1952. Ciudad Juarez, Mexico. 11:30 p.m. -	1 hr 50	4		

		1:20 a.m. Consulting engineer R. J. Portis and 3 others saw 6 groups of 12-15 luminous spheres or discs, which flew in high speed formations varying from arcs to inverted-Y's. (Sparks; Berliner)	mins			
738.	2099	Sept. 16, 1952. Portland, Maine. 6:22 p.m. Crew of U.S. Navy P2V Neptune patrol plane saw a group of 5 lights in circular formation at the same time a long, thin blip was tracked on radar. Note: Possible USAF KC-97 airplanes involved in a refueling operation. (Sparks; Berliner)	20 mins	2+ ?		RV
739.	2100	Sept. 16, 1952. Warner Robins AFB, Georgia. 7:30 p.m. 3 USAF officers and 2 civilians saw white lights fly abreast at 100 mph. (Sparks; Berliner)	15 mins	5		
740.	2105	Sept. 17, 1952. Tucson, Ariz. 11:40 a.m. Mr. and Mrs. Ted Hollingsworth saw 2 groups of 3 large, flat, shiny objects fly in tight formations, the first group slow, the second faster. (Sparks; Berliner)	2 mins	2		
741.		Sept. 20 [19? 21?], 1952. Topcliffe RAF Station, Yorkshire, England, UK. 10:53 a.m. [4:14 p.m.?] Operation MAINBRACE Meteor jet fighter (flown by Flight Lt. John W. Kilburn and Flight Lt. Cybulski ?) was descending to land at 5,000 ft when they saw a slow-moving circular silver [or white?] object about 5 miles behind them at about 15,000 ft following a similar course then swinging like a "falling sycamore leaf" or pendulum and began descending. As the Meteor turned towards Dishforth the object followed, then stopped falling leaf motion and descent, began rotation on its axis, suddenly accelerated at "incredible speed" faster than a meteor to the W then turned to SE [and disappeared]. Ground ? observers included Flying Officer Paris, Master Signaller Thompson, Higgins ? and 5 other aircrew [on the ground?]. (Sparks; Jan Aldrich; Ruppelt pp. 195-6; NICAP; Saunders/FUFOR Index)	15-20 secs +	10 ?		
742.		Sept. 21?, 1952. North Sea near England, UK. Operation MAINBRACE sighting by 6 British pilots [including Higgins?] in a formation of Meteor jets who pursued shiny spherical object but lost it in 1-2 mins then it reappeared following one of the jets which turned to pursue but the object outmaneuvered the jet. (Sparks; Ruppelt p. 196; BB files??; Saunders/FUFOR Index ?)	several mins	6		
743.	2119	Sept. 23, 1952. Gander Lake, Newfoundland, Canada. No time shown. Pepperrell AFB operations officer and 7 other campers saw bright white light, which reflected on the lake, fly straight and level at 100 mph. (Sparks; Berliner)	10 mins	8		
744.	2124	Sept. 24, 1952. Charleston, West Virginia. 3:30 p.m. Crew of USAF B-29 bomber saw a lot of bright, metallic particles or flashes, up to 3 ft in length, stream past the B-29. (Sparks; Berliner)	15 mins	2+		
745.		Sept. 24, 1952. Guantanamo Bay, Cuba. 7:45 p.m. USN crew of TBM-18 chased an orange light with greenish tail. (Sparks; Weinstein)		3		
746.	2126	Sept. 26, 1952. 400 miles NNW of Azores Islands, at 41°N, 35°W. 11:16 p.m. Pilot, copilot, engineer and aircraft commander of USAF C-124 transport plane saw 2	1 hr+	4		

		distinct green lights to the right and slightly above the C-124, at one time seemed to turn toward it, the lights alternated leading each other. (Sparks; Berliner)				
747.		Sept. 27, 1952. Hempstead, Texas. 2 USAF T-33 pilots saw a white-silver circular flat disc flying erratically at 600-700 mph. (Sparks; Weinstein)		2		
748.	2128	Sept. 27, 1952. Inyokern, Calif. 10 p.m. 2 couples, using a 5x telescope saw a large, round object, which went through the color spectrum every 2 secs, fly straight and level. (Sparks; Berliner)	15 mins	4		telescope
749.		Sept. 28, 1952. Tsushima Island, Japan (35°11' N, 136°45' E). (Sparks; McDonald list)				
750.		Sept. 28, 1952. Goose Bay, Labrador, Canada (53.33° N, 60.41° W). (Sparks; McDonald list)				
751.	2136	Sept. 29, 1952. Rochester, England, UK [NY?]. 3:55 p.m. Witnesses unknown, but report came via the Rochester Police Dept., of 2 flat objects hovering then speeding away. (Sparks; Berliner; Randle; Saunders/FUFOR Index)	3 mins			
752.		Sept. 29 [?], 1952. Aurora [Denver?], Colo. 3:15 p.m. USAF T/Sgt. B. R. Hughes saw 5-6 circular objects, bright white but not shiny, circle in trail formation. [Same as Denver Sept. 30 case?] (Sparks; Berliner)	5-6 mins	1		
753.	2140	Sept. 29, 1952. Southern Pines, North Carolina. 8:15 p.m. U.S. Army Res. 1st Lt. C. H. Stevens and 2 others saw a green ellipse. with a long tail, orbiting. (Sparks; Berliner)	15 mins	3		
754.	2138	Sept. 30, 1952. Denver, Colo. [Same as Sept. 29 Aurora case?] (Sparks; NARA)				
755.	2142	Oct. 1, 1952. Shaw AFB, South Carolina. 6:57 p.m. USAF 1st Lt. T. J. Pointek, pilot of RF-80 recon jet, saw a bright white light fly straight, then vertical, then hover, then make abrupt turn during attempted intercept. (Sparks; Berliner)	23 mins	1		
756.	2143	Oct. 1, 1952. Pascagoula, Mississippi. 7:40 p.m. Mr. and Mrs. C. C. McLean and another heard a loud blast and saw a round, milky-white object, shaped like a powder puff, hover for 5-10 mins then fly away very fast in an arc. (Sparks; Berliner)	22 mins	3		
757.	2150	Oct. 7, 1952. Alamogordo, New Mexico. 8:30 p.m. USAF Lt. Bagnell saw a pale blue oval, with its long axis vertical, fly straight and level covering 30° of sky. (Sparks; Berliner)	4-5 secs	1		
		Oct. 7, 1952. Provence near Draguignan, France. 7:28 p.m. Air France pilots Francis Cavaresse and in flight sighted white egg-shaped object, larger than transport aircraft [200 ft?] in level flight traveling NE to SW in 230° heading pass about 3 km above traveling estimated 2,000 to 3,000 kph (1200 to 1800 mph) with bluish-white exhaust trail about 25x length of object.	30 secs	2		
758.	2155	Oct. 10, 1952. Otis AFB, Mass. 6:30 p.m. USAF S/Sgt and 2 other enlisted men saw a blinking white light move like a pendulum then shoot straight up. (Sparks; Berliner)	20 mins	3		
		Oct. 14, 1952. Zuni, New Mexico, to Winslow, Ariz. 9:50 p.m. (MST). Pilot Col. [deleted], Deputy Director, Office of Legislative Liaison, Office of Secretary of	35 mins	3	~9°	

		Defense, pilot Col. [deleted], USAF HQ, Chief, Senate and White House Liaison, and copilot Lt. Col. Albert L. Cox, USAFR contract pilot with Travis AFB, while flying in B-25 at 190 knots TAS (~220 mph) at 10,000 ft heading 260° sighted bright white-metallic dirigible shaped luminous object ~30° to the left (at 230° azimuth [or 30° right at 290° azimuth]) elevation 40° above aircraft level, possibly 500 ft in size with 2 red lights attached, at 50-500 miles distance possibly 30,000 to 60,000 ft altitude, making zigzag flight path at high speed 1000-2000 mph, forcing aircraft to change course to 200°. Object disappeared in NW at 320° azimuth 20° elevation above flight level. (Sparks)				
759.		Oct. 15, 1952. Ashiya, Japan (34°42' N, 135°16' E). (Sparks; McDonald list)				
760.	2171	Oct. 17, 1952. 10 mi S of Taos, New Mexico. 9:10 or 9:15 p.m. (MST). Kirtland AFB officer Major Charles R. Coble, 4910th Air Base Group, in Jeep traveling N on Hwy 85 saw a round, bright blue light move from N to NE at a [descending?] angle of 45° about 25 miles away at estimated 10,000 ft altitude, speed 2500 mph [25,000 to 35,000 ?? mph], then burn out suddenly in the SE. While at football stadium at half-time in Albuquerque (at 35°N ?, 106°35' W ?) Kirtland AFB officers 1st Lt. Richard D. Volk (34th Air Division ADC), 2nd Lt. William J. Arrowood (4910th ABG), and 2nd Lt. Warren J. Eljenholm (34th AD), sighted bluish-green light falling rapidly in a "near vertical path." [METEOR FIREBALL] (Sparks)	2-3 secs	4		
761.	2172	Oct. 17, 1952. Killeen, Texas. 10:15 p.m. Ministers Greenwalt and Kluck saw 10 lights, or a rectangle of lights, move more or less straight and level over arc of ~110° at about 50° to 60° elevation. (Sparks; Berliner)	5 secs	2		
762.	2173	Oct. 17, 1952. Tierra Amarilla AFS, New Mexico (36°37'25" N, 106°39'50" W). 11 p.m. Military witness [at USAF radar site] saw a white streamer move at an estimated 3,000 mph in an arc. No further details in files. (Sparks; Berliner)	20 secs	1		
763.	2177	Oct. 19, 1952. San Antonio, Texas. 1:30 p.m. (CST). [Ex-USAF aircrewman??] deputy sheriff Woolsey and wife Lillian saw 3 circular or oblong aluminum objects in the N in rough V-formation heading S at about 25° elevation, the two higher objects at estimated ~20,000 ft altitude. One lower object at ~15,000 ft altitude, appearing more than 2x the size of the other objects, "flipping" slowly on its side exposing aluminum side and olive-drab color of other side, showing flattened biconvex disc profile, flying at estimated ~200-350 mph until almost overhead ~70° elevation when it stopped and hovered briefly and witness lost track of other objects. Object rapidly diminished in size till it disappeared [in place due to radial distance?]. (Sparks; Berliner)	3-4 mins	1	3° + 5°	
764.	2175	Oct. 19, 1952. 12°17' N, 155°35' W (Pacific) 500 miles S of Hawaii. 6:58 p.m. Crew of USAF C-50 transport plane saw a 100 ft diameter round yellow light, with a red glowing edge, fly at 300-400 knots (350-450 mph).	20 secs	2+		

		(Sparks; Berliner)				
765.	2179	Oct. 21, 1952. Knoxville, Tenn. Daytime (no time given). Weather observer at airport weather station tracked 6 round or nearly round white or whitish objects (white color near the shade of white balloon about the same apparent size of [6 ft] balloon) fly in very loose formation of 2-3-1 objects, visible within the [2°] field of view of standard US Weather Bureau theodolite [David White 6061 or Army ML-47 with 21x magnification] aimed at rising 100-gram balloon (launched 57 minutes earlier) then at 54,347 ft above MSL (16,565 m) in the West at azimuth 267.6° elevation 36.5° [slant range ~17 miles]. Objects made a long shallow dive at the balloon “as if to investigate it” then passed balloon and pulled up in a sharper climb than the dive at increased speed [disappeared by passing out of field of view of theodolite]. Balloon burst at 58,022 ft [about 2 mins after objects disappeared]. (Sparks)	1-1/2 to 1-3/4 mins	1 ?	1/7 in theodolite	theodolite tracking
		Oct. 22, 1952. Laurinburg-Maxton AFB, North Carolina. 10:10 p.m. Air policeman Airman 2nd Class Bernard F. DeMonte sighted large 100-150 ft football-shaped object with 2 steady red lights in front, 8-12 steady green lights in rear, approaching from the S then pass overhead as DeMonte guarded height-finder radar of 757th AC&W Sq (no detection) then circle around for another pass [map shows distances of ~1-2 miles], heard loud unfamiliar droning noise of “ear-splitting pitch.” Object disappeared in SW [SE?] at “terrific speed.” Two other airmen, A/1C [deleted] and A/2C Frank L. Donnelly, heard unfamiliar noise and saw red/green lights from about 2 miles away. (Sparks)	few mins	3?		
766.	2184	Oct. 24, 1952. Elberton [Elberta?], Alabama. 8:26 p.m. USAF Lt. Rau and Capt. Marcinko, flying a Beech T-11 trainer, saw an object, shaped like a plate, with a brilliant front and vague trail, fly with its concave surface forward. (Sparks; Berliner; Saunders/FUFOR Index)	5 secs	2		
		Oct. 26, 1952. 2 mi S of Roanoke, Texas (~18 mi N of Ft. Worth). 4:18 p.m. (CST). Civilian witnesses traveling by car on Hwy 77 sighted bright silver cigar-shaped object, with “very brilliant blue reflection” (?) in the E at ~30°-35° elevation ~2-3 miles away traveling straight up then S while losing altitude. Object turned to SE and climbed “like a top” covering 60° in ~80-90 secs when it faded from sight to SE. (Sparks)	3 mins	3	2/3	
767.	2196	Oct. 29, 1952. Erding Air Depot, Germany. 7:50 a.m. USAF S/Sgt. Anderson and A/2c Max Handy saw a round object, silhouetted against a cloud, fly straight, level and smooth at 400 mph. (Sparks; Berliner)	20 secs	2		
768.		Oct. 29, 1952. Hempstead, Long Island, New York. 5:10 a.m. (EST). 2 USAF F-94 jet fighter crews saw a white luminous object maneuvering at high speed. (Sparks; Weinstein; BB files)	20 mins	4		
769.	2200	Oct. 31, 1952. 4 miles S of Fayetteville, Georgia. 7:40 p.m. USAF Lt. James Allen saw an orange, blimp-shaped object, 80 ft long 20 ft wide, appear to the N at treetop	1 min	1	17	EM

		level about 600 ft away, traveling towards him about 60-70 mph, cross over his car (when his radio faded out) at about 500 ft height. He got out of the car and watched object linger overhead about 20 secs, then point its nose at 45° angle, accelerate and climb to disappearance in 30-40 secs to the E and slightly to right of the full moon (96° azimuth 35° elevation) at tremendous speed. (Sparks; Hynek UFO Rpt pp. 191-2)				
770.	2202	Nov. 3, 1952. Laredo AFB, Texas. 6:29 p.m. 2 control tower operators, including Lemaster, saw a long, elliptical, white-grey light fly very fast, pause, and then increase speed. (Sparks; Berliner)	3-4 secs	2		
771.		Nov. [Dec.?] 4, 1952. Congaree AFB, Columbia, South Carolina. 1:42 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)				
772.		Nov. 4, 1952. W Hokkaido, Japan. (Sparks; Saunders/FUFOR Index)				
773.		Nov. 4, 1952. Caribou, Maine. 5:30 p.m. USAF pilot of T-6 saw a slow moving light of varying colors, stop and move. (Sparks; Project 1947)		1		
774.	2206	Nov. 4, 1952. Vineland, New Jersey. 5:40 p.m. Housewife Mrs. Sprague saw 2 groups of 2-3 whirling discs of light fly toward the SE. (Sparks; Berliner)	30 secs	1		
775.		Nov. 8, 1952. Tierra Amarilla (El Vado) AFS, New Mexico (36°37'25" N, 106°39'50" W). 6:05 p.m. (MST). Frederick O. Edgar, Philco Tech Rep to 34th Air Div ADC Air Defense Direction Center, and 767th AC&W Sq Radar Crew Chief S/Sgt James A. McCutchin Jr. and A/1C Albert F. Radford, radar scope operator, tracked large target on FPS-3 radar at 600 to 1500 mph (5-6 miles movement per 12-second sweep = 1500 to 1800 mph) at 40,000+ ft altitude, moving from 130 [97?] miles distance inward towards station to 45 miles distance, always at 143° to 145° azimuth ($\pm 1^\circ$ - 2°) then moving to 97 miles where it disappeared then reappeared moving back in to 65 miles then hovered 2 mins then moved out again and lost at 100 [66?] miles. Philco rep lowered frequency of radar transmitter and receiver by ~20 MHz to eliminate interference but target remained, though weakened and narrowed in size from 10° wide to 2° wide. FPS-3 lower beam transmitting at 1319 MHz, upper beam at 1274 MHz. (Sparks; McDonald list; Saunders/FUFOR Index)	10 mins	3		radar
776.	2219	Nov. 12, 1952. Los Alamos, New Mexico (at 35°52' N, 106°17' W). 10:23 p.m. AESS security inspector saw 4 red-white-green lights fly slowly over Los Alamos Labs prohibited area. Fighter alert, no ground radar contact. (Sparks)	15 mins	1		
777.	2220	Nov. 13, 1952. Opheim, Montana. 2:20 a.m. Crew of USAF 779th AC&W station tracked an unidentified target on FPS-3 radar at 158,000 ft altitude (30 miles alt.) at 98 miles at 240 mph heading straight ESE. (Sparks)	1 hr 28 mins	2+ ?		radar
778.	2220	Nov. 13, 1952. Glasgow, Montana (at 48°10' N, 106°39' W). 2:43 a.m. U.S. Weather Bureau observer Earl Oksendahl looked away from theodolite tracking balloon and saw 5 bluish-white oval-shaped objects 30-50 ft	20 secs +	1		

		diameter, with lights all around them, fly in a V-formation, at about 2,000 to 3,000 ft altitude, towards him from NW till about 1 mile distant at edge of town then made sharp 90-degree turn to head SW, with 2 objects banking slightly out of formation on turn. Each object seemed to be changing position vertically by climbing or diving as if to hold formation. No noise, no exhaust or trail. (Sparks)				
779.		Nov. 15, 1952. Near Pyongyang, North Korea. USAF pilot flying T-6 aircraft was circled 3 times by a 10 ft silvery sphere. (Sparks; Weinstein)		1		
780.	2224	Nov. 15, 1952. Wichita, Kansas. 7:02 a.m. USAF Maj. R. L. Wallander, Capt. Belleman, A/3c Phipps saw an orange object (a blue streak?) varied in shape, as it made jerky upward sweeps with 10-15 sec pauses. (Sparks; Berliner)	3-5 min	3		
781.		Nov. 15, 1952. Wichita, Texas [Kansas?]. 8:25 p.m. USAF B-47 crew and passengers saw an elliptical blue-white object with orange or red tail, moving erratically. (Sparks; BB Status Rpt?; Saunders/FUFOR Index) [Same case as above??]		multiple		
782.		Nov. 20, 1952. Salton Sea, Calif. 8:05 p.m. USAF pilot of B-50 saw a stationary light change color from white to red to green, then move SW. (Sparks; Project 1947)		1		
783.	2246	Nov. 24, 1952. Annandale, Virginia. 6:30 p.m. L. L. Brettner saw a round, glowing object fly very fast, make right angle turns and reverse course. (Sparks; Berliner)	1 hr	1		
784.		Nov. 25, 1952. White Sands, New Mexico. (Sparks; McDonald list)				
785.		Nov. 26, 1952. Goose Bay, Labrador, Canada. 2:30 a.m. F-94 chased maneuverable disc that changed color from white [orange?] to red, as it climbed and turned. (Sparks; McDonald list; NICAP; Project 1947)		1		
786.	2249	Nov. 27, 1952. Albuquerque, New Mexico [S of Prescott, Ariz. ?]. 12:10 p.m. Pilot and crew chief of USAF B-26 bomber saw a series of 20 ft black smoke bursts (4-3-3-4-3), similar to antiaircraft fire. (Sparks; Berliner)	20 min	2		
787.	2253	Nov. 30, 1952. Washington, D.C. 12:30 [6:30?] a.m. Radar operator(s) [?] at Washington National Airport. Radar trackings similar to those of July 26, 1952. Military witness(es) [?]. (Sparks; Berliner; Saunders/FUFOR Index)		multiple		radar
788.		Dec. 4, 1952. Colorado Springs, Colo. 11 a.m. (Sparks; McDonald list; Saunders/FUFOR Index)				
789.		Dec. 4, 1952. 8 miles SW of Laredo, Texas. 8:46-8:53 p.m. USAF pilot Lt. Robert Arnold flying T-28 trainer aircraft at 6,000 ft saw a bright bluish-white glowing object below him rapidly climbing to his level, showing no navigation lights. Arnold tightened his left turn to keep object in view, object suddenly climbed to 9,000 ft in several secs then dropped down to his altitude again headed E to 6 miles SE of AFB where it stopped and hovered. Arnold pursued on SE heading but after 2 secs object suddenly headed towards him on collision course at high speed, wavering slightly at about 300 ft as if determining which side to pass the aircraft then heading	7 mins	1	< 30 ??	

		off Arnold's left wing at 150 ft distance, at which point he could see object as a blurred reddish-bluish haze smaller than his T-28, all of which happened too fast for evasive action. Arnold in fear turned off running lights, spiraled down to 1,500 ft while keeping object in sight as object continued to head towards him in a dive then pulled up and climbed out of sight. (NARCAP)				
790.		Dec. 5, 1952. Lackland AFB, Texas. 8:48 p.m. USAF pilot of T-28 saw a blue light maneuver in a counterclockwise orbit then climb. (Sparks; Project 1947)		1		
791.		Dec. 6, 1952. About 90 miles S of Louisiana coast in Gulf of Mexico, at 28°10' N, 92°04' W. 5:25-5:35 [5:37?] a.m. (CST?) [0525-0535 GMT Dec. 7 ??]. USAF crew of B-29 bomber, based at 3510th Flight Training Wing (Medium Bomber), Randolph AFB, Texas, radar observer 1st Lt Norman Karas, radar observer/Instructor Navigator 1st Lt. William W. Naumann, Jr., Staff Sgt B. R. Purcell, Staff Sgt. William J. de Rause, 2nd Lt. Robert J. Eckert, Staff Sgt. Harry D. Shogren. B-29 flying at 20,000 ft, heading 320° true ground track (315° heading with wind from 276° 24 knots), 186 knots (214 mph) ground speed, 204 knots true air speed, tracked on radar 4 high speed targets at true azimuth 330° on a true heading 120° [nearly reciprocal headon heading] moving in a straight line about 12-14 miles [nautical?] per 2.25-sec [~2.5 secs effective] radar sweep [or 5 or 17 miles per sweep?] at 5,240 to 9,900 mph [23,000 to 27,000 mph], followed by more targets moving SE. Initial target disappeared at 15-20 (naut.) miles range 70° true azimuth (then reappeared?) and finally disappeared at true azimuth 150° [??]. Karas alerted the crew to the radar targets over the intercom. Twice radar observer Naumann called out a radar target in 3 or 4 o'clock position then visual observers Purcell and de Rause sighted corresponding blue-white flashes moving at high speed from left to right [on the right side of B-29]. Purcell saw flashes for 3 secs below wing (estimated at 18,000 ft and 25 miles away). Naumann saw a group of radar targets move from 330° to 150° heading SE [offset to the right of B-29 flight path] then "swing" around behind B-29 maintaining constant 30 (naut.) miles range for 10 secs [9 or 11.25 secs] and disappeared. Eckert saw radar targets on the left side of the B-29 move rapidly from 10 to 9 o'clock position closing in distance. Karas said up to 20 radar targets 2-3 at a time were seen mostly small round targets except one which was larger and shaped like a semi-circle arc. Karas also tracked a "large" target approach from behind to 40 miles then disappear. Shogren sighted radar target moving from 10 to 9 o'clock position on scope [to the W]. At 5:35 [CST? GMT?] Naumann tracked several (5?) blips merging into a ½-inch arc (on 5-inch diameter radar scope set to 50 n.mi. radius) about 30 miles away at 320° [true] bearing and moved off the scope at 9,000+ mph [radially away from center of scope?]. (Sparks; NICAP; McDonald; cf. Condon Rpt pp. 148-150; etc.)	10 mins [12? mins]	6		radar- visual
792.		Dec. 6, 1952. Angoon, Alaska. 9:15 a.m. (AHST). Air				

		National Guard pilot saw 2 shiny spheres connected by a solid rod heading S. (Sparks; BB Status Rpt)				
793.	2266	Dec. 8, 1952. Ladd AFB, Alaska. 8:16 p.m. Pilot 1st Lt. D. Dickman and radar operator 1st Lt. T. Davies in USAF F-94 jet interceptor (s/n 49-2522) saw a white, oval light which changed to red at higher altitude, fly straight and level for 2 mins on 240° course, then climb at phenomenal speed on an erratic flight path. After landing object could still be seen moving erratically, no noise, for 3 mins then took up 160° heading gaining speed while descending, becoming brighter red. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)	10 mins	3-4		RV?
794.	2267	Dec. 9, 1952. About 10 miles S of Madison, Wisc. (at 42°57' N, 89°20' W). 5:45 p.m. Capt. Bridges and 1st Lt. Johnson in USAF T-33 jet trainer saw 4 bright lights, in diamond formation, fly at 400 mph heading 130° or about SW at about 8,000 ft. They followed objects at 450 mph until passing (overtaking) them near 10 miles NE of Janesville, Wisc. (at 42°47' N, 88° 55' W) at 5:50 p.m., at which time they radioed the ADC 755th AC&W radar site "Soapberry," which could not detect objects, only the T-33. Objects continued on 90° E heading and T-33 followed until breaking off due to low fuel at 5:55 about 10 miles W of Racine, Wisc. (at 42°45' N, 88° 0' W). No silhouette visible even when objects seen against Milwaukee city lights. (Sparks; Berliner; cf. Hynek-CUFOS re-eval; Jan Aldrich)	10 mins	2		
795.		Dec. 10, 1952. 8 miles from [?] Pope AFB, South Carolina. 2:20 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)				
796.		Dec. 10, 1952. Hungnam, Korea. USN pilot flying aircraft in near-collision with orange fireball. (Sparks; Weinstein; BB files??)				
797.		Dec. 10, 1952. Odessa-Hanford, Wash. 7:15-7:30 p.m. (PST). F-94 crew spotted a light while flying at 26,000-27,000 ft and approached to identify it. Object appeared large, round and white with reddish light coming from two "windows," came at F-94 on collision course, F-94 banked to avoid impact, radar contact and/or lockon made multiple times on airborne ARC-33 radar. (Sparks; Ruppelt p. 43; NARCAP)	15 mins	2		radar
798.		Dec. 14, 1952. Charlottesville, Virginia. 11:45 a.m. (EST). Aeronautical engineer former test pilot saw a light orange elliptical shaped object, hovering then move NE at extreme speed, 1,000+ mph estimated. Object gave off discharge that changed brightness when object moved; debris lofted in the air apparently by the object. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	55 secs	3		aeronautical engineer
799.		Dec. 15/16, 1952. Goose Bay, Labrador, Canada. 11:15 p.m. F-94 chased maneuverable disc that changed color from white to red, and tracked it on airborne radar. T-33 crew also sighted it. (Sparks; NICAP; Saunders/FUFOR Index)		2-3?		radar
800.		Dec. 15, 1952. Honshu, Japan. Radar tracking. (Sparks; McDonald list; Saunders/FUFOR Index)				

801.		Dec. 15, 1952. Greensboro [Hurstville? Hartsville, SC?], North Carolina. 9:15 [9:25?] a.m. [EST?] USAF pilot of RF-80 saw a bright circular or spherical silvery object, losing and gaining altitude. (Sparks; Project 1947; Saunders/FUFOR Index)		1		
802.		Dec. 19 [18?], 1952. Anderson AFB, Guam. 6:50 [8:48? 8:50?] a.m. USAF crew of B-17 bomber and ground witnesses saw a silvery cylindrical object. (Sparks; BB Status Rpt 8; Saunders/FUFOR Index)		multiple		
803.		Dec. 22, 1952. Larson AFB, Moses Lake, Wash. [??] 7:30 p.m. Instrument technician stopped his car to watch a hat-shaped glowing object rising vertically in odd spurts right and left, then level off at high speed, glowing white with a red side when rotated, and halfway through a roll no light, then held stationary in the sky with jumpy movements, S of Jupiter (which was to the SSE at about 151° azimuth 53° elevation). Case file missing? (Battelle Unknown No. 6)	15 mins	1		
804.		Dec. 24 [23?], 1952. Camp Carson, Colo. 11:17 p.m. (MST) [?]. (Sparks; McDonald list; Saunders/FUFOR Index)				
805.	2302	Dec. 28, 1952. Marysville, Calif. Civilian witness(es). Case missing. (Sparks; NARA; Saunders/FUFOR Index)				
806.		Dec. 28, 1952. Albuquerque, New Mexico. 11:09 [9:16?] p.m. [4:16 a.m.?] Military pilot saw an elongated cigar-like object the size of a medium bomber traveling E to W. (Sparks; BB Status Rpt 8; Saunders/FUFOR Index)	12 secs?	1		
807.		Dec. 29 [28?], 1952. Chitose AFB [Misawa AFB? Hokkaido?], Japan. 7:30 [7:39? 7:48?] p.m. USAF crews of B-26 (Ashley and Wood) and F-84G (Col. Howard Blakeslee) saw object emitting 3 beams of light and tracked on airborne radar. (Sparks; Weinstein; Saunders/FUFOR Index)	7 mins	several		radar?
808.		Dec. 29, 1952. About 35 miles W of Amarillo near Vega, Texas (at 35°15' N, 102°25' W) and ESE of Tucumcari, New Mexico. 9:05 p.m. (CST). USAF Capt. William T. Bowley and Capt. Herbert T. Lange, both of Perrin AFB, Texas, piloting a B-26 on a training flight headed W at 257° at 6,000 ft altitude and 250 knots (300 mph) saw a extremely large and intense bright round bluish-white light with frequent green tints, no trail or exhaust or aerodynamic features, about 3x the size of a C-54 (or about 350 ft) at a distance of possibly 40 miles at their 11 o'clock position paralleling their course at about the same altitude 6,000 ft heading forward but closing with the B-26. After 5 mins object suddenly climbed vertically 7,000 ft in 5 secs [1,400 ft/sec average, or peak velocity about 2,000 mph at about 17 g's] to disappear in thin broken overcast clouds at 13,000 ft and causing the clouds to glow as if lit by searchlight. Bowley radioed the CAA controller in Tucumcari, N.Mex. Shortly after, the object reappeared under the clouds, the CAA controller was told to look for it but couldn't see it [probably because he was told to look in the wrong direction, to the SW, or it was obscured by clouds], after 2 mins it climbed to the W and	7-10 mins	2	1/6	

		disappeared. (Sparks; Jan Aldrich)				
809.		Dec. 30, 1952. Terrigal, New South Wales, Australia (at 33°26' S, 151°27' E). 12 noon. RAAF Wing Commander Tomkins and wife and child [Alexander?] saw an extremely brilliant carbon-arc bright object to the E about 7.5° elevation in very slow level flight to the left or N for about 1 min over about 8° of arc, estimated at about 2,000 ft height and 2 miles away. Object suddenly turned E and departed away from the observers at high speed disappearing in about 20 secs. (Sparks; Jan Aldrich; Saunders/FUFOR Index)	1 min 20 secs	3		
810.		Dec. 31, 1952. NE of Ramey AFB, Puerto Rico. 4:50 [4:45?] a.m. USAF crew of RB-36 saw a large red-orange ball of light pass the plane. (Sparks; Weinstein; Saunders/FUFOR Index)		3		
811.		Jan. 1, 1953. Mobile, Alabama (at 30°38' N, 88°7' W). Brookley AFB USAF Capt. and senior pilot saw to the W from a drive-in theater a bluish-white object 1-2 ft size with a short exhaust trail in rapid level flight left to right through 80° arc about 2,000-3,000 ft altitude, 1 mile distance, 250-300 knots speed, started climbing turn at the end and suddenly disappeared like turning off a light. (Sparks; Hynek-CUFOS-Willy Smith files)	30 secs	1	1/50 – 1/25	
812.	2315	Jan. 1, 1953. Craig, Montana (47.20° N, 111.83° W). 8:45 p.m. (MST). Warner Anderson and 2 women saw a silver, saucer-shaped object with a red glowing bottom, fly low over a river then climb fast in a horizontal attitude. (Sparks; Berliner)	10 secs	3		
813.		Jan. 6, 1953. Near Dallas, Texas [and Oklahoma City, Okla.?). 1/1:05 a.m. (CST). (Sparks; McDonald list; Saunders/FUFOR Index)		many		radar?
814.	2323	Jan. 8, 1953. Larson AFB, Moses Lake, Wash. (47.1° N, 119° W). 7:15-7:30 a.m. [8:15 a.m. PST?] USAF 82nd Fighter Interceptor Sq personnel, including squadron commander, all on the ground, saw a green, disc-shaped or round object fly SW, with a vertical bobbing motion and sideways movements, below the overcast clouds at 13,000 ft against the wind from 240°. [Astronomical?] (Sparks; Berliner; McDonald 1968)	15 mins	60+		
815.		Jan. 9, 1953. Misawa AFB, Japan. 6:50 p.m. (Sparks; McDonald list)	2 mins			
816.	2326	Jan. 10, 1953. 8 miles NW of Sonoma, Calif. 3:45 or 4 p.m. [4:45 p.m. PST?] Retired AF Col. Robert McNab, and Mr. Hunter of the Federal Security Agency saw a flat object to the NW at 45° elevation traveling about 2,400 mph make three 360° right turns in 2-3 secs each in about 1/8 radius required for jets [i.e., about 1/4 mile radius and 300 g's], two abrupt 90° turns to the right and left, each turn 5 secs apart, almost stop, accelerate to original high speed, almost stop again, speed up again and finally fly out of sight vertically. Sound similar to F-86 at high altitude. (Sparks; Hynek UFO Rpt pp. 115-6)	60-75 secs	2	1/2	
817.	2337	Jan. 17, 1953. Near Guatemala City, Guatemala. 3:55 p.m. Geologist/salesman J. J. Sackett saw a brilliant green-gold object, shaped like the Goodyear blimp with	22 secs	1		

		length/height ratio 2:1, fly 400 mph straight and level, stop, then fly straight up with one stop. (Sparks; Berliner)				
818.		Jan. 23, 1953. Bergstrom AFB, Texas. 3:40 p.m. (CST). (Sparks; McDonald list; Saunders/FUFOR Index)	19 mins	1?		radar
819.	2361	Jan. 28, 1953. Point Mugu, Calif. 1:06 p.m. R.W. Love, owner of Love Diving Co., and Mr. Ferrenti, while engaged in retrieving radio-controlled drones on a boat 1,100 yards offshore S of the Pt. Mugu Naval Air Missile Training Center, saw an 18-20-inch [18-20 ft?] white, flat disc with fuzzy or shimmering edges rapidly approach from about 305° azimuth (about NW) fly straight and level overtaking a jet aircraft flying at 150-200 knots in 3 secs, pass overhead, disappearing in haze to the E. (Sparks; Berliner; cf. Jan Aldrich; Randle)	3+ secs [6 mins?]	2		
820.	2364	Jan. 28, 1953. Corona, Calif. 6:05 p.m. USAF T/Sgt. George Beyer saw five 25 ft green spheres fly in V-formation, then change to trail formation at which time the end objects turned red. (Sparks; Berliner)	12 mins	1		
821.	2365	Jan. 28, 1953. Turner AFB (31°36' N, 84° 6' W), Dobbins, Georgia. 9:40-10:00 p.m. (EST). USAF senior pilot at Moody AFB, Major Hal W. Lamb, apparently saw the setting planet Venus changing color and shape (at 267°-270° azimuth 3° elevation dropping below horizon, his estimates varying from 250° to 295°-310° azimuth) while flying a T-33, also seen by Turner AFB tower operators (with time errors of about 10 mins). At about 9:40-9:48 (reported as 9:50-9:58) 2 GCA radar maintenance men at Turner AFB radar tracked 3 moving targets and a stationary target (at due W 270° azimuth, range 26 miles?). At 10:00 (reported as 10:10), the GCA reported 2 stationary targets at 17 and 27 (or 23-27?) miles both 300° azimuth. No visual confirmation though binoculars used. (Sparks; Jan Aldrich; Saunders/FUFOR Index)	12-20 mins [25 mins?]	2		radar
822.		Jan. 28, 1953. St. Georges, Delaware. 5:18 p.m. (EST). 4 witnesses driving S on St. Georges Bridge, 3 of whom were members of UFO investigation group, Mrs. Gene Thropp, Mrs. Lucille T. Nichols and Mrs. W. Forman, saw a rose-orange 7-inch [?] shiny disc-shaped object with a "white tail" at their 8 o'clock position heading S at about 10° above the horizon traveling about 100 mph, no sound no trail. Object seen through binoculars reversed course to the N then continued alternating heading N to S. (Sparks; Jan Aldrich)	10 mins	4		binoculars
823.		Jan. 29, 1953. Presque Isle AFB [Caswell?], Maine. [9:55 a.m. (EST) ?] Three or more fighters from 7th Fighter Interceptor Squadron and other squadrons. Radar tracking ? by Air Defense Direction Center. (Sparks; Hynek UFO Rpt p. 58)	[4 mins?]	3+		RV?
824.		Jan. 29, 1953. Conway, So. Carolina. 10:45 p.m. Mr. Boothe heard commotion of animals, grabbed gun, saw oblong-shaped lighted object 10 ft above trees slowly moving or stationary, low humming sound. Boothe shot at the object 2x, first bullet bounced off with metallic sound, at 2 nd shot object tilted slightly went up at 65° angle to the W at 600-700 mph and disappeared. Cattle deaths claimed	20-30 mins	1		RV?

		connected by townspeople. (Sparks; Jan Aldrich/CUFOS files)				
825.		Feb. [deleted], 1953. Finland AFS, Minn. 6:29 a.m. (CST). (Sparks; McDonald list; Saunders/FUFOR Index)				radar
826.	2384	Feb. 3, 1953. Keflavik Airport, Iceland. 5:25 p.m. Radar operators tracked 4 unidentified targets. No further data. (Sparks; Berliner)	24 mins	2+		radar
827.	2388	Feb. 4, 1953. Yuma, Ariz. 1:50-55 p.m. U.S. Weather Bureau observer Stanley H. Brown, using a theodolite, tracked to the E [W?] at 107° [270°?] azimuth 53° elevation a white, oblong object almost round, with a solid dull pure white color and a thin white mist completely edging it, flying straight up, leveling off. After 20 secs 1st object was joined by a 2nd similar object that twice flew away and returned to the 1st. Both lost to sight behind clouds to the SSW at 204° azimuth 29° elevation after 5 mins timed with stopwatch. (Sparks; Berliner; McDonald 1968)	5 mins	1	1/25 (0.5° equiv in theodolite?)	theodolite; weather observer
828.		Feb. 6, 1953. Rosalia, Wash. 1:37 a.m. (PST). USAF pilot of B-36 saw a blinking white light turn and disappear. (Sparks; Project 1947; McDonald list)		1		
829.		Feb. 7, 1953. Okinawa. 9:22 p.m. USAF F-94 crew and other witnesses saw a bright orange object change color to red and green at intervals, disappear behind a cloud, ground radar tracking. (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)	15-35 mins?	5+ [?]		RV
830.		Feb. 8, 1953. Barter Island, Alaska (70° 7' N, 143°40' W). 4:50 a.m. (AHST). Military pilot [and another witness?] working at airstrip heard a deep heavy sound and saw brilliant round white object with small ray-like appendages descending in a falling-leaf motion but without the upward swings, then hovered, moved about 50 ft against the wind to original position, after 45 secs began to climb using reverse falling-leaf maneuver, picked up speed changing color to orange tint. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	10 mins	2		
831.		Feb. 10, 1953. Misawa AFB, Japan. 6:45 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
832.		Feb. 11, 1953. Bet. Tunis, Tunisia, and Tripoli, Libya. 8:45 p.m. (GMT). USAF C-119 transport crew saw a disc pass the plane. (Sparks; Project 1947; Saunders/FUFOR Index)	55 mins	6		
833.		Feb. 13, 1953. Carswell AFB, Ft. Worth, Texas. 2:35 a.m. (CST). Pilots and crew of B-36 aircraft (one named Ruth) saw 3 bright lights of equal intensity in stacked vertical echelon formation approaching at moderately high speed (cruise speed of F-86), one object suddenly accelerated then came to complete halt and the other 2 objects did the same, then returned to original formation and repeated the maneuver, ending in a horizontal echelon with center object the pivot, then all climbed steeply in "swinging" motion at high speed. Possible ground radar contact. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich; Saunders/FUFOR Index)	10-15 mins	9		RV?
834.		Feb. 13 [12?], 1953. Vichy, Missouri. 8:30 p.m. USAF	5-10+	3		

		Capt. Robert Bailey, his FO, and crew chief of C-47 transport at 7,000 ft, 170 knots (200 mph) airspeed, heading 43° (NE), saw a small round light as they neared the Vichy Radio Range Station. Light changed intensity and looked like it was on collision course at 238° bearing [heading? from behind or in front?]. Bailey turned on landing lights to try to signal it, light then stopped its approach, flew off their left wing at about 1 mile while changing color from red to amber to green. After 5-10 mins the light dropped back, increased speed, made 3 dives and zooms on a parallel course before disappearing. (Sparks; NARCAP; Saunders/FUFOR Index)	mins [1 hr?]			
835.		Feb. 16, 1953. Ramer, Alabama. 5:30 p.m. (EST). Hawk and Stern. (Sparks; McDonald list; Saunders/FUFOR Index)	20 mins	2		
836.		Feb. 16, 1953. Turnagain Arm (S of Anchorage) [Willow? (61°42' N, 150° 8' W)], Alaska. 11:50 p.m.-12:05 a.m. [11:45 p.m. (AHST) ?]. C-47 crew pursued nocturnal light which was below horizon, then ascended, hovered, maneuvered, disappeared. Initially to the E, after hovering, C-47 turned to pursue on 345° heading, object accelerated, brightened and decreased in size, C-47 chased at 270°-290° heading to disappearance in 45 secs. (Sparks; Willy Smith pp. 43-48; Saunders/FUFOR Index)	15 mins	2		
837.		Feb. 17, 1953. Elmendorf AFB, Alaska. 6:55 p.m. (AHST). Ground observers and fighter interception. Nocturnal light with rapid vertical takeoff. (Sparks; Berliner; Saunders/FUFOR Index)	5+ mins	6		
838.	2419	Feb. 17, 1953. Wurtsmith AFB, Port Austin, Mich. (at 44°02'22" N, 83°00'06" W, elev. 647 ft). 10:04-10:25 p.m. (EST). 2 officers and 3 airmen of USAF 754th AC&W squadron saw an object larger and brighter than a star in the W or WNW, changing color, moving slowly until fading out at 10:09. Venus was setting on the horizon at about 10:10 at azimuth ~280°. Radar tracked a target at 10:08 at 9-10 nm range on upper beam only (1297 MHz) of FPS-3 search radar at 300° azimuth moving S for 22 mins, at 55-60 knots (63-69 mph), approaching to ~9 nm range, until disappearing in ground clutter at 10 nm range at 210° azimuth at 10:30. Possible helicopter (?) but ADC found no helicopters were flying in the area of sighting. (Sparks; Berliner)	~22 mins	5		
839.	2426	Feb. 20, 1953. Pittsburg-Stockton, Calif. Sighting #1 time unknown; #2, 10:30 [11:30 PST?] p.m. USAF B-25 bomber pilots. Sighting #1, a bright yellow light seen for 8 mins. Sighting #2, a bright light flew on a collision course, dimmed and climbed away fast. (Sparks; Berliner; Saunders/FUFOR Index)	8 mins + ?	2+		
840.	2441	Feb. 24, 1953. Sherman, Texas. 7:43 p.m. Warrant Officer and Mrs. Alden saw 2 bright red, round objects with big halos fly in small circles, climb and fade. (Sparks; Berliner)	3-7 secs	2		
841.		Feb. 25, 1953. Charleston, West Virginia. 3:30 p.m. (EST). (Sparks; McDonald list; Saunders/FUFOR Index)	15 mins			radar
842.		Feb. 27, 1953. Great Falls AFB, Montana. 3:16 a.m.	11 mins			

		(MST). (Sparks; McDonald list; Saunders/FUFOR Index)				
843.	2543	Feb. 27, 1953. Shreveport, Louisiana. 11:58 a.m.- 12:02 p.m. USAF airman/private pilot saw 5 yellow discs make circular turns, flutter, 3 vanished first, then the other 2 flew erratic square turns. (Sparks; Berliner)	4 mins total	1		
844.		March 3, 1953. 130 miles W of Luke AFB, Phoenix, Ariz., near Blythe, Calif. 1:25-1:32 p.m. (MST). USAF Capt. Roderick D. Thompson, 3600th Fighter Training Group, Luke AFB, instructor pilot in an F-84 at 25,000 ft 500 mph TAS heading 305° Mag spotted 300-500 ft wide aircraft leaving contrail crossing his path at 2 [10?] o'clock high position from left to right at about 35,000 to 45,000 ft and about 400 mph TAS, visible only by condensation vapor emitted from manta-ray shape flat surface. Student pilots of two F-84's, Lt. Jack E. Brasher and Lt. Thomas W. Hale, saw the object but did not follow the pursuit. When Thompson turned (right?) to pursue object climbing at full power at about 560 mph, object made slight dipping turn to NW and began climbing at about 20° angle and object appeared to be very thin, and immediately began to form a heavy condensation trail behind it for roughly 1,000 ft and split in two for about 1,000 ft but which ended abruptly and moved with the object, the trail not being left behind. Thompson reached 30,000 ft and closed to within roughly 5-10 miles of object to a point over Colorado River N of Parker Dam, about 70 miles N of Blythe, when he took 151 frames or about 30 ft [6 ft?] of gun camera film of object, 16 mm N-9 camera, apparently at 16 fps 1/40 sec exposure setting. (Sparks; BB Rpt 11; NICAP website; McDonald list; Ruppelt pp. 229-230; Saunders/FUFOR Index)	7 mins	3	1/2 to 1	gun camera film
845.		March 5, 1953. Congaree AFB, South Carolina. 3:45 p.m. (EST). (Sparks; McDonald list)	18 mins			
846.		March 5, 1953. Shaw AFB, South Carolina. 5:07 [3:45?] p.m. (EST). (Sparks; McDonald list)	1 hr?			radar
847.		March 9, 1953. Ashiya AFB, Kyushu, Japan (34°42' N, 135°16' E). 6:30 a.m. (Sparks; McDonald list; Saunders/FUFOR Index)	35 mins			radar
848.	2490	March 10-11, 1953. Hackettstown, New Jersey. 4 [2?] a.m. (EST). Mrs. Nina Cook, an experienced private pilot and wife of a Pan Am flight engineer, saw a large light, blinking at 10-15 times per minute, move up and down along a mountain range. Earlier sighting at 9 p.m.? (Berliner; Saunders/FUFOR Index)	1 min+ [10 mins?]	1		
849.	2496	March 14, 1953. N of Hiroshima, Japan (at 37°25' N, 132°25' E, Sea of Japan). 11:45 p.m. [2:43 p.m.?] USN pilot Lt. Wooton, copilot Lt. J. S. Rose, navigator Lt. D. W. Carey, Capt. G. E. Truelove, radarmen G. F. Delmel and R. D. Kelly, radiomen J. Schaefer and J. L. Chavers, other crewmen L. B. Brown and G. E. Noiseux of U.S. Navy P2V-5 patrol plane saw groups of 5-10 colored lights, totalling 90-100, slowly move aft of the left side of the airplane at a range of 3-7 miles as estimated by copilot. Unidentified target tracked at 7 miles range by airborne	5 mins	10		RV

		APS-20 radar from 45° to 250° relative bearing. (Sparks; Jan Aldrich; NICAP; Saunders/FUFOR Index)				
850.		March 20, 1953. Pork Chop Hill [Old Baldy?], Korea. 11 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
851.	2511	March 21, 1953. Elmira, New York. 3:05 p.m. (EST). 4 GOC observers at GOC observation post saw 6 discs in a group fly high and fast. (Sparks; Berliner; Saunders/FUFOR Index)	few secs	4		
852.		March 23, 1953. Pasadena, Texas. 10:12 p.m. (CST). (Sparks; McDonald list; Saunders/FUFOR Index)	30 mins			RV
853.	2521	March 25, 1953. San Antonio, Texas. 3:05 [11:15 CST ?] p.m. USAF Capt. and Mrs. D. E. Cox saw several lights, some moving straight, others making 360° turns. (Sparks; Berliner; Saunders/FUFOR Index)	1.5 hrs	2		
854.		March 25, 1953. Nouasseur AFB, Rabat, French Morocco. 9:23-10:15 p.m. (GMT). Majors Radin and Rend plus 1+ crew of C-47 at 5,000 ft saw white light above at 7,000 to 8,000 ft maneuvering in spiral pattern over airfield, descend and land on airbase S of runways at 9:28 p.m. visible until suddenly blinked out on the ground at about 10:15. (Sparks; Hynek UFO Rpt pp. 83-87; Saunders/FUFOR Index)	52 mins	4+		RV
855.	2524	March 27, 1953. Mount Taylor, New Mexico. 7:25 p.m. (MST). Pilot of USAF F-86 jet fighter at 600 knots (700 mph) saw and chased a bright orange circle flying at 800 knots (900 mph), and executing three fast rolls. (Sparks; Berliner; Saunders/FUFOR Index)	4 mins	1		
856.	2526	March 29, 1953. Spooner, Wisc. 3:45 p.m. (CST). L. C. Gillette saw an aluminum, circular object fly high and fast, twice reversing its course. Note: Gillette saw a similar object in 1938. (Sparks; Berliner; Saunders/FUFOR Index)	15 secs	1		
857.		March 31, 1953. Honshu, Japan. 7:35 p.m. USAF F-84 jet. (Sparks; McDonald list; Saunders/FUFOR Index)	30 mins			
858.	2535	April 8, 1953. Fukuoka, Japan. 7:55 p.m. 1st Lt. D. J. Pichon, pilot of USAF F-94B jet interceptor, saw a bright blue light descend, accelerate, fly parallel to the F-94, increase its speed and blink out. (Sparks; Berliner; Saunders/FUFOR Index)	45 secs [18 secs?]	1		
859.		April 8, 1953. Bet. Goose Bay, Labrador, and Sondrestrom AFB, Greenland (at 66° 0' N, 53°30' W). 7 p.m. (AST). USAF MATS transport pilot Swenson and copilot saw a white light at 15,000 ft on a steady course in a shallow descending turn. (Sparks; Project 1947; Saunders/FUFOR Index)	6 secs?	2		
860.		April 12, 1953. Sweetwater, Nevada. 3:10 p.m. (PST). USAF crew of C-47 en route to Stead AFB, Nev., observed 10 round flat metallic objects changing formation traveling at high speed on 110° heading at about 7,500 ft [objects' altitude or C-47's?]. No trail, sound, or exhaust. Objects passed under right nacelle of C-47, now observed by copilot who took control of the C-47, and made tight 300° right turn for a better view, then 2 more crew sighted the UFO's. Objects then made a right turn of greater radius than the C-47's turn, at a lower altitude.	2 mins?	4		radar?

		Objects seen for about 120° of their turn, disappeared on 300° heading. (Sparks; NICAP; McDonald list; Saunders/FUFOR Index; BB Rpt 11, p. 12)				
861.		April 14, 19, 21, 23, 1953. Antung, Manchuria, China. (Sparks; McDonald list; Saunders/FUFOR Index)				RV
862.	2542	April 15, 1953. Tucson, Ariz. 5:45 [5:50?] p.m. (MST). S/Sgt. V. A. Locey saw 3 orange lights. (Sparks; Berliner)	3 mins 30 secs	1		
863.		April 19, 1953. Calumet AFS, Mich.-Lake Superior area. 7:18 p.m. (CST) [?]. (Sparks; McDonald list; Saunders/FUFOR Index)	57 mins			radar
864.	2555	May 1, 1953. 10 miles S of Goose Bay AFB, Labrador, Canada. 11:35 [11:20?] p.m. (AST). USAF 59th FIS pilot Capt. R. L. Emberry and radar operator 1st Lt. J. R. Morin of F-94 jet interceptor flying at 24,000 ft, and control tower operator, saw a white light or unidentified aircraft with afterburner but unlike any known aircraft, about 10,000 ft below the jet, evaded interception by F-94. Both object and F-94 climbed to 40,000 ft but object outpaced the jet and continued climb until out of sight. (Sparks; Berliner; Joel Carpenter; Saunders/FUFOR Index)	30 mins	3		triangulation?
865.		May 4, 1953. Goose Bay AFB? Harmon AFB?, Labrador, Canada. 1:50 a.m. [?] Canadian civilian woman saw a football-shaped light metal colored object reflected in a rotating beacon traveling S at high speed, low altitude, disappearing in stratus cloud over the base. Sound like tins striking together. (Sparks; Joel Carpenter; Saunders/FUFOR Index)		1		
866.		May 12 [2? 13?], 1953. [39 miles NW of ?] Goose Bay AFB, Labrador, Canada. 3:20 a.m. [?] [Unidentified radar tracking by USAF F-94 pilot Lt. D. C. Rogers and radar operator Lt. J. A. Lane who attempted interception but unable to make visual contact.] (Sparks; McDonald list; Joel Carpenter; Saunders/FUFOR Index)	30 mins?	2 ?		radar?
867.	2577	May 27, 1953. San Antonio, Texas. 8:30 p.m. Many unidentified civilians, including Jacobson, saw 9 separate meandering lights. (Sparks; Berliner)	15 min	many		
868.		June 10-11, 1953. Goose Bay AFB, Labrador, Canada. 11:34 p.m.-2 a.m. (AST). GCA radar tracking of 25 separate unidentified objects near base traveling about 30-100 knots (35-115 mph) in no specific pattern. [Anomalous propagation?] (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs 26 [2 hrs 15 mins?] mins			radar
869.		June 16, 1953. Kelly AFB, San Antonio, Texas. 7:45 p.m. (Sparks; McDonald list; Saunders/FUFOR Index)	5 mins ?			
870.		June 17-18, 1953. 15 miles from Iwo Jima. 11:45 p.m. (McDonald list; Saunders/FUFOR Index)				radar
871.		June 21, 1953. Naha, Okinawa. 7 p.m. 9 Japanese and Okinawan weather observers saw an unidentified light move slowly. No further data in files. (Sparks; Berliner)	20 mins	9		9 weather observers
872.	2601	June 22, 1953. Goose Bay AFB, Labrador, Canada. 2:10 [5:40?] a.m. Pilot and radar operator of USAF F-94 jet interceptor saw a red light, flying at 1,000 knots (1,100 mph) elude the chasing F-94. (Sparks; Berliner; Saunders/FUFOR Index)	5 mins	2		RV?

873.		June 24, 1953. Hampton Bays, Long Island, New York. 12:18-12:21 a.m. Civilian woman Madelaine Ward saw "a large aircraft" of exotic design with a lighted red band around the middle, 100 ft diameter, flying very slowly and low, coming straight toward her house with an oscillating motion, then stop near her, 80 ft above ground, fly backward over the water, hover, making the noise of a swarm of bees. Object's top section supported a series of red lights and a cabin with 4 portholes through which a control panel was visible, no occupant seen. The cabin rose above the object, rotated, then glided back. Object tilted toward the W, rose toward the SE, disappearing within 3 secs at an 80° angle of climb. 2 days later a yellowish moss was found at the site. (Sparks; Vallée Magonia 112; McDonald files; Jan Aldrich; Saunders/FUFOR Index)	3 mins	1	80 ?	
874.	2606	June 24, 1953. Simiutak, Greenland (66° N, 53.8° W). 11:30 a.m. USAF weather observer Airman/2nd Richard A. Hill saw through a theodolite a rotating red delta-shaped or circular object 3x the size of the weather balloon being tracked at 18,000 ft [object size 30 ft ??] collide with and disintegrate the balloon as the object traveled SE to NW. After hitting the balloon it hovered and rotated for 15 secs, then climbed for 5 mins into the wind at 300°. (Sparks; Berliner; Joel Carpenter; Saunders/FUFOR Index)	5 mins+	1	3 ??	theodolite; weather observer
875.	2605	June 24, 1953. Iwo Jima, Bonin Islands. 11:30 p.m. Crew of USAF KB-29 aerial tanker plane. Radar tracked an unidentified target that twice approached to within 0.5 mile of KB-29, and once to within 6 miles. (Sparks; Berliner; cf. Saunders/FUFOR Index; McDonald list)	2 mins	2+		radar
876.		July 3 , 1953. Tipp City, Ohio. 11:45 p.m. [GMT? EST?] Focht. (Sparks; McDonald list; Saunders/FUFOR Index)	3 mins	1?		
877.		July 20, 1953. Offutt AFB, Omaha, Nebraska. 9:40 p.m. (CST) [?]. Dupray and Smith. (Sparks; McDonald list; Saunders/FUFOR Index)	9 mins	2?		radar
878.		Aug. 2, 1953. Saraland, Alabama (at 30°48' N, 88°4' W). Between 4:30 and 5:30 [6?] p.m. Woman named Hughes in her backyard looking to the NE saw a highly polished spinning top or cone-shaped object reflecting the sun at low altitude traveling from NW to SE. (Sparks; Hynek-CUFOS-Willy Smith files; Saunders/FUFOR Index)	< 1 min [6 secs?]	1		
879.	2663	Aug. 3, 1953. Amarillo, Texas. 12:04 p.m. Airport control tower chief C. S. Brown saw a round and reflective or translucent object fly straight, stop for 7 secs, speed along, stop again, joined by a similar object, then both fly off in different directions. (Sparks; Berliner)	56 mins	1		
880.		Aug. 5-6, 1953. Near Rapid City, South Dakota, and Bismarck, North Dakota. 9:05 p.m. – 1:23? a.m. (CST). GOC observer Miss Phyllis Killian in Black Hawk, S.D., (about 8 miles NW of Rapid City), reported to Ellsworth AFB bright red object first stationary 4 miles estimated distance to the SE [NE?] low on the horizon then rapidly heading S [SSE?] 30° to the right at roughly 2°/sec angular velocity (estimated by Hynek in interview), toward Rapid	4 hrs intermittent	many		RV, triangulations

		City, changing color from red to green becoming "greener" as speed increased. Object then returned to original location to SE of Black Hawk but at a greater distance about 7 miles, disappearing behind hills. ADC radar controller found 2 targets heading S, had difficulty tracking due to ground clutter, 3 airmen sent outside to look saw a high speed light heading S. A few minutes later GOC observer reported the object had returned. An F-84 was vectored and made visual contact then directed to stationary radar target about 15 miles NE of Black Hawk, target started moving 320° Mag out to 70 miles range and F-84 intercept was called off. F-84 pilot was about to land in Rapid City when he noticed silvery object like the brightest star he'd ever seen, to the NW, which he pursued on 350° Mag keeping it at 11 o'clock high, 30°-45° elevation, it disappeared after 30 secs, reappeared for 30 secs then faded from sight. A 2nd F-84 was scrambled from Ellsworth AFB, and on a N 360° Mag heading at 15,000 ft he saw a target 30°-40° to his right and at level elevation which "jumped" in elevation to 15°-30°, changed color from white to green, was much brighter than a star and was moving in relation to the stars (3 specific stars he picked out for reference). Pilot turned on radar gunsight which showed possible target beyond maximum range of 4,000 yards (2.3 miles) and GCI ground radar tracked target 5-10 miles ahead of the F-84 out to 80 miles for 5 mins [960 mph?] when intercept was broken off and target went off scope [about 11:42 p.m.?]. About 20 miles from base F-84 pilot, now at 12,000-14,000 ft, saw a red and white pair of lights 10° below the horizon at 180° Mag and height-finder ground radar showed a target at 8,000 ft. Lights visible for 30 sec periods. Radar scope photos and gun camera photos reportedly malfunctioned. (Sparks; NICAP; Ruppelt pp. 232-5; CR pp. 132-6; Saunders/FUFOR Index; NICAP; BB Misc Microfilm Roll 1, pp. 123-151)				
881.	2686	Aug. 20, 1953. Near Castle AFB, Calif. 9:05 p.m. [GMT?] Crew of TB-29 bomber/trainer plane saw a greyish oval object make 4 passes at the airplane (3 times at 10-20 miles distance), then dive vertically as if two objects [?].(Berliner; Saunders/FUFOR Index)		2+		
882.		Aug. 23, 1953. Port Moresby, New Guinea. 12 p.m. Movie film taken by Drury. (Sparks; McDonald list; Saunders/FUFOR Index)				film
883.	2692	Aug. 27, 1953. Greenville AFB, Mississippi. 9:45 p.m. USAF pilot, M/Sgt., others, all on the ground, saw a meandering light. No further details in file. (Sparks; Berliner; Saunders/FUFOR Index)	50 mins	2+		
884.		Sept. 2, 1953. Sidi Slimane AFB, French Morocco. 9:14 p.m. Lt. Col. William Moore and 1st Lt. J. H. McInnis [in USAF C-47?]. (Sparks; Berliner; Saunders/FUFOR Index)	3 mins?	2		
885.		Sept. 28, 1953. Palmdale, Calif. 7:10 p.m. [PST?] Radar observer of USAF F-94C jet interceptor. Visual observation of 1 orange ball traveling 600-700 mph. (Sparks; Berliner; McDonald list;	6 secs?	2?		radar

		Saunders/FUFOR Index)				
886.		Oct. 13, 1953. Offutt AFB, Omaha, Nebraska. 3 a.m. (CST) [?]. (Sparks; McDonald list; Saunders/FUFOR Index)	36 mins			radar
887.		Oct. 15, 1953. Minneapolis, Minn. 10:10 a.m. During tracking of Project GRAB BAG 79-foot balloon launch, a 40 ft object leaving brief vapor trail was seen by 3 General Mills Aeronautical Lab research engineers including Bartholomew, traveling S in horizontal flight 10° in 9 secs at about 40,000 ft altitude and 25° elevation, 1,100 mph, went into vertical dive for about 10-15 secs, object glowed or flashed in the sun 2-3 times for 1 sec each, seen as a gray mass in the theodolite, leveling off, vapor trail stopped. (Sparks; Hynek UFO Rpt pp. 113-4; Hynek UFO Exp ch. 6, case DD-9; Saunders/FUFOR Index)	40-45 secs	3	1/20 (0.5° ? equiv. in theodolite)	aeronautical research engineers; theodolite
888.		Oct. 16, 1953. Presque Isle AFB, Maine. 9:30 p.m. (EST) [?]. (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs 15 mins			radar
889.		Dec. 3, 1953. North Truro, Mass. (Sparks; McDonald list)				
890.		Dec. 3, 1953. Holloman AFB, New Mexico. (Sparks; McDonald list)				
891.		Dec. 3, 1953. Newark, New Jersey. 12:15-12:45 a.m. Amateur astronomer watching for meteors saw a tiny reddish-brown oval luminous object flying steady from N to S at high altitude without sound or trail, also observed through binoculars. Half the brightness of Jupiter [mag. -1 ?]. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	60-90 secs	1		binoculars
892.		Dec. 3, 1953. Ellington AFB, Houston, Texas. 5:12 p.m. (CST). Civilian ground observers saw a silver grey bright light with "skipping" motion, like a stone skipping on the water, with red trail, same or similar objects seen 3x. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	5 secs + 10 secs + 15 mins	multiple		
893.		Dec. 5, 1953. Houston, Texas. 8:15 p.m. Children saw yellow-orange ellipse with 40x telescope. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	5 mins	multiple		telescope
894.		Dec. 16, 1953. Mediterranean. (Sparks; McDonald list)				
895.		Dec. 16, 1953. Ground site 3 miles WNW of Agoura, Calif., (at 34° 9.75' N, 118° 47' W) and aircraft SW of Long Beach, Calif. 4:58-5:05 p.m. (PST). Lockheed Skunk Works chief Clarence L. "Kelly" Johnson and wife near Agoura and top Lockheed crew aboard WV-2 aircraft near Long Beach about 30 miles away, independently of each other, saw black flying-wing or ellipse or crescent-shaped object about 170-230 ft wide at about 15,000 ±2,000 ft altitude to the W hovering about 30-60 miles away (255° ±1° true to Johnson; 285°-290° true to WV-2 crew, or 270°-275° magnetic) against the bright sky of the immediate post-sunset background. At 5:04 p.m. after 4 mins (to the Johnsons) 6 mins (to WV-2 crew) object suddenly took off in a shallow climb accelerating (at about 130 g's) to approximately earth escape velocity (25,000 mph) to the W over the Pacific, disappearing in 10-13 secs (to WV-2 crew) in 90 secs (to Johnson using 8x binoculars) after reaching 90+ miles altitude. Projected target radiant at ascent angle of about 5° at about azimuth	7 mins	7+	1/10 (2/3 or 0.3° equiv. in binocs)	world's leading aircraft designer, Cal Tech trained Lockheed chief aerodynamicist, chief test pilots; binoculars

		270° is at 17 hrs Right Ascension +2° Declination. (Sparks)				
896.	2838	Dec. 17, 1953. Hassleholm, Sweden. Ulf Christiernsson, pilot of the DC-3 aircraft, and flight mechanic Olof Johansson, saw a brilliant metallic sphere at about 2,000 ft [or at 5,000 ft, above a cloud bank?], below their aircraft [?], traveling 700 mph (?) heading S. Balloon? (NARA; Clas Svahn)	4-5 secs [6 secs?]			
897.		Dec. 23, 1953. Bismarck, North Dakota [?]. 3:20 a.m. Ground observer saw 4 yellowish-white oval objects in trail formation with pulsating light the main part of the object and a short ragged red streamer exhaust about 1/4 the size of the object, heading SSW. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	1-2 mins			
898.	2840	Dec. 24, 1953. El Cajon, Calif. 8:04 a.m. U.S. Navy Lts. J. B. Howard and L. D. Linhard, flying F9F-2 jet fighters, saw 10 silver oval objects flying at 400+ knots (450+ mph), straight and level. (Sparks; Berliner)	5 mins	2		
899.		Dec. 24, 1953. Scott AFB, Illinois. 10:00-10:14 a.m. (CST). Ground observers using binoculars saw 2 oval extremely brilliant silver objects with mirror-like reflections hovering stationary until F-51's were vectored in and the objects disappeared. (Sparks; Hynek-CUFOS re-eval; Jan Aldrich)	14 mins	many ?		binoculars
900.	2844	Dec. 28, 1953. Marysville, Calif. 11:55 a.m. Yuba County Airport Manager Dick Brandt saw a saucer, with a brilliant blue light, reflecting on a nearby building, hovering briefly at one point. (Sparks; Berliner)	1.5 min	1		
901.		Jan. 1, 1954. Toms River, Marlton, Woodbury, and Surf City (39°40' N, 74°10' W), New Jersey. 10:35 p.m. – 12:05 a.m. (Jan. 2). Navy pilot Lt. JG George G. Morgan of Lakehurst NAS, police chief (or captain?) Richard Clement, police officer Oliver G. Osborne and other officers, and 20+ other witnesses, saw 3-12 round or oval white objects with fuzzy edges slightly smaller than Full Moon angular size hovering in the sky to the S for 1.5 hours as 2 objects circled around one (in 2-4 secs) (seen to the ESE from Woodbury, SW from Surf City at higher elevation), then switched places with each other. Some witnesses (such as Mrs. Worthington and son Norton in Woodbury) attempted to drive towards the objects to investigate. Objects suddenly departed to the SW at extremely high speed growing smaller until disappearance in 1-2 secs covering about 60° of sky. Multiple independent witnesses across a baseline of at least 12 miles resulted in triangulation of UFO location near Beach Haven, NJ, seen from distances of about 15 to 40 miles. At least 5 witnesses used binoculars including 7x50 Bausch & Lomb. Hynek calculated speed of 90,000 mph, hovering altitude 4 miles, object diameter 1,500 ft [based on distance of 40 miles; or 500-600 ft based on 15-mi distance]. Projected target radiant at assumed nominal ascent angle of about 5° was at about azimuth 225° is at 22 hrs Right Ascension -30° Declination. (Sparks; Mary Castner/CUFOS; BB Maxwell Microfilm Roll 19, pp. 1807-1821)	1.5 hrs	25	3/4	multiple binoculars; multiple triangulations

902.		Jan. 10, 1954. 5 mi N of Sonoita (about 25 mi SSE of Tucson), Ariz. (at 31° 45' N, 110° 41' W, elev. 4800 ft). 5:25-5:40 p.m. (MST). James E. McDonald, two other Univ. of Chicago meteorologists, and another passenger in a car were driving N on Hwy 83 when McDonald spotted a brilliant white stationary object, stellar magnitude about -5 to -7, in the SW at about 238° azimuth about 1° to 2° above the Santa Rita Mtns. (elev. about 9,400 ft) about 10 miles away, or at a total elevation about 6° to 8° above horizontal. Sun had set below mountains at 243° azimuth, +2° apparent elevation (refraction included), to the right of the UFO. No noticeable parallax with mountains as they drove 8-10 miles further N (with wide swerves W and E by about 1.5 mi), thus distance estimated at >10 miles (size possibly about >15 ft). Lost sight due to mountains as they drove on. (Sparks; Mary Castner/CUFOS)	15 mins	4	1/30 ?	McDonald + 2 other Univ. Chicago meteorologists
903.		Jan. 14, 1954. Kelly AFB, Texas. (Sparks; McDonald list)				
904.		Jan. 14, 1954. New York City, New York. 5:30 p.m. USAF crew of B-47 and passengers saw a fiery object hit the aircraft wing without any damage. (Sparks; Weinstein; BB files??)				
905.		Jan. 28 [26?], 1954. Cold Bay, Alaska. [10 p.m.?] USAF crew of C-54 transport saw a red fireball that stopped then passed the plane. (Sparks; Weinstein; BB files??)	11 mins?			
906.		Feb. 1, 1954. 35 miles SW of Tuscaloosa, Alabama {E of Palestine, Texas?}. 2 or 3:15 p.m. (CST). Electronics engineer Verne Baumgartner of Winzen Research and pilot Glenn Hovland, crew of USN Office of Naval Research aircraft at 6,000 or 12,000 ft heading E at 80 [?] or 120 mph towards a Skyhook cosmic-ray balloon at 90,000-100,000 ft and 15-30 [20?] miles away from the balloon saw 2 then 4 objects for a total of 6 very bright or deep white or gray circular objects about 20 ft in size [had to be at least 100 ft to be visible to naked eye if 15 miles away] in evenly spaced V-formation (or trail formation?) at about 80,000 or 85,000 ft about 15 miles away about 45° (or 60°) above horizontal fly over [in between aircraft and balloon] to the left or N of the balloon and around the balloon [?], hover [?] under the balloon in level flight headed ENE then vertically ascend at right angles to level flight out of sight at about 70° elevation in several seconds. Movie film taken by Bolex camera with 6-inch telephoto lens. Observed through binoculars. Balloon camera took one photo which captured some of the UFO's, which reportedly were translucent (terrain could be seen through them). (Sparks; Hynek-CUFOS-Willy Smith files; austin, Minn, Daily Herald, July 22, 1954; Joel Carpenter)	1-1/2 to 5 mins	2		[triangulating photos from instrumented balloon and chase aircraft; binoculars]
907.		Feb. 4, 1954. Carswell AFB, Ft. Worth, Texas. 11 p.m. (Sparks; Shough)				RV
908.		Feb. 15, 1954. Near Savannah River AEC site, South Carolina. 10:15-10:36 p.m. (EST). USAF ADC radar operator S/Sgt. K. A. Payne, 728th AC&W Sq, Donaldson AFB, Greenville, South Carolina, using MPS-7 radar tracked high speed unidentified target the size of about 2	21 mins	2+		multiple radars

		normal aircraft to the S at 203° azimuth at roughly 100 miles range (at about 33.5° N, 83.0° W, near Siloam, Ga.) heading E about 100° true at about 360 knots (400 mph) and 20,000 ft altitude as of 10:18 p.m. (when near Crawfordville). At 10:21 at about 33°28' N, 82° 5' W (near Augusta) the target had reached 22,000 ft and turned slightly right to about a 110° heading straight toward the Savannah River AEC plant and accelerating to operator estimated speed of 900 knots (1,000 mph) average speed (or as recalculated from mapped positions about 750 mph, probable peak speed about 1,000 mph at 1 g at 10:21:30), then it violated the prohibited AEC airspace at 10:22 at about 33°24' N, 81°53' W. Pope AFB radar also tracked the target violating AEC airspace and notified Payne at Donaldson AFB. At that point at 10:22:30 (?) object had made a left turn to about a 75° heading, slowing to about 600 mph and continued turning to about 55° heading. At 10:23 at about 33°30' N, 81°39' W (near New Ellenton, S.C.), target made a sharp 75° turn to the N at about 340° heading having accelerated again to about 1,200 mph average speed (probable peak speed about 1,800 mph at 1.5 g's at 10:22:45) heading out of the AEC prohibited zone. Target slowed to about 600 mph again by 10:24 near Aiken when it sharply turned to the E on a heading of about 70° then 50° then 45° while passing to the S of Columbia, then turned N to a heading of about 20° where it faded near Kershaw at 10:36 p.m. (Sparks; Jan Aldrich)				
909.		Feb. 22 [Mar. 2?], 1954. York, Penna. (39.96° N, 76.72° W) Several pilots of fighters in the air and GOC observers on ground saw 14 discs climb when the fighters approached. Ground radar tracking. (Sparks; Weinstein; BB files??)		several		
910.	2913	Feb. 26, 1954. Newburyport, Mass. 2:30 p.m. Architect R. M. Pierce, marine engineer George Avery and another, saw a silver disc, with a white trail, make a loud roar. (Sparks; Berliner)	30-60 secs	3		
911.	2923	March 2, 1954. Near Harrisburg [Middletown and York], Penna. 10 p.m. Research engineer R. C. Swengel saw 3 objects, each with two lights, fly straight and level at medium speed. Military and civilian witnesses? (Berliner; Saunders/FUFOR Index)	30 mins?	1+ ?		research engineer
912.	2926	March 5, 1954. Nouasseur AFB (33°22' N, 7°35' W), French Morocco. 7:15, 7:38, 9:55 p.m. Crews of USAF KC-97 aerial tanker planes and a C-54 transport saw 1-2 white or amber objects or lights make passes at the aircraft on collision courses as they practiced GCA landings. At 7:15 p.m., KC-97 pilots Capt. G. E. Brown, 1st Lt. L. B. Gordon and 1st Lt. J. P. Glover, 301st Air Refueling Sq, 301st Bomb Wing, while flying KC-97 to practice landing on 180° heading at 1,500 ft about 5-8 miles SW of Nouasseur base saw 2 white lights to the right at about the same altitude, with one light slightly lower than the other, appearing to be 2 aircraft in formation on collision course or "making a pass" forcing an evasive turn away by the KC-97. Later [at 8:20? 9:20?], after landing and takeoff they saw the same or similar 2 white lights on the same	mins	9		

		course from the S at 180° on a collision course and they made an evasive 360° turn. At 7:38 p.m. another KC-97 flown by pilots Capt. Robert R. Zadnick, Lt. Paul R. Fisher and Lt. George A. Kerr, also 301st ARS, 301st BW, on GCA landing at 180° heading at 1,500 ft about 5 miles SW of Nouasseur base saw a light at about the same altitude and to the left of course appearing to be headed W on a cross path or collision course, as it crossed it was seen to be 2 lights as if 2 jets in formation, no aircraft running lights. One light passed over and one under the KC-97. At 9:55 p.m., C-54 from Lagos, Nigeria, based at Kelly AFB, Texas, senior pilot Capt. William M. Pond, copilot Lt. I. W. Gilchrist and navigator Capt. James F. Pullen while flying at 2,000 ft on 170° heading on GCA landing at Nouasseur base saw white or amber light like an aircraft landing light at about the same altitude approaching on a collision course heading W 2-3 miles away, then turned onto a direct headon course, passing within 2 miles, then suddenly disappeared like turning off a light for 10-15 secs, then reappeared hovering, descended to ground then rose, and disappeared behind the C-54 after completing its turn onto final landing approach. No radar or other visual contact made. (Sparks; Jan Aldrich)				
913.		March 9, 1954. Cincinnati, Ohio. 3:57-4:05? a.m. Civilian-military pilot John H. Stewart while driving N saw a pulsating bluish-white luminous halo surrounding a dark ellipsoidal object that may have been larger than a DC-6 (117 ft) slowly moving S at about 2,000-3,000 ft height, then hovered for 7-8 mins over the General Electric plant, the last 4 mins of which Stewart observed after stopping his car. Object accelerated and suddenly changed color to yellow then red, changed course to the E, then disappeared in an almost vertical climb in secs. (Sparks; Jan Aldrich)	7-8+ mins ?	1	4	
914.		March 11-12, 1954. Pittsburgh, Penna. (Sparks; McDonald list)				
915.	2937	March 12, 1954. Nouasseur AFB, French Morocco. 9:35 a.m. USAF 1st Lt. Robert Johnson, flying an F-86 jet fighter, chased an object at more than 530 mph for 30 secs, but was unable to catch it. Object appeared to be the size of a fighter plane but had neither tanks nor trails [tail?]. (Sparks; Berliner)	30 secs +	1		
916.		March 25, 1954. Cape Canaveral [Ft. Lauderdale?], Florida. 3:30 [3:20?] p.m. USMC pilot Capt. Dan Holland flying one of 3 jets with the 3rd Marine Air Wing on an E heading at Ft. Lauderdale at about 26,000 ft and 400+ mph saw a gleaming white ball-shaped object with a gold ring around the lower 1/3, about 2x size of his jet, descend vertically on a collision course, took evasive action, radioed the other jet pilots to look. Object suddenly stopped 3,000-4,000 ft above, he banked toward it and activated gun camera but object then accelerated and disappeared to the E at tremendous speed in about 15 secs. The other 2 pilots flying ahead of him did not see object. (Sparks; Weinstein; NARCAP; BB files??)	15+ secs	1	1/2	gun camera film?
917.		April 7, 1954. 3 miles SW of Fentress, Virginia. 3 p.m.	25-30	1		

		USN pilot C. R. Allen flying F-6F for Fleet Training Center, Norfolk, Virginia, at 3,000 ft heading W near Fentress saw 2 strange saucer-shaped discs in close formation at 3,500 ft height about 15 miles away at about 2 miles NW of Lake Drummond heading NE, seen below and against cloud base of scattered cumulus clouds at 3,000-3,500 ft. Allen turned right to follow objects as they covered about 140° of arc maintaining about the same distance, disappearing near Cape Henry to the NE about 20 miles, covering 30 miles total in about 25-30 secs [3,600-4,300 mph]. (Sparks; Jan Aldrich)	secs			
918.	2962	April 8, 1954. Chicago, Illinois. 4:30-5 p.m. Lelah H. Stoker saw a brilliant white round-topped disc, parachute-shaped, with a humanoid suspended beneath it, skim back and forth over the water. Stoker called the Coast Guard, a CG cutter appeared after 10 mins, then the UFO approached shore. Stoker saw a short human-like occupant in a green tight one-piece suit and suspended below the object who got out in undergrowth along the shore then walked around. When CG cutter gave up searching the occupant returned to the object which moved back over the lake then took off at high speed to the E. (Sparks; Berliner; Davis-Bloecher 1978)	30 mins	1		
919.		April 22, 1954. San Nicholas Island, Calif. 2 p.m. USN Seaman Apprentice James B. Stephens, Jr., and Seaman Bernard G. Klein, Jr., while driving a Navy vehicle on base saw a 4-6 ft long gray cigar-shaped object with pointed nose traveling just above the ground on a near parallel course that would not cross the road until far ahead. The object suddenly impacted the ground sending up a cloud of dirt or dust and disappeared from sight. They stopped and searched for 20+ mins but found nothing. Further USN investigations and radioactivity surveying found no traces. (Sparks; Jan Aldrich)		2		
920.	2974	April 23, 1954. Pittsfield, Maine (at 44°53' N, 69°35'W). 9:30 a.m. Mr. and Mrs. Floyd E. and Rose Belle Robinson saw a silver circular saucer-shaped object with a dome 1/2 the size of the base that was the source of constantly flashing brilliant light, making a loud sound like a swarm of bees, which hovered at about 70° azimuth without tilting, flew horizontally with a whirlwind effect and cold air that moved stones underneath its path, then it rose vertically at 30° azimuth without tilting until out of sight. (Sparks; Jan Aldrich)	4 mins	2	6	
921.	2976	April 24, 1954. Hartland, Maine. 6:10 p.m. (EST). GOC observer Dean Robinson saw a very large, silver, oblong object with a dome on top and flashing light inside the dome, no sound or exhaust trail, stationary on the horizon for 15 mins then climbed straight up to disappearance. (Sparks; Jan Aldrich)	15 mins	1		
922.	2983	April 26, 1954. Athens, Georgia. 8:35 p.m. (EDT). Cecil M. Cartey, Howard and Mabel Hopkins and their daughter Betty, saw 15-20 yellow objects in a V-shaped or check-mark-shaped formation, fly at tremendous speed from low elevation in the S in smooth motion to high elevation in the N where they disappeared, no sound. (Sparks; Jan	10 secs	4	20	

		Aldrich)				
923.	2997	May 11, 1954. Washington, D.C. 10:45 p.m. 3 USAF air policemen at Washington National Airport saw 2 bright lights on 3 occasions fly straight and level, make 90° degree turns and fade. (Sparks; Berliner)	3 x 45 secs	3		
924.		May 13, 1954. Pacific bet. Hawaii and Calif. (at 26° 5' N, 146° 12' W). 1:45 a.m. (AHDT). USAF pilot Capt. D. B. Mautner, 32nd Air Transport Sq, McChord AFB, Wash., and crew of C-124 transport en route from Hickam AFB, Hawaii, to Travis AFB, Calif., saw bright light moving parallel with them moving to the left, object signaled back in response to aircraft blinking lights, departed to NE at very high speed climbing. (Sparks; Jan Aldrich)	5 mins	2+ ?		
925.		May 14, 1954. 10 miles NNW of Great Yarmouth, England, UK. 3:40 p.m. 3 USAF F-86 jets flown at 40,000 ft Mach 0.85 (560 mph) by Capt. Kenneth J. Scott, Jr., 2nd Lt. Harry Joseph Ickes and 2nd Lt. David B. Clardy, 91st Fighter Sq, were vectored by GCI radar Type 7 at RAF Bawdsey to unidentified object at 8 miles at 1 o'clock to their course taveling at 240 knots IAS, to the S [N?] at 10° azimuth, sighted visually as about 30 ft silver or gray round object as seen from below, showing thin silhouette while turning, at 50,000-60,000 ft. Fighters unable to close on object which made 180° turn and disappeared at high speed beyond conventional aircraft capability, climbing high above ground radar range. (Sparks; Jan Aldrich)	90 secs	3	30 ??	RV
926.		May 14, 1954. Dallas, Texas. USMC pilots of 4 fighter planes saw 4 formations of 4 round objects changing color from orange to white. (Sparks; Weinstein; BB files??)				
927.	2994	May 18, 1954. 10-15 (or 6-7) miles SE of Lake Elsinore (33°36' N, 117°20' W), Calif. 12:48 p.m. RAF Squadron Leader Donald R. Higgin, assigned to USMC All Weather Fighter Sq, El Toro MCAS, Calif., while flying an F3D-2 jet fighter at 15,000-16,000 ft on a heading of 240° magnetic [255° true] at 300 knots IAS and descending, saw a dark blue almost black gun-metal "glint" delta-shaped object, about 22-23 ft long and 20 ft wide, with a 3 fins of equal size and shape, at his 11 o'clock position just above the cockpit of his wingman flying another F3D-2 about 250 ft away. Object was on a headon collision course but before Higgin could radio warning it passed under his wingman and between their aircraft, descending at a 25°-30° angle on a heading N of about 30°. (Sparks; Jan Aldrich)	few secs	1	10	
928.		May 18, 1954. Cannon AFB, New Mexico. 7 p.m. 2 witnesses saw a house-size lens-shaped object land near railroad tracks, kicking up a small sand storm in the desert. One witness approached it, then ran away in fear. (Sparks; Vallée Magonia 129; BB files??)		2		
929.	3009	May 22, 1954 LaPorte, Indiana. 9:15 p.m. Highway engineer R. W. Dring and engineer Geert Tibma saw a bright light make a shallow climb. (Sparks; Berliner)	45 secs	2		
930.		May 24 [23?], 1954. 15 miles NW of Dayton, Ohio (39.75° N, 84.18° W). 12 p.m. 2 USAF crew members of				

		RB-29 saw circular object below the plane. (Sparks; Weinstein)				
931.	3020	May 31, 1954. Concord, New Hampshire. 10:15 a.m. Mrs. L. K. Stevens saw a very white, elongated object fly extremely fast then blink out. (Sparks; Berliner)	8-10 secs			
932.		June 1, 1954. Near Boston, Mass. 9:30-9:40 a.m. TWA pilot Capt. Charles J. Kratovil, copilot W. R. Davis, and flight engineer Harold Raney, on a Paris-New York TWA Constellation heading SW, spotted "a large, white-colored disc-like object" overhead, occasionally lost behind overlying clouds. Flying into WSW headwinds at 300 mph, they concluded it could not be a balloon, and radioed Boston airport control tower, which said jets were scrambled and then saw the object at about 10,000 ft higher than their 10,000 ft altitude, but could not close with it. (Sparks; McDonald list)	10 mins	3		
933.	3029	June 1, 1954. From 400 miles S to Minneapolis, Minn. 9 p.m. Crew of USAF B-47 jet bomber at 34,000 ft altitude saw object with running lights fly at 24,000-44,000 ft altitude, pacing the B-47 within 10,000 feet of its 34,000 foot cruising altitude as it flew 400 miles north to Minneapolis, varying its height both below and above the aircraft. (Sparks; Berliner; Sparks)	1 hr	2+		RV?
934.		June 7, 1954. West Germany. 2 Germans saw 2 glowing discs descend vertically then rise rapidly. (Sparks; Jan Aldrich)	10 secs	2		
935.	3037	June 8 [9?], 1954. Texarkana, Texas. 1 a.m. or 2:30 a.m. (file not clear). L. T. Prewitt, employee of Red River Arsenal, saw a golden yellow light fly over his house, making a "shhh" or buzzing sound. (Sparks; Berliner)	2 mins	1		
936.	3042	June 10, 1954. Estacado Plain [or Llano?], Texas. 9:09 p.m. USAF pilot Capt. Bill McDonald, in flight, saw a white light descend at 45° from great altitude, pass under his aircraft, make two 360° turns and blink out. (Sparks; Berliner)	30 secs			
937.		June 21, 1954. Delray Beach, Florida. 9:30 p.m. (EDT). Anne Nekel Brown and John Thomas Brown saw bright round disc-shaped object with dome-like structure on top seen when tilted toward the witnesses after hovering stationary to the S at 45° elevation. Object was spinning and then started moving very slowly E over the ocean with an erratic wobbly motion, straightened out then disappeared at high speed to the E at 8° elevation. (Sparks; Jan Aldrich)	12 secs	2		
938.	3062	June 22, 1954. Miami Beach, Florida. 9 p.m. USMC Maj. E. Buchser and Maj. J. V. Wilkins saw a meteor-like object descend, stop, and become extremely bright. (Sparks; Berliner)	7 mins	2		
939.		June 23, 1954. 10 miles SE of Columbus, Ohio. 8 [9?] p.m. Pilot Capt. Harry Roe, Jr., flying Ohio Air National Guard F-51 fighter at 240 mph from Dayton to Columbus saw round white object with no exhaust trailing the fighter in the same position a little above and behind him at close range, detected on airborne radar [?]. Roe maneuvered to try to lose the object or collide with it but it remained in	30+ mins	2?		RV?

		relatively the same position to the aircraft until it departed to the SE. Ground controller radar tracked object [?]. (Sparks; Project 1947; NARCAP)				
940.	3067	June 24, 1954. Danvers, Mass. 12:45 p.m. R. B. Tomer, director of commercial engineering for CBS-Hytron, saw a white, elliptical-shaped object cover 45° of sky. (Sparks; Berliner)	30 secs	1		engineer?
941.	3072	June 25, 1954. Indian Lake, Ohio. 5:05 p.m. Experienced private pilot John Mark, flying Navion lightplane, saw a 60 ft silver or aluminum round object with a flat bottom, raised front edge, inverted cone on top, fly horizontally, hover, make a high-g pull up and then a steep climb into an overcast. Radar at Dayton, Ohio, airport, tracked very fast target at same location. (Sparks; Berliner)	3-5 mins	2 ?		RV
942.		June 29-30, 1954. NE of Seven Isles, Quebec, Canada (at 51°53' N, 63°10' W initial position). 8:05-8:23 p.m. (AST). Capt. James Howard, FO Lee Boyd, navigator George Allen, radio officer Doug Cox, engineering officers Dan Godfrey and Bill Stewart, stewardess Daphne Webster, and passengers of BOAC airliner flying at 230 knots (265 mph) at 19,000 ft heading 49° (about NE) to Goose Bay, Labrador, saw a large opaque or black object with six smaller satellite objects on a horizontal line, constantly shifting in shape like a mirage, but first seen at roughly 20°-45° depression angle below horizon, seemingly at about 8,000 ft and below a cloud level. Object azimuth about 5° left or S of sun low on horizon, or at about 300° to 305° True as sighting progressed. Satellite objects merged with main object which disappeared within seconds (within 3 mins according to Capt Howard's log) by growing smaller about time when F-94 interceptor approached at 8:20. Possibly mass flock of millions of birds (Arctic tern?) seen against bright sunset sun, <i>sorta sol</i> "Black Sun" effect, where the flocking creates complex shapes against the sunset sky. (Sparks; AP dispatch, July 1, 1954; NICAP website)	18 mins	12		
943.		June 30, 1954. Mobile (at 30°40' N, 88°5' W) and Brookley AFB, Alabama. 6:50 p.m. 4 civilians and a number of military personnel saw a brilliant silver or white object with short stubby wings approach from the S, circle over Mobile, then depart to the NE. Radar contact at 6:30 p.m. with stationary 8-mile object at 55 miles at 60° azimuth is evidently unrelated anomalous propagation. (Sparks; Hynek-CUFOS-Willy Smith files)	60 secs	6+		
944.		July 3, 1954. Near Bermuda. 1:45-1:55 a.m. Radar scope photos of a geometric formation of 7 objects traveling SW [10-50 miles?]. [6 disc-shaped objects circled larger disc in the center at low altitude. B-56?? aircraft crew sighting?] (Berliner)	10 mins	1+		radar scope photos
945.		July 5, 1954. West Berlin, Germany. (Sparks; Jan Aldrich)				
946.		July 11, 1954. Hunterdon County, New Jersey. USAF crews of 4 bombers saw a disc-shaped object pace their planes. (Sparks; Weinstein; BB files??)		4+		

947.		July 14, 1954. St. Louis, Missouri. 7:50 a.m. (CDT). McDonnell Aircraft Propulsion Lab employees sighted 1.5-foot sheet-like object maneuvering in company parking lot from distances varying from 4 to 200 feet, first descending from the E at 30 ft altitude, stopped on the ground, rose to 4 ft height, made right-angle turn to N, traveled 75 ft and climbed above 8-ft fence to disappear in the overcast sky, under light almost calm wind conditions. One observer followed at 5-ft distance. (Sparks; Hynek UFO Rpt pp. 150-1)	3-5 mins	10	40	aeronautica 1 lab employees
948.	3116	July 18, 1954. Normandy, Missouri. 8:40 p.m. A. T. Chamblin saw a greenish-white disc. (Sparks; Berliner)	30 mins	1		
949.		July 19, 1954. French Equatorial Africa. (Sparks; Jan Aldrich)				
950.		July 25, 1954. Middle Sister Island, U.S.-Canadian border W Lake Erie. 7:12 p.m. Attorney L. B. Tussing saw a black cylinder, 12:1 length/width ratio, moving fast along the surface of the lake. (Sparks; Berliner)		1		
951.		July 27, 1954. Pepperrell AFB, Newfoundland, Canada. (Sparks; McDonald list)				
952.		July 29, 1954. Korea. (Sparks; McDonald list)				
953.		July 29, 1954. About 3 miles SSE of Carysfort Reef Lighthouse, Key Largo, Florida (at about 25°10' N, 80°12' W). 3:40 a.m. Key West Naval Base USN Chief Quartermaster Milbert James Brown and Helmsman Seaman Sydney J. Martin aboard USS YTB-543 sailing S on 205° true course at 6.5 knots saw a huge, bright pale blue or whitish-blue egg or blimp-shaped 300-500 ft object with 4 pointed cones of light, major/minor axis about 3:1 oriented horizontally, angular size 3x sun, traveling at tremendous speed estimated at about 7,200 mph (better estimate about 5,000 mph) in level horizontal flight from the W through S then E then NE, at 10°-12° above the horizon passing in front of mostly cumulus clouds covering 30% up to 15° elevation. Brown first saw the object at about 243° azimuth 10° elevation about 4 miles away moving to the left heading E viewed across the bow of the ship to the SSW at which point he began stopwatch timing (6.3 secs at disappearance, azimuths measured immediately after sighting by reference to 5 ships and a landmark used as sighting fix points). Object passed through point of closest approach at about 160° azimuth 12° elevation 1-1/2 miles away, moving to the left through a gradual-arc flight path of about 8 miles radius of curvature (about 40 g's centripetal acceleration), passed through E along a now straightened path headed to the NE, reaching maximum N position at 70° azimuth about 8 miles away when it curved slightly back as if veering off sharply to the right to head E, disappearing at about 68° azimuth 10° elevation 9 miles away behind a cloud bank. No sound or trail. (Sparks; Jan Aldrich)	6.3 – 8 secs	2	1.5°	binoculars, stopwatch
954.	3140	July 30, 1954. About 15 miles SE of Los Angeles, Calif. 11:15 a.m. (PDT). Hughes Aircraft test pilots Englert and Peterson, flying a B-25 bomber on a maintenance test hop heading ESE airspeed 170 mph [true airspeed about 200	4+ mins	2		Hughes test pilots; EM ?

		mph] at 7,000 ft, saw a metallic, pencil-shaped object in horizontal orientation hover at above 30,000 ft for an unstated length of time while they climbed to 11,000 ft and made 30° turns to try to get a better view of object [over 4+ mins at max climb rate of about 1,000 ft/min]. Peterson, also a National Guard F-86 jet pilot, attempted to scramble jet intercept from Van Nuys National Guard Ops but could not establish radio contact (EM??). USN aircraft from the S seemed to pass under object without noticing it. (Sparks; Jan Aldrich)				
955.	3149	Aug. 2, 1954. Westlake, Ohio. 5:17 p.m. Ex-AAF B-17 gunner (19 missions) N. E. Schroeder saw a thin, bright ellipse, like polished metal, hover for 5-8 secs, drop down 3,000 ft in 3 secs, hover again then fade out. (Sparks; Berliner)	20 secs	1		
956.	3155	Aug. 6, 1954. San Antonio, Texas. 6 p.m. Mechanical engineer L. H. Horner saw an intensely white elliptical light change to yellow, orange, pink, 4-5 times while flying straight and level. (Sparks; Berliner)	5 mins	1		mech engineer
957.		Aug. 7, 1954. West Germany. (Sparks; Jan Aldrich)				
958.	3162	Aug. 11, 1954. Yoron Jima, near Okinawa. 8:55 p.m. P. L. Percharde, electrical engineer and assistant manager of Moeller Shipwrecker Co., of Okinawa, saw a line of blue lights underneath a blue circle with a black center fly over ship and climb, illuminating and agitating the clouds. (Sparks; Berliner)		1		elec engineer
959.		Aug. 12 [11?], 1954. Maxwell AFB, Alabama (32.37° N, 86.36° W). 2:29 a.m. [9:54 p.m.?] Pilots flying 2 helicopters and 2 ground controllers saw a saucer-shaped object with slight red glow. (Sparks; Weinstein; Saunders/FUFOR Index)	35 mins	4		
960.	3166	Aug. 15, 1954. San Marcos, Texas. 10:20 p.m. USAF Maj. W. J. Davis and Capt. R. D. Sauers, flying a C-47 transport plane, saw a dark blue oblong object pace the C-47, veer away, then cross in front of it. (Sparks; Berliner)	5 mins	2		
961.		Aug. 22 [23?], 1954. N France [W Germany?]. (Sparks; Jan Aldrich)	30 mins?			
962.	3180	Aug. 24, 1954. Egilstadir [Lagarfiot or Lagarfljot River?], Iceland. 8:30 p.m. An unnamed farmer saw a flat cylinder, 2-2.5 ft long, 4-5 ft in diameter, make a loud whizzing sound, fly straight and level, fast, then slow, then fall into sandbar. (Sparks; Berliner)		multi ple?		
963.	3182	Aug. 26, 1954. Danville, Virginia. 6:15 a.m. Rev. W. L. Shelton saw 2 domed ellipses, 20 ft long, 8 ft thick, 10 ft at ends, glowing silver or orange, hover, then climb side-by-side while getting brighter. (Sparks; Berliner)	2 mins	1		
964.	3185	Aug. 27, 1954. Dorchester, Mass. 1 p.m. E. A. Srazdes saw 7 large, white, teardrop-shaped objects turn blue fly in line formation and increase speed. (Sparks; Berliner)	2 mins	1		
965.		Aug. 28, 1954. Tinker AFB, Okla. (35.42° N, 97.37° W). 8:30 p.m. Several USAF pilots flying fighters saw a triangular formation of 15 objects, tracked by ground radar. (Sparks; Weinstein)		several		
966.	3189	Aug. 29, 1954. Prince Christian, Greenland. 11:05 a.m. 1st Officer H. G. Gardner and engineer J. V. D. Whitisy	10 mins	2 [3?]		

		[and another witness Namely?] flying on Royal Dutch Airlines DC-4 (PH-DBZ), saw 3-4 dark, lens-shaped objects veer N and change position in formation. (Sparks; Berliner; Saunders/FUFOR Index)				
967.	3196	Sept. 4, 1954. Butler, Missouri (38.26° N, 94.34° W). 3 a.m. [CST?] CAA communications specialist J. Faltemeier saw 20-30 lights, as if on a string, fly straight and level. (Sparks; Berliner)	1.5 mins	1		
968.	3198	Sept. 5, 1954. Butler, Missouri (38.26° N, 94.34° W). 12:23 a.m. [CST?] CAA communications specialist J. Faltemeier saw a silver or white object with a slightly swept-back leading edge and a following exhaust, fly straight and level, then veer SW to S. (Sparks; Berliner)	30 secs [24? secs]	1		
969.	3213	Sept. 18, 1954. Kimpo Air Base, Japan. 5:55 a.m. 2 control tower operators, a weather forecaster and a weather observer, saw a round object, like polished aluminum, fly straight and level. (Sparks; Berliner)	11-13 mins	4		weather forecaster & observers
970.		Sept. 18, 1954. Near Denver, Colo., Santa Fe, Las Cruces, New Mexico, to Enid, Okla. (36.39° N, 97.88° W). 8:40 p.m. Green fireball seen by thousands of witnesses heading SE, noiseless, angular size of full moon. (Sparks; Ruppelt p. 47)		1,000' s	1	
971.	3222	Sept. 21, 1954. Barstow, Calif. (34.90° N, 117.02° W). 1 a.m. (PST) 2 local policemen, 4 USMC police, and a highway patrolman saw a red-orange ball giving off sparks, and a smaller light, making a zigzag descent then hover. (Sparks; Berliner)	20 mins	7		
972.	3224	Sept. 21, 1954. Santa Maria Airport, Azores (36°58' N, 25°10' W). 9:45 p.m. Airport guard saw a 10 ft x 5 ft light metallic blue, pecan-shaped object with a clear glass or plastic nose and door, poles or aerials on the nose, humming or whining as it hovered, then land vertically 50 ft away. A blond man, 5 ft 10 in tall appeared, spoke in a strange language, patted the guard on the shoulder, got in the object, hooked up his harness, pushed a button, took off with the object's nose pointed up, then levelled off and climbed vertically. (Sparks; Berliner)	2-3 mins	1+ ?	20	
973.	3226	Sept. 22, 1954. 3 miles E of Marshfield, Missouri. 9 [11?] a.m. Private pilot Jack N. Williams and Ernest J. Ash saw a thin, translucent, tan asymmetrical boomerang-shaped object about 6-7 ft wide revolving as it hovered to the SW about 600 ft height and 600 ft distance, ascended to 1500 ft in 20 secs, descended, then tumbled down behind some trees after emitting white puff of smoke or vapor. Marks were found in the ground "pulverized." (Berliner)	15 mins	2	1	
974.	3227	Sept. 23, 1954. Gatlinburg, Tenn. 9:45 a.m. (EST) Dave Owenby [and Trainer?] saw 2 bright silver, wheel-shaped objects fly N to S in trail. (Sparks; Berliner; Saunders/FUFOR Index)	2 mins	1 [2?]		
975.		Sept. 26, 1954. Altoona, Penna. 9:04 p.m. (EST) Capt. Picune and crew of United Airlines DC-6 Flight 606 at 19,000 ft and ground speed 382 mph saw a fire-colored object, flat on bottom rounded on top, approaching, flying parallel for about 1 min, then pulling forward at	3 mins	2+ ?		

		tremendous speed, disappearing in the E. (Sparks; NARCAP; Saunders/FUFOR Index)				
976.		Oct. 5, 1954. Houston, Texas. [Smith?] [6:45 p.m. CST?] (Sparks; McDonald list; Mary Castner/CUFOS)	15 mins? 45 mins?			radar?
977.	3260	Oct. 13, 1954. Nouasseur, French Morocco. 10:05 a.m. Weather observer following a balloon in his theodolite saw a round, flat, silver object fly straight and level. (Sparks; Berliner)	30 secs	1		theodolite
978.	3269	Oct. 15, 16, 17, 1954. Kingfisher, Okla. 8:45 p.m. 50 objects with illuminated bottoms were seen flying in a V-formation, high speed, on successive nights. Only data is on summary card. (Sparks; Berliner)				
979.		Oct. 23, 1954. Tinker AFB, Okla. (35.42° N, 97.37° W). 9:23 p.m. (CST) (McDonald list)				
980.	3281	Oct. 28, 1954. Miho Air Base, Japan. 5:32 p.m. USAF pilots Lt. Col. O. C. Cook and Lt. J. W. Brown, on ground using 7x50 binoculars, saw a brilliant white, round-oval object climb in front of clouds, brighten, turn 90° to the N. (Sparks; Berliner)	45 secs	2		binoculars
981.		Oct. 29, 1954. SE of Taiwan (at 21°50' N, 123°30' E). 6 p.m. USAF crew of C-47D transport plane saw a long narrow bright blue object emitting deep-orange sparks from front and rear. (Sparks; Project 1947)				
982.	3287	Oct. 29, 1954. Terciera Islands, Azores. 9 p.m. 4 Portuguese nationals saw a grey object, shaped like a stovepipe with a center bulge and short wings (10 ft long, 3 ft in diameter, 3 ft wings) having concave wingtips, make a gargling sound when hovering, then disappear in the glare of airplane landing lights. (Sparks; Berliner)	4-5 mins	4		
983.	3326	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)	3 mins	1		
984.		Nov. 19 [16?], 1954. 130 miles ESE of New Orleans, Louisiana. 9:04 p.m. Crew of National Airlines Flight 918 at 17,500 ft en route from New Orleans to Tampa, Flor., heading about 105°, saw a light flashing blue and white moving up and down directly in front at an unknown distance for 3-5 mins when it moved to the NE out of sight. (Sparks; NARCAP; McDonald list; Mary Castner/CUFOS)	3-5 mins			radar?
985.	3331	Nov. 19, 1954. Corvallis, Oregon. 4:15 p.m. P. J. Gunn, assistant professor of art at Oregon State University and ex-USN aviation cadet, saw a bright white light hover 8.5-9 mins, then cross 20° of sky in 3-3.5 mins. (Sparks; Berliner)	12 mins	1		prof
986.	3341	Nov. 28, 1954. Manila, Philippines. 10:50 a.m. An anonymous medical doctor saw a flat-bottomed, domed object 65-70 ft across, 18-20 ft high, bright orange with yellow discs attached and an exhaust trail, which flew N, stopped, reversed its course. (Sparks; Berliner)	4 mins	1		
987.		Dec. 2, 1954. Spanish Morocco. (Sparks; McDonald list)				
988.	3352	Dec. 3, 1954. Gulfport, Mississippi. 12:12 p.m. Mr. and Mrs. S. P. Mellen saw a translucent grey, round, flat object rotating on its vertical axis at high rate. (Sparks; Berliner)	30 secs	2		

989.	3356	Dec. 7, 1954. Cape Province, South Africa. 1:15 p.m. Weather officer, using a theodolite, saw a white, semi-circular, flat object with a dome fly from W to E, then turned N. (Sparks; Berliner)	7 mins	1		theodolite; weather officer
990.		Dec. 23, 1954. NE of Nogales, Ariz. Pilot flying F-86 fighter chased a light emitting red and green flashes. (Sparks; Weinstein)		1		
991.		Dec. 29, 1954. San Diego, Calif. Daytime. Crew flying B-47 saw 2 objects pass the plane. (Sparks; Weinstein; BB files??)		1+ ?		
992.	3382	Jan. 1, 1955. 30 miles E [W?] of Cochise, New Mexico. 6:44 [5:44?] a.m. Instructor [Capt. D. F. Ritzdorf ?] and student pilot [F. W. Miller?] flying USAF B-25 bomber/trainer saw a metallic disc, shaped like two pie pans face-to-face, 120-130 ft diameter, pace the B-25, showing both its edge and its face. Only item in case file was summary form. [See Feb. 1, 1955, incident.] (Sparks; Berliner; cf. NARCAP)	5-7 mins	2		USAF instructor pilot
993.		Jan. 14, 1955. Bet. Virginia and Kansas. 6 p.m. Airliner pilot saw a dark object leaving a contrail. (Sparks; Project 1947)		1?		
994.		Jan. 19, 1955. Pacific Ocean. 8:10 a.m. U.S. military pilot saw a white-reddish globular object flying level with the aircraft. (Sparks; Project 1947)		1?		
995.	3401	Jan. 26, 1955. Lakeland, Florida. 6:15 p.m. J. M. Holland saw a black smoke trail make a circle. There was an explosion and some objects fell. No further information in file. (Sparks; Berliner)		1		
996.		Jan. 29, 1955. Winterset near Des Moines, Iowa. 9:07 p.m. (CST). Iowa Air National Guard pilots, Major A. Packer and Lt. D. Myers with 132nd Fighter Bomber Group flying a T-33A jet (s/n 52-9590) heading 30° at 290 knots (330 mph) saw a white light flashing at a set rate, no trail, on a direct headon collision course in level flight at 20,000 ft. At the last instant the object rose and flew over the jet, climbing rapidly to 35,000 ft. When the pilot tried to chase the object it out climbed and out turned him, seemingly using radar or similar means to track the T-33A so as to employ highly maneuverable tactics at "excess" speed and altitude. (Sparks; Project 1947; NARCAP)	25 secs	2	3	
997.		Jan. 31, 1955. Fujii [?], Japan. 1:33 p.m. U.S. military pilots saw a white circular object, no trail, moving against the wind. (Sparks; Project 1947)		2?		
998.	3414	Feb. 1, 1955. 20 miles E of Cochise, New Mexico. 7:55 [6:55?] p.m. Instructor Capt. D. F. Ritzdorf and aviation cadet F. W. Miller flying TB-25 bomber/trainer (s/n 44-86894) at 13,000 ft and ground speed 238 mph saw a very bright round object with red and white hues approach then hover off the left wing of the TB-25 for 5 mins about 5° above horizontal. Object climbed rapidly on a parallel flight track to disappearance in 3 mins. [See Jan. 1, 1955, incident.] (Sparks; Berliner; NARCAP)	8 mins	2	12-20	USAF instructor pilot
999.	3416	Feb. 2, 1955. Miramar NAS, Calif. 11:50 a.m. USN Cdr. J. L. Ingersoll saw a highly polished sphere, with reddish-brown coloring, fall, then instantly accelerate to 1,000-		1		

		1,500 mph. (Sparks; Berliner)				
1000.		Feb. 7, 1955. Harrisburg, Penna. 10:18 a.m. Flying Tiger pilot saw a brilliant object flash off to the S. (Sparks; Project 1947)		1 ?		
1001.		Feb. 7, 1955. Ft. Wayne, Indiana. 7:55 p.m. American Airlines Flight 266 crew saw 5 star-like objects appear intermittently motionless then moving. (Sparks; Project 1947)		1+ ?		
1002.	3427	Feb. 10, 1955. Bethesda, Maryland. 10:03 p.m. E. J. Stein, model maker at U.S. Navy ship design facility, saw an object, shaped like a small portion of the bottom of the Moon, with a radiant yellow color, hover for 30 seconds. The bottom changed to a funnel shape. (Sparks; Berliner)	1.5-2 mins	1		
1003.		Feb. 11, 1955. Ryukyu Islands, S Japan. 10:15 a.m. USAF MATS crew flying C-124 transport saw a yellow or amber object shaped like a Jack o lantern flying 1,000 mph. (Sparks; Project 1947)		1+ ?		
1004.		Feb. 17, 1955. Blackstone, Virginia. USAF pilot in flight saw an extremely large light-blue object at 35,000 ft. (Sparks; Project 1947)		1 ?		
1005.		March 2, 1955. Huntley, Illinois. 5:00 p.m. Car was followed by 3 elongated "balloons," each showing 8 red lights and about 20 ft long. (Sparks; Vallée Magonia 362)	10 mins			
1006.		March 16 [17?], 1955. 35 miles N of Salton Sea [or Ripley?], Calif. 9:24 a.m. USAF SAC pilot flying B-47 saw a silver circular object on a steady course S fading in the distance. (Sparks; Project 1947)		1 ?		
1007.		March 20, 1955. Johnson AFB, Tokyo, Japan. 4:21 p.m. CPS-1 air traffic control radar of the USAF 1954th AACS Sq, Johnson AFB, Tokyo RATCC, detected 4 unidentified targets due N at about 32 miles, then after adjusting manual scan found 16 unidentified targets in 6 separate formations N of base at ranges of about 20 to 28 miles, which slowly moved [about 50 mph] from radar scope azimuth 0° to 20° while heading about 145° over 10 mins until 4:31 p.m. F-86D was scrambled from Yokota AFB (about 30 mi ENE of Tokyo airport and RATCC) at 4:32, piloted by USAF 1st Lt. G. D. Merrick, takeoff at 4:36, heading N (350°) at 10,000 ft then W then S then N on a search pattern [roughly around the Yokota AFB] since ADC control site "Butterfly" at Chiba Peninsula did not detect targets on radar. Meanwhile targets on CPS-1 ground radar had become erratic, leaving trails on radar scope like jet aircraft, then became almost stationary at 4:35. USAF 5th AF went on Yellow Alert due to radar tracks. At about 4:51 the F-86D pilot while heading N on the search pattern detected on airborne radar 2 unidentified targets at 45° azimuth (NE), he turned towards them but lost the targets. Then the F-86D radar picked up another target at 30° at 22 miles and headed towards it on afterburner at about 560 mph, with closure rate 100-175 knots. F-86D got radar lock-on at 15 miles, closed on UFO to closest range 2.5 to 3 miles, was within 15 secs of firing position, dropped afterburner to not overtake too quickly, but UFO began to accelerate to 50 knots faster	~44 mins	2+		ground and air radar

		than the F-86D despite the pilot going on afterburner again. When the UFO pulled out to 7 miles range it made a left turn, the F-86D turned to follow, then the UFO made 90° right turn and F-86D followed, back onto 20° (~N) heading. ADC site “Butterfly” cleared F-86D pilot to fire on the UFO. UFO began climbing while F-86D closed to 5 miles and climbed to 16,000 ft on afterburner to follow, overshot the UFO’s leveled off altitude of 15,000 ft then went into a shallow dive back to 15,000 ft reaching Mach 0.98 (~650 mph). UFO then began to pull away to 9 miles range, increasing speed to 200 knots faster than the F-86D [or ~880 mph supersonic], then gradually turning left 45° while pulling away to 15 miles range, breaking the F-86D’s radar lock, and pilot broke pursuit at ~5:05 p.m. No visual confirmations, and no direct correlation of specific ground and air radar targets due to lack of specific reporting. (Sparks; Project 1947; NICAP)				
1008.		March 24, 1955. Ryukyu Islands, S Japan. 2:30 [2:13?] p.m. Beechcraft pilot instructor and student pilot saw a hat-shaped object with 3 windows on top section, change color from white to orange, fly under and around their plane. Instruments failed and engine sputtered, pilot dove the plane to evade the object but it kept pace. 2 jets scrambled from Kadena AFB. (Sparks; NARCAP; Project 1947)		2		EM; pilot instructor
1009.		March 29, 1955. Sonoma and Soledad, Calif. 7:35/7:38 p.m. (PST) McGrath (GOC observer) and Brown. (Sparks; McDonald list)	30 secs			
1010.		April 6, 1955. Beaumont, Calif. 7:45 p.m. (PST) Briggs. (Sparks; Hynek UFO Rpt p. 44; Saunders/FUFOR Index)	2 mins	1	8	
1011.		April 21, 1955. 3 miles NE of Moisant Airport, New Orleans, Louisiana. 10 [4?] p.m. Air National Guard pilot Ponticelli flying L-19 aircraft saw a bright silver delta-shaped object. (Sparks; Project 1947; Saunders/FUFOR Index)	1+ min	1?		
1012.		April 28, 1955. Dahlgren, Virginia. 1:20 p.m. (EST). Conlon. (Sparks; McDonald list)	90 mins	multi ple?		
1013.	3517	April 30, 1955. Travis County, Texas. 7:30 a.m. USAF Wing Intelligence Officer Maj. L.. J. Pagozalski saw 4 black objects in a cluster make a whooshing sound like a zephyr. (Sparks; Berliner)	2-3 secs	1		
1014.	3523	May 4, 1955. Keflavik Airport, Iceland (63°58.7’ N, 22°35.8’ W ?). 12:38 p.m. USAF Lt. Col. E. J. Stealy and 1st Lt. J. W. Burt saw about 10 round, white objects, one of which left a brief smoke trail, flying in an irregular formation, some of them making erratic movements. (Sparks; Berliner; Saunders/FUFOR Index)	5-8 secs	2		
1015.		May 12 [11?], 1955. Thurmon, Colo. 1:06 a.m. [6:06 p.m. MST?] Crew of American Airlines DC-7 saw an object flying on a SE course at 20,000 ft. (Sparks; Project 1947; Saunders/FUFOR Index)				
1016.		May 13, 1955. Duluth, Minn. 8:30 p.m. (CST) (McDonald list)				
1017.	3565	May 23 [23-24?], 1955. Cheyenne, Wyoming (41.13° N, 104.80° W). 12 midnight. USAF Airman/Basic I. J.	5+ mins	2		

		Shapiro and E. C. Ingber saw 2 slender, vertical rectangles low on the horizon, and two ovals with tops, dark, with dark blue illumination, which flew higher. (Sparks; Berliner; Saunders/FUFOR Index)				
1018.		June 1, 1955. N Canada. RB-47 onboard APG-32 gun-control radar and/or radar jamming case. (Sparks)				radar
1019.		June 2, 1955. N Canada. RB-47 onboard APG-32 gun-control radar and/or radar jamming case. (Sparks)				
1020.		June 4, 1955. Melville Sound, N Canada. 0030 (GMT). RB-47 crew sighted "glistening silver metallic" object and "obscured by contrails" confirmed by onboard APG-32 gun-control radar tracking of target at 7,000 yards range (4 miles) from 0030 to 0039 GMT. Object stayed "low and to the rear of the RB-47" until the UFO "broke off contact to the north with an increase in speed." Gun camera photos. (Sparks)	9+ mins	several		RV + photos
1021.		June 4, 1955. Parker, Ariz. 2:50 a.m. USAF pilot flying T-33 trainer saw a yellow-white-red stationary object that abruptly disappeared. (Sparks; Project 1947)		1		EM?
1022.		June 7, 1955. N Canada. RB-47 onboard APG-32 gun-control radar case. (Sparks)				
1023.		June 8, 1955. S of Bathurst Island, N Canada. 2044 (GMT). RB-47 crew detected UFO briefly on the onboard APG-32 gun-control radar, visual contact was made for 20 minutes from 2044 to 2104 GMT, object trailing behind RB-47 at about 5-10 miles range. Second RB-47 some 80 miles behind the first spotted the contrail left behind as the UFO disappeared. (Sparks)	20+ mins	several		RV
1024.		June 26, 1955. Holt, Florida. Civilian and military witnesses. (Sparks; Hynek UFO Rpt p. 45)		several		
1025.		July 1, 1955. China Lake, Calif. (Sparks; McDonald list)				
1026.		July 5, 1955. Newfoundland, Canada. 3:00-3:56 a.m. (AST). At 3:00 a.m., USAF 97th Air Refueling Sq pilot Lt. Homer H. Speer and copilot Lt Paul Daily of KC-97 callsign Archie 29, and pilot Lt. Robert W. Schneck and copilot Lt. David Cueldner (sp?) of KC-97 Archie 91, both planes at 20,000 ft on a refueling mission out of Harmon AFB (48°32.7'N, 58°33.0'W), saw 2 bright objects at 49°10' N, 59°50' W, at 20,000 ft appearing stationary. They reported sighting to Harmon at 3:05, made contact with radar site, 2nd Lt. Charles H. Denney, Senior Director, USAF ADC site N-23 (Air Defense Direction Center, 640th AC&W Sq, Harmon AFB, Stephenville, Newf., CPS-6B search and height-finder radar, TPS-502 backup height-finder, at 48°35.3' N, 58°40' W). Radar painted object at 3:07 with intermittent contact till 3:56 (also 4-5 additional objects). Archie 29 KC-97 in best position to close on object ordered to do so by Harmon, position 290° from radar site at about 80 miles, 10 o'clock to KC-97 [inconsistent with lat-long coords]. Objects started moving to NE at 50° true heading accelerating to 275 knots (300 mph) faster than Archie 29 KC-97. After object reversed course to S heading, pilot Lt. Speer of Archie 29 reached closest approach to 18 miles distance, maintained visual contact with object calling direction	56 mins	11+		RV

		changes of object to radar site by radio, changes correlated exactly with those painted on scope by controller. Brief height-finder radar contact at 35,000 ft. Object began climbing at 3:38 a.m. and fighters scrambled, no radar or visual contact made. Speer lost sight of object at about 40,000-50,000 ft. Radar then tracked object accelerating to 1,600 knots (1,800 mph) moving off to NE. At same times radar also painted 5 smaller objects at 5,000-10,000 ft (briefly detected on height-finder) and thus below the KC-97's at 30° true [heading??], 60 miles from radar, [inconsistent with other coords] moving very fast, changing direction and azimuth, jumping on and off scopes, forming circular pattern, changing to line abreast, traveling 10-20 miles then changing direction, speed 1,500+ knots (1,700+ mph). Radar tracked about 4 objects at point of initial sighting on 40° true heading, speed 300 knots (350 mph). Objects at 3:40 a.m. at 50°10' N, 57°50' [?] W. One C-119 aircraft en route from Goose Bay passed within 5 miles of the objects, not known if seen. Radar targets confirmed by 1st Lt. Anthony G. Scarpace (sp?), Ground Electronics Officer of 670th ACW Sq, who found radar operating properly and no inversion effects present. Investigated by NEAC AFSSO (AF Special Security Office), reported to AFSS (NSA subunit not to be confused with AFSSO compartmented security agency), NSA and CIA. (Sparks; CIA, AF, NSA FOIA; Project 1947)				
1027.		July 11, 1955. Toulon, France. Daytime. Military pilot of C-47 transport saw a round reddish-orange light changing color to bright white, no trail. (Sparks; Project 1947)		1?		
1028.		July 20, 1955. Portland, Oregon. 2 fighter pilots and GOC ground observers saw a round object with a silver lower part climb when fighters approached. (Sparks; Weinstein; BB files??)		2?		
1029.		July 25, 1955. Near Syracuse, New York (43.05° N, 76.15° W). 5:22 a.m. [12:22 a.m. EST ?] Pilot flying F-86 fighter saw an orange object. (Sparks; Project 1947; Saunders/FUFOR Index)		1?		
1030.		July 26, 1955. Kansas City, Kansas. 9:34 p.m. [3:34 p.m. CST ?] USAF pilot flying B-47 bomber saw a round object, no trail. (Sparks; Project 1947; Saunders/FUFOR Index)	1 min	1?		
1031.	3673	July 29, 1955. Columbus, Nebraska. 10:45 p.m. (CST) Morrice Raymond saw 4 orange flashing lights and a white flashing light move up and down like yo-yos. (Sparks; Berliner; Saunders/FUFOR Index)	5-6 mins	1		
1032.	3699	Aug. 11, 1955. Iceland. 11:45 a.m. USAF 2nd Lt. E. J. Marlow saw 12 grey objects, from cigar to egg-shaped, vary formation from elliptical to wavy line to scattered to straight line to trail formation. Speed varied from hovering to 1,000 mph. (Sparks; Berliner)	3-4 mins			
1033.		Aug. 21-22, 1955. Kelly, 7 miles N of Hopkinsville, Kentucky (at 36.97° N, 87.477° W). 7, 8-11 p.m., 2:30-4:45 a.m. At about 7 p.m. Billy Ray Taylor went into the backyard of the Sutton farmhouse and saw a bright object	brief + 3 hrs + brief + 2- 1/4 hrs	1 + 12 + 1 + 10		

		from the SW [or actually about SSW about 210° azimuth from the direction of Fort Campbell U.S. Army base] then pass over and descend into a gully about 500 [300-600?] ft N of the farmhouse and about 35-40 ft lower elevation. Mrs. Glennie Lankford and 6 other adults [most Sutton family], plus 3 children (Charlton, Lonnie and Mary Lankford), saw two or more 3 ft tall gremlin-like creatures float down from trees and approach the house from the dark, which were shot at by rifle and shotgun fire without effect. At about 11 p.m. the entire group fled in terror in their two cars and drove at high speed into Hopkinsville to report the incident to the Police Dept. State police officer leaving the Shady Oaks restaurant 3 miles N of Hopkinsville in a car to respond to the call heard several meteor-like objects streaking over him sounding like artillery shells, and was able to see 2 in a series looking like meteors from the SW [or actually about S, from about 190° azimuth, headed towards Kelly from the direction of Fort Campbell and the TOP SECRET Armed Forces Special Weapons Project Site C, Clarksville Base, 36.665° N, 87.487° W, National Stockpile Site for nuclear weapons storage apparently recently including multi-megaton yield H-bombs]. City, county, state and military police and reporters drove out to the Sutton farm to investigate from around 11:30 p.m. to 2 a.m. UFO entities returned at about 2:30 a.m. and were again shot at without effect, finally disappearing at about 4:45 a.m. (Sparks; Davis-Bloecher 1978; Hynek UFO Rpt pp. 212-6; Vallée Magonia 372; Saunders/FUFOR Index)				
1034.		Aug. 23, 1955. Cincinnati, Ohio. 11:50 p.m. Several USAF fighter pilots saw 3 round disc-shaped objects making evasive maneuvers. Ground radar tracking. (Sparks; Weinstein; BB files??)		several		radar
1035.	3720	Aug. 23, 1955. Arlington, Virginia (38.91° N, 77.09° W). 10:45 a.m. G. M. Park, using a 400x telescope saw several (6+) orange lights moving singly or in groups, circling and stopping. (Sparks; Berliner; Saunders/FUFOR Index)	30 mins	1		telescope
1036.		Aug. 25, 1955. Fordland, Missouri. 7:56 p.m. (CST) (McDonald list; Saunders/FUFOR Index)				radar?
1037.	3743	Sept. 3, 1955. Bellingham, Wash. 9:30 p.m. (PST) GOC observer Saunders saw white pinpoint move slowly across 30° of sky. No further information. (Sparks; Berliner)	15 mins	1		
1038.	3750	Sept. 7, 1955. Washington, D.C. (38.89° N, 76.95° W). 6:30 a.m. (EST) 2 photographers, one plate maker for the Army Map Service, one named Smith, saw a glowing round object fly an arc. (Sparks; Berliner)	1 min	2?		
1039.	3757	Sept. 9, 1955. Near Alcoa [Rock Garden?], Tenn. 12 noon. M. N. Dawkins, using binoculars, saw a brown, almost square object fly with a circular motion. (Sparks; Berliner)	10-15 mins	1		binoculars
1040.		Oct. 4, 1955. S of Baku, USSR. 7? p.m. US Sen. Richard B. Russell, US Army Col. E. U. Hathaway, CIA Clandestine Service Foreign Intelligence Staff officer Reuben Efron (under cover as a "translator"), and an accompanying Calif. businessman named Robert R. Gros,	secs	4		

		VP of Public Relations of PG&E (Pacific Gas & Electric), sighted two separate nearly vertical ascents of a lighted domed-disc saucer-shaped object about 1 minute apart, while traveling by train. (Sparks; Joel Carpenter, Sparks, FOIA docs from CIA, FBI)				
1041.	3800	Oct. 8, 1955. Loogootee, Indiana. 4:38 [5:38?] p.m. R. D. Prather and H. Ahern saw a round, silver or white object fly straight and level at more than 1,000 mph. (Sparks; Berliner; Saunders/FUFOR Index)	12 secs ?	2		
1042.	3810	Oct. 11, 1955. Pt. Lookout, Maryland. 4 p.m. B. Hale and A. Ostrom saw round object, white in daylight and turning red with sparks near end of sighting, with a deep roar unlike an aircraft. (Sparks; Berliner)	2.5 hrs	2		
1043.		Oct. 19, 1955. 40 miles NW of Knoxville, Tenn. [Tex.?]. 8:30 p.m. (EST) F-86 case. (Sparks; McDonald list; Saunders/FUFOR Index)	2+ mins	1?		
1044.		Oct. 20 [21? 26?], 1955. Minneapolis, Minn. 7:40, 8 p.m. CST [2:21 a.m.?] USAF F-89D fighter pilot Steck saw a white luminous oval-shaped object making 90° turns at 1,000 mph, tracked on airborne radar. Ground observer(s). [Same as Oct. 26, 1955, case?] (Sparks; Weinstein; Saunders/FUFOR Index)	18 secs ?	2?		radar
1045.		Oct. 26 [30? 21?], 1955. Minneapolis, Minn. [Same as Oct. 21, 1955, case?] (Sparks; McDonald list)				
1046.		Nov. 14, 1955. Deming, New Mexico. 1 a.m. Commercial airline pilot in flight saw a fast moving object, with a light on the rear, come from the SW. (Sparks; Project 1947)		1?		
1047.	3860	Nov. 17, 1955. St. Louis, Missouri. 6:10 a.m. J. A. Mapes saw 12 round, flat objects, silver on top and dark on the bottom, fly in 4-deep formation, tipping in pitch and roll angles. (Sparks; Berliner)	45 secs	1		
1048.	3862	Nov. 20, 1955. Lake City, Tenn. 5:20 p.m. Operations Officer Capt. B. G. Denkler and 5 men of the USAF 663rd AC&W Sq saw 2 oblong, bright orange, semi-transparent objects fly at terrific speed and erratically, toward and away from each other. (Sparks; Berliner)	4 -15 mins	6		radar?
1049.	3869	Nov. 25, 1955. LaVeta, Colo. 10:30 a.m. State Senator S. T. Taylor saw a dirigible-shaped object, fat front, tapered toward the tail, luminous green-blue and jellylike, appear overhead diving at a 45° angle, reducing to 30°. (Sparks; Berliner)	5 secs	1		
1050.		Dec. 6, 1955. Marianna, Florida. 6 [1?] a.m. USAF pilot flying MATS transport radar tracked unidentified target. (Sparks; Project 1947; Saunders/FUFOR Index)	< 5 mins	1?		radar
1051.		Dec. 11, 1955. Near Jacksonville, Florida. 9 p.m. 2 airliner pilots [and crews?] and ground observers saw fast maneuvering orange-red round object, with ground radar tracking. 2 USN jets on a practice night-flying mission were vectored to the object by a Jacksonville NAS controller, on approach the object suddenly rose up to 30,000 ft then dove back down in a circle, buzzing the jets. (Weinstein; NARCAP; BB files??)		several		RV
1052.		Dec. 13, 1955. Arlington, Virginia. 10:09 p.m. (EST). Intelligence management engineer and amateur	2 mins 12 secs	1	point source	amateur astronomer

		astronomer with Army G-2 Comptroller, Pentagon, sighted maneuvering reddish (?) light, about stellar magnitude of Sirius, starting mag -1 and diminishing to +4 to +4.5 mag when it disappeared. Sighted in the sky above his home, which made ~200° turn to right passed near star Capella [azimuth 253° elevation 71°] and disappeared in the NNE into horizon [??] haze approaching star Gamma Leonis [azimuth 79° elevation 42°]. No sound despite complete quiet, speed fluctuating. Clear sky and visibility down to 6th stellar magnitude. Observer plotted course on star map.				
1053.		Dec. 14, 1955. Caddo Lake, Louisiana. 2:45 a.m. USAF pilot flying B-47 in 513th Bomber Sq saw and radar tracked oblong object. (Sparks; Project 1947)		2?		radar
1054.		Dec. 17, 1955. Laguna [Mt. Laguna ?], Calif. 9:45 a.m. (PST) (McDonald list)	13 mins			
1055.	3893	Dec. 21, 1955. Caribou, Maine. 11 p.m. Roberta V. Jacobs saw a round, very bright gold, domed disc in a short climb, then rotate, hover and accelerate. (Sparks; Berliner)	6-8 mins	1		
1056.		Jan. 11, 1956. Wurtsmith AFB, Mich. 5:40 p.m. (MST) F-89D. Culpepper and Complaer. (Sparks; McDonald list; Saunders/FUFOR Index)	2-15 mins			RV?
1057.		Jan. 18, 1956. Itazuke AFB, Japan. 1 [10?] a.m. Air crew sighting of white round balloon-shaped object traveling at high speed, no trail. (Project 1947; Saunders/FUFOR Index)	42 secs			
1058.		Jan. 24, 1956. Wheelus AFB, Tripoli, Libya. 1:52 p.m. (GMT) (McDonald list; Saunders/FUFOR Index)	12 mins			
1059.		Feb. 2, 9, 21, 1956. Camp Irwin, Calif. (Sparks; McDonald list)				
1060.		Feb. 7, 1956. Keesler AFB, Biloxi, Mississippi (30.42° N, 88.94° W). 8 a.m. (CST) (McDonald list; Saunders/FUFOR Index)				
1061.		Feb. 11, 1956. S of Japan (at 28°53' N, 131°30' E) 7:15 p.m. MATS C-124 air crew sighting of a yellow or amber object at 1,000 knots (1,150 mph). (Sparks; Project 1947)		1?		
1062.	3969	Feb. 12, 1956. 38 miles SW of Goose Bay, Labrador, Canada. 11:25 [10:55? 11:10?] p.m. (AST). USAF F-89D pilot Bowen and radar observer Crawford saw a green and red object rapidly circle the jet, and tracked on radar. No further details. (Sparks; Berliner; Saunders/FUFOR Index)	1 min	2		RV
1063.		Feb. 15, 1956. Riverside, Calif. (33.98° N, 117.38° W). 8:40 [12:40?] p.m. USN pilot Taylor flying aircraft saw a cigar-shaped brown object on a straight level course. (Project 1947; Saunders/FUFOR Index)	8 mins	1?		
1064.		Feb. 18, 1956. N of Montelimar Airdrome, France. 8:20 p.m. 3 USAF C-119 crew, 780th Troop Carrier Sq, saw a round dot change color every 30 secs from white to red to green. (Sparks; Project 1947; Saunders/FUFOR Index)	4 hrs?	3		
1065.		Feb. 18 [17?], 1956. Orly Airport, Paris, France (54.16° N, 0.05° E). 10:50 [8:20?] p.m. Air France pilot De Vaux of DC-3 and radio operator saw large red blinking light flying erratically, tracked by ground radar. (Sparks;	30 mins? 4 hrs ?	3+ ?		radar

		Project 1947; Saunders/FUFOR Index)				
1066.	3977	Feb, 19, 1956. Houston, Texas. 6:07 a.m. (CST). Crew of Eastern Airlines Super Constellation saw intense white light, moving 4-5 times the speed of the airplane, evaded by the pilot. (Sparks; Berliner; Saunders/FUFOR Index)	28 mins	2+		
1067.		March 2 [5?], 1956. Spokane, Wash. (47.66° N, 117.44° W). 4:40 p.m. (PST). Stoner. (Sparks; McDonald list; Saunders/FUFOR Index)	30+ secs			
1068.	4050	April 4, 1956. McKinney, Texas. 3:15 p.m. Capt. Roy Hall, U.S. Army (Ret.), Charles Anderson and others saw fat, oblong, stationary object with two lines around its middle through a 6-inch telescope and a 55-200x telescope. (Sparks; Berliner)	6 hrs	4+ ?		2 telescopes
1069.		April 5, 1956. Almy Pond, Newport, Rhode Island (at 41°30' N, 71°18' W). 12:30-12:35 p.m. (EST). USN Underwater Ordnance Test Station physicist Mrs. Genevieve Mathison and her 3 children from the front door of their home saw a circular silver object with no trail or sound descending from 45° elevation in the N down to 0° elevation on an approaching path, with a receding 135° maneuver [?] and disappearing by whirling into the haze. (Sparks; Jan Aldrich)	5 mins	4	20 (? binoc equiv ?)	USN physicist; binoculars
1070.		April 6, 1956. 5 miles E of McKinney, Texas. Mitchell and another man saw a 6 ft silvery, balloon-shaped craft land in a field 300 ft away from them. They stopped their car to investigate, but the object took off at fantastic speed. (Sparks; Vallée Magonia 379; Saunders/FUFOR Index)		2		
1071.		April 8, 1956. N of Schenectady to W of Syracuse, New York. 10:15 p.m. (EST) Capt. Raymond E. Ryan, First Officer William Neff, flight attendant Phyllis Reynolds, and passengers, took off in an American Flight 775 Convair airliner from Albany heading N then turned nearly due W (about 280° True) at 260 mph [207? mph] and 6,000 ft N of Schenectady when a brilliant white light about 2-3 miles away was spotted about 90° to the left appearing like an airliner heading in to land at Albany. The white light rapidly moved about 90° to dead-ahead position about 8-10 miles away at high speed estimated at about 800-1,000 mph where it changed color to orange and seemed to block the airliner's path or risk collision, disappeared briefly, reappeared as an orange light again but standing still ahead of the airliner to the W. Airliner contacted Griffiss AFB, Rome, NY, where controllers asked pilot to turn lights off and on to help identify aircraft and was told airliner was seen and the orange UFO leading it, both to the S. Airliner was ordered to follow the UFO to the W, skipping its scheduled landing at Syracuse after nearly 30 mins of following the object until interceptors could arrive. Promised fighter jet interception was not seen (scrambled at 10:48 p.m., takeoff at 10:52). Object disappeared at high speed to the NW (or N) towards Oswego, NY. Final BB file missing many key documents (indicated in summaries). Official denials of AF-ordered course deviation to pursue UFO are contradicted within AF documents in the BB file including a surviving teletype from Watertown, NY, AF radar station (655th	30+ mins	6+ (?)		

		AC&W Sq) stating that airliner flew from Schenectady to Oswego, NY, instead of to Syracuse/Rochester, NY. AF theories of planet Venus required a major 20°-25° course deviation by the airliner in order to place airliner heading towards Venus roughly over Oswego. (Sparks; McDonald list; NICAP website)				
1072.		April 16, 1956. Henderson, North Carolina. 5:00 a.m. FBI agents Richards and another, driving on Route 1, just before dawn, saw a top-shaped object as large as the road pass over their car, no sound. (Sparks; Vallée Magonia 381)	few secs	2		
1073.		April 28, 1956. Near Newport (?), England, UK. 8:30 p.m. Lockheed/Curtis-Wright technical rep and JCS scientific consultant and his wife saw bright white star increase in brightness in the E for 10+ secs at "high altitude," dim to medium dull red, then move from E to W roughly 3°/sec, dimming after 30 secs of travel to dull red, accelerating to "enormous speed," wobbling as it disappeared. (Sparks; Hynek UFO Rpt pp. 91-92)	3 mins	2		aeronautica 1 scientist
1074.		May 8, 1956. Aliquippa, Penna. (40.62° N, 80.26° W). 9:48 a.m. (EST) (McDonald list)	10 mins			
1075.		May 22, 1956. 58 miles NW of Monroe, Louisiana. 11:05 p.m. (CST) USAF officer 1st Lt. Earl D. Holwadel, piloting T-33 jet, and an accident investigation officer 1st Lt. Curtis Carley in the back seat during a night flight heading 50°-55° at 18,000-19,000 ft at 240 knots, saw a bright light due E, then saw it again in the E at 11:15 p.m. Holwadel banked right to the SE somewhat behind the object now seen in the SE at great distance. Object suddenly came straight at them at high speed passing in front of the T-33 at about 225 ft away under the "nose" of the object, no jet wash, on a heading of 330° when the object flashed an intensely bright white light from a "greenhouse-shaped dome" or cockpit window at its front end that lit up the canopy of the T-33. Object about 30-40 ft long, elliptical in shape, shorter than a C-47 but wider, a small steady red running light in the center, with no wings, only stubby protrusions extending 3-4 ft and 25 ft long on each side, bottom surface like steel with ribs extending down 2-4 ft with a wave-like appearance. Object moved away then returned at high speed on a W course with "fantastic" maneuverability never changing flight attitude at any time, disappeared at estimated distance of about 60 miles. (Sparks; BB Misc Microfilm Roll 1, pp. 173-182; NARCAP; McDonald list; Hynek-CUFOS files)	10-15 mins	2	20	
1076.		June 2, 1956. Newton, Mississippi. 10:51 p.m. Military pilot of Convair T-29 saw white-green light on parallel course at 5-7 miles [distance?]. (Sparks; Project 1947)				
1077.	4127	June 6, 1956. Banning, Calif. (33.93° N, 116.88° W). 5:30 [4:30?] a.m. Mr. Bierman saw a thin disc with a small dome, shimmering silver, hover about 300 ft away at 100 ft height then zoom up. [Crossed the road slowly, turned, crossed the road again behind the car and vanished suddenly. ??] (Sparks; Vallée Magonia 383; Saunders/FUFOR Index)	8-10 secs	1		

1078.		June 29, 1956. Los Angeles to San Diego, Calif. 5:10 p.m. (PST). (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs			
1079.		July 6, 1956. Euclid, Ohio. 9:37 a.m. (EST). (Sparks; McDonald list; Saunders/FUFOR Index)				
1080.		July 17, 1956. Otis AFB, Westover, Mass. 11:42 p.m. (EDT). USAF jet fighter pilot saw a white-yellow circular object that reversed course. (Sparks; McDonald list; Weinstein; Saunders/FUFOR Index)	40 mins	1		
1081.	4270	Aug. 8, 1956. 20 miles S of Quartzsite, Ariz. 11 p.m. (MST). Attorneys W. B. Buttermore and J. W. Smith saw a blue-white pulsating light fly fast, straight and level. (Sparks; Berliner; Saunders/FUFOR Index)	5-7 mins	2		
1082.		Aug. 10-11, 1956. Duncanville AFS near Dallas, Texas. 12:05/12:20 p.m. (CST). McConnell. (Sparks; Jan Aldrich; McDonald list; Saunders/FUFOR Index)	4 hrs			
1083.		Aug. 13, 1956. RAF Bentwaters, England, UK. 9:55 p.m. Extremely high speed radar-visual approximately 18,000 mph E-W radar track of brilliant white light, from about 30 miles E to 30 miles W passing directly over the radar site, "streaked under" C-47 at 4,000 ft near base. Radar track provides height-finding data confirming extremely low altitude, roughly 2,000 ft, also estimated by ground visual observers. (Sparks)	30 secs	several		RV
1084.		Aug. 13-14, 1956. RAF Lakenheath, England, UK. 11 p.m. to 12:30 a.m. Radar-visual of hovering-darting objects that outmaneuvered Venom NF-3 jet interceptor beginning at 12:01 a.m. Later attempted intercepts at about 2-3 a.m. were unsuccessful. (Sparks)	1-1/2 hrs	several		RV
1085.		Aug. 16, 1956. Near Azores [41.41° N, 95° W ?]. 1:45 a.m. [2:30 a.m. GMT?]. Capt. Dennis and crew of Eastern Airlines DC-4 Flight 49, flying at 4,000 ft en route to New York heading W, saw a bright white light to the W pass within 40 ft from above and below [multiple passes?]. Pilot took evasive action. (Sparks; NARCAP; Weinstein; Saunders/FUFOR Index)	20-25 mins	multiple		
1086.		Aug. 17, 1956. SSW [of] Spragueville, Maine. (Sparks; McDonald list)				
1087.		Aug. 20, 1956. North Bend, Oregon. 10:15 p.m. (PST). Camillo. (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs			
1088.		Aug. 22, 1956. Bornholm, Denmark. 8:50 p.m. (GMT). (Sparks; McDonald list; Saunders/FUFOR Index)	3 hrs			radar
1089.	4348	Aug. 27, 1956. Juniata, Penna. 9:55 p.m. Mrs. R. S. Pope saw a bright disc with a clear dome fly vertically, then N. A very cold breeze seemed to emanate from the object. (Sparks; Berliner)	3 mins	1		
1090.	4379	Sept. 4, 1956. Dallas, Texas. 9 p.m. USMC T/Sgt. R. D. Rogers and family saw a large star, changing to red color, remain stationary for 20 mins, then move W at 200 knots (230 mph). (Sparks; Berliner)	23 mins	3+		
1091.		Sept. 13, 1956. S Calif. (at 34°32' N, 119°48' W, near Santa Barbara). 9:35 [9:34?] p.m. United Airlines Flight 459 crew saw a star-like object stationary then moving. (Sparks; Project 1947; Saunders/FUFOR Index)	1 min	2+ ?		

1092.	4399	Sept. 14, 1956. Highland, North Carolina. 1 a.m. Scaly, N. Car., policeman O. S. Gryman saw 14 yellow-to-red round objects with tremendous exhaust fly in a vague formation from SW to E to NE and back again, while swooping up and down. (Sparks; Berliner)	1.5 hrs	2 ?		
1093.		Sept. 25, 1956. Grand Rapids, Mich. 4 p.m. Cessna pilot Marcus saw 2 delta-shaped objects flying S under the right wing. (Sparks; Weinstein; CUFOs files; Saunders/FUFOR Index)		1		
1094.		Oct. 9, 1956. Little Easton, Essex, England (51°54' N, 0°19' E). 6:55 p.m. (GMT). USAF witness Pollock. (Sparks; McDonald list; Saunders/FUFOR Index)	hrs	4		
1095.		Oct. 17 [18?], 1956. Wheelus AFB, Tripoli, Libya. 10:17 p.m. (GMT). (McDonald list; Saunders/FUFOR Index)				
1096.	4489	Nov. 1, 1956. 60 miles E of St. Louis, Missouri, near Mt. Vernon and Sandoval, Illinois. 5:30 p.m. [11:30 a.m. CST?] USAF Capt. W. M. Lyons, Intelligence Division Chief (Aerial Weather Recon Officer) [and Daniel?], flying a T-33 jet trainer, saw an orange light with a blue tinge, fly across the sky. (Sparks; Berliner; Saunders/FUFOR Index; etc.)	2 mins	2?		
1097.		Nov. 4, 1956, Point Arena, Calif. 8:22 p.m. (PST). (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs 40 mins ?			radar
1098.		Nov. 9 [?], 1956. Destin, Florida. 7 p.m. (EST). USAF pilot flying RF-84F with 3242nd Test Group saw a long narrow object with a series of bright orange lights. (Project 1947; Saunders/FUFOR Index)	4 mins	1?		
1099.		Nov. 11, 1956. El Toro Marine Corps Air Station, Calif. 9:30 p.m. (PST). USMC pilot flying helicopter and ground witnesses saw a flashing red light with ground radar tracking. (Sparks; Weinstein; Saunders/FUFOR Index)	2 hrs 45 mins	3+ ?		radar
1100.		Nov. 14, 1956. SE of Jackson, Alabama. 10:10-10:12 p.m. Capital Airlines Flight 77 pilot Capt. W. J. Hull with 3 million miles and 17 years' flight experience and author of anti-UFO skeptical article "The Obituary of the Flying Saucer" in <i>The Airline Pilot</i> magazine (Sept. 1953), with copilot FO Peter MacIntosh were flying from New York to Mobile, Ala., in a Viscount airliner at 300 mph descending at 10,000 ft, when they saw a brilliant bluish-white light (mag. -7) descend in a steep downward angle diagonally (about 45°) from left to right from WSW at azimuth 315° to dead ahead SSW at 205° azimuth 30°-40° elevation where it stopped at the same or slightly higher altitude. Hull radioed Bates tower near Mobile to look for object, then at that moment the object began a series of maneuvers for 30 secs, rising and falling, darting back and forth, instant 90° turns, then hovered motionless again at same/slightly higher level. When Bates field radioed again the object began another series of "crazy gyrations, lazy 8's, square chandelles" with undulating motion, then shot out to the S over the Gulf of Mexico in a steep climb at "fantastic speed" until it disappeared. (Sparks; Condon project Unexplained case, CR pp. 127-9; Hynek-CUFOS-Willy Smith files; NARCAP)	2 mins	2	1/10	
1101.	4543	Nov. 30, 1956. Charleston AFB, South Carolina. 12:48	10 mins	1+ ?		

		p.m. USAF aerial navigator Maj. D. D. Grimes saw an unspecified object fly at an estimated 100 ft altitude over water. No further details. (Sparks; Berliner)				
1102.		Dec. 17, 1956. Itazuke AFB, Japan. 4:20 p.m. 2 USAF pilots flying F-86D interceptors saw a golden brown round object flying at 1,500 knots (1,700 mph), strong interference on airborne radar. (Sparks; Weinstein; Saunders/FUFOR Index)	3-7 mins	2		radar
1103.	4577	Dec. 31, 1956 [Jan. 1, 1957?]. Guam. 2:10 a.m. USAF 1st Lt. Ted Brunson, flying an F-86D jet interceptor, saw a round, white object fly under the jet, which was unable to turn as sharply as the object. (Sparks; Berliner; Saunders/FUFOR Index)	10 mins	1		radar, EM
1104.		Jan. 16, 1957. Bet. Ft. Worth and Lubbock, Texas. 8 p.m. USAF crews of 2 B-25's saw a round white object make rapid maneuvers, effects on radio and compass. (Sparks; Weinstein)		4+ ?		radar, EM
1105.		Feb. 7, 1957. Las Cruces, New Mexico. 3:53 a.m. (MST). 54 radar targets? (McDonald list; Saunders/FUFOR Index)	1 hr 39 mins			radar
1106.		Feb. 13, 1957. Marrero, Louisiana. 8 p.m. Martin. (Sparks; McDonald list; Saunders/FUFOR Index)	1 hr 40 mins			
1107.		Feb. 13, 1957. Tierra Amarilla AFS, New Mexico (36°37'25" N, 106°39'50" W). 4:40 a.m. (MST). Meyer. (Sparks; McDonald list; Saunders/FUFOR Index)	2 hrs			
1108.		Feb. 13, 1957. Lincoln AFB, Lincoln, Nebraska. 2:30 a.m. USAF SAC (98th Bomb Wing?) Director of Operations and 3 tower controllers at 2 radar sites, and the GCA's NCOIC, tracked several targets flying behind an airliner at a distance of 5-6 miles traveling 2x as fast. No IFF response. Objects could hover and move at high speed, one split into 2 objects, another did 180° turn. Blips the size of a B-47. (Sparks; Hynek UFO Exp ch. 7, case RV-7)	3-5 mins [25 mins?]	5		RV multiple radars
1109.		Feb. 27, 1957. Castle AFB, Calif. 9:45 p.m. (PST). 9 radar targets. (Sparks; McDonald list; Saunders/FUFOR Index)	24 secs			radar
1110.		March 6, 1957. Great Meadows-Hope, New Jersey. 2 p.m. Martin's attention drawn by barking dogs looking up at white derby-hat-shaped object 50+ ft wide hovering low over a field about 450 ft away with a gentle rocking motion and streamers underneath like tinsel. Object suddenly took off almost vertically to the NE without sound disappearing into cloud bank. (Sparks; Hynek UFO Rpt pp. 151-4; Saunders/FUFOR Index)	1 min +	1	12	
1111.		March 22, 1957. Point Mugu, Calif. 12:10 p.m. (PST). (Sparks; McDonald list)				
1112.		March 22, 1957. Long Beach-Los Angeles Airport, Calif. 11:55 p.m. (PST). CAA airport surveillance radar operated by Norman Johnson (unclear whether located at Los Angeles or Long Beach) picked up 2 high speed 3600 mph targets in trail with each other (later just one blip) in the NW at 300° Mag at 10 miles range headed outward radially from radar at about course 320° Mag [probably 4 blips 10 miles apart for 30 secs] until stopping abruptly at	120 secs	1		radar no visual

		40 miles range [for 10 secs?]. Target reversed course heading radially inward to station going 30 miles in reverse direction [in 10 secs?] then a 2nd stop at 10 miles range [for a 10-sec sweep?]. Target reversed direction going 40 miles [in 40 secs?] on 320° Mag heading beyond radar range last blip at 50 miles at 315° Mag azimuth. High speed radar targets traveling radially inward and outward from station only on one side of scope with probably slight curvature of path (i.e., 300°, 315° and 320° Mag azimuths or headings) is suggestive of mutual interference with another radar at almost exactly the same frequency. 2 F-89 jets scrambled from Oxnard AFB found nothing. No visuals at any time. (Sparks; McDonald list; Saunders/FUFOR Index; NICAP)				
1113.		March 23 [22?], 1957. Oxnard AFB, Calif. 11:15 p.m. (PST). Beaudoin and several independent witnesses saw maneuvering lights. (Sparks; Hynek UFO Rpt pp. 53-54; Saunders/FUFOR Index)	5 hrs 45 mins ?	several		
1114.		March 27, 1957. Roswell, New Mexico. 8:35 p.m. USAF pilot Lt. Sontheimer flying C-45 transport saw to the left 3 bright white circular objects in tight formation on collision course. He immediately flashed his taxi lights, one object shot straight up above him the other 2 continued on passing in front. When he flashed his taxi lights (again?) the objects instantly blinked out and disappeared. (Sparks; Weinstein; NARCAP; Saunders/FUFOR Index)	6 secs	1?		
1115.		April 14, 1957. 1/2 mile E of Vins sur Caramy, France (at 43°25.7' N, 6°10' E). 3 p.m. Mrs. Marie Garcin and Mrs. Julia Rami walking NE on Road D24 heard a loud deafening noise and saw about 300 ft ahead of them a 5 ft tall 3 ft wide metallic top-shaped object covered with vibrating sharp spines landing near a road sign which started to vibrate loudly, then the object hopped over the road at a height of about 15-30 ft, the women cried out and another witness Mr. Jules Boglio about 1,000 ft away looked and with the women saw the object land (a 2nd time) in the next road, then jump over another road sign which then vibrated with loud noise. 2 other witnesses reportedly saw the object at a much greater distance. (Sparks; Hynek UFO Exp ch. 9, case CEII-16; Mark Cashman)	1-2 mins	3	2	
1116.	4706	April 25, 1957. Ringgold, Louisiana. 2:30 a.m. (CST). Military witness Robertson. Case missing. (Sparks; NARA; Saunders/FUFOR Index)	25 mins	1		
1117.	4715	May 2, 1957. Edwards AFB, Calif. 6:55-7:20 a.m. (PDT). James D. Bittick and John R. Gettys, Jr., civilian phototheodolite operators, were driving by truck to Askania Site #4 when they sighted an object above them about 500 yards away. They radioed a report to their supervisor Frank Baker who told them to set up the camera and try to film the object, which they did after about 10 mins. They photographed what they described as a golden luminous domed-saucer shaped object with holes or ports around the dome about 100 ft in diameter about 1 mile in the distance to the N headed E (photos show multiple?	25 mins	2	8?	photo-theodolite

		objects). Available phototheodolite frames 614, 620 and 651 (609 too blurred, cutoff) show azimuth 10°28' elevation 2°24' shifting E to azimuth 40°30' elevation 1°0'. Disappeared at about 5 miles. Possible jet fighter interception. [Possible weather balloon with slow leak, explanation denied by Edwards AFB Colonel Klein (sp?) analyzing actual tracking of balloon and wind direction.] (Sparks; Tom Tulien; Jan Aldrich; McDonald 1968 pp. 75, 85; Loren Gross Mar-May 1957 pp. 67-68; IUR Oct 2005)				
1118.		May 4 [5?], 1957. Near Calif. coast (at 33°52' N, 127°33' W?). 3:25 a.m. (PDT) [4 a.m. PDT?]. USAF copilot of radar patrol aircraft with 552nd AEW&C Wing saw a yellowish-red light at 10,000 ft pass in front of aircraft. (Sparks; Weinstein; Saunders/FUFOR Index)	30 secs	1?		
1119.		May 29, 1957. Houma, Louisiana. 3:03 p.m. (CST). (Sparks; McDonald list)	14 mins			radar
1120.		May 30, 1957. Detroit, Mich. 9:01 a.m. (CST). (Sparks; McDonald list)	30 secs			radar
1121.		June 3, 1957. Shreveport to Converse, Louisiana. 8:30 [9:35?] -9:30? p.m. (CST). Shortly after takeoff from Shreveport Airport, heading for Lake Charles, La., and climbing, Capt. Lynn Kern and FO Abbey Zimmerman flying Trans-Texas Airlines Flight 103 were told by the control tower that a small light was visible nearby. They saw the star-like blue-green pulsating [?] object hovering (approaching?) at their 10 [2?] o'clock position at about 400 ft then climbing rapidly to 1,000 ft paralleling the airliner then at 110 knots speed (130 mph later 165 mph) but at higher altitude and 1/2 mile away. Kern flashed landing lights and object responded with a beam [?] of light. 2nd blue-green pulsating object joined the first on the opposite side of the airliner (then at 9,000 ft), air crew confirmed from tower that it had both objects on radar and visually through binoculars, objects headed S at 170° climbing to about 10,000 ft and followed airliner to Converse, La., (about 45 miles S of Shreveport) where pilot queried ADC radar site, England AFS, Alexandria, La., which confirmed the 2 targets in the airliner's vicinity at 9,700 ft. Objects disappeared from sight in a cloud deck to the SW. (Sparks; Hynek UFO Exp ch. 7, case RV-6; NARCAP)	1 hr ?	4+		RV, multiple radars, bincoculars
1122.	4760	June 12, 1957. Milan, Italy. 7:30 p.m. G. U. Donadio, translator for export-import firm, saw an object "big as a hen's egg" [at arm's length?] fly very fast, zigzag, hover and revolve, then shoot up. (Sparks; Berliner)	17 mins	1		
1123.		July 16, 1957. Las Vegas, Nevada/N Arizona. 1:56-1:58 p.m. (MST). USAF ADC radar station 865th ACWRON, Las Vegas AFS, Angel Peak (36°19.1'N, 115°34.4'W), Nevada, Senior Director 1st Lt. Clifford E. Pocock, scope operator A/2c Walter Lyons, and control technician A/1c Armand Therrien, using the FPS-3A L-band search radar tracked an inbound target at average speed of about 6,200 mph for 48 secs [?] when it "stopped abruptly" and "remained stationary" for 12 secs to the ENE at 75° azimuth 85 miles range, N of Grand Canyon, then target	2 mins 12 secs	3		radar and IFF

		headed outbound at about 7,000 mph on 85° heading over the last 72 secs before disappearing at the radar's maximum range at 81° azimuth 224 miles range (near Marble Canyon, Ariz.). Target responded to encrypted military IFF transponder signals and transmitted encrypted responses. Similar occurrence 2 days earlier noted by night crew but none others in 2 years. See July 17 and 18 radar-emitting and/or IFF-transmitting UFO incidents in Mississippi and Arizona. (Sparks; Jan Aldrich)				
1124.		July 17, 1957. Gulfport, Mississippi, E Texas to Ft. Worth and to E of Oklahoma City. 4:30-6:40 a.m. (CDT). Electronic Intelligence (ELINT) RB-47 jet on training mission repeatedly encountered maneuvering radar-transmitting UFO which correlated with visual of brilliant white-red light tracked at 10 nautical miles from RB-47 by Dallas/Duncanville AFS 647th ACWRON air defense FPS-10 radar (32°38.8' N, 96°54.3' W), with same motions outpacing jet, simultaneous blink outs on Duncanville radar, ELINT monitors, visually and on airborne navigation radar. (Sparks in <i>The UFO Encyclopedia</i> , 2nd ed. 1998, vol. 2, pp. 761b-790b)	2 hrs 10 mins	6+		RV and ELINT
1125.		July 18, 1957. Mt. Lemmon, Ariz. (32°26.5'N, 110°47.4'W). 10:46-11:20 p.m. (MST). USAF ADC radar station 684th ACWRON, Mt. Lemmon AFS, Senior Director Capt. Claiborne F. Bickham and crew using both MPS-7 L-band search and MPS-14 S-band height-finder radars tracked a stationary target at 42,000 ft to the NW at 308° azimuth 82 miles range (S of Chandler, Ariz.). Target responded to encrypted military IFF Mode 3 transponder signals, transmitted encrypted responses resulting in "normal Mode 3 paint" on radar scopes, and "a very slight strobe came from object appearing like ECM jamming." See similar incident on July 16, 1957, in Arizona (Las Vegas radar station) and RB-47 case on July 17. (Sparks; Jan Aldrich)	34 mins	3+ ?		radar and IFF
1126.		July 24, 1957. Nemuro Strait, Japan. 10 a.m. 2 USAF pilots flying F-86 jet fighters scrambled to intercept disc-shaped object, tracked by ground radar and seen by ground witnesses. (Sparks; Weinstein; BB files??)		3+ ?		RV
1127.		July 25, 1957. Niagara Falls, New York. 12:25 a.m. (EST). USAF pilot 1st Lt. Robert S. Hipkins and alert center operator S/Sgt Raymond C. Henry, both 47th Fighter Interceptor Sq on the ground, saw a circular brilliant white object with smaller 6? pale green lights on its perimeter move slowly at constant altitude at first then make fast pivoting turns, maneuvering radically SE to NE (from azimuth 150° elevation 45° to azimuth 75° elevation 65°), disappearing in a rapid steep climb. Radar tracked for 3 mins by CPS-6 ground ADC site. (Sparks; McDonald list; Jan Aldrich)	8 mins	2+ ?		RV
1128.	4841	July 27 or 29, 1957. Longmont, Colo. Early morning. J. L. Siverly saw a thick disc, ice blue, with a top like honeycomb (interconnected hexagons), hover and rock below the hill tops. Middle band was scalloped, bottom had four kidney-shaped forms. (Sparks; Berliner)	10 mins	1		
1129.	4847	July 29, 1957. Cleveland, Ohio. 10:31 p.m. Capital	8 mins	2		

		Airlines Capt. R. L. Stimley and First Officer F. J. Downing saw a large, round, yellow-white object dim once, cross the bow of the airliner, which then gave chase but was unable to catch it. (Sparks; Berliner)				
1130.	4848	July 29, 1957. Oldsmar, Florida. 11:45 a.m. E. E. Henkins saw a pale yellow fireball glide into the water and exploded. (Sparks; Berliner)	1 min	1		
1131.		Aug. 3, 1957. About 175 miles SW of San Francisco, Calif. (at 35°30' N, 124°30' W). 7:45-8:24 a.m. (PDT). USAF 965th Aircraft Early Warning & Control Sq (552nd AEW&C Wing), pilot 1st Lt. Robert J. Springer, Jr., Tech. Sgt. Herman L. Giles, and 16 other air crewmen, while on routine Airborne Operations Center radar early warning patrol over the Pacific aboard RC-121D aircraft (s/n 53-3400) detected a target on IFF Mode 2 transponder only. At 7:56 the IFF target became a direct radar "skinpaint," at 8:02 the IFF equipment APX-6/APX-7 was turned off but target was still tracked on airborne radar. At 8:15 target was at 2 o'clock position 10 miles range when aircraft started a right turn to reverse course putting target at dead ahead and target "suddenly" took off to the NW at "very high" speed, disappearing at 58 miles range (within 1-2 mins? at 1,800-3,600 mph?). Regained radar contact at 8:18 at 1 o'clock position 22 miles range moving right to left, crossed in front of aircraft again, closing distance to 8 miles at 11 o'clock position at 8:20 when target turned to head on parallel path. Lost contact at 8:24 at 7 o'clock position behind the plane at 15 miles, IFF remaining off, no visuals. (Sparks; Jan Aldrich)	37-39 mins	2+		radar and IFF
1132.		Aug. 22, 1957 Cecil NAS, Florida. 3:40 p.m. Sheetz and another civilian in a car chased a 50 ft black, bell shaped object bearing two bright, white lights at the top until the engine stalled when object hovered 10 ft away. Underside resembled a disk with fins. When a jet took off from the airfield, the object went out of sight almost instantly. Car battery was found completely dead. Noise from the object compared to helicopter though no helicopter in the area. (Sparks; Vallée Magonia 399; Saunders/FUFOR Index)		2	140 ?	EM
1133.		Aug. 22, 1957. Cambria AFS, Calif. 7:35 p.m. (PST). USAF personnel at 775th ACWRON, radar operator Sq, Lt George Miller, and XXX, sighted 2-3 round red and orange objects in stack formation to the SW at 15° elevation, observed in binoculars. At 7:58 a.m. FPS-3 search radar and FPS-6 height-finder radar detected object in the same direction at 12,000 to 17,000 ft. Miller and two others at radar station observed another object in the W, apparently the planet Venus. Two F2H Navy fighters from Moffett Field NAS were sent to the area and made visual contact with what they considered to be a star. When fighters got within 50 miles of objects both fighters' IFF transponder signals disappeared from FPS-3 search radar scope. Fighter aircraft IFF did not reappear until the fighters departed and reached range of about 70 miles from the objects. (NICAP; Sparks; McDonald list; Saunders/FUFOR Index)	1 hr 33 mins	3	1 ?	radar-visual + binoculars
1134.		Aug. 27, 1957. Dry Tortugas, Florida. 4:45 p.m. (EDT?).				RV

		Crew of military aircraft saw an object with bright red to reddish-yellow pulsating light, tracked by ground radar. (Sparks; Project 1947)				
1135.		Aug. 29, 1957. Paso Robles, Calif. Daytime? Taylor and Bunting saw silver circular object flying N to W. (Sparks; Hynek UFO Rpt p. 44; Saunders/FUFOR Index)	4 mins	2		
1136.		Sept. 19, 1957. Point Pleasant, New Jersey. 6:40 p.m. Connell saw a boomerang-shaped object bigger than a house land. Grass flattened. (Sparks; Vallée Magonia 403; Saunders/FUFOR Index)				
1137.	4959	Sept. 20, 1957. Kadena AFB, Okinawa. 8 p.m. S/Sgt. H. T. O'Connor and S/Sgt. H. D. Bridgeman saw an object, shaped like a coke bottle without the neck, translucent and fluorescent, make four 5-10 second passes from N to S, with 4-5 mins between passes. (Sparks; Berliner)	4 x 5-10 secs ?	2		
1138.		Sept. 20, 1957. Montauk, New York - Benton, Penna. 4 p.m. National air defense UFO alert (previous cases on Dec. 6, 1950, Apr. 17, 1952, not in BB files apparently; see subsequent alert of Apr. 18, 1962, in BB files). High speed 2,300 mph radar target on E-W path at 50,000 ft altitude tracked by multiple radars, including 1-min track by FPS-3 at Montauk Point and 9 mins by CPS-6B at Benton, from E Long Island to Buffalo, New York (with alleged 11 min gap in between??), triggering a White House alert, high level CIA, USAF Intelligence, IAC Watch Committee, and IAC Executive Session meetings (IAC was board of directors of US Intelligence Community now called National Foreign Intelligence Board, NFIB). Speed varied from 1,500 to 4,500 mph. (Sparks; FOIA; Sparks; FBI files)	20+ mins ?	multiple		multiple radars
1139.	5003	Oct. 8, 1957. Seattle, Wash. 9:17 a.m. 2 U.S. Army sergeants saw 2 flat, round, white objects fly in trail formation along an irregular path, frequently banking. (Sparks; Berliner)	25-30 secs	2		
1140.		Oct. 19, 1957. Mildenhall RAF Station, England, UK (at 52°22' N, 0°29' E). 5:40 p.m. (GMT). USAF 1979-2 AACS Detachment air traffic controller Airman 2nd Class Harold R. Pringle, watch supervisor Airman 2nd Class Allen B. Warsewich, and GCA radar (CPN-4) operator Airman 2nd Class William H. Conn. Visual sightings of slow-moving circular object, light-yellow gradually changing to orange, low on horizon in the SW, at 5:40 p.m. at 5° elevation 230° azimuth, disappeared in clouds at 6:09 p.m. at 3° elevation 250° azimuth, after moving an estimated 15°-18° (rounded off to 20°). Mildenhall RAF Station Weather Observer sighted object at 5:55 p.m. Lakenheath AFB RAPCON sighted stationary object changing colors from yellow to orange at 7:28 p.m. to the SW of Mildenhall [thus about SSW of Lakenheath]. Initial visual sightings at Mildenhall possibly Venus though discrepancies in position (Venus was at about 220° to 225° azimuth moving only 5.9°, and at elevation 4° to 1°) and Venus set at about 6:21 p.m. thus cannot have been seen at Lakenheath at 7:28 p.m. Weather was "haze" [about 1-3 miles visibility] or clouds with only 6 miles visibility, making it unlikely that Venus or other	29+ mins (visual)	6+	1 ?	RV, EM, binoculars

		astronomical bodies could be seen. Ghost radar UFO followed RAF Meteor jet ca. 10:40 p.m. Radar targets correlated with some visual sightings. (Sparks; McDonald list; NICAP website)				
1141.		Oct. 21, 1957. RAF Gaydon [North Luffenham?], Warwickshire, England. 9:18 p.m. RAF pilot flying Meteor fighter had near collision with object, 6 lights emerged when fighter approached, object disappeared suddenly, ground radar tracking confirmed sighting. (Sparks; Project 1947; Saunders/FUFOR Index; Mary Castner/CUFOS)		2+ [?]		RV
1142.		Oct. 22, 1957. Wiesbaden, West Germany. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1143.		Nov. 2, 1957. 3 miles W of Canadian, Texas. 3:30 a.m. Calvin and other military/civilian witnesses saw a submarine-shaped object, red and white, 2-3x car length (40-60 ft) and about 10 ft high, at ground level. A figure was seen near the object, compared to a white flag [?]. When a car stopped nearby, a flash of light from the object coincided with the sudden failure of the headlights. (Sparks; Vallée Magonia 418; Saunders/FUFOR Index)		2+ ?		EM
1144.		Nov. 2, 1957. 4 miles W of Levelland, Texas. 10:50 p.m. Pedro Saucedo and Jose Salaz driving W saw a flash of light to the right of the road then a large 200 ft long 6 ft wide blue torpedo-shaped object, with yellow flame and white smoke emitted from the rear, rose up out of the field, headed straight toward their truck, passed directly overhead at about 200 ft with a loud thundering roar, a rush of wind and great heat, causing the truck engine to die and headlights to go out, then disappeared in the E towards Levelland, and the lights came back on spontaneously and the engine was able to be restarted. (Sparks; Hynek UFO Exp ch. 9; Tony Rullán; Vallée Magonia 419)	2-3 mins	2	100	EM
1145.		Nov. 3, 1957. 9 miles E of Levelland, 1 mile W of Smyer, Texas. 12:05 a.m. Texas Tech college student Newell H. Wright was driving W when the ammeter on his car dashboard started fluctuating widely, car motor gradually went out then headlights and radio died. He got out to check and saw a white or aluminum-colored oval-shaped object flat on the bottom like a loaf of bread, with a greenish tint, about 75-125 ft long. After a few mins object suddenly rise up from the road ahead and ascend almost vertically at great speed, slightly to the N, disappearing in secs. Afterward car was able to be restarted. (Hynek UFO Exp ch. 9; Tony Rullán; Vallée Magonia 419)	4 mins	1		EM
1146.		Nov. 3, 1957. White Sands Proving Ground (WSPG), New Mexico. 2:30-3 a.m. (MST). Army Cpl. Glenn H. Toy and PFC James E. Wilbanks, Army Garrison Detachment 5, WSPG, in a jeep patrol driving N, located S of Stallion Site, saw an orange or fire-like, "apparently controlled," egg-shaped luminous object about 120 ft (PFC estimate) 225-300 ft (Cpl. estimate) in size, first high in the sky descending to 60-80 ft (PFC estimate) or 150 ft (Cpl. estimate) above ground, hovering for 3 mins (then disappeared for a few mins and reappeared almost as	10 mins	2	2 ?	

		bright as the sun, then fell at about a 40° angle to the ground as if landing and light went out, about 2-3 miles away at the N end of the test grounds. Possibly the nearly Full Moon which set about 2:40 a.m. (Sparks; BB files; Magonia 420; Saunders/FUFOR Index)				
1147.		Nov. 3, 1957. White Sands Proving Ground, New Mexico. 8 p.m. (MST). Army Spec-3 Henry R. Barlow and Spec-3 Forest R. Oakes, Army Garrison Detachment 5, WSPG, in a jeep patrol driving W near the site of the first A-bomb explosion, Trinity Site, saw a pulsating red then white light, possibly 200-300 ft in size about 4-5 miles away, brightening and dimming sometimes going out, rising in the sky from the ground (per Spec-3 A) or from about 50 ft over the bunker (per Spec-3 Z) up to about 45° elevation until it looked like a star or point source then disappeared. Possibly Venus in the SW disappearing in cloud layer or setting at about 7:50 p.m. (Sparks; BB files; Magonia 420; Saunders/FUFOR Index)	25 mins	2	1?	
1148.		Nov. 4, 1957. About 8-10 [4?] miles SSW of Orogrande, New Mexico (at about 32° 18' N, 106° 8' W, elev. 4100 ft). 1:10 p.m. (MST). James Stokes, electronics instrumentation technician, Rocketsonde Branch, High Altitude Test Division, AF Missile Development Center, Holloman AFB, NM, a Mr. Duncan of Las Cruces, NM, and Allan Baker of Holloman AFB. Stokes was driving S down Hwy 54 when his radio faded and the car slowed [stopped?] as if the battery was failing then he noticed 6-12 cars ahead of him had stopped and drivers were out looking at the sky (looking behind him to the NE), including Duncan and Baker. Stokes stopped and got out, saw pearl-white oval or egg-shaped object about 500 ft wide with slight purplish tinge heading S at high speed estimated 1500-2000 mph from the NE below elevation angle of Sacramento Mtns ridgeline (about 1°), descending from about 5,000 ft above ground level in shallow dive to about 1,500-2,500 ft AGL as it swerved to the W to pass to the S of Stokes and the other stopped cars about 2 or 3-5 miles at closest, then circling around headed W and disappearing. The same or another object appeared in the NE (as if the object had completely circled) and performed same rounded course but passing farther to the S of the parked cars [about 5 miles?] and disappeared in the W. Duncan took 35 mm film of the object. Stokes noticed a wave of heat from the object at closest approach, later that evening was sunburned, but it cleared up the next day. (Sparks; APRO; BB files; McDonald list; Saunders/FUFOR Index; etc.)	2+ 2 mins [~1.5 + 1.5 mins]	7+	2-1/2	EM
1149.		Nov. 4, 1957. Elmwood Park, Illinois (at 41°56.3' N, 87°49' W). 3:12-3:22 [3?] [3:15?] a.m. (CST). Police officers Joseph Lukasek and Clifford Schau and fireman Daniel De Giovanni on patrol noticed unexplained dimming of their spotlight and headlights, saw setting-sun-like orange globe straight ahead down the street to the W [street oriented to 268° azimuth], various maneuvers as they pursued it over 1-1/2 miles and U-turns, seen to N,	10-15 mins	4	1	EM

		passing over their car behind them to E and again W, approaching to within 150-300 ft [?]. Noiseless, changed to cigar shape at one point. Disappeared high up in the sky like a black shade pulled up from the bottom. Moon reportedly seen to the E in clear sky [actually W, at about 274°-275° setting at 276° at about 3:30 a.m., 90% full, and street oriented to 268° so moon not visible through ½ mile of buildings lining alleyway of W. Wellington Ave.]. Independent witness Helmut Reuter saw the red-orange cigar-shaped object to the W at 3:15 a.m. from 73rd Ave., Elmwood Park. (Sparks; Hynek UFO Rpt pp. 172-6; Vallée Magonia 421; Loren Gross Nov. 3-5, 1957, pp. 22-27; Herb Taylor)				
1150.		Nov. 4, 1957. 3 miles SE of El Paso Airport, Texas. 7:30 p.m. Border Patrol inspector Burton saw egg-shaped object with bluish glow approaching from the SW at 30° elevation with whirring sound like artillery shell after car stalled and headlights dimmed and blacked out. Object passed over car at 100 ft height headed W, changing altitude at irregular intervals, rose vertically at Franklin Mtns. (Sparks; Hynek UFO Rpt p. 181; Saunders/FUFOR Index)		1		EM
1151.		Nov. 4, 1957. Kirtland AFB (at 35° 3' N, 106°38' W) and Manzano Base/Site A National Nuclear Stockpile, Albuquerque, New Mexico. 10:45 p.m. (MST). CAA air traffic controllers R. M. Kaser and E. G. Brink saw a highly maneuverable 15-20 ft egg-shaped object with a white light at its base circle over the W [E?] end of the base at 150-200 mph and come down in a steep 30° dive as if landing on Runway 26, to the N or NW of the tower at about 1500 ft. Radar tracked part of this maneuver. Object then crossed flight line, runways and taxiways heading towards the tower at about 50 mph and 20-30 ft above ground, observed through 7x binoculars till it reached about 3,000 ft to the ENE near the NE corner of the floodlit restricted nuclear Weapons Storage Area / Area D/Drumhead Area (Manzano Base/Site A National Nuclear Stockpile), and a B-58 bomber service site, where it hovered for 20 secs-1 min then headed E again, at about 200-300 ft height, then suddenly shot up at a steep climb at about 45,000 [4,500?] ft/min. Controllers contacted RAPCON which tracked object on CPN-18 radar traveling E then turning S, circling the Albuquerque Low Frequency Range Station then headed N [disappearing at 10 miles and reappearing 20 mins later to circle around ?] to follow 1/2 mile behind a USAF C-46 that had just taken off to the S for 14 miles until both went off scope. Hovering radar target then appeared to the N over outer marker for 1-1/2 mins before fading. (Sparks; McDonald 1968, 1972; Hynek UFO Exp ch. 7, case RV-3)	25 mins ?	3+	1/2 ? (2° ? equiv in binocs)	RV, binoculars
1152.		Nov. 5, 1957. Long Beach Airport, Calif. Zibello. (Sparks; McDonald list; Saunders/FUFOR Index)				
1153.		Nov. 5, 1957. Eglin AFB, Florida. (Sparks; McDonald list)				radar
1154.		Nov. 5, 1957. About 200 [350?] miles S of Mobile (at 25° [27°?] 47' N, 89°24' W) and near Selma, Alabama. 5:16-	7 mins ?	5+ ?		RV

		5:23? a.m. US Coast Guard cutter Sebago heading NNE at 23° azimuth tracked radar target to the S at 188° azimuth range 22 miles traveling at 650 mph disappearing at 190° azimuth at 55 miles range. Visual object like a brilliant planet was seen at 5:21 for 5 secs traveling left to right from W to NW from 270° to 310° azimuth at about 31° elevation. A radar target seemingly stationary for 1 min at 5:20-21 to the N at 350° azimuth range 7 miles moved slowly towards the NE then accelerated rapidly off the scope at 15° azimuth (about NNE) at 175 miles. 3 USAF pilots at Selma saw a bright object flash from S to N, time uncertain. (Sparks; Hynek-CUFOS-Willy Smith files; cf. CR p. 165)				
1155.		Nov. 5, 1957. Scotia, Nebraska (41.46° N, 98.68° W). 5:30 p.m. Winslow heard helicopter-like noise, smelled "burning" odor, saw a balloon-like, elongated object coming to ground level, without touching down, emanating thick smoke, then object rose again and disappeared. Witness was "paralyzed" during sighting. (Sparks; Vallée Magonia 424; Saunders/FUFOR Index)		1		
1156.		Nov. 6, 1957. Kagoshima, Japan (31°37' N, 130°32' E). (Sparks; McDonald list)				radar
1157.		Nov. 6, 1957. Laredo AFB, Texas. (Sparks; McDonald list)				radar
1158.		Nov. 6, 1957. Whiteman AFB, Missouri. (Sparks; McDonald list)				radar
1159.		Nov. 6, 1957. N of Seoul, South Korea (at 37°30' N, 127° E ?). Morning. A luminous bluish-white barrel-shaped object was seen close to the ground, reflected in a pool of water. It rose and vanished "like a light switched off." (Vallée Magonia 426)				
1160.		Nov. 6, 1957. Santa Fe, New Mexico. 12:10 a.m. J. Martinez and A. Gallegos saw an egg-shaped object slowly coming toward them at low altitude, illuminating their car, producing a humming sound. Car engine, clock and a wristwatch stopped. Object shot away to the SW. (Sparks; Vallée Magonia 425; BB files??)		2		EM
1161.	5205	Nov. 6, 1957. Boerne, Texas. 6 p.m. McGregor saw an oval object, about 15 ft long, bright orange similar to glowing coals, hovering 12 ft above ground. He went to call his family but the object had vanished when he returned. Tape [?]. (Sparks; cf. Vallée Magonia 431; Saunders/FUFOR Index)		1		
1162.		Nov. 6, 1957. Lake County, Ohio. 6:30 a.m. Markell saw an unbearably bright round object, much larger than a plane, landing on a ridge, then taking off again. Object had an "odd color," left no trail, made no noise. (Sparks; Vallée Magonia 428; Saunders/FUFOR Index)		1		
1163.		Nov. 6, 1957. Montville, Ohio (41.62° N, 81.06° W). 11:30 [11:20] p.m. (EST). Olden J. Moore, 28, a plasterer, while driving home suddenly saw an object like a bright meteor split into two pieces, one going straight up, the other getting larger while color changing from bright white to blue-green. Object hovered 200 ft above a field close to ground, 500 ft away, with a soft whirring sound. After 15	15 mins +	1	12 +	radioactivit y

		mins, Moore walked to the object, which was shaped like "a covered dish" 50 ft in diameter, 15 ft high, with a cone on top about 10 ft high, surrounded by haze or fog, pulsating slowly. Holes, footprints and decaying radioactivity found at the site by Civil Defense Director Kenneth Locke. (Sparks; Vallée Magonia 433; Michel-Mebane 1958)				
1164.	5227	Nov. 6, 1957. Radium Springs, New Mexico. 10:50 p.m. Las Cruces policeman [Barela?] and a Dona Ana County Deputy Sheriff saw a round object changing from red to green to blue to white rising vertically from a mountain top. (Sparks; Berliner; Saunders/FUFOR Index)	10 mins	2		
1165.		Nov. 7, 1957. Harlingen AFB, Texas (26.18° N, 97.69° W). (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1166.	5254	Nov. 8, 1957. Merrick, Long Island, New York. 10:10 a.m. Mrs. L. Dinner saw a bar-shaped object, 3.5 ft long, giving off blue flashes and a swishing sound. No further data. (Sparks; Berliner)		1		
1167.		Nov. 9, 1957. Lake City, Missouri. 1 a.m. Boardman driving home from work saw a hovering object 50 ft long. Car engine died as he approached, restarted again after object's departure. (Sparks; Vallée Magonia 439; Saunders/FUFOR Index)		1		EM
1168.		Nov. 12, 1957. Houma, Louisiana. (Sparks; McDonald list)				
1169.		Nov. 14, 1957. Rothwesten, West Germany. [601st AC&W Sq ?] (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1170.		Nov. 22, 1957. 10 miles SE of Tarakly, Turkey (at 40°15' N, 30°32' E). Daytime. Turkish Air Force pilot saw a 10 ft regular-hexagon-shaped object. (Sparks; Project 1947)		1		
1171.		Nov. 23, 1957. Joliet, Illinois. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1172.		Nov. 23, 1957. 30 miles W of Tonopah, Nevada. 6:10-30 a.m. (PST). 1st Lt. Joseph F. Long, fighter pilot. Car engine stalled, he heard high-pitched whining noise, saw 4 landed 50-foot saucer-shaped UFO's to the right of the road at 900-1200 ft away. He approached on foot to 50 ft distance, objects lifted off, flew north over highway, disappeared behind hills 1/2 mile away. Ground impressions at the landing site. (Sparks; Hynek UFO Rpt pp. 182-6; Willy Smith pp. 71-79; Vallée Magonia 445)	20 mins	1	72	
1173.		Nov. 25, 1957. Eglin AFB [S of Hurlburt Field?], Florida. 10 p.m. USAF B-66 crew saw 3 objects, tracked by ground radar. (Sparks; McDonald list; Project 1947)				RV
1174.		Nov. 26, 1957. West Mesa AFS, New Mexico. 8:41 p.m. (MST). Airmen Montoya, Bazinette and Scott at 687th ACWRON Squadron ADC radar site M-94 with MPS-7 radar tracked unknown target at 3,000 knots (3,500 mph) at 315° azimuth 170 NM range decreasing range to 115 NM at 315° azimuth then disappearing at 63 NM, still at 315° azimuth, in 6 additional sweeps of radar antenna in 1 min 24 secs. Elevation angles unknown. Target correlated with IFF Mode 3 transponder signals emitted by UFO radar target. (McDonald list; Saunders/FUFOR	1 mins 24 secs	3		radar IFF

		Index)				
1175.		Nov. 26, 1957. Sea of Okhotsk, W of Kamchatka, USSR (at 53°30' N, 154°28' E). 11:04 p.m. USAF crew of RB-50, 6091st Recon Sq, saw a brilliant red object with bluish-green tail in level trajectory. (Sparks; Project 1947)				
1176.		Nov. 26, 1957. Joliet, Illinois. 6:30 a.m. Air National Guard F-86A pilot saw a stationary yellowish object disappear slightly [?] to the N. (Sparks; Project 1947)		1		
1177.	5419	Nov. 26, 1957. Robins AFB, Georgia. 10:07 a.m. 3 control tower operators, 1 weather observer and 4 others saw a silver, cigar-shaped object, which suddenly vanished. (Sparks; Berliner)	8 mins	8		
1178.		Nov. 27, 1957. Yakima, Wash. 1:25 a.m. (PST). Northwest Airlines Flight 535 pilot in the air and control tower operator on the ground saw a bright red glow turning to white smoke moving S. (Sparks; Project 1947)		2		
1179.		Nov. 27, 1957. Toledo, Ohio. 7:35 p.m. (EST). Pilots of Eastern and Northwest Airlines airliners saw an object flying straight at about 4,800 knots (5,500 mph). (Sparks; Project 1947)		2+ ?		
1180.		Nov. 30, 1957. Minot, North Dakota. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1181.	5445	Nov. 30, 1957. New Orleans, Louisiana. 2:11 p.m. 3 U.S. Coast Guardsmen saw a round object turn [?] white, then gold, then separate into 3 parts and turn red. (Sparks; Berliner)	12 or 20 [?] mins	3		
1182.		Dec. 11, 1957. Guthrie, Penna., and Parkersburg [near Lockbourne AFB, Ohio?], West Virginia. 10 p.m. USAF pilots of 3 F-86's with 87th FI Sq saw an orange circular or crescent-shaped object moving erratically at Mach 1.5 (about 1,000 mph) with ground radar tracking. (Sparks; Project 1947; McDonald list)		3		radar
1183.		Dec. 11, 1957. Lake City AFS, Tenn. (Sparks; McDonald list)				radar
1184.		Dec. 12-15, 1957. Misawa Chitose, Hokkaido, Japan. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1185.		Dec. 13 [23?], 1957. Sea of Japan. 9:43 p.m. (local) (1243 Z). RB-47 of 6901st Recon Sq [on recon patrol] intercepted by ELINT "unusual double pulsed" radar signals at 1218 Z and 1307 Z that were evidently not UFO-related. RB-47 airspeed 432 knots, altitude 35,000 ft. A [meteor-like] "projectile" with long [luminous] trail was sighted by the RB-47 pilot, which passed over the tail of the RB-47 at unknown distance, traveling in an arc, disappearing with very bright explosion like flash bomb [like a meteor bolide] at relative bearing 220° and an undetermined altitude 50° elevation above aircraft at 1243 Z, RB-47 position 41°04' N, 132°05' E. Apparently at same time the onboard APQ-31 bombing / navigation radar was jammed from 1243 Z to 1244 Z, RB-47 True Heading 247°. Radar jamming signal was at True Bearing 335° to 001°; signal was continuous, no targets could be seen and "jamming could not be tuned out." Misdated by BB to Dec 23. (Sparks; McDonald list;				radar jamming

		Saunders/FUFOR Index; Terry Colvin; Ballester-Olmos)				
1186.	5545	Dec. 13, 1957. Col Anahuac, Mexico. 9:35 a.m. R. C. Cano saw 14-15 [or 30] circular, tapered discs, very bright, fly in a formation like a stack of coins, then change to an inverted-V formation. (Sparks; Berliner; cf. Hynek UFO Rpt. p. 120)	20 mins	several?		
1187.	5559	Dec. 17, 1957. Fruita-Grand Junction, Colo. 7:20 p.m. F. G. Hickman, 17, saw a round object change from yellow to white to green to red, with red tail 2x as long as the body. Object stopped, started, backed up. (Sparks; Berliner)	45 mins	1		
1188.		Dec. 19, 1957. Pepperrell AFB, Newfoundland, Canada. (Sparks; McDonald list)				
1189.		Jan. 3, 1958. Old Westbury, Long Island, New York. 2:35 p.m. (EST). Fensterstock. (Sparks; Hynek UFO Rpt p. 43; Saunders/FUFOR Index)	8-10 secs			
1190.		Jan. 4 [1?], 1958. SW Libya. 12:08 a.m. (GMT). Military aircraft pilot and navigator saw a bright orange light streaking across the sky on a NE heading, with airborne radar tracking. (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)	6 secs	2		radar
1191.		Jan. 9, 1958. Biggs AFB, El Paso, Texas. 7:37 p.m. (CST). (McDonald list; Saunders/FUFOR Index)	5 mins			radar
1192.		Jan. 11, 1958. Bering Sea, about 150 miles N of Atka Island, Aleutian Islands, Alaska (at 54°43' N, 175°15' W). 7:30 a.m. USN pilot of P2V-5F aircraft saw a formation of 3 lights flying at 900 knots (about 1,000 mph) tracked by airborne radar merging into one target. [Identical to Jan. 14, 1958, incident??] (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)	5 mins			RV
1193.		Jan. 14, 1958. Bering Sea. 8:34 a.m. Military aircraft crew saw 3 lights in triangular formation flying SW at 320 knots (about 400 mph) tracked on airborne radar. [Identical to Jan. 11, 1958, incident??] (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)				RV
1194.		Jan. 16, 1958. NE of Trindade Island, Brazil (20°30' S, 29°19' W). 12:15 [12:20] p.m. IGY research ship crew members possibly including Cdr. Paulo Moreira da Silva of the Brazilian Navy Hydrography & Navigation Dept. and 46 other crew members (possibly as many as 100?), plus semi-official civilian photographer Almiro Baraúna, sighted Saturn-shaped object with greenish glow maneuvering over Trindade Island. Baraúna took 4 photos of object. Ship's radar detected unidentified supersonic target on Jan. 15 at 12:05 PM [or Jan. 16?]. Power failure on the boat just before object sighted. (Sparks; Hynek/CUFOS 1983 tape interview of Baraúna; APRO/Lorenzen/Fontes; etc.)	1 min ?	47 ? 100 ?	3	photos; EM effects; radar?
1195.		Jan. 31, 1958. 25 miles SW of Tokyo, Japan. Night. USAF pilots of T-33 jet(s) saw 12 yellow-orange lights fly S in 3 groups. (Sparks; Project 1947)	30 secs			
1196.		Feb. 12 [13?], 1958. W of Wake Island. 9:14 [8:14?] p.m. Military pilot saw a greenish-blue object emitting a bright flash and tracked on airborne radar with a 2nd object. (Sparks; Project 1947; McDonald list; Saunders/FUFOR				RV

		Index)				
1197.		Feb. 20, 1958. NW of Winslow, Ariz. 6:32 p.m. (MST). 12 military officers including on the ground [?] saw a round or cigar-shaped stationary object. (Sparks; Project 1947; Saunders/FUFOR Index)	4+ mins	12		
1198.		Feb. 25, 1958. Glenwood, Newfoundland. 12:10 a.m. (AST). Johnson. (Sparks; McDonald list; Saunders/FUFOR Index)	1 hr 25 mins			
1199.		Feb. 25, 1958. Gander AFB, Newfoundland. 2:30 a.m. (AST). Miller. (Sparks; McDonald list; Saunders/FUFOR Index)	1 hr 30 mins			radar
1200.		March 2 [1?], 1958. Tampa, Florida. 7:45 [8:45?] p.m. Francis saw a balloon-shaped object with bright light land on the airfield then take off slowly and hover at 750 ft altitude before disappearing. (Sparks; Vallée Magonia 461; Saunders/FUFOR Index)	15 mins	1		
1201.	5716	March 14, 1958. Healdsburg, Calif. 8:45 a.m. Mr. and Mrs. W. F. Cummings and another saw a 3 ft round, black object come from the W, touch the ground 50 ft away in the backyard, then take off to the E, turn S, and disappear. (Sparks; Berliner; cf. Vallée Magonia 462)	2 mins	3	6	
1202.		April 7, 1958. Dayton airport, Ohio. 7:30 p.m. Civilian pilot Hilt saw a very dark blue 6-8 ft cloud-shaped object on a SW heading. (Sparks; Project 1947; Saunders/FUFOR Index)	4 mins			
1203.	5763	April 14, 1958. Lynchburg, Virginia. 1 [12:20?] p.m. USAF Maj. D. G. Tilley, flying C-47 transport, saw a grey-black rectangular object rotate very slowly on its horizontal axis. (Sparks; Berliner; Saunders/FUFOR Index)	4 secs	1		
1204.		May 3, 1958. Flagstaff, Ariz. 8:25 a.m. (PST). (Sparks; McDonald list; Saunders/FUFOR Index)	15 mins			
1205.	5800	May 9, 1958. Bohol Island, Philippines. 11:05 a.m. Philippine Airlines pilot saw an object with a shiny, metallic surface, falling and spinning. (Sparks; Berliner)	1.5 mins	1+ ?		
1206.		May 15, 1958. Caracas, Venezuela. Venezuelan Air Force aircraft pilot saw a formation of circular saucers disappear in the NW at high speed. (Sparks; Project 1947)				
1207.		May 15, 1958. Fort Bragg, North Carolina. 10:57 p.m. (EDT). Military pilot Beck [?] and 2 civilian airline pilots saw an orange round object heading N at high speed. (Sparks; Project 1947; Saunders/FUFOR Index)	5 mins	3		
1208.		May 28, 1958. Templehof, Germany. 1:30 p.m. (GMT). (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1209.		June 9, 1958. Central Puget Sound, Wash. 10:17 a.m. (PST). USAF 1st Lt. Charles Scharf, pilot of F-102 jet fighter (no. 1425) with 318th FI Sq. McChord AFB, Tacoma, Wash., and ground witnesses [?] saw a pinkish-whitish cylindrical object (length/width ratio 12:1) with a slight orange tint [?] and a dark circle in the center approaching at high speed at about 30° elevation with an oscillating motion. F-102 was heading S or 180° between 40,000 and 50,000 ft at about 600 mph. Pilot banked left to keep object in sight, object continued N, then climbed,	4 mins	3+ ?		

		decelerated, made a large 360° orbit, then circled the jet 3 times as it descended closer. Object finally pitched up 45° and accelerated in a climb, rapidly disappearing on a NW heading. (Sparks; NARCAP; Project 1947; Saunders/FUFOR Index)				
1210.		June 12, 1958. 10 miles W of Huntsville, Texas. 5:26 a.m. (CDT). Military pilot saw an oval reddish object the size of a pinhead [at arm's length?] on a S to NE course. (Sparks; Project 1947)		1	4/10 ?	
1211.	5852	June 14, 1958. Pueblo, Colo. 10:46 a.m. Airport weather observer O. R. Foster, using a theodolite, sighted an object shaped like Saturn, less the bottom part, silver with no metallic luster, which flew overhead. (Sparks; Berliner)	5 mins	1		theodolite; weather observer
1212.	5857	June 20, 1958. Fort Bragg, North Carolina. 11:05 p.m. Battalion Communication Chief SFC A. Parsley saw a silver, circular object, its lower portion seen through a green haze, hover, then oscillate slightly, then move at great speed. (Sparks; Berliner)	10 mins	1		
1213.		July 20, 1958. 4 miles N of Glennie, Mich. (at 44° 37' N, 83°43' W). 2 p.m. (CDT). 3 independent witnesses heard an object hit water of a private lake making a circle 10 ft across with foam on edge of circle 2-3 ft high, making loud sound heard 200 yards away. Object sizzled 1.5 mins, zigzagged across surface 200 ft with violent motion, then sank into 50 ft depth of water as circling died out. (Sparks; Tony Rullan)	1.5+ mins	3	2 ?	
1214.		July 20, 1958. Crystal Lake, NW of Chicago, Illinois. 5:07 p.m. (CDT). Pilot Allyn saw a white disc the size of a basketball [at arm's length??] in straight line flight. (Sparks; Project 1947; Saunders/FUFOR Index)	0.1 min	1		
1215.		Aug. 4, 1958. Malmstrom AFB, Montana (47.50° N, 111.18° W). 11:15 p.m. (MDT). (Sparks; McDonald list)	0.5 min			
1216.		Aug. 11, 1958. Osel Island and Gulf of Finland. (Sparks; McDonald list)				
1217.		Aug. 12 [13?], 1958. 12 miles NW of Las Vegas, Nevada. 1:30 a.m. (MDT). Witness Burgy. (Sparks; Hynek UFO Rpt p. 43)	4+ mins			
1218.	5999	Aug. 17, 1958. Warren, Mich. 7:05 p.m. A. D. Chisholm saw an extremely bright object shaped first like a bell, then a saucer, hover for 5 mins, flip over and speed away to the WSW. (Sparks; Berliner)	6-10 mins	1		
1219.		Aug. 30, 1958. Gray AFB, Killeen, Texas. 1:45 p.m. (CDT). (Sparks; McDonald list)	2 mins			
1220.	6027	Sept. 1, 1958. Wheelus AFB, Tripoli, Libya. 12:15 a.m. Philco technical representative A. M. Slaton saw a round, blue-white object fly at varying speeds. (Sparks; Berliner)	2 + 1.5 mins			
1221.		Sept. 5, 1958. Atlantic (at 29° 3' N, 68°56' W). 2:06 a.m. (EDT). Pan Am airline pilot saw a bright light move E to W, tracked on airborne radar [?]. (Sparks; Project 1947; McDonald list)		1		radar
1222.		Sept. 7, 1958. Miles City AFS, Ellsworth AFB, 12 miles S of Minot, North Dakota. 5:08 a.m. (MDT). Military pilot saw 2 objects with green, white, red flashing lights. Ground radar target lost when aircraft approached.		multi ple		RV

		(Sparks; Project 1947; McDonald list)				
1223.		Sept. 8, 1958. SAC HQ, Offutt AFB, Omaha, Neb. 6:40 p.m. (CST). SAC Operations officer-flight-engineeer-celestial navigator Maj. Paul A. Duich, USAF, plus several USAF officers from AF Ballistic Missiles Division, Los Angeles AFS, Calif., and many other Offutt AFB officers and airmen, plus Offutt air traffic control tower personnel, saw an brilliantly white elongated cylindrical object hovering in the W at about 270° azimuth elevation 30° just after sunset [sunset at 6:46 p.m. CST at azimuth 278°], object oriented vertically with blunter end highest [about 1/10 width/length ratio]. After several mins object turned dull orange-red and became sharper in outline. A swarm of about 10 “black specks” appeared to “cavort” around the lower end of the object for about 1 min before disappearing then the cylinder object began to rotate counterclockwise so no longer oriented vertically and started drifting slowly to the S from due W and dropping in elevation angle over about 5 mins [to about 20° elevation about 268° azimuth] until oriented horizontally and diminishing in angular size. Then during final 5 mins object continued angular descent and S drift and gradual decrease in angular size but began rotating orientation back clockwise to about 45° angle (10:30 o’clock) until disappearing by fading into the slight atmospheric haze in the cloudless sky at about 265° azimuth 5° elevation [angular size about 1/3 of initial size]. USAF Col. took several color photos with 35 mm camera on tripod but later claimed nothing came out. Reported to ATIC but no report in BB files. (Sparks; NICAP)	20 mins	25+	10-20?	SAC HQ + photos?
1224.		Sept. 14, 1958. Wheelus AFB, Tripoli, Libya. (Sparks; McDonald list)				
1225.		Sept. 21, 1958. Sheffield Lake (Ohio). 3 a.m. Civilian woman inside her house saw a circular, aluminum color flat object, 20 ft diameter, 6 ft thick, hovering 5 ft above ground, making a jetlike sound. Object wobbled and emitted gray smoke before rising and taking off. (Sparks; Vallée Magonia 471)		1		
1226.		Sept. 23, 1958. Kindley AFB, Bermuda. (Sparks; McDonald list)				
1227.	6089	Oct. 2, 1958. Stroudsburg, Penna. 2:30 p.m. Naturalist Ivan Sanderson saw a dull-grey object, shaped like a pickle with a flat bottom, fly erratically in loops. (Sparks; Berliner)	15 secs	1		biologist Ivan Sanderson
1228.		Oct. 7, 1958. Alexandria, Virginia (at 38°47.9’N, 77° 2.6’ W). 6:02 p.m. (EDT). John R. Townsend, Special Assistant for Research & Engineering to the Asst. Secretary of Defense, saw a large stationary sharply outlined Saturn-shaped “silvery” or “aluminum clad” oblate spherical object (with “gossamer” surface appearance) with a rim or girdle around its equator in clear sky due S azimuth about 180° at about 20° elevation for about 10 secs, which started rapidly rising at an estimated speed of 1,000 mph and disappeared due to extreme distance at about 30° to 35° elevation still due S after 40 secs, with the impression it was heading away from him to	50 secs	2+	6	highest DoD R&D official; air-ground triangulation

		<p>the S growing smaller until unable to be seen [apparently increased distance to at least 400 miles to drop below minimum visual resolution, at about 36,000 mph average velocity at 80 g's acceleration to an altitude of about 200 miles, terminal velocity about 72,000 mph]. Witness estimated angular size 3° and actual size 600 ft at distance 3 nautical miles, using the passing and turning Capitol Airlines Flight 407 at 2 miles distance during the sighting as aerial distance reference point. Townsend was familiar with standard takeoff pattern of flights from Washington National Airport and said that the airliner he saw during the sighting headed S on a track about 1 mile to his left (along the Potomac River) and then turned right across his field of view of the object. Pilot of Capitol Flight 407 took off in a DC-4 at 5:59 p.m. (EDT) from Washington National heading S and climbed to 2,000 ft and as he was turning right to a W heading out of the traffic pattern [at about 6:02 p.m.] he saw an “unidentified aircraft” with “nose light” at about 3,000 ft heading N, seen in the direction of or over Beacon Field 3 miles to the W (at about azimuth 265° so object was in the glare of the setting sun at approximately elevation 7° azimuth 258° and may have been reflecting the sunlight so as to appear to have a “nose light”). Thus sighting lines crossed with Townsend at right angles, establishing distance and location of object by triangulation as 2 miles S of Townsend at about 3,000 ft altitude and 1 mile W of the airliner, or at 38°46'N, 77° 3'W, and thus actual size as about 500 ft and angular elevation to Townsend about 17° in close agreement with Townsend's measurement (done by protractor after the sighting) and in exact agreement with pilot estimate of 3,000 ft altitude of object. No sound. Townsend reenacted the timing by walking the half block down the N-S running Lee Street (which runs toward 190° True azimuth). Projected target radiant at ascent angle of about 30° at about azimuth 180° is at 17 hrs Right Ascension -20° Declination. (Sparks; Jan Aldrich; Loren Gross Oct. 1958 pp. 22-24, 26)</p>				
1229.		<p>Oct. 11, 1958. W of Holloman AFB, NM. 1:22:44.0 a.m. (CST). Special AF intelligence radar FPS-17 (XW-2) designed for overseas service undergoing testing at Laredo, Texas, detected an unusual meteor (IFO) tracked at roughly ~105,000 mph height 64 NM (73 stat. miles) for 0.75 sec increasing range from about 454 to 473 NM (±2 NM relative accuracy, ±5 NM absolute) at elevation angle 4.0° ±0.5° azimuth 313.0° ±0.5° on Radar Mission 164. Slow-moving ~800 mph meteor train left behind by meteor persisted for succeeding 27.3 secs. Meteor apparently on ~300° (WNW) heading at descent angle ~20° velocity ~125,000 mph about 6 NM WNW of Holloman AFB passed through radar beams descending from ~68 to ~60 NM height from radiant approximately 5.3 hrs RA -13° Declination, within ~10° of Orionid shower radiant. (Sparks; McDonald list; NICAP; BB files)</p>	28.0 secs			radar (IFO)
1230.		<p>Oct. 17, 1958. Grand Rapids, Mich. (Sparks; Hynek</p>	25 secs			

		UFO Rpt p. 44)				
1231.	6148	Oct. 26, 1958. Loch Raven Dam, Maryland. 10:30 p.m. (EST). Phillip Small and Alvin Cohen saw a large, flat egg-shaped object, flying low about 100-150 ft above the bridge, which affected their car's electrical system and caused a burning sensation, rose vertically and disappeared in 5-10 secs. (Hynek UFO Exp ch. 9, case CEII-4; NICAP; BB Microfilm Roll)	1-2 mins	2		EM
1232.		Oct. 27, 1958. Union Dale, Penna. Large gray cigar-like object with an assembly tail flew at treetop height, making a strong "swishing" sound. (Sparks; Vallée Magonia 472)				
1233.		Oct. 31, 1958. Caledon East, Ontario, Canada. 3:50 p.m. Civilian saw an elliptical, aluminum-colored object at 6,000 ft altitude, coming down to 12 ft, flying up and down by sudden jumps, stopping at ground level less than 600 ft away for 5 mins. A red light appeared at one end of the object, which gradually took a fiery color, then exploded. Witness ran away. (Sparks; Vallée Magonia 473)	5 mins +	1		
1234.	6153	Nov. 3, 1958. Minot [AFB?], North Dakota. 2:01 p.m. [USAF?] Medic M/Sgt. William R. Butler saw a bright green object, shaped like a dime coin, and one smaller, silver round object. First object exploded, then second object moved toward the location of the first at high speed. (Sparks; Berliner)	1 min	1		
1235.		Nov. 4, 1958. Pope AFB, North Carolina. 4:03 [9:03?] p.m. (EST). USAF pilot of a landing KB-50 tanker and USAF tower personnel saw an object with strange lights on collision course. Pilot and crew also noticed that "strange lights" were observed inside the cockpit. Pilot aborted landing, climbed and flew around to observe object. Pope AFB tower personnel had watched object hovering above the base through binoculars for 20 mins. (Sparks; NARCAP)	20+ mins	4+ ?		binoculars
1236.		Nov. 8, 1958. Brazilia, Brazil. 2 p.m. (EST). Brazilian [?] Air Force pilot and 500 ground observers saw a moving saucer at 40,000 ft. (Sparks; Project 1947)		500		
1237.		Nov. 13, 1958. Troy Peak and Tonopah Airport, Nevada. (Sparks; McDonald list)				
1238.		Nov. 19, 1958. Montauk AFB, New York. (Sparks; McDonald list)				
1239.		Nov. 20, 1958. W of Calif. coast. 6:15 a.m. (PST). Military pilot saw a round silver object traveling at high speed and high altitude. (Sparks; Project 1947)		1?		
1240.		Jan. 4-5, 1959. Taft, Calif. 11:30 p.m. (PST). Pilots of TWA C-54 and TWA Constellation saw a silver oval object with silver trail flying at 20,000 ft and 10 miles from aircraft [?]. (Sparks; Project 1947)		2?		
1241.		Feb. 2, 1959. Near Sandusky, Ohio. University of Michigan professor and his wife driving on the Ohio Turnpike saw a yellow half-sphere in the sky. (Sparks; Willy Smith pp. 92-93)				professor
1242.		Feb. 16, 1959. Benghazi, Libya. 9:30 p.m. British military man saw a silvery blue to reddish to dark round object with dome, sharply outlined, with vents of green	15 mins	1		

		light, varying brightness, varying speed from hovering to very fast, suddenly disappeared. (Sparks; CUFOS re-eval.; Jan Aldrich)				
1243.		Feb. 24 [?], 1959. 13 miles SW of Williamsport, Penna. 8:20-9 p.m. American Airlines Flight 139 pilot Capt. Peter W. Killian and First Officer James Dee, on a DC-6B airliner flying at 280-300 mph from Newark to Detroit, saw 3 lights changing relative position, separation and color (yellow-orange to brilliant blue-white) at the 9 o'clock position to the SSW at 30° elevation. Two other airliners reported seeing the 3 lights. (Sparks; CUFOS tape index cards; Willy Smith pp. 85-96)	40 mins	many	1	
1244.		Feb. 24, 1959. Victorville, Calif. 10:00-10:15 p.m. Intense white light lit up bedroom, dogs barked as if terrified, witness sighted to the W at about 20° elevation a biconvex dull red object about 25 ft wide with a blunt tear-drop profile approaching rapidly within 10 secs lowering height to about 8-10 ft passing about 80 ft away N of house and veering slightly to NE disappearing from behind; 5 mins later reappeared to W and made a similar pass and at similar intervals 3 more W-NE passes. Object made high-pitched transformer hum, radio static noted. (Sparks; Hynek UFO Rpt pp. 167-170)	5 x 20 secs	2	40	EM
1245.		March 10, 1959. Grand Bahama Island, West Indies. (Sparks; McDonald list)				
1246.		March 12, 1959. Duluth-Finland, Minn. (Sparks; McDonald list)				
1247.		March 13, 1959. Duluth, Minn. 6:20 p.m. (CST). Military aircraft crew saw an object with orange, red, white, green lights, the red lights rotating on the bottom. Complex case poorly investigated by BB (see also March 12, 1959, case above). (Sparks; Project 1947; McDonald list)	15 mins ?	many		
1248.		March 14, 1959. Ellsworth AFB, South Dakota. (Sparks; McDonald list)				
1249.		March 22, 1959. Ann Arbor, Mich. (Sparks; McDonald list)				
1250.		March 23, 1959. Bismarck, ND. USAF radar-visual of 4 objects, photo of 7 objects. ?? (CUFOS?)				RV
1251.		March 25, 1959. S Saskatchewan-N Montana. 7:36 p.m. (MST). B-52, call sign "Outcome 15," from 92nd Bomb Wing, Fairchild AFB, Wash., was on refueling mission 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 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., B-52 Electronic Warfare Officer 1st Lt. Millard detected on APS-54 Radar Warning Receiver an X-band radar emission at 9130 MHz from unidentified object tailing the B-52, then also detected same signal on APR-9 ELINT Radar Receiver. 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	60+ mins	many		ELI NT RV case

		(about 6-8 miles). B-52 pilot radioed ADC GCI radar site at 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 intrceptor. 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, described as “relatively high performance,” speed in excess of Mach 0.8 (530 mph), altitude above 53,000 ft, with a “considerable acceleration capability.” ELINT RADAR-VISUAL with F-89 intercept of radar-emitting UFO tailing B-52. (Sparks; BB NARS microfilm; McDonald list)				
1252.	6317	March 26 or 27, 1959. Corsica, Penna. 12:45 p.m. T. E. Clark saw a dark red, barrel-shaped object, 20 ft long, 6-7 ft high, descend below some trees. (Sparks; Berliner)	3 mins	1		
1253.		April 13, 1959. Antigo & Madison, Wisc. (Sparks; McDonald list)				
1254.		May 2, 1959. Pease AFB, New Hampshire. (Sparks; McDonald list)				
1255.		May 13, 1959. Offutt AFB, Omaha, Nebraska. (Sparks; McDonald list)				
1256.		May 14, 1959. Philadelphia, Penna. (Sparks; McDonald list)				
1257.		May 18, 1959. Greenbush, Kansas. (Sparks; McDonald list)				
1258.		May 21, 1959. 8 miles E of Rapid City, South Dakota. (Sparks; McDonald list)				
1259.		June 3, 1959. Genoa, Italy. (Sparks; McDonald list)				
1260.		June 9, 1959. Manassas-Roanoke, Virginia. (Sparks; McDonald list)				
1261.		June 16, 1959. SE of Meridian, Mississippi. (Sparks; McDonald list)				
1262.		June 18, 1959. Pacific bet. Hawaii and Calif. (at 33° 5' N, 134° W). (Sparks; McDonald list)				
1263.		June 18, 1959. Forest Park, Illinois. (Sparks; McDonald list)				
1264.		June 18, 1959. Stephenson-Sault Ste. Marie, Mich. (Sparks; McDonald list)				
1265.		June 18, 1959. Enon, Ohio. (Sparks; McDonald list)				
1266.		June 18, 1959. Lyons, Colo. (Sparks; McDonald list)				
1267.	6400	June 18, 1959. Edmonton, Alberta, Canada. 9:30 p.m. A. Cavelli and R. Blessin, using 7x binoculars, saw a brown, cigar-shaped object come from below the horizon (close to the witnesses) ascending to 40°-50° above the horizon. (Sparks; Berliner)	4 mins	2		binoculars
1268.		June 22, 1959. South China Sea S of Macao, China (at 21° N, 113°12' E). 6:23 a.m. ELINT operator 4 aboard RB-66C recon mission detected “strange” pulsed signals on ELINT APS-63 (and APR-5) and called attention to the location about 1 o’clock position 60 NM away, based on 6 ELINT “cuts” (direction-finder or D-F bearings that intersected) triangulated as coming from a 3-beam [or 3-lobed] radar signal. At 6:46 [6:40?] a.m. USAF pilot Maj. Noble J. McSwain, Operations Ofcr of 11th Tactical	ca. 64 mins (radar signals); 6 mins (visual)	3+	1/3 to 2/3	UFO emitting radio/radar signal on ELINT with D-F triangulation; ELINT scope

		Recon Squadron, Yosuka AB, Japan, and gunner of RB-66C (serial no. 55-389; mission FJ-056 of 67th Tactical Recon Wing) at 34,000 ft initially headed 035° then turned to 127° [to intercept UFO's? at about 6:32 a.m.], at 430 kts TAS, saw 4 pairs dark round or spherical objects of uniform size (total of 8), spaced over 50-miles area and 15 NM between each pair, aligned parallel to the aircraft flight path, each pair about 600-900 ft apart and in echelon formation, heading 215° (about SW) at about 15 kts (17 mph) [?] and appearing to be 200-500 ft above water surface, casting shadows on the water roughly 3 object diameters from objects [sun at about 12° to 14° elevation, azimuth 69° to 70°, from 6:46 to 6:52 a.m. contrary to mistaken BB calculation of 6° elevation] indicating objects were airborne. Objects about 100-200 ft diameter looking like an EW (electronic warfare) or a ground radar radome. One pair of UFO's moved together as RB-66 approached. Round shape did not change when RB-66 passed directly over objects. A single surface ship was sighted approx. 3-5 NM off each end of line of objects. ELINT continued to detect the same weak radar signals at same intensity for 250 NM (about 35 mins) after visual sighting ended. Roll of KD-2 negative film showing ELINT scopes, included frame 8180 at 7:45:02 [6:45:02?] a.m. which showed the radar signal emanating from area of objects (contrary to Pacific AF which claimed radar was commercial radar unconnected to UFO's). BB suggested preposterous explanations of "submarine" objects, fishing boats, or "giant manta rays" (!!) disregarding sun shadow evidence objects were airborne. (Sparks; USAF Air Intelligence Report 1264291 dated 13 July 1959). (Sparks; NICAP files; Project 1947; McDonald list; Ballester-Olmos)				photos
1269.		June 25, 1959. S of Taegu, Korea. (Sparks; McDonald list)				
1270.		June 26, 1959. Boianai Mission, Papua New Guinea (10.02° S, 149.71° E). 6:45-7:20, 8:28-9:10, 9:20-9:30, 9:46-10:10, 10:30-10:50 p.m. Father William Gill plus 38 others. Platform shaped object with "men" on top appeared in the sky above Venus (which was to the W at 297° azimuth, 32° elevation initially, but set before 9:06 p.m. below the mountains), with electric blue spotlight, about 500 ft away at 300-400 ft height (object shined light on broken cloud cover at 2,000 ft altitude known from nearby mountains). Men and spotlight disappear at 7:20 and object disappears into clouds, reappears at 8:28 without "men" or spotlight but joined by 2rd, 3rd and 4th objects at 8:29, 8:35 and 8:35-50, coming and going through clouds. Main "mother ship" "large, clear, stationary," gives red light and disappears overhead into cloud at 9:10, reappears at 9:20, moves across sea to Giwa [to the NE?] appearing white-red-blue disappears at 9:30. Overhead objects reappears 9:46, hovering, disappears behind cloud 10:10, reappears in gap between clouds 10:30, gone at 10:50. [Further sightings June 27 and 28, 1959]. (Sparks; Hynek UFO Rpt pp. 216-223, etc.)	2 hrs 11 mins	39	5	
1271.		June 27, 1959. Dunville, Virginia. (Sparks; McDonald				

		list)				
1272.		June 27, 1959. Boianai Mission, Papua New Guinea (10.02° S, 149.71° E). 6:02-6:30 p.m. Object returned from previous night with 2 others, one to the W and one overhead. Father William Gill and another waved their arms and "men" on the main object waved back; to the waving of a torch the object moved back-and-forth laterally. [Other sightings June 26 and 28, 1959.] (Sparks; Hynek UFO Rpt pp. 216-223, etc.)	28 mins	many ?	20 ?	
1273.		June 28, 1959. Boianai Mission, Papua New Guinea (10.02° S, 149.71° E). 6:45-11 p.m. Father William Gill [and others?] saw up to 8 lights at varying heights. [Prior sightings June 26 and 27, 1959.] (Sparks; Hynek UFO Rpt pp. 216-223, etc.)	4 hrs 15 mins			
1274.	6409	June 30, 1959. Patuxent River NAS, Maryland. 8:23 p.m. USN Cdr. D. Connolly saw a metallic gold, oblate-shaped object, major/minor axis ratio 9:1, with sharp edges, fly straight and level. (Sparks; Berliner)	20-30 secs	1		
1275.		July 3, 1959. Needles, Calif. (Sparks; McDonald list)				
1276.		July 4, 1959. South China Sea S of Macao, China (at 20°38' N, 112°35' E). 7:43 a.m. USAF pilot and gunner of RB-66 saw a group of 18 cream-colored oval objects flying at 36,000 ft. (Sparks; Project 1947; BB files??)		2?		
1277.		July 5, 1959. South China Sea S of Macao, China (at 20°38' N, 112°35' E). 7:18 a.m. USAF pilot and gunner of RB-66 saw 5 oval objects flying at 36,000 ft. (Sparks; Project 1947; BB files??)		2?		
1278.		July 9, 1959. Bahamas. (Sparks; McDonald list)				
1279.		July 11, 1959. N Pacific, 800 n.mi. from Hawaii. 6:02 a.m. Pan Am Boeing Stratocruiser pilot and crew saw a big bright light followed by 3-4 smaller lights. (Sparks; Project 1947; McDonald list)				
1280.		July 14, 1959. New Delhi, India. (Sparks; McDonald list)				
1281.	6446	July 25, 1959. Irondequoit, New York. 1 p.m. Technical illustrator W. D. Neva saw a thin, crescent moon-shaped object, with a small white dome in the center, fly at tremendous speed. (Sparks; Berliner)	5-10 secs	1		
1282.		July 28, 1959. Corpus Christi, Texas. (Sparks; McDonald list)				
1283.		July 28, 1959. E of Florida. (Sparks; McDonald list)				
1284.		Aug. 2, 1959. Washington, D.C. (Sparks; McDonald list)				
1285.		Aug. 3, 1959. Silver Springs, Maryland. (Sparks; McDonald list)				
1286.	6462	Aug. 10, 1959. Goose AFB, Labrador, Canada. 1:28 a.m. RCAF pilot Flt. Lt. M. S. Mowat, on ground, saw a large star-like light cross 53° of sky. (Sparks; Berliner)	25 mins	1		
1287.		Aug. 13, 1959. Bet. Roswell and Corona, New Mexico (at 33°52' N, 105° 6' W). Jack H. Goldsberry, former USN PBY, flying Cessna 170 from Hobbs to Albuquerque, N.M., at 8,000 feet, noticed halfway between Roswell and Corona, that his Magnesyn electric compass suddenly moved around a slow 360° rotation in about 4-5 secs, and his other standard magnetic compass was spinning wildly. About this time, he saw 3 small gray slightly fuzzy		1	4	EM

		elliptical objects in close echelon formation passing in front from left to right and around his plane at a distance about 450 to 600 ft and a speed of about 200 mph. Magnesyn compass followed the objects' position as they circled the plane, and after one full circle they disappeared to the rear, then both compasses settled back to normal. CAA controller at Albuquerque canceled his flight plan and ordered him to land at Kirtland AFB, where he was interrogated by a USAF major. (Sparks; NARCAP-NICAP-McDonald; BB files??)				
1288.		Aug. 14, 1959. NE of Hawaii (at 37° N, 142°45' W). 7:53 p.m. (AHDT). Military pilot saw a very bright white light change color to red as it moved into [?] the sunlight. (Sparks; Project 1947)		1		
1289.		Aug. 16, 1959. Macon and Forsyth, Georgia. (Sparks; McDonald list)				
1290.		Aug. 19, 1959. 80 miles E of U.S. [?]. (Sparks; McDonald list)				
1291.		Aug. 19, 1959. Elburn, Illinois. 9:30 p.m. (CDT). Airline pilot saw a string of 3-4 white lights seemingly part of one object. (Sparks; Project 1947)		1		
1292.		Aug. 28, 1959. Charlotte Island, Canada. (Sparks; McDonald list)				
1293.		Sept. 5, 1959. Naha, Okinawa. (Sparks; McDonald list)				
1294.		Sept. 7, 1959. Wallingford, Kentucky. Walter Ogden. 15-ft burned mark left by object on takeoff. (Sparks; McDonald list; Loren Gross 1959 SUPP)				
1295.		Sept. 10, 1959. Camp Kinser, Okinawa. (Sparks; McDonald list)				
1296.	6506	Sept. 13, 1959. Gills Rock, Wisc. 1:05 a.m. R. H. Daubner saw a round yellow light, with 8 blue lights within it, and 5 larger red lights, fly very fast vertically while making a pulsating jet noise. (Sparks; Berliner)	10 mins			
1297.	6507	Sept. 13, 1959. Bunker Hill AFB, Indiana. 4 p.m. At least 2 control tower operators and the pilot of a Mooney private airplane saw a nearly motionless white, cream and metallic pear-shaped object, with a trail under it. Attempted intercept by USAF T-33 jet trainer failed. Ground radar tracking [?]. (Sparks; Berliner; Project 1947)	3 hrs	3+		radar
1298.		Sept. 15, 1959. Kadena AFB, Okinawa. 7 a.m.-1 p.m. 3 USAF personnel radar tracked multiple green objects, and sighted 4-5 mins a silvery object tilted downwards visible only when lit by a rotating beacon light and which moved slowly on a straight path in the direction of the winds. (Sparks; CUFOS re-eval.; Jan Aldrich)	6 hrs ?	3		RV
1299.		Sept. 24, 1959. Near Redmond, Oregon. About 4:00 a.m. (PST). Redmond Police officer Robert Dickerson saw a strange bright light [white ball-shaped?] rapidly descending [10 miles?] north of the airport then stopped and hovered several hundred [200?] feet above ground for several mins where it lit up the juniper trees below. He drove toward it on the Prineville Hwy then turned toward the airport, when the object turned orange [reddish-orange?] and moved rapidly to [dive and hover?] about 10	> 2 hrs 15 mins	many		RV multiple air and ground radars ?

		<p>miles NE of the airport at about 3,000 ft height above ground [Redmond is at 3,000 ft elevation MSL]. Dickerson arrived at the airport to report sighting in person at ca. 4:10 a.m. at Redmond FAA Air Traffic Communication Station. FAA Flight Service Specialist Laverne Wertz, Dickerson (and others?) viewed object through 7x50 binoculars outdoors. FAA Redmond station (Wertz) reported UFO to FAA Seattle Air Route Control Center at ca. 4:30 a.m., after the UFO "relocated" to 10 mi NE of airport. ARTC in turn reported it to 28th Air Division ADC, Hamilton AFB, Calif., at 4:32 and 25th Air Division ADC, McChord AFB, Seattle, at 4:44 a.m. Mt Hebo AFS radar site, Keno AFS radar site and 25th Air Division ADC scrambled various aircraft over the next 9 hours, including vectoring a B-47, scrambling 6 F-102 jets and an F-89 jet from Portland, and 2 helicopters to intercept UFO or locate it on the ground at Newberry Volcanic Crater. FAA station observers saw object hover and emit long tongues of red, yellow and green light which extended and retracted at irregular intervals. As F-102's approached the object from the SE [?] at 5:19 a.m. it turned into mushroom shape, emitted red and yellow flames from lower side and ascended rapidly, disappearing in 2 to 3-1/2 mins above scattered clouds at about 14,000 ft [altitude? height?]. [Object's departure forced one F-102 to swerve to avoid collision, another nearly lost control from UFO's turbulent wake; tracked on F-102 airborne radars but jets unable to intercept.] Object reappeared about 20 miles S of Redmond at about 25,000 ft at about 5:25 am. Seattle Center reported at 6:20 a.m. radar contact with object about 25 miles S of Redmond at 52,000 ft was made by USAF ADC radar site at Keno AFS, near Klamath Falls, Ore., which tracked a large 300-400 ft [?] target and vectored B-47 and F-89 aircraft to identify. Redmond FAA controllers lost sight of object. Seattle FAA reported at 7:11 a.m. that Klamath Falls radar still tracked object at 25 miles S of Redmond but varying altitude from 6,000 to 52,000 ft. (Sparks; Fran Ridge/NICAP)</p>				
1300.	6534	Oct. 1 [or 3rd or 4th week?], 1959. Telephone Ridge, Oregon. 9:15 p.m. Department store manager C. A. Cissman saw a bright light approach, hover about 30 mins, then take off and disappear in 2 secs. (Sparks; Berliner)	30 mins	1		
1301.		Oct. 2, 1959. 12:40 a.m. (PST). Seattle, Wash. Army artillery radar site radar-visual. (Sparks; McDonald list)	3 hrs			RV?
1302.	6538	Oct. 4, 1959. Quezon, Philippines. 9:25 p.m. USN Lt. C. H. Pogson and CPO K. J. Moore saw a large round or oval object, changing from red to red-orange, fly straight and level. (Sparks; Berliner)	15 mins	2		
1303.	6543	Oct. 6, 1959. Lincoln, Nebraska. 8:15 p.m. Selective Service Lt. Col. L. Liggett and wife saw a round, white-yellow light make several abrupt turns at high speed. (Sparks; Berliner)	2 mins	2		
1304.		Oct. 12, 1959. Washington, Georgia. (Sparks; McDonald list)				
1305.		Oct. 19, 1959. N of Langley AFB, Virginia. (Sparks;				

		McDonald list)				
1306.	6563	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)	30 secs	1		USAF Academy Engr Prof
1307.		Oct. 21, 1959. Warsaw, New York. (Sparks; McDonald list)				
1308.		Oct. 22-23, 1959. Near Loring AFB, Maine. (Sparks; McDonald list)				
1309.		Oct. 26, 1959. Toccoa, Georgia. (Sparks; McDonald list)				
1310.		Nov. 3, 1959. Utica, New York. 6:55 p.m. (EST). USAF pilot of T-33 with 4039th Strategic Wing saw a round a stationary round yellow-white object move away, disappear, then reappear. (Sparks; Project 1947)		1?		
1311.		Nov. 5, 1959. Montauk AFS, Long Island, New York. (Sparks; McDonald list)				
1312.	6600	Nov. 18, 1959. S of Crystal Springs, Mississippi. 6:25 p.m. J. M. Porter saw a row of red lights fly slow, then accelerate immensely. (Sparks; Berliner)	5-6 mins	1		
1313.		Dec. 18, 1959. S Victoria Island, Canada. (Sparks; McDonald list)				
1314.		Dec. 23, 1959. W of Albuquerque, New Mexico. (Sparks; McDonald list)				
1315.	6663	Feb. 27, 1960. Griffiss AFB, Rome, New York (at 43.23° N, 75.41° W). 6:27 p.m. (EST). Control tower officer Capt. James Huey and 4 other tower operators saw a light trailing a white fan shape move from azimuth 170° elevation 20°, pass in front of [or near?] the star Sirius [at 151° azimuth, 25° elevation], disappear at azimuth 130° [typo correction of 180°] elevation 19°, elevation angles from clinometer readings after sighting. Probable NASA Echo balloon satellite non-orbital test launch from Wallops Island, Virginia, at 6:20 p.m. (EST). (Sparks; Berliner; Printy)	3-4 mins	5+		
1316.	6667	March 4, 1960. 3 mi S of Dubuque, Iowa (at 42°26' N, 90°42' W). 5:55 [5:57?] p.m. (CST). Pilot instructor Charles R. Morris and wife saw 3 elliptical-shaped objects, about 200 ft long x 60 ft wide about 5 miles away at 25° elevation, at about 20,000 ft, in the SE headed NNE at about 200 mph, making a slight climb as they disappeared in the NE after covering about 135° of arc in the sky. 19 ft of 8 mm color film exposed during sighting showed no images of the objects. [SAC records showed flight of 3 B-52's at 31,000 to 32,000 ft passed about 30 miles E of Dubuque heading 001° True 370 knots (mph?) ground speed about 5:50 p.m. CST. ADC radars and Chicago ADC Air Defense Sector Hq had no records of flight.] (Sparks; Berliner; UFO Evidence; NICAP UFO Investigator March 1960; BB file on Fold3)	4 mins	6	1/8	
1317.	6691	March 23, 1960. Indianapolis, Indiana. 3:35 a.m. Mr. and Mrs. E. I. Larsen saw a series of balls, arranged like an "X" with one diagonal line. Note: Little data on the case in the files. (Sparks; Berliner)	3/4 min	2		
1318.	6711	April 12 [18?], 1960. La Camp (Lacamp), Louisiana. 9	2-3 secs	1		physical

		p.m. Physical scientist Monroe Arnold saw a fiery-red disc from the S touch the ground about 1,000 ft away with a loud explosion heard by many people, and a flame. It bounced in an E direction for about 1,000 ft then rose again, turned W and disappeared. The ground was scarred in 9 places, and a substance resembling metallic paint was found, analysis inconclusive. (Sparks; Berliner; cf. Vallée Magonia 503)	?			scientist
1319.	6721	April 17, 1960. Richards Gebaur AFB (38.8° N, 94.6 W), ~20 mi S of Kansas City, Missouri. 8:29 to 8:31.5 p.m. (CST). USAF Major Jim G. Ford and A. Chapdelaine, Field Rep of LINK, while observing M-42 Great Orion Nebula [at about 15° elevation azimuth 250°] noticed a reddish glowing object with unaided eye and then in a 6-inch Newtonian reflector telescope (1-inch eyepiece 48x magnification), first seen N of Orion's Belt at about 30° elevation [about 250° azimuth or roughly WSW] traveling SW [to the left] at about 2°/min angular velocity, then passed about 1° below Sirius [at 19° elevation 229° azimuth about SW] accelerating to about 1°/sec at last sighting as it then disappeared below horizon [in the SSW?], with no apparent change in size, color or magnitude brightness. Estimated angular size about 5 arcsecs [equivalent of 4 arcmins in 48x telescope]. (Time incorrectly reported by witness as 1429 GMT ./ 8:29 <i>a.m.</i> CST but was apparently 8:29 <i>p.m.</i> CST and also incorrectly converted to GMT. Should be 0229 GMT next day as BB correctly noted on Record Card.) (Sparks; Berliner; CUFOS)	2.5 mins	2	½ (equiv. in 48x telescope)	6-inch reflector telescope
1320.	6727	April 25, 1960. Shelby, Montana. 7-10 p.m. Mrs. M. Clark saw 5 circular objects fly in trail formation, hover, accelerate and make sharp turns. Case file includes other reports from Mrs. Clark for previous 3 years. (Sparks; Berliner)	3 hrs	1		photo movie film ?
1321.		May 7, 1960. Canada, Montana, North Dakota. (Sparks; McDonald list)				
1322.		May 19, 1960. Dillingham, Alaska. Silver-colored round object 20-25 ft wide with hanging appendages hovered at 50-100 ft distance at 12 ft altitude, sucked up trash cans and grass, carried them about 300 ft then dropped them. (Sparks; Hynek UFO Rpt pp. 146-9)		several	40	
1323.		June 4, 1960. Pacific Ocean. (Sparks; McDonald list)				
1324.		July 14, 1960. 2 miles E of Miho AFB, Japan. 1:03 a.m. Military aircraft pilot saw a brilliant pale yellow oblong object with a short trail flying at about 10,000 mph. (Sparks; Project 1947)		1		
1325.	6858	July 19, 1960. St. Louis, Missouri. 8:30 p.m. T. L. Ochs saw a round, bright red light fly overhead, stop and hover, and then back up. Ochs reported similar sightings on 3 following nights [July 20 and 21 plus ?].	20 mins	multiple?		
1326.		Aug. 13-14, 1960. Red Bluff, Calif. 11:50 p.m.-2:05 a.m. Officers Charles A. Carson and Stanley B. Scott plus 3 others observe maneuvering silent red light with 5 white lights to the E descending to 100-200 ft height, reversed course, lifted to 500 ft, hovered, swept ground with red	2 hrs 15 mins	5+	6 ?	RV

		beam, aerial gymnastics, then headed E chased by police car, joined by similar object from S, disappearing in the E. (Sparks; Hynek UFO Rpt pp. 92-94)				
1327.	6914	Aug. 23, 1960. Wichita, Kansas. 3:24 a.m. Boeing aeronautical engineer C. A. Komiske saw a dull-orange round object, with yellow lights coming from what looked like 3 triangular windows at bottom, flying in an arc. (Sparks; Berliner)	2 mins	1		Boeing aeronautical engr
1328.	6929	Aug. 29, 1960. Crete, Illinois. 4:05 p.m. Farmer Ed Schneeweis saw a shiny, round, silver object fly straight up at high speed. (Sparks; Berliner)	18 secs	1		
1329.	6962	Sept. 10, 1960. Ridgecrest, Calif. 9:50 p.m. Mr. and Mrs. M. G. Evans saw 2 light gray glowing objects, saucer or boomerang-shaped, which swished when accelerating [in 2 sightings?]. (Sparks; Berliner)	2 x 1-2 secs	2		film
1330.		Sept. 17, 1960. Kirksville AFS, Missouri. (Sparks; McDonald list)				
1331.		Sept. 19, 1960. Susanville, Calif. (Sparks; McDonald list)				
1332.		Sept. 20, 1960. Kirksville AFS, Missouri. (Sparks; McDonald list)				
1333.		Sept. 20, 1960. SE of Farmington, New Mexico. (Sparks; McDonald list)				
1334.		Sept. 25, 1960. Midway Isles. (Sparks; McDonald list)				
1335.		Sept. 28, 1960. Kirksville, Missouri. (Sparks; McDonald list)				
1336.	7057	Oct. 5, 1960. Mount Kisco, New York. 7:37 p.m. E. G. Crossland saw a bright, star-like light move across 120° of sky. (Sparks; Berliner)	20 secs	1		
1337.		Nov. 15, 1960. 30 miles from Cressy, Tasmania. 10:40 p.m. USAF pilot and navigator of RB-57 saw a spherical 75 ft object flying at great speed at 36,000 ft. (Sparks; Project 1947; BB files??)		2?		
1338.	7133	Nov. 27, 1960. Chula Vista, Calif. 7:30 p.m. Mr. and Mrs. L. M. Hart and 5 others saw an orange-red point of light, with white sparkler-like light moving in and out of it, make huge circles, seen to the S and to N, overhead, then stopped. 3 witnesses had separate binoculars. (Sparks; Hynek UFO Rpt pp. 78-80)	20-30 mins	7		3 binoculars
1339.	7134	Nov. 29, 1960. S of Kyushu, Japan. 6:38 p.m. USAF Lt. Col. R. L. Blwlin [sp?] and Maj. F. B. Brown, flying a T-33 jet trainer, saw a white light slow and parallel the course of the T-33. (Sparks; Berliner)	10 mins	2		
1340.		Jan. 10, 1961. Atlantic bet. Cuba and Haiti (at 19°48' N, 73°40' W). (Sparks; McDonald list)				
1341.		Jan. 10, 1961. Wichita Falls, Kansas. (Sparks; McDonald list)				
1342.		Feb. 16, 1961. Atlantic N of Bermuda (at 36°35' N, 67°45' W). (Sparks; McDonald list)				
1343.		Feb. 23, 1961. Misawa AFB, Japan. (Sparks; McDonald list)				
1344.		Feb. 26, 1961. Tyndall AFB, Florida. (Sparks; McDonald list)				
1345.		Feb. 27, 1961. Yuma, Ariz. (Sparks; McDonald list)				
1346.		Feb. 27, 1961. Herndon, Virginia. (Sparks; McDonald list)				

		list)				
1347.	7284	Feb. 27, 1961. Bark River, Mich. 10:15 p.m. Mrs. LaPalm saw a fiery-red, round object, preceded by light rays, slowing and descending, while her dog howled. (Sparks; Berliner)	10 mins	1		
1348.		Feb. 28, 1961. Waverly AFB, Iowa. (Sparks; McDonald list)				
1349.		March 3, 1961. Ephrata, Wash. (Sparks; McDonald list)				
1350.		March 10, 1961. RAF Upper Heyford, England, UK. (Sparks; McDonald list)				
1351.	7321	Spring 1961. Kemah, Texas. Case missing. (Sparks; Berliner)				
1352.		March 22 [23-29?], 1961. Ft. Pierce, Florida. 9:45 p.m. Beechcraft pilot and passenger saw an intense bright light rise from 8,000 to 20,000 ft and accelerate. (Sparks; McDonald list; cf. Project 1947)		2		
1353.		April 11, 1961. Cape Canaveral, Florida. (Sparks; McDonald list)				
1354.		April 14, 1961. Far East. (Sparks; McDonald list)				
1355.		April 18, 1961. Eagle River, Wisc. 11 a.m. Joe Simonton heard a whining sound and saw an object, 30 ft in diameter, 12 ft high, with exhaust pipes around the periphery, land near his house. A door opened and a man appeared, about 5 ft tall, wearing a black, turtle-neck pullover with a white band at the belt, and black trousers with a vertical white band along the side. Two other [?] figures were visible inside. Simonton filled a jug with water, returned it to the man, who gave him three ordinary pancakes, and the object took off. (Sparks; Vallée Magonia 517)				
1356.		April 20, 1961. Hanna City AFS, Illinois. (Sparks; McDonald list)				
1357.	7359	April 24, 1961. 200 miles SW of San Francisco, Calif. (35°50' N, 125°40' W). 3:34 a.m. (PST). 551st AEW&C Sq aircraft commander Capt. H. J. Savoy and navigator 1st Lt. M. W. Rand, on USAF RC-121D radar patrol plane at 11,000 ft saw reddish-white round object or light, similar to satellite or aircraft, angular size of pinhead at arm's length, moving W to E, tracked through sextant from 29°55' elevation 140° azimuth (SE) disappearing at the horizon at 50° (or 60° text barely legible) azimuth. No sound, no trail, weather clear, check for Echo satellite negative. (Sparks; Berliner; Jan Aldrich-NICAP; AFRHA index for 551st AEW&C Sq History)	8 mins	2	1/6	sextant
1358.		May 19, 1961. About 7 miles W of Bay Minette, Alabama (at 30°52' N, 87° 53' W). 10:18 a.m. Man checking mast of a ship saw an oval aluminum or silver-like object with tapered edges reflecting sunlight to the NNE at 20° azimuth 60° elevation traveling to SSW at 200° azimuth 60° elevation, no sound or trail. (Sparks; Hynek-CUFOS-Willy Smith files)	30 secs	1	20 ?	
1359.		May 20, 1961. Maxwell AFB, Alabama. (Sparks; McDonald list)				
1360.		May 20, 1961. Tyndall AFB, Florida. 2:50 a.m. (CST?). USAF fighter and helicopter pilots, and 4756th Air Police	1hr 30-40mins	6+ ?		

		Sq personnel saw a white-orange round object, disappearing when the fighter approached. Air policemen sighted orange or white object in the E moving from azimuth 30° (or 70°) to 130° at elevation angles of about 30° to 40° disappearing at 90° (?). Ground radar tracking of targets in the W unrelated to visual sightings (Venus??) towards the E. Venus was rising in the E at azimuth 83° to 96° in 1hr 40mins, elevation 1° to 26°. (Sparks; Project 1947; NICAP)				
1361.	7417	May 22, 1961. Tyndall AFB, Florida. 4:30 p.m. Mrs. A. J. Jones and Mrs. R. F. Davis saw big silver-dollar disc hover and revolve, then suddenly disappear. (Sparks; Berliner; NICAP)	15 mins	2		
1362.		June 2, 1961. Tampa, Florida. (Sparks; McDonald list)				
1363.	7437	June 2, 1961. Miyako Jima Air Station, Japan. 10:17 p.m. 1st Lt. R. N. Monahan and Hazeltine Electric Co. technical representative D. W. Mattison saw a blue-white light fly erratic course at varying speed, in an arc-like path. (Sparks; Berliner)	5 mins	2		
1364.		June 25, 1961. Pacific Ocean. (Sparks; McDonald list)				
1365.	7491	July 7, 1961. Copemiah, Mich. 11 p.m. Waitress Nannette Hilley saw a large ball fly slow, split into 4 after 45 mins flying close formation, descend, then fly away to the W. (Sparks; Berliner)	1 hr	1		
1366.		July 10, 1961. Golden, Colo. (Sparks; McDonald list)				
1367.	7499	July 11, 1961. Springfield, Ohio. 7:45 p.m. Ex-air navigator G. Scott, wife, and neighbors saw a round, bright light like shiny aluminum, pass overhead. (Sparks; Berliner)	20 mins	4+		
1368.		July 17, 1961. 1 mile N of Bonny Spring Ranch [Bonnie Springs?] near Las Vegas, Nevada. 2 a.m. On U.S. Highway 91 [95?], 2 civilians in a car saw in the rear-view mirror a low-flying object that overtook their car, followed by a rush of cold air. It stopped, circled the vehicle, flew off and was lost to sight behind the mountains, where it may have landed but exhaustive military investigation found no trace. (Sparks; Vallée Magonia 521)		2		
1369.	7510	July 20, 1961. Houston, Texas. 9 a.m. (CDT). Trans-Texas Airlines Capt. A. V. Beather, flying a DC-3, saw 2 very bright white lights fly in trail formation. Ground radar report vague. (Sparks; Berliner)	30 mins	2+ ?		Radar, audio tape
1370.	7579	Aug. 12, 1961. Kansas City, Kansas. 9 p.m. College seniors J. B. Furkenhoff and Tom Phipps saw a very large oval object with a fin extending from one edge to the center, like a sled with lighted car running boards, which hovered at 50 ft altitude for 3-5 mins, then flew straight up and E, disappearing in about 5 secs. (Sparks; Berliner; cf. Vallée Magonia 522)	3-5 mins +	2		
1371.		Sept. 2, 1961. Albuquerque, New Mexico. 4:40-4:50 p.m. (MST). Ziegler saw reflection of sun from a shiny surface moving erratically W to E from about 240° azimuth (about WSW) to 210° when it stopped and emitted several smaller silvery objects about 1/6 the size of the main object, then continued on to about 150° azimuth (about SSE) where it again stopped and emitted several silvery	10 mins	1		

		objects about 1/6 size then moved away and climbed to about elevation 50° until disappearance by fading. (Sparks; Project 1947; McDonald list; Saunders/FUFOR Index)				
1372.		Sept. 7, 1961. Cape Canaveral, Florida. (Hynek UFO Rpt p. 44)				missile tracking scope
1373.		Sept. 19-20, 1961. Indian Head, New Hampshire. 11 p.m.-2 a.m. Barney and Betty Hill saw a lenticular object with a double row of portholes and half-a-dozen dark figures working at control panels inside, when they stopped to investigate a light following their car. They became afraid and drove away. A "beeping sound" enveloped the car, they felt a prickling sensation before losing consciousness. When they came to, they were driving near Ashland. A series of nightmares and medically controlled hypnosis brought back what apparently was the memory of their abduction by the occupants of the object. Pease AFB 1917th AACCS Det. 2 had an unidentified radar contact on Precision Approach Radar at 2:14 a.m. of an unseen or invisible object at 4 miles range aborting a landing on the runway at ½ mile range. (Sparks; Vallée Magonia 524, etc.)	3 hrs ?	2		radar? EM?
1374.		Sept. 27, 1961. Pacific Coast. (Sparks; McDonald list)				
1375.		Sept. 30, 1961. Las Vegas, Nevada. (Sparks; McDonald list)				
1376.		Nov. 7, 1961. Arlington Heights, Illinois. (Sparks; McDonald list)				
1377.	7741	Nov. 21, 1961. Oldtown, Florida. 7:30 p.m. C. Locklear and Helen Hatch saw a round, red-orange object fly straight up and fade. (Sparks; Berliner)	3-4 mins	2		
1378.	7742	Nov. 23, 1961. Sioux City, Iowa. 9:30 p.m. F. Braunger saw a bright red star fly straight and level. (Sparks; Berliner)	15 mins	1		
1379.	7754	Dec. 13, 1961. Washington, D.C. 5:05 p.m. C. F. Muncy, ex-U.S. Navy pilot W. J. Myers, and G. Weber saw a dark diamond-shaped object with a bright tip fly straight and level. (Sparks; Berliner)	1-3 mins	3		
1380.		Jan. 22, 1962. Kirksville, Missouri. (Sparks; McDonald list)				
1381.		Feb. 12, 1962. Winnemucca AFB, Nevada. (Sparks; McDonald list)				
1382.		Feb. 19, 1962. Dauphin Island (at about 30°18' N or farther N initially, 88° 8' W), Alabama. 3 witnesses driving S on the Dauphin Island toll bridge saw a reddish-orange object 1/3 the sun's diameter to the S about 10° elevation, changing shape from round to football or cigar shape then covered with fog. Car stopped for witness to call Dauphin Island AFS radar site, 693rd Radar Sq which coincidentally had 2 USAF airmen driving N on the toll bridge and saw the object to the W, and thus object's location can be approximately triangulated at about 30°16' N, 88° 10' W, distance to civilian observers 2-5 miles depending on how far N when first seen, and actual size at least 30 ft. No radar contact reported. (Sparks; Hynek-	12 mins	5	4/10	triangulation

		CUFOS-Willy Smith files)				
1383.	7818	Feb. 25, 1962. Kotzebue, Alaska. 7:20 p.m. U.S. Army private and 6 anonymous civilians saw red light, trailed 30 secs later by a blue light. (Sparks; Berliner)	5 mins	7		
1384.	7823	March 1, 1962. Salem, New York. 10:35 p.m. Mrs. L. Doxsey, 66, saw a gold-colored box, 12-14 inches x 3-4 ft fly straight and level across the horizon. (Sparks; Berliner)	3-4 mins	1		
1385.	7840	March 26, 1962. Ramstein AFB, Germany. 1:35 p.m. USAF Capt. J. M. Lowery, from an unspecified aircraft, saw a thin, cylindrical object, 1/3 snout, 2/3 tail fins, fly at an estimated Mach 2.7 (1,800 mph). (Sparks; Berliner)	5-8 secs	1		
1386.	7841	March 26, 1962. Naperville, Illinois. 11:40 p.m. Mrs. D. Wheeler and Claudine Milligan saw 6-8 red balls, arranged in a rectangular formation, become 2 objects with lights by the end of sighting. (Sparks; Berliner)	15 min	2		
1387.	7930	March [May?] 26, 1962. Westfield, Mass. 10:45 p.m. Many unidentified young people saw a large red ball fly or fall down, then rise back up. (Sparks; Berliner)	3-10 min	many		
1388.		April 2, 1962. Goose Bay, Labrador, Canada. (Sparks; McDonald list)				
1389.	7851	April 3-4, 1962. Wurtland, Kentucky. 8:50 p.m. (EST). G. R. Wells and J. Lewis, using 117x telescope spotted a small object changing brightness, giving off smoke but stationary like a comet. Case missing. (Sparks; Berliner)	6 mins	2		telescope
1390.		April 12, 1962. Kunia, Hawaii (at 22° 2' N, 160° 4' W). (Sparks; McDonald list)				
1391.		April 18, 1962. New York to Eureka, Utah, to Nellis AFB, Las Vegas, Nevada. National air defense UFO alert (previous cases on Dec. 6, 1950, Apr. 17, 1952, not in BB files apparently, and Sept. 20, 1957, in BB files). High speed brilliant maneuverable object is tracked by radars and sighted visually across the continent by numerous military and civilian witnesses. (Sparks; Berliner)	hrs	many		RV
1392.		April 28, 1962. Ft. Worth, Texas. Night. Nuclear engineer Ralph Jackson saw egg shaped light crossing the sky brighter than the Echo I satellite. (Sparks; Mary Castner/CUFOS)		1		nuclear engineer; telescope, binoculars
1393.		May 19, 1962. Marksville, Leesville, Colfax, Louisiana. (Sparks; McDonald list)				
1394.		May 24, 1962. Albuquerque, New Mexico. (Sparks; McDonald list)				
1395.	7931	May 27, 1962. Palmer, Alaska. (NARA)		multiple		
1396.		June 7, 1962. Hallett Station, Antarctica. (Sparks; McDonald list)				
1397.	7957	June 21, 1962. Indianapolis, Indiana. 4 a.m. Lt. Col. H. King and tail gunner M/Sgt. Roberts, aboard a B-52 heavy jet bomber, saw 3 bright, star-like lights, first one then 10 secs later 2 more. (Sparks; Berliner)	3 mins	2		
1398.	7968	June 30-July 1, 1962 [?]. Richmond, Virginia. 9 a.m. 13 year old Meadors [?] saw a red, star-like light for unspecified length of time. No further details in files. (Sparks; Berliner)		1?		
1399.	8020	July 19, 1962. Metuchen [Bayhead?], New Jersey. 9:30	7-10	2		

		p.m. C. T. Loftus and H. Wilbert saw 3-5 lights from different parts of the sky dart about the sky with no pattern, brightness increased with speed of motion, complete stops, zigzags, generally straight lines, N course [?]. No trails or sound. (Sparks; Mary Castner/CUFOS)	mins			
1400.	8034	July 29 [30?], 1962. Ocean Springs, Mississippi. 11:20 p.m. Mr. and Mrs. M. O. Barton saw a bright cherry-red, diamond-shaped object fly slow, hover, make fast 1/2 loops. (Sparks; Berliner)	10 mins +	2		
1401.	8064	Aug. 18 [19?], 1962. Bermuda. 5 p.m. Owner M. Sheppard and chief announcer A. Seymour of radio station saw 3 dull-white, egg-shaped objects waver as they moved. (Sparks; Berliner)	20 mins	2		
1402.		Sept. 15, 1962. Oradell, New Jersey. 5, 6, 7:50 p.m. 2 bright disks seen at 5 p.m., again at 6 p.m., at the state line. 2 witnesses saw one round object with a fin on top and another under it at 7:50, heading down toward Oradell reservoir. 3 young men saw and heard the object touch the water. Another witness called police. Bright luminous object surrounded with a glow, apparent size of a small plane 1/2 mile away, took off a few minutes later to the S. (Sparks; Vallée Magonia 547)	few mins ?	6+	1/10 ?	
1403.	8133	Sept. 21, 1962. WSW of Biloxi, Mississippi, in Gulf of Mexico. 7:37-7:50 p.m. Fishing boat captain S. A. [Danny?] Guthrie and deck hand saw 2 objects, red and black with orange streaks, one as big as the Moon, and the other smaller and trailing [?], arcing across the sky. (Sparks; Mary Cadtnr/CUFOS; Berliner)	13 mins	2	1	binoculars
1404.	8182	Oct. 23, 1962. Farmington, Utah. 3 p.m. R. O. Christensen saw a grey and silver ball, trailing what looked like twine with two knots in it, swerve, and climb away at a 45° angle, making a sound like a flock of ducks (rushing air). (Sparks; "Duck Hunter Case") (Berliner)	20 secs	1		
1405.	8215	Nov. 17, 1962. Tampa, Florida. 9 p.m. F. L. Swindale, college graduate and ex-USMC Capt., saw bright star-like lights approach, hover and bounce, then fade. (Sparks; Berliner)	11-15 mins	1?		
1406.		Jan. 5, 1963. Nantucket Point, Long Island, New York. 3 a.m. (Sparks; Hynek UFO Rpt p. 45-46)	1 hr	2	16	
1407.		Jan. 28, 1963. Shilton, U.K. 5:20 p.m. Mary Sharp and Mrs. E. L. Sharp saw an object on the ground with 4 windows, emitting yellow-orange light, departed toward Rugby. (Sparks; Vallée Magonia 559)		2		
1408.		Jan. 28, 1963. Mamina, Chile. Nighttime. Former Chilean Air Force officer, driving a truck, saw 2 disk-shaped objects follow him. (Sparks; Vallée Magonia 560)	10 mins +	1		
1409.		Feb. 5, 1963 (approx.). Ascension, Paraguay. Student, Anastasio Lenven, saw an object land on the school grounds. A separate sighting by several residents, including an official of the Ministry of the Interior, was of an object flying at very high speed over Ascension. (Sparks; Vallée Magonia 562)		1 + several		
1410.	8277	Feb. 8, 1963. About 5 miles S of Maysville, Kentucky (at 38°32.5'-38°35' N, 83°47.5' W, 720 ft elevation ASL). 9:50 p.m. Mr. Pyles and 4 other witnesses saw a hovering	30 secs	5	15?	

		saucer-shaped object about 200 ft away about 100 ft altitude (or 240 ft?) over a nearby field. Object was >30 ft across with 2 blue and 2 red lights equally spaced on periphery. Object tilted vertically then flew away to the W disappearing over low hill horizon about 1/2 mile away at 840 ft ASL after traveling about 1 mile. Sound like an aircraft engine. (Sparks; BB Maxwell Microfilm Roll 1, pp. 1113, 1131; NARA Microfilm Roll 1, p. 284; Loren Gross Jan-Jun 1963, pp. 17, 19)				
1411.		Feb. 15, 1963. Willow Grove, NW of Moe, Victoria, Australia. 7:10 a.m. Charles Brew saw a 25 ft blue and battleship-gray metallic object, 9-10 ft high, arrive from the E, stop at 50 ft altitude over his farmhouse [75-100 ft over a tree and a shed on his property]. Object made a swishing sound, underside spun counter-clockwise slowly about 1 rev/sec, had a bright chrome 5-6 ft long "aerial" or antenna, scoop-like protuberances on the outer rim spaced 1-1.5 ft apart, no light except for pale blue glow of underside, took off faster than a jet to the W at a 45° angle into the cloud deck, after hovering about 5 secs. Animal reactions. Witness developed strong headaches on the approach of the object and all day. (Sparks; Vallée Magonia 563; Project 1947; Bill Chalker)	5 secs +	1	20 ?	
1412.		March 6, 1963. Louisiana, Arkansas, Texas. (Sparks; McDonald list)				
1413.	8360	May 18, 1963. New Plymouth, New Zealand. 10:30 p.m. C. S. Chapman, 15, saw a white, fuzzy, flashing light hover and dart around. (Sparks; Berliner)	4 mins	1		
1414.	8363	May 22, 1963. Pequannock, New Jersey. 10:45 p.m. Myra Jackson saw 4 pink wheels spin or roll very fast from E to W in succession, each about 1 sec. (Sparks; Berliner)	4 x 1 sec	1		
1415.	8388	June 15, 1963. Indian Ocean SW of India [not near Venezuela] (at 14°27' N, 69°57' E [not W]). 8:39 p.m. [not 10:39 a.m.] 3rd Mate R. C. Chamberlin (and Master/Captain R. W. Higgenson?) of S/S Thetis saw in the NW about 325° True about 30° elevation a "luminous disk with no clear outline, with a light filament-like cloud in front no trail behind, traveling at about 1-1/2 times the angular speed of the Echo satellite seen about 9:10 to 9:20 p.m. local time. [NRO POPPY-GRAB ELINT satellite Agena D upper rocket stage launched about ½ orbit earlier, partial failure with possible vent cloud in front?.] (Printy Mar 2013; Sparks; Berliner)	4 mins	2?	nearly 1	
1416.	8371	Summer 1963. Middletown, New York. 9:30 or 10 p.m. Grace Dutcher saw 8-10 lights move at random, then in an oval formation, then singly. (Sparks; Berliner)	1 min	1		
1417.	8434	July 1, 1963. Glen Ellyn, Illinois. 8 p.m. R. B. Stiles, II, using a theodolite, saw a light, the size of a match head at arm's length, flash and move around the sky. (Sparks; Berliner)	1.5 hrs	1	1/2	theodolite
1418.		Aug. 4-5, 1963. Near Mt. Vernon (or Keenes) to Wayne City, Illinois. 11:30 p.m. – 12:20 a.m. (EDT). Ronnie Austin and Phyllis Bruce while driving E noticed a bright white round object to the SW about 20° elevation then S	50 mins	6	16 ?	EM, radioactivity?

		then N which followed them for several miles. When Austin dropped off Phyllis at home it was to the E about 500 ft away and her sister Forestine also saw the object with them. After about 15 mins Austin attempted to leave for home but the object followed him, at one point as he headed E it came over his car at about 100 ft, changed color to orange and appeared car sized, hovered above the car while the car radio had whining noise static and car engine almost failed, then made a pass from behind W to E. On arriving home object was about 900 ft to the SE or E and other family members also saw it, Mr. and Mrs. Orville Austin, sister Roxie and a brother. (Sparks; NICAP)				
1419.		Aug. 7, 1963. 4 miles E of Fairfield, Illinois. 8:45-9:10 p.m. Chauncey Uphoff and Mike Hill heard dogs bark, saw a yellowish-orange diamond shaped noiseless luminous object to the SW about 1,000 ft altitude moving E, joined by a pinpoint white light that went from SE to NW climbing with a possible drumming sound and when near the first object the latter blinked out. When the pinpoint light disappeared to the NW the diamond-shaped object reappeared as dim gray to the SW maneuvering towards them to the S about 45° elevation then SE with a U-turn or loop, appearing on edge with a tail or trail, changing color to orange then brilliant blue-white, disappearing in the SE. Object's angular size much larger than the moon. (Sparks; BB Maxwell Microfilm Roll 1, pp. 1115-6; NICAP)	25 mins	2+	20 ?	
1420.	8506	Aug. 11, 1963. Warrenville, Illinois. 10 p.m. R. M. Boersma saw a light move around the sky. (Sparks; Berliner)	20 secs	1		
1421.	8514	Aug. 13-14, 1963. St. Calen, Switzerland. 8:04 p.m. A. F. Schelling saw a fireball become a dark object after 4 mins, then a bigger glow, 1 min later, finally exploding. Note: same witness had another, undescribed, sighting on Aug. 14. (Sparks; Berliner)	4 mins + ?	1		
1422.		Aug. 20, 1963. Rome, Italy. 9:32 p.m. Fattorini. In the Italian President's forest reserve area near Rome, President's chauffeur driving his official car saw an object like a plate turned upside down, with a central turret, flying low over his vehicle. (Sparks; Vallée Magonia 579; FUFOR/Saunders; Edoardo Russo; Vallée Forbidden Science p. 133)		1?		
1423.	8548	Sept. 14. 1963. Susanville, Calif. 3:15 p.m. E. A. Grant, veteran of 37 years training forest fire lookouts for the U.S. Forest Service, saw a round object intercept a long object then either attach itself to the latter or disappear. (Sparks; Berliner)	10 mins	1		
1424.	8549	Sept. 15, 1963. Vandalia, Ohio. 6 p.m. Mrs. F. E. Roush saw 2 very bright gold objects, one shaped like a "banana" the other like an "ear of corn," one staying stationary, the other moving from W to N. (Sparks; Berliner)	10 mins	1		
1425.	8581	Oct. 4, 1963. Bedford, Ohio. 3:32 p.m. R. E. Carpenter, 15, saw an intense oblong light with tapered ends, surrounded by an aqua haze, flash and flicker while	15 secs	1		

		stationary. (Sparks; Berliner)				
1426.		Oct. 6, 1963. Philadelphia, Penna. Freidman. (Sparks; Mary Castner/CUFOS)				
1427.		Oct. 7, 1963. Lanham, Maryland. Francis. (Sparks; Mary Castner/CUFOS)				
1428.	8603	Oct. 23, 1963. Meridian, Idaho. 8:35 p.m. Several unnamed students, including Gordon, and an adult saw an object shaped like a circle from below and a football from the side, hover low over the observers, making a deep, pulsating, loud, extremely irritating sound, changed course to SW, disappeared behind houses and trees. (Sparks; Mary Castner/CUFOS; Berliner)	6 mins	several		
1429.	8604	Oct. 24, 1963. Cupar Fife, Scotland. No time given. A. McLean, 12, and G. McLean, 8, saw a light move for an unspecified length of time. No further details in files. Note: BB Chief Maj. Quintanilla told the youngsters, in a letter, this was "one of the most complete" of the unexplained cases for the year. (Sparks; Berliner)		2		
1430.		Dec. 6-7, 1963. APO 253, France. (Sparks; McDonald list)				
1431.		Dec. 10, 1963. White Plains, NY. (Sparks; Mary Castner/CUFOS)				
1432.	8647	Dec. 11, 1963. McMinnville, Oregon. 7 a.m. W. W. Dolan, professor of mathematics and astronomy, and dean of the faculty of Linfield College, saw a bright, star-like light hover, slow, dim and flash. (Sparks; Berliner)	1 min	1	point source	Astro / Math Prof
1433.	8654	Dec. 16, 1963. Pacific, 800 miles N of Midway Island (at 40° N, 175°54' W). 5:05 p.m. Crew of military aircraft saw a white light blink 2-3 times per second moving very fast across the sky. (Sparks; Berliner)	15 secs			
1434.	8729	April 3, 1964. 1 mile W of Monticello, Wisc. 9 p.m. R. Wold, graduate student in anthropology, and wife, Rossing and another, saw 4 huge red lights in a rectangular formation, with a white light above, near the ground, tilt and fly away. (Sparks; Vallée Magonia 594; Saunders/FUFOR Index)	3-4 mins	4		
1435.	8739	April 11, 1964. Homer, New York. 6:30 p.m. physiotherapist W. B. Ochsner and wife saw 2 cloud-like objects darken, one shot away and returned. (Sparks; Berliner; cf. Hynek UFO Exp, case DD-2)	30-45 min	2 [3?]		
1436.	8766	April 24, 1964. 1 mile SSW of Socorro, New Mexico (landing site near 34° 2'33" N, 106°53'52" W). 5:45-5:50? p.m. Socorro Police Dept. patrol officer Lonnie Zamora, while chasing a speeder heading S, heard a roaring sound and saw a bluish-orange funnel of flame in the sky to the SW slowly descending possibly 1/2 to 1 mile away, bottom of flame hidden behind a hill. He tried to pursue the flame, turning off to the right on a rough gravel road to the SW, lost sight of flame while trying to get car up steep rough hill. At the top after 10-15 secs of continuing along gravel road he suddenly noticed a shiny whitish-aluminum color landed object about 12-15 ft tall about 800 ft away to the SW down in a gully, at first looking like upturned car but actually appearing oval long-axis vertical on two legs, and for about these 2 secs also	5 mins ?	1+	20	

		saw 2 small-adult-like figures in white coveralls near object, one turning toward him seemingly startled and jumping. He lost sight of object as he drove about 1,000 ft further WSW, radioed headquarters he was investigating possible car accident, then stopped at the top of the ridge about 103 ft from landing site down in the gully to the SE. He got out, heard 2-3 loud thumping noises like a door shut hard, walked 3 steps to the front of the car to possibly 90 ft distance when he heard a very loud roar increasing in volume and saw a smokeless blue-orange flame coming from beneath the oval object, now seeming long-axis horizontal at this angle (about 120° from previous sighting), with a red insignia or lettering in the middle about 2 x 2-1/2 ft, and slowly rising. He thought it was going to explode and ran away, putting car between him and the object, about 25 ft and 6 secs of running from the car he glanced back and saw object had risen about 20-25 ft to level of his car, ran another 25 ft and "ducked down" below edge of ridge. Roaring noise stopped, he looked up and saw object heading to the SW (towards W end of Socorro Municipal Airport 1 mile away) at level height just clearing 8 ft dynamite shack by about 3 ft moving "very fast," no flame or smoke or noise. He ran back to patrol car, radioed headquarters, saw object climbing slowly and "get small" in the distance just clearing Box Canyon or Sixmile Canyon Mtn. (about 6 miles to WSW). Immediate police and military investigation found physical traces, burning brush and indentations in the ground, and several other more distant witnesses. (Sparks; Hynek UFO Rpt pp. 223-9, etc.)				
1437.		April 26, 1964. Las Vegas, Nevada. (Sparks; McDonald list)				
1438.		April 26, 1964. La Madera, New Mexico. (Sparks; McDonald list)				
1439.		April 28, 1964. Minot AFB, N.Dakota. (Sparks; McDonald list)				
1440.		April 30, 1964. Canyon Ferry Reservoir, Montana. 9:30 [10:30?] p.m. Flittner, Harold Rust family children, and Linda Davis, saw egg-shaped object size of an automobile land about 150 [125?] ft away. Left 4 indentations in the ground, 8 x 10 inch rectangles, 4-8 inches deep, about 13 ft apart, and a burned area. (Tony Rullan; Lorenzen 1966, pp. 223-4; Saunders/FUFOR Index)	< 60 secs	6	10-15	
1441.	8787	May 9, 1964. Asheville, North Carolina. Civilian witnesses. (NARA)		multiple		
1442.	8788	May 9, 1964. Chicago, Illinois. 10:20 p.m. J. R. Betz, U.S. District Court reporter, saw 3 light green crescent-shaped objects, about half the apparent size of the moon, flew very fast in tight formation from E to W, oscillating in size and color for 3 secs. (Sparks; Berliner)	3 secs ?	1	1/2	
1443.	8811	May 18, 1964. Mt. Vernon, Virginia. 5:15 p.m. Civil engineer F. Meyers saw a small, glowing white oval split twice after moving from the right of the moon (to the E, half moon phase, 115° azimuth, 48° elevation) around to the left. (Sparks; Berliner)	17 mins	1		civil engineer

1444.		May 24 [26?], 1964. Millinocket, Maine. 9 p.m. Man and a friend driving on Millinocket Lake Road saw a fiery, structureless 2 ft spherical object to the side, stopped, left the car to get a better look. They became afraid, walked back to the car, the sphere followed them. Car would not start while sphere was within 5-10 ft. (Sparks; Vallée Magonia 607)	5 mins	2	20-40 ?	
1445.	8836	May 26, 1964. Cambridge, Mass. 7:43 p.m. P. Wankowicz, RAF pilot and ex-Smithsonian satellite tracker, saw a thin, white ellipsoid (3.5x length/width ratio) fly straight and level. (Sparks; Berliner)	3-4 secs	1		satellite tracker
1446.	8839	May 26, 1964. Pleasantview, Penna. 11 p.m. Rev. H. C. Shaw saw a yellow-orange light, shaped like the bottom of a ball, in a field and chased down the road for 2 miles. (Sparks; Berliner)		1		
1447.	8870	June 13, 1964. Toledo, Ohio. 9:15 p.m. B. L. English, announcer for radio station WTOD, saw 3 glowing white spheres, glowing red on their sides, moving slow, hover then moving in circles very fast, making a low, rumbling sound. (Sparks; Berliner)		1		
1448.		July 10, 1964. Cape Guardian, Missouri; Jackson, Mississippi, Belleville. (Sparks; McDonald list)				
1449.	8924	July 16, 1964. 15 miles S of Houghton Lake, Mich. 11:15 p.m. Northern Air Service pilot K. Jannereth saw 4 white lights in a stepped-up echelon formation, joined by 2 more, closing in on the airplane, then rapidly slow and fly along with it. (Sparks; Berliner)	5 mins	1		
1450.	8942	July 20, 1964. Clinton, Iowa-Littleton, Illinois [?]. 4:45 a.m. J. J. Winkle saw a 60 ft diameter round-topped, flat-bottomed object with a long acetylene-colored flame shooting downward, flying straight and level, make a half loop, then rise up. [Military and civilian witness(es)?? Two different cases?] (Sparks; Berliner)	1 min	1 ?		
1451.		July 24, 1964. Langley AFB, Virginia. (McDonald list)				
1452.	8969	July 27, 1964. Norwich-Sherburne, New York. 7:30 [9?] p.m. Duabert, engineering supervisor [engineer?] stopped his car when he saw an aluminum sphere with a fluorescent luminous ring, stationary 50 ft above ground, which emitted 3 beams of very bright light before flying off at high speed. (Sparks; Vallée Magonia 618)	4-5 mins [6? mins]	1		
1453.	8973	July 27, 1964. Denver, Colo. 8:20 p.m. A. Borsa saw a white ball of fire, the size of a car, climb slowly, then speed up. (Sparks; Berliner)	2-3 mins	1		
1454.		July 28, 1964. Lake Chelan, Wash. 10:30 p.m. Former Navy pilot and another man, at work in a field saw an intense light, cone-shaped, emitted from the ground and a similar light in the sky, alternating which was on and off. A round, aluminum-looking object, about 30 ft in diameter, with one red and one white light, then appeared and descended to ground with a strong whistling sound similar to a small jet, piercing and high-pitched voices similar to those of children playing were heard. Before this object took off a low-flying jet circled its position. The densely wooded area was explored by helicopter and on foot 3-4 days later by Sheriff Nickell and a USAF	40 mins	2		

		officer, but nothing was found. (Sparks; Vallée Magonia 619)				
1455.	9031	Aug. 10, 1964. Wake Island. 5:16 a.m. Aircraft commander Capt. B. C. Jones and navigator 1st Lt. H. J. Cavender, in parked USAF C-124 transport plane, saw a reddish, blinking light approach the runway, stop and make several reverses. (Sparks; Berliner)	2 mins	2		
1456.	9048	Aug. 15, 1964. New York City, New York. 1:20 a.m. S. F. D'Alessandro saw a 10 ft x 5 ft bullet-shaped object with wavy lines on the rounded front part and 6 pipes along the straight rear portion, making a "whishhh" sound. Witness' dog growled. (Sparks; Berliner)		1		
1457.	9049	Aug. 15, 1964. Yosemite National Park, Calif. 8:15 a.m. E. J. Haug, of the San Francisco Orchestra and Conservatory, and C. R. Bubb, high school math teacher, saw 3 bright silver, round objects, in a stack formation, fly very fast, changing positions within the formation, with a sound of rushing air. (Sparks; Berliner)	3-4 secs	2		
1458.	9053	Aug. 18, 1964. Atlantic, ~207 miles ENE of Cod Intersection of NY Oceanic Control Area (air traffic zone) [at about 42.8° N, 64.35° W]. 5:35 to 5:37 a.m.[EST? EDT? GMT?]. USAF Major D. W. Thompson and First Pilot 1st Lt. J. F. Jonke flying a C-124 transport (no. 31007) with the 31st Air Transport Sq, 1607th Air Transport Wing, out of Dover AFB at 9,000 ft and 200 (knots) true airspeed, saw a large round, blurred or diffuse-edged, reddish-white luminous object dead ahead of the C-124 from ahead and about 500 ft below, then appeared at aircraft level on collision course averted when pilot took evasive action by turning from a 260° Mag [=247° True] heading to 340° Mag and object made a right turn and disappeared. (Sparks; Berliner; cf. Hynek UFO Exp ch. 5, case NL-10; NARCAP; CUFOS)	2 mins	4		
1459.		Sept. 5 [4?], 1964. 10 p.m. Near Cisco Grove, Calif. Donald Schrum on a hunting trip became separated from his 2 friends, climbed a tree for the night, saw 3 flying silvery lighted objects [one dome-shaped?] about 1/4 mile away emitting "cooing" noises which dropped 2 objects to the ground with a loud crashing noise on impact. 2 human-like and one robotic being were drawn to his signal fires, Schrum tried to scare them away and shot the robot with arrows, the robot emitted noxious fumes that nauseated him and made him black out [a second robot appeared with similar effects]. Finally the vehicles departed with a noxious vapor emission that made him black out. One of his companions also saw one of the UFO's. (Sparks; Hynek UFO Rpt pp. 210-2; Vallée Magonia 624; NICAP website; etc.)	several hrs	2		
1460.	9104	Sept. 10, 1964. Cedar Grove, New Jersey. 7:09 p.m. Chemist P. H. DePaolo saw 4 white lights, 3-4 [degrees?] apart, to the N, going W. (Sparks; Berliner)	45 secs	1		chemist
1461.		Oct. 25?, 1964. Caribbean. US Navy radar tracking. (Sparks; Tony Rullan)				
1462.	9170	Nov. 14, 1964. Menomonee Falls, Wisc. 9:40 p.m. Dr. G. R. Wagner, MD, and two girls, saw 3 dim, reddish	5-6 secs	3		

		lights fly through 160° arc. (Sparks; Berliner)				
1463.		Nov. 16, 1964. Caribbean. US Navy radar tracking of unidentified object emitting encrypted IFF Mode 1 transponder signals in response to shipboard IFF interrogation. (Sparks; Tony Rullan)				radar IFF
1464.		Nov. 17, 1964. Caribbean. US Navy radar tracking of unidentified object emitting encrypted IFF Mode 1 transponder signals in response to shipboard IFF interrogation. (Sparks; Tony Rullan)				radar IFF
1465.		Nov. 18, 1964. Caribbean. US Navy radar tracking of unidentified object emitting encrypted IFF Mode 1 transponder signals in response to shipboard IFF interrogation. (Sparks; Tony Rullan)				radar IFF
1466.		Nov. 18-19, 1964. S Puerto Rico (near 18°10' N, 66°12'W). USS Gyatt radar tracking of low altitude low speed object. F-8C fighter attempted but failed to intercept object. (Sparks; Saunders index; Tony Rullan)	8 mins	multiple		encrypted IFF signals, radar
1467.	9183	Nov. 19, 1964. 34°55' N 164°05' E (Pacific, about 1,400 miles E of Tokyo). Military personnel saw a bright white flashing light traveling from horizon to horizon. (Sparks; Berliner)	20 secs	multiple		
1468.		Nov. 24, 1964. Caribbean. US Navy radar tracking of unidentified object emitting encrypted IFF Mode 1 transponder signals. (Sparks; Tony Rullan)				radar IFF
1469.		Dec. 4, 1964. Baker, Oregon. (Sparks; McDonald list)				
1470.		Dec. 19, 1964. Patuxent River NAS, Maryland. 3:30 a.m. USN control tower operator Bernard Sujka and 2 other CTO's tracked 2 large target 10 miles apart heading directly toward the radar station at about 7,000 mph, swerving off at 15 miles range, then approaching again to 10 miles, then one target returned to 8 miles range and made a high speed 160° turn. (Sparks; NICAP)		3		radar
1471.		Dec. 21, 1964. Harrisonburg, Virginia. 5 p.m. Mr. Burns and others in the area saw a huge object cross the road, hover at ground level in a field, then take off vertically. (Sparks; Vallée Magonia 628)	< 1 min	1+		
1472.		Jan. 12, 1965. Blaine AFB, Wash. Member of a federal agency, who was driving toward the base, saw a low-flying object, 30 ft in diameter, which avoided collision at the last moment. He got out of the car and saw it hovering for 1 min, then fly off at high speed. Object tracked on radar. Same night, a round, glowing object with a dome on top landed on a nearby farm, melting snow in a 30 ft diameter circle. (Sparks; Vallée Magonia 630; NICAP March 1965; BB files??)	1+ min	1 + ?		RV
1473.	9242	Jan. 23, 1965. Lightfoot, N of Williamsburg, Virginia. 8:40 a.m. Cars stalled near intersection of US Hwy 60 and State Route 614, witness T. F. Mains saw light-bulb or mushroom-shaped object 75-80 ft tall, 10-25 ft wide, metallic gray, red-orange and blue glows, hovering over nearby field about 4 ft off the ground, making a vacuum cleaner-type noise, suddenly accelerate horizontally to the W against the wind and disappear. (Sparks; Berliner; cf. Hynek UFO Rpt pp. 177-8; Vallée Magonia 633)	25 secs	2+		
1474.		Jan. 24-28, 1965. Alaska. (Sparks; McDonald list)				

1475.		March 2, 1965. E of Weeki Wachee, near Brooksville, Florida. 1:55 p.m. John F. Reeves, 65, retired, while walking in the woods saw an bluish-green and reddish-purple object 20-30 ft in diameter, 6 ft thick, saucer-shaped with an outer rim and a stairway, with 2 2-ft windows on top, landed on the ground on 4 4-ft legs about 2,000 ft away. He approached to 100 ft. After watching it for 10 mins [?], he saw a robot-like being about 200-300 ft away, about 5 ft tall, wearing a gray-silver uniform, glass dome headgear, wide-spaced eyes, pointed chin, walking to 15 ft from Reeves, stared at him for 1-1/2 mins, pointing a box [?] or 6-7-inch black object at Reeves that emitted a flash 3 times, then walked back to the landed vehicle and climbed in. Object had Venetian-blind-like blades on the rim that opened and closed, rim started rotating counterclockwise, landing gear retracted, then it took off with a whooshing-rumbling sound and disappeared vertically in < 10 secs, dropping 2 sheets of paper with indecipherable writing, and leaving indentations and footprints in the ground. Investigated by MacDill AFB. (Sparks; Vallée Magonia 638; etc.)	10 mins +	1	20-30 (UFO) 40 (robot)	
1476.	9301	March 4, 1965. Corvallis, Oregon. 9:23 [6:30?] p.m. W. V. Harrison and his employee while driving in a car saw 3 yellow-orange spheres or lights rise rapidly from the ground, several seconds apart. Next day an oily spot was found at the site. (Sparks; Berliner; cf. Vallée Magonia 639)	secs?	2		
1477.	9305	March 8, 1965. Mount Airy, Maryland. 7:40 p.m. J. H. Martin, instrument maker for National Bureau of Standards, and 2 others, saw 6 lights fly overhead slowly [and/or a cigar-shaped object with 2 fixed red lights, fly above them, just missed hitting the house, disappearing to the NE]. (Sparks; Berliner; cf. Vallée Magonia 640)	3 mins	3		
1478.	9345	April 4, 1965. Keesler AFB, Biloxi, Mississippi. 4:05 a.m. USAF A/2c Corum, weather observer, with confirmation by college student R. Pittman not clear from available data. Saw a 40 ft black, oval object with 4 lights along the bottom, fly in and out of the clouds. (Sparks; Berliner)	15 secs	1-2		[radar?]; weather observer
1479.		April 10-14, 1965. Misawa AFB, Japan. (Sparks; McDonald list)				
1480.		April 23, 1965. Rivesville, West Virginia. 8 a.m. Woman saw a 25 ft object land near her house while she was working in the kitchen. Shaped like a disk, with portholes, a cylinder about 3 ft high, a sliding door from which a small being, about 3 ft tall emerged and jumped to the ground. Its face was not clearly visible but it had pointed ears, a sort of tail, was linked to the main object by a cable, wore white clothing, picked up something from the ground, then re-entered the cylinder, which slid up into the larger white disk. Outside rim of landed object started spinning in a counterclockwise motion with a soft whistling sound, it then rose straight up out of sight. (Sparks; Vallée Magonia 644)		1		
1481.		May 6, 1965. Philippine Sea at 20°22' N, 135° 50' E. 9:10 a.m. [GMT? = 6:10? p.m. Local Time?] Crew of USN	10? mins	12		RV

		ship heading W at 265° at 15 knots sighted aircraft at bearing 000° [N?] approaching. At 9:14 the SPS-6C air search radar detected 4 targets at ranges up to 22 miles for the next 6 mins at extremely high speed 3,000 knots (3,500 mph) and various maneuvers, viewed through binoculars appeared as 3 lighted objects one of 1st stellar magnitude the others 2nd magnitude. Objects hovered directly over the ship for 3 mins as confirmed visually and on radar by the Commanding Officer, bridge crew and others on deck. No IFF response, one object to starboard appeared larger on radar. Objects departed to the SE at extremely high speed. (Sparks; Hynek UFO Exp ch. 7, case RV-5)				
1482.	9389	May 7, 1965. Oxford, Mich. 7:30 p.m. M. E. Marshall saw a light, like a satellite, split into 2 parts, one of which was copperish color, then 2 more joined up. One object may have been tumbling. (Sparks; Berliner)	1 min	1		
1483.		June 8-9, 1965. Turkey. (Sparks; McDonald list)				
1484.		June 29, 1965. Frankfurt, West Germany. (Sparks; McDonald list)				
1485.		July 3, 1965. Antarctica. (Sparks; McDonald list)				
1486.		July 6, 1965. Arlington, Texas. (Sparks; McDonald list)				
1487.	9474	July 6, 1965. Kiel, Wisc. 9:30 p.m. Mrs. E. R. Hayner saw a flashing light, like a satellite. No further data in the files. (Sparks; Berliner)	< 1 min	1		
1488.		July 13, 1965. Penna. and Ohio. (Sparks; McDonald list)				
1489.		July 22, 1965. Forbes AFB, Kansas. (Sparks; McDonald list)				
1490.	9550	July 25, 1965. Castalia, Ohio. 9:15 p.m. Amateur astronomer M. D. Harris, 16, saw a bright blue star cross 90° of sky. (Sparks; Berliner)	10-15 secs	1		
1491.		July 31 - Aug. 3, 1965. Oklahoma. (Sparks; McDonald list)				
1492.		Aug. 1, 1965. Ent AFB, Colo. (Sparks; McDonald list)				
1493.		Aug. 1 and 2, 1965. Whiteman AFB, Missouri. (Sparks; McDonald list)				
1494.		Aug. 2, 1965. Justin, Texas. 2 Tarrant County deputy sheriffs saw an object as bright as burning magnesium, land as they patrolled near Wagle Mountain Lake. Extensive investigation by police found no traces. (Sparks; Vallée Magonia 667)		2		
1495.		Aug. 2, 1965. Oklahoma City, Okla. 5 children saw a brilliant, round object without wings, close to the ground, in the 600 block on Northwest 63. (Sparks; Vallée Magonia 668)		5		
1496.		Aug. 3, 1965. Cocoa, Florida. (Sparks; McDonald list)				
1497.		Aug. 3, 1965. Lake Hefner, Okla. Young man saw an object rise from the lake area. (Sparks; Vallée Magonia 669)		1		
1498.		Aug. 4, 1965. Dallas, Texas. 1:30 a.m. Man in a car saw a red and blue light, thought it came from a police car, then was passed by a huge, orange object flying at ground level. (Sparks; Vallée Magonia 672)		1		
1499.		Aug. 4, 1965. Calumet AFS, Mich. (47.371° N, 88.171° W). USAF radar tracking of 10 targets in V-formation traveling from the SW at about 9,000 mph over Lake	10 mins?			radar

		Superior at 5,200 to 17,000 ft (1-3 miles). Other targets other Duluth chased by USAF jets. (Sparks; Todd Lemire; UFOCAT)				
1500.	9675	Aug. 4, 1965. Dallas, Texas. 9:30 p.m. J. A. Carter, 19, saw a light fly fast, straight and level. No further data in files. (Sparks; Berliner)	12 secs	1		
1501.	9680	Aug. 4, 1965. Tinley Park, Illinois. 11:35 p.m. 2 unnamed 14 year-olds saw a light move around the sky. No further data in files. (Sparks; Berliner)	16-17 secs	2		
1502.		Aug. 13, 1965. Baden, Penna. [> 9:30 p.m.?] 37-year-old civilian had just put his car in the garage when he saw an disk-shaped object about 300 ft in diameter, fly in front of the moon (which rose in the E about 9:30 p.m. EDT at 107° azimuth) on a N heading at about 50 mph about 2,300 ft away, surrounded with orange lights that weakened as a blue source came on, very intense for about 3 secs. Then all lights disappeared and a sort of "shock-wave" effect shaking tree leaves ensued. Witness entered his house and called the USAF, 20 mins later his vision became hazy, eyes painful, gradually losing vision in both eyes, and his entire body was "sunburned." Medical exam compared symptoms to UV exposure. Vision came back gradually over several days. (Sparks; Vallée Magonia 677)		1	14	
1503.	9806	Aug. 19, 1965. Cherry Creek, New York. 8:20-9 p.m. (EDT). Mrs. William Butcher, son Harold, 17, and children [3 students?], heard radio interference and beeping sound in a barn, went outside to see 50 ft wide saucer like two plates lip-to-lip [elliptical?], 20 ft thick, shiny silver or chrome color with red glowing streamers [reddish vapor underneath?] and leaving a red-yellow trail, which landed nearby then rapidly ascended into the clouds turning the clouds bright green a few seconds later; burned gasoline odor; farm animals reacted and later reduced milk production. Object returned twice at 8:45 and 9 p.m. finally disappearing to SSW [or SW?]. Radio drowned out by static, a tractor engine stopped. Next day, a purplish liquid, 2 ft x 2 ft marks and patches of singed grass were found at the site by USAF Capt. James Dorsey and 4 technicians from Niagara Falls AFB. (Sparks; Berliner; cf. Hynek UFO Rpt pp. 170-2; Vallée Magonia 675, 684)	20 mins ??	5 ?		EM
1504.		Aug. 20, 1965. Plattsburgh, New York. (Sparks; McDonald list)				
1505.		Aug. 28, 1965. Glasgow AFB, Montana. (Sparks; McDonald list)				
1506.	9864	Aug. 30, 1965. Urbana, Ohio. 10:30 p.m. M. A. Lilly, N. Smith and T. Nastoff, saw a white ball, 5-8 ft in diameter and trailed by a 2-3 ft light, hit the road 100 ft in front of the witnesses' car, then bounce and fly away. (Sparks; Berliner)	3-4 secs	3	6-10	
1507.		Aug. 31, 1965. Nevada. (Sparks; McDonald list)				
1508.	9890	Sept. 3, 1965. 3 miles SW of Exeter, New Hampshire. 1-3 a.m. (EDT). Exeter Patrolmen Eugene Bertrand, Jr. and David Hunt, and Norman Muscarello saw a large silent,	1 hour +	5	18	

		dark, elliptical object with a row of 5 bright red lights oriented about 60° to horizontal, move slowly and erratically around houses and trees at 100 ft height to SE [or 60-70 ft height 100 ft away], lighting up the ground and houses in red light, while lights blinked in sequence; falling leaf motion. Farm animals very noisy. Disappeared at 160° magnetic after covering about 135° arc [from NNE?]. (Sparks; Berliner; cf. Hynek UFO Rpt pp. 154-166; NICAP)				
1509.	9915	Sept. 3, 1965. Damon, Texas. 11 p.m. Brazoria County Chief Sheriff's Deputies Billy McCoy and Robert Goode saw a triangular object, 150-200 ft long, 40-50 ft thick at middle and dark grey, with a long, bright, pulsing, purple [violet?] light on the right side and a long blue light on the left side, approach to 150 ft off highway and 100 ft in the air. Purple light illuminated ground beneath object and interior of police car, and object cast a shadow in moonlight. Driver Goode felt heat on his left arm and an alligator bite on his left index finger, suddenly relieved of pain and later healed rapidly but unnaturally. They drove away in fear but returned later that night to find object still there. (Sparks; Berliner; cf. Vallée Magonia 694)	5-10 mins + ?	2	80	
1510.		Sept. 22, 1965. Clover, Minn. (Sparks; McDonald list)				
1511.	9970	Sept. 25, 1965. Chisholm, Minn. 9:55 a.m. Bett Diamon saw 5 orange lights in a row fly fast and make an abrupt turn. (Sparks; Berliner)	1 min	3		
1512.	9971	Sept. 25, 1965. Rodeo, New Mexico. 10 p.m. Dr. George Walton, physical chemist, and wife, saw 2 round white objects fly side-by-side, at 30-50 ft altitude, pacing the witnesses' car. (Sparks; Berliner)	6 mins	2		physical chemist
1513.		Sept. 26, 1965. Licking County, Ohio. (Sparks; McDonald list)				
1514.		Sept. 29, 1965. Swanlake, New York. (Sparks; McDonald list)				
1515.	10066	Oct. 4, 1965. West Middletown to Poast Town, Ohio. 6:45 p.m. Mrs. Helen Tucker and 3 teenage girls driving in a car turned S onto Brown's Run Road and saw a bright, flashing red and white object, at one point with sparks shooting off. As they drove W to Poast Town, the object stopped flashing and appeared steady red and white (and possibly bluish) and began moving fast (to the SW?) toward the airport, then it landed past Carmody Blvd. on the river bank but before reaching the airport, where it looked like a Christmas tree (lights?), a winged-fuselage object with a possible cockpit dome, then lifted off like a helicopter and looked like (red?) "hot metal." (Case data missing.) (Berliner; <i>Middletown Journal</i> , Oct. 5, 1965)		4+		
1516.		Oct. 7, 1965. Edwards AFB, Calif. Ground radar tracked 12 objects and USAF F-106 pilot sighted object(s). (Sparks; Weinstein; McDonald list)				radar [gun camera film?]
1517.		Oct. 14, 1965. Sawyer AFB, Mich. (Sparks; McDonald list)				
1518.		Oct. 23, 1965. 4 miles from Long Prairie, Minn. 7:15 p.m. Radio announcer James F. Townsend driving W on State Hwy 27 found road blocked by landed silver rocket-	3 mins +	9+	120	EM

		shaped object about 30-40 ft tall, 10 ft wide, after his car engine, lights and radio died, and he coasted to a stop about 20 ft away. He got out and saw three small brownish-black "creatures" with "tripod arms and matchstick legs," no eyes or facial features, emerge from behind the object, stand underneath in an intense lighted circle, and stare at each other for 3 mins then they returned to the object. A few secs later it lifted off and vanished by turning off its lighting about 1/4 mile up. At that moment the car restarted spontaneously and headlights came on. No traces found on the ground. (Sparks; Hynek UFO Rpt pp. 206-8; Vallée Magonia 712)				
1519.		Jan. 7, 1966. 3 miles SW of Georgetown (5 miles NE of Wilmer), Alabama. 3:17 p.m. Civilian had to stop his car when he found object landed on the road blocking his way. Round silver color object 10-12 [25?] ft diameter with 8-10-inch ring or hoop at equator, 5 ft hatch on bottom, [and a cone with a flashing green light?] hovered about 5 ft above ground at 20 ft away, gradually climbed to NE, engine [whirring?] noise increasing, then rapid acceleration to disappearance in a few secs. Watch stopped [engine had died and now could be restarted?]. [Sulfur or rotten-egg smell noted?] (Sparks; Hynek UFO Rpt p. 42; Vallée Magonia 721)	1-2 mins +	1	60-70	EM
1520.		Jan. 29, 1966. Rexburg, Idaho. 12:10 a.m. 2 civilians returning from a sporting event saw what they first thought was the moon. After driving for about 1/2 mile, they saw it was a flat, well-defined object blocking the road, the size of a truck, casting an intense yellow-orange light on the ground. They turned around and drove back to Rexburg. (Sparks; Vallée Magonia 724)		2		
1521.	10193	Feb. 2, 1966. Salisbury, North Carolina. 11:15 p.m. Mr. and Mrs. L. J. Wise saw a silver, diamond-shaped object with several balls constantly in very fast motion around it, and much light. Object hovered over the trees for 3-4 mins, while a dog barked, and then zipped out of sight. (Sparks; Berliner)	1 hour	2		
1522.	10196	Feb. 6, 1966. Nederland, Texas. 5:45 [6:05?] a.m. Mr. and Mrs. K. R. Gulley saw tadpole-shaped object about 14 ft long 2 ft wide with 8 yellow and red neon-like lights at 250-500 ft altitude, casting a pulsating red glow on the lawn. House and street lights went out, high frequency sound bothered the witnesses' ears. Object blinked out when aircraft passed overhead then came on again afterward. Object departed to W [or from W to SW] about 1-1/2 miles to vicinity of airport, where an aircraft's landing lights lit up UFO, then disappeared about 20°-25° elevation in a slow climb. (Sparks; Hynek UFO Rpt pp. 186-8; Hynek UFO Exp ch. 8, case CEI-3)	5-10 mins	2 [3?]	1-2	EM
1523.		Feb. 16, 1966. Brunswick NAS, Maine. 8:30 p.m. A luminous object flashing red, blue, and green lights, landed in the woods. A second object was later seen to join the first one. (Sparks; Vallée Magonia 726)				
1524.		Feb. 26, 1966. 5 miles E of Farmington, 5 miles W of Hanna City, Illinois. Civilian witness was driving when a flying oval object, the size of a car, came within 10 ft of		1	100	EM

		him, then circled twice and left toward the N. It emitted a bright red glow, supported a sort of dome with a green light on top, caused radio interference, and made a strange "signallike noise." (Vallée Magonia 727)				
1525.		March 3, 1966. Oswego, New York. 7:20 p.m. Several civilians saw an object fly slowly to the S, hover, come within 50 ft, then fly off to the SW. (Sparks; Vallée Magonia 728)		several		
1526.		March 17, 1966. Milan, Mich. 12:00 midnight. Police officer with 10 yrs experience saw a 50 ft diameter object in the SW he thought was a plane crashing, though soundless. He tried to contact police headquarters, but his radio did not work. Object now with colored lights spinning at the periphery came within 80 ft of the patrol car, following it for 1/2 mile, then flew off to the NW. [Another sighting by police in the area at 4:25 a.m.] (Sparks; Vallée Magonia 730)		1	50	EM
1527.	10247	March 20, 1966. Miami, Florida. 12:15 a.m. USAFR Maj. K. C. Smith, with NASA Kennedy Space Center, saw a pulsating light, varying from white to intense blue, make a jerky ascent then rapidly accelerate away to the N. (Sparks; Berliner)	5 mins	1		[aerospace engr??]
1528.		March 20, 1966. Dexter, Mich. 8-8:30 p.m. Frank Mannor and his son, Ronald [plus 40-60 others including 12 policemen ?] saw hovering over a swamp about 1,500 ft away a brown luminous car-sized object, with a "scaly" or "waffled" surface, cone-shaped on top, flat on bottom, or football-shaped, and 2 bluish-green lights on right and left edges that turned bright red and helped illuminate object in between. Lights blinked out and object reappeared instantly across the swamp 1,500 ft away. The whole object lit up with a yellowish glow at one point and also rose up 500 ft then descended again. After 2-3 mins of viewing, when 2 flashlights appeared in the distance the object seemed to respond by flying away at high speed directly over the witnesses with a whistling sound like a rifle bullet ricocheting. Object remained in the swamp area for 1/2 hr. [Various other sightings in the area by police shortly afterward.] (Sparks; Vallée Magonia 731; Todd Lemire; etc.)	1/2 hr	2+ 40-60 ?	1.5	
1529.		March 21, 1966. Hillsdale, Mich. 10:32, 11 p.m.-4:30 a.m. 17 Hillsdale College students including Barbara Kohn [Cole?] and Cynthia Poffenberger saw a football-shaped object with red-green-white pulsating lights descend from the NE pass close to their dorm then disappear to the S as if crashing to the ground, then return at 11 p.m. William Van Horn, Civil Defense Director and rated commercial pilot, and police arrived and conducted a ground search 1/2 to 2 miles away to the E but found nothing until Van Horn reached the college dorm where he, using binoculars, and [87?] students saw a maneuvering lighted 20-25 ft object on or near the ground about 1,500-1,700 ft away to the E, with a dirty-white light on the left and dim orange on the right, which brightened after 10 mins to white and red and began to rise at a rate of 25-30 ft/min to a height of 100-150 ft (about 3-6 mins),	? + 5.5 hrs +	18+ [87?]	1.6 [6° equiv in binocs]	radioactivity; binoculars

		stopped momentarily then descended and repeated the motion several times. At one point on a descent a "convexed" surface (between?) the lights could be seen. Radiation was later detected at the landing area about 600 microrentgens/hr, roughly 30-60x background level, and possible boron contamination. (Sparks; Vallée Magonia 732; Todd Lemire; etc.)				
1530.	10262	March 22, 1966. Houston, Texas. 1:30 a.m. S. J. Musachia saw white flashing lights light up witness' apartment; the air was full of smoke. Sound of "yen" [hen??] heard up close. (Sparks; Berliner)	4 mins	1		
1531.		March 23, 1966. Fort Pierce, Florida. 2 young men walking through woods saw a bright object like a balloon covered with fluorescent paint that became so intensely bright they could not look directly at it. As they walked closer, it exploded, leaving no trace. (Sparks; Vallée Magonia 733)		2		
1532.	10270	March 23, 1966. Temple, Okla. 5:05 a.m. Sheppard AFB instructor Eddie Laxson was driving W on US Hwy 70 he found the road blocked by a wingless aircraft, perch fish-shaped, landed in the road, about 75 ft long, nearly 8 ft high, 12 ft wide, with a plexiglass bubble on top, bright lights forward and aft. Laxson stopped his car about 300 ft away and walked toward the object to 50 ft away, noticing a labeling on its side like "TLA138" or "TLA738" [or "TL 4768"]. He saw a "man" wearing a baseball cap or mechanic's hat climbing steps or ladder on the object and soon after it lifted off with a hissing or drilling sound and headed off SE at about 700 mph. No landing traces. Laxson found another witness C. W. Anderson a mile down the road. (Sparks; Hynek UFO Rpt pp. 208-210; Vallée Magonia 734)		2	140	
1533.		March 24, 1966. Sheboygan, Wisc. 10:15 p.m. 2 women saw a glowing bowl-shaped object on the road hovering, with 2 intense white lights, and green and red light. They lost sight of it driving away but saw it again later, flying low on a S-N trajectory. (Sparks; Vallée Magonia 735)		2		
1534.	10291	March 26, 1966. Texahoma, Okla. 12 midnight. Mrs. P. N. Beer and Mrs. E. Smith driving back from Amarillo saw a flashing light [or object with waffle-like surface glowing intense red light] coming from the N buzz their car from the front, engine and headlights died, then the object hovered 1/4 mile away. After 10 mins they could restart their car and left. (Sparks; Berliner; cf. Vallée Magonia 738)	10 mins ?	2		EM
1535.		March 28, 1966. Fayetteville, Tenn. 8 p.m. Man driving 60 mph suddenly saw a large lighted object 3 ft above the road on a hilltop, which flew off, as the car engine and headlights died. Headlight bulbs later had to be replaced. Object was oval, 25 ft long, dark gray, with about 30 lights along its periphery. (Sparks; Vallée Magonia 739)		1		EM
1536.	10329	March 30, 1966. Ottawa, Ohio. (Sparks; NARA)				
1537.		March 30, 1966. 10 miles N of Lexisburg, Indiana. 8:35 p.m. Civilian woman and her 4 children saw an oval object crossing the road as they were driving S, with a	10 mins ?	5		

		pulsating sound increasing in frequency as the object came nearer, but it seemed to come through the car radio rather than the object. They drove away in fear, but were followed for 8 miles by the object, with color suddenly changing from reddish-orange to bluish-white before accelerating out of sight. (Sparks; Vallée Magonia 741)				
1538.		April 1, 1966. 5 miles S of Tangier, Okla. 10:40 p.m. Civilian man, 34, while driving reached a hilltop and saw a green object wider than the road flying N at very high speed, emitting a shrieking noise and a "heat wave." Car engine died. (Sparks; Vallée Magonia 746)		1		EM
1539.		April 4, 1966. <1 mile SE of Hague, Florida. 6:05 a.m. Civilian man, 40, saw an elongated object on the ground as he was going to work, 6 ft long, 2 ft high, with 6 4-inch openings, making a "turbine" noise so loud the witness had to put his hands over his ears. When he tried to touch it, the object left at great speed to the W vanishing suddenly after several feet of travel. Rain fell throughout. (Sparks; Vallée Magonia 748)	4 mins	1		
1540.	10385	April 5, 1966. Lycoming, New York. 3 a.m. Lillian Louis, 42, went to get a glass of water in her kitchen and saw a spinning vapor-like sphere, 10 ft in diameter, shooting its exhaust onto the ground from 20 ft height near her house, which departed very suddenly, leaving a trail. (Sparks; Berliner; cf. Vallée Magonia 751)	1 min	1	50 ?	
1541.		April 5, 1966. Kittery, Maine. 7 p.m. 4 people saw a landed object through binoculars which took off, hovered for a while, and left. (Sparks; Vallée Magonia 752)		4		binoculars
1542.	10384	April 5, 1966. Alto, Tenn. 11:55 p.m. W. Smith and another stopped to watch an object hovering about 15 ft above a swamp, tried to follow it but it flew away. Object 100 ft long oval with a dark top, appearing cone-shaped when moving, making a high-frequency noise, and flying between a high-tension power line and a row of trees. Animal reactions wherever the object flew over. (Sparks; Berliner; cf. Vallée Magonia 753)	2.5 hrs	2		
1543.		April 11 [10-11?], 1966. Greensburg, Penna. 12 midnight. Civilian man, 43, saw a well-defined cigar-shaped object 50 ft long with no wings, tail or wheels, with flashing red light, 15 ft above ground, 300 ft away. Object rose, was lost in the fog, then came back at treetop level with a strong whistling sound. (Sparks; Vallée Magonia 756)		1	20	
1544.		April 17, 1966. Portage County, Ohio, bet. Atwater and Randolph, Ohio, to Pittsburgh, Penna. 5-6:10 a.m. (EST). E of Akron Deputy Sheriff Dale F. Spaur and associate Wilbur Neff saw a 30-45 ft metallic object approach over the treetops from the woods, bathing the witnesses and the whole area in light while making a transformer-like hum, then headed E and they gave chase in the patrol car at speeds up to 105 mph for 85 miles. Officer Wayne Huston about 35 miles to the ESE saw the object he described as ice cream cone-shaped, point downwards, approach from the W and pass overhead at about 800-900 ft height with Spaur and Neff in pursuit to the SE and he joined them	1 hr 10 mins	many	4 ?	

		near Unity, Ohio, with the object about 1/2 to 3/4 mile ahead of them, reaching the Penna. state line at 5:35. They lost sight of object at Brady Run Park regained it in Bridgeport, Penna. At about this time officers Lonnie Johnson and Ray Esterly in Salem, Ohio, saw 3 jet fighters [two F-102's] attempting to intercept a bright object at about 10,000-20,000 ft about 25° elevation to the E for about 2 mins. In Conway, Penna., at 6 a.m. they met with officer Frank Panzarella who had been watching the object for 10 mins to the E or SE which he described as 25-35 ft half-football-shaped object at about 1,000 ft height (or 1,500-2,000 ft according to the others), when it stopped in the NE towards Harmony, Penna, then rose. They watched as the object climbed to about 3,500 ft to the left of and level with the quarter moon in the ESE (which was at about azimuth 116° elevation 14° and 11% illuminated at 6:00 a.m.) and Venus (at 122° azimuth 22° elevation) and it passed near a 707 airliner taking off from Pittsburgh Airport and disappeared shooting up vertically at about 6:10. (Sparks; Hynek UFO Exp ch. 8; NICAP)				
1545.		April 17, 1966. Millersville, Texas. Daytime. Man in a car saw an sun-reflecting oval, car-sized object follow him, then cross the road behind at 15 ft height. (Sparks; Vallée Magonia 758)		1		
1546.		April 18, 1966. Battle Creek, Mich. 10:10 p.m. 42-year-old witness driving a car saw an egg-shaped object, 75 ft long, 15 ft high, gray-colored, following from a distance of 75 ft. Object had a cockpit with windows and 3 rows of lights, emitted red flames, and made the same noise as a heavy truck on wet pavement. (Sparks; Vallée Magonia 759)		1	80-100 ?	
1547.		April 22, 1966. Beverly, Mass. 9-9:45 p.m. Witnesses including 2 policemen spread over a distance of saw a platter shaped object the size of a large automobile, with 3 red-green-white lights, no sound, hover over Beverly High School then depart to the SW. At one point witnesses saw the object only 20-30 ft over the head of another witness. (Sparks; Hynek UFO Exp ch. 8, case CEI-5; cf. Condon Rpt Case 6)	45 mins	10	100 ?	
1548.		April 24, 1966. Ashby, Mass. 6:10 p.m. 2 men saw a silent object with a bright blue light on top dive within 100 ft of their car, then suddenly accelerate, and was lost to sight toward Mt. Watatic. (Sparks; Vallée Magonia 765)		2		
1549.		April 26, 1966. Follansbee, West Virginia. 11:30 p.m. Young man saw a silent 30 ft object shaped like two bowls glued together, at 100 ft altitude, ahead of his car. He drove away without looking behind. (Sparks; Vallée Magonia 766)		1	30 ?	
1550.		April 30, 1966. Sacramento, Calif. 3:15 a.m. Anita Miller saw a light move around the sky. No further detail in files. (Sparks; Berliner)	2.5 hrs	1		
1551.		May 4, 1966. Charleston, West Virginia. 4:30 [3:40?] a.m. FAA air traffic controller tracked an unidentified non-transponding target about 5 miles to the 11 o'clock position from Braniff Airline Flight 42 headed E at 33,000	5 mins	3+		RV

		ft, which crew saw high above as a white-blue object giving off brilliant flaming light of alternating white-green-red colors. Radar showed object veering away to 8-10 miles away at 10 o'clock position, then come at the Braniff airliner to 3 miles distance then made a 180° left turn to the NW again within a diameter of 5 miles at 1,000 mph [5 g's] which the Braniff crew confirmed with object descending from 20° elevation above horizon. (Sparks; Hynek UFO Exp ch. 7, Case RV-2)				
1552.	10535	May 7, 1966. Goodfellow AFB, Texas. 9:55 p.m. A/3c W. L. Whitehead saw a short, cylindrical object with pointed ends, a yellow light at one end, blue light at the other, fly straight and level. (Sparks; Berliner)	35 secs	1		
1553.	10626	June 6, 1966. Spooner, Wisc. 9:30 p.m. Dorothy Gray saw 2 domed discs with sparkling upper surfaces and square windows in their tops, revolve above a lake, apparently causing strange behavior of the lake water. (Sparks; Berliner)	25 secs	1		
1554.	10629	June 8, 1966. Between Kansas and Toledo, Ohio. 6:45 a.m. Max Baker, 43,. driving W on Sandusky Road, suddenly saw a bright silver, cigar-shaped object, as long as an airliner, silently buzz the witness' car to 100 ft distance then flew low to the NE. (Sparks; Berliner; cf. Vallée Magonia 771)	1 min.	1	100 ?	
1555.		Jun. 13, 1966 Milan, Mich. Policeman who saw the object over Milan on March 17 saw another object on the ground at a street intersection. He drove toward it with his headlights illuminating the object, which took off like an airplane, flying away to the SE. (Sparks; Vallée Magonia 773)		1		
1556.	10663	June 18, 1966. Burnsville-Mt. Mitchell, North Carolina. 12:30 a.m. 4 Boy Scout campers, including Sterrett, using binoculars saw a red bell-shaped object with 3 flashing red lights hover then land 700 ft away, remaining all night, joined by 6 other objects, then rose at dawn. Broken trees and other traces found. (Sparks; Berliner; cf. Vallée Magonia 776)	5 hours +	4		binoculars
1557.		June 23, 1966. Hamburg, New York. 9:30 p.m. Civilian woman, 63, was reading when an intense red light lit the ground near her house. She went outside and saw a 3 ft lighted object 60 ft away, which backed up and flew away "like a bullet." 3 other witnesses in the next house. (Sparks; Vallée Magonia 777)		4	6	
1558.	10693	June 26 or 27, 1966. Pacific, 400 miles E of Wake Island (at 19°21' N, 170°30' E). About 3:40-3:45 to 4:02-4:05 a.m. [ca. 1540-1605 GMT 25 or 26 June 1966??] Navigator 2nd Mate Donald L. Rominger, Chief Mate Robert Freind, Radio Officer Steffen Sorensen, Seamen W. Meeker, S. Bell, C. Morris and W. Prip, and the ship captain, of the steamship Mt. Vernon Victory (US Registry 284178), en route from Guam to Honolulu on course heading 80° (True) at about 16 knots, sighted bright white light like the planet Venus and first thought to be Venus, low on the horizon dead ahead (or 60° azimuth per ship log). At elevation 5° the light began flashing with on-off	ca. 17-25 mins	7-8	3 (or 6-8 ?)	binoculars

		square-wave light curve at 1-second intervals and developed a surrounding "halo" about 3x Full Moon angular size with a bright luminous translucent "cloud" with the light at the center. Object hovered "overhead" at some point (per ship log) for 10 minutes [?] estimated altitude about 10,000 ft and central object about 600-700 ft [thus combined yield angular size about 3° to 4°]. In the SW at about azimuth 135° elevation about 30° object was closer and began to accelerate, leaving the luminous cloud behind to dissipate, then growing dimmer and disappearing "unaccountably" in the S at about azimuth 180° elevation about 40° (or azimuth 220° elevation 20°). (Sparks; Berliner; CUFOS)				
1559.	10739	July 11, 1966. Union-Kirkwood, Penna. 7:45 p.m. Carl Wood and Charles Hawthorne [and 2 women?] saw a large (100 ft wide, 20 ft high) bright red luminous object with small windows and yellow lights 100 ft away in a field. Object had small openings, emitted a humming or whirring noise, seemingly from the outside, and a grinding noise from inside. (Sparks; Berliner; cf. Vallée Magonia 779)	1 hr [90 mins?]	2 [4?]	80 ?	
1560.	10781	July 25, 1966. Between Greenville and Vanceboro, North Carolina. 1-2 a.m. College student James Clark saw a pulsating object change color from orange to red to blue to green and back to orange, which followed his car through the woods at high speed up to 100 mph, then stopped and hovered over the car from 300 ft away about 50 ft high, wobbling on its axis, approached to 100 ft, then shot out of sight vertically in <5 secs. (Sparks; Berliner; cf. Vallée Magonia 782)	1 hr	1		
1561.	10798	July 31, 1966. Presque Isle State Park, Erie, Penna. 7:25-7:30 [8:25?] p.m. Douglas Tibbetts, 16, Betty Klem, 16, Anita Haifley [?], 22, and Gerald Labelle, 29, saw a square or hexagonal [or mushroom-shaped?] object with edges lit or reflecting light, [sweeping the area with a light beam?], come tumbling down erratically from right to left, stopped 5 ft-10 ft above the beach 1,000 ft away and settled heavily down. A circle of spotlights at top were visible when it was on the ground [and a strange 6 ft tall being]. (Sparks; Berliner; cf. Vallée Magonia 784)	5 mins	4		
1562.		Aug. 6, 1966. Harlingen, Texas (26.18° N, 97.69° W). 2 p.m. Civilian man and his family saw a dark object hover near their isolated house. 3 children saw a dwarf in shiny black coveralls through a square "door" emitting yellow light in the object, which left slowly with a soft humming sound. See later incident on Sept. 3. (Sparks; Vallée Magonia 786; Saunders/FUFOR Index)		4-5		
1563.	10872	Aug. 19, 1966. Donnybrook, North Dakota. 4:50 p.m. U.S. Border Patrolman Don Flickinger saw a bright, shiny, round disc, 30 ft in diameter and 15 ft high, colored white, silvery or aluminum, floating down the side of a hill wobbling from side to side about 10 ft off the ground. It moved across a valley from the SE climbing to 100 ft height, hovered for 1 min over a reservoir in a horizontal position when a dome on top became visible, appeared about to land in a small field about 250 ft away, then tilted	5 mins	1 [2?]	14	

		on edge and rose up into clouds at high speed. (Sparks; Berliner; cf. Vallée Magonia 788; Jan Aldrich)				
1564.		Aug. 23, 1966. Da Nang, Vietnam (16° 4' N, 108°14' E). (Sparks; McDonald list)				
1565.	10888	Aug. 23, 1966. Columbus, Ohio. 7 p.m. Broomall and Gilpin saw a circular, luminous white object split into 5 objects, all streaking away to the W. (Sparks; Berliner)	15 mins	2		
1566.		Aug. 24, 1966. Minot AFB, North Dakota. 10 p.m. USAF Airman 3rd Class Turner saw and reported by radio a multi-colored light high in the sky. USAF Airman 2nd Class Aldrich sight white light to the E between 75° and 110° near the horizon. Location estimated 75 miles N of Minot AFB at altitude 30 miles (160,000 ft). Missile Combat Crew Commander Capt Smith in underground Minuteman nuclear ICBM silo of Mike Flight 60 ft below surface reported radio interference static when UFO approached missile site from SE at undetermined distance. UFO hovered from 10:57 to 11:12 p.m. at 100,000 ft [?] then descended and began to "swoop and dive," then seemed to land 10-15 miles S of missile silo M-6. Strike team sent to this location at 11:20 p.m. confirmed the object and reported radio interference about 10 miles from UFO landing site, about 5-8 mins later UFO darkened and took off. F-106 fighter interceptor from 5th Fighter Interceptor Sq at Minot AFB was scrambled at 12:19 a.m. but could not detect object at the various altitudes checked. Second object, white, was seen to pass in front of clouds. ADC radar site Z-28 detected and tracked an object at heights up to 100,000 ft down to 4,000 (4,400) ft at 95 miles to the N at azimuth 357°. Also tracked [by Minot South Base radar?] between 2,400 and 8,200 ft to N at 75 miles azimuth 360°. Sightings made by 3 different Minuteman ICBM missile sites in Mike and November Flights, including M-4, M-6 and n-7, near Carpio and Grano, ND. Radio interference was noted by teams sent to locations where object was hovering at ground level. (Sparks; BB files on NICAP website; Vallée Magonia 791; Saunders/FUFOR Index)	nearly 4 hrs	many		radar-visual, EM
1567.	10899	Aug. 26, 1966. Gaylesville, Alabama [Rome, Georgia?]. 8:50 p.m. Mr. Funk, wife and their 3 children saw a cluster of 4 small, glowing, orange-yellow lights in a triangular formation, moving from E to W. (Sparks; Berliner; Saunders/FUFOR Index)	4.5 mins	5		
1568.	10917	Sept. 1, 1966. Willsboro, New York. 2:45 p.m. T. H. Ridman [Kidman?] saw an oval object with lights flashing red and white, occasionally blue, fly W, then disappear downward, returning several minutes later with a loud noise. (Sparks; Berliner; Saunders/FUFOR Index)	30 mins	1		
1569.		Sept. 3, 1966. Harlingen, Texas (26.18° N, 97.69° W). 2 p.m. 2 children went outside when the TV set became blurred and they saw a fantastic spinning light illuminating the house coming from an object hovering at the same location as the earlier sighting on Aug. 6. (Sparks; Vallée Magonia 793 cf. 786; Saunders/FUFOR Index)		2		
1570.		Sept. 5, 1966. Finland AFS, Minn. Johnson. (Sparks;				radar

		McDonald list; Saunders/FUFOR Index)				
1571.		Sept. 5, 1966. Texas. Evening. Civilian man saw a peculiar light phenomenon and a small figure that appeared to enter a bedroom. The figure was not seen again. (Sparks; Vallée Magonia 794)		1		
1572.	10933	Sept. 6, 1966. Suffolk County AFB, New York. 6:50 p.m. Stahl and Ladesic saw a white cylinder of light come from the E at high speed, stop and hover for 3 mins, then turn and slowly disappear. (Sparks; Berliner)	8 mins	2		
1573.	10942	Sept. 9, 1966. Franklin Springs, New York. 9 p.m. Jacobson saw a solid object, larger than an army tank, with 3 horizontal bands of light-blue, red and green lights [or lighting] all around it, descend from a cloud bank with a low humming [or soft whirring] sound, slow down and land, and disappear into woods. (Sparks; Vallée Magonia 796)	30 mins	1		
1574.	10944	Sept. 13, 1966. Stirum, North Dakota. 7:30 a.m. Rotenberger, 11, saw a silvery-grey elliptical [or disk-shaped] object with a clear bubble dome on top, tripod landing gear, 2 red lights, 2 white lights, 1 green light, hover about 1 mile away, then land within 900 ft making a low-pitched whine and taking off so fast it just "vanished." USAF Lt. Col. and a Gwinner, ND, businessman investigated, found compact landing indentations 7 inches deep and radiation level 100 microroentgens/hr (5-10x background level). (Sparks; Berliner; cf. Vallée Magonia 797)	5 mins	1		photos ?; radioactivity
1575.	10973	Sept. 28, 1966. Wilmington, Ohio. 3:38 p.m. Clarke saw 3 round, oval-shaped, aluminum-colored objects with rotating rings around them, 2 remained stationary, while the 3rd varied its altitude. (Sparks; Berliner)	90 secs	1		
1576.	10996	Oct. 5, 1966. Osceola, Wisc. Several members of a family saw a small, bright orange, moon-shaped object stationary in the NE for about 20 mins, then suddenly take off very fast to the WNW. (Sparks; Berliner)	20 mins	several	1?	
1577.		Oct. 23 [30?], 1966. Southampton, Long Island, New York. 6 p.m. Mr. Acquino [Aquino?] saw an object with arms in front of it which sparkled like an arc-light, fly S along some power lines, then turn SW, with a slight humming sound. [Same as Oct. 30 case?] (Sparks; Berliner)	4 mins	1		
1578.	11092	Oct. 26, 1966. Cold Bay AFS, Alaska. No time given. Civilian control tower operator Ralston saw a white object approach runway at 50 ft altitude. When runway lights were turned on the object accelerated and climbed away so fast the witness was unable to use binoculars. (Sparks; Berliner)	3 secs	1		binoculars?
1579.		Oct. 30, 1966. Southampton, New York. [Same as Oct. 23 case?] (Sparks; Saunders/FUFOR Index)				
1580.		Nov. 6 or 13, 1966. 3 miles W of White Plains, New York. 7:30 p.m. Chief Engineer of radio station WFAS and his Asst. saw rectangular object emitting steady bluish light moving slowly to the N while beaming light towards station's parking lot. No sound. Object had blue-black sky appearing through the middle [?]. [Plastic hot-air	1+ min	2	1	

		balloon?] (Sparks; Tony Rullan)				
1581.	11135	Nov. 8, 1966. Saginaw, Mich. Night. College graduate Annis saw a group of lights flash and change color while hovering, almost touching the road, then abruptly vanished. (Sparks; Berliner)	5 mins	1		
1582.		Dec. 18, 1966. E Lake Tiorati, Bear Mtn. State Park, New York. 4:40 p.m. Witness looked up and saw a silver-brown domed-disc in the W at 45° elevation heading NE, wobbling, noiseless, disappear over and behind a fire tower on a 1,320-ft hill about 1/2 mile away, after taking a photo. (Sparks; Hynek UFO Rpt pp. 239-245)	5-7 secs	2?		photo
1583.	11239	Dec. 25, 1966. Monroe, Oregon. 3:30 [?] a.m. Civilians and military personnel saw 3 round objects, as large as cars, give off vapor, then became 3 bright reddish-orange lights. Blast at beginning of sighting pushed one witness against a car. (Sparks; Berliner)	90 mins	4+		
1584.		Dec. 30, 1966. Haynesville, Louisiana. 8:15 p.m. Physics professor Dr. Galloway driving through a wooded area saw a bright, pulsating glow, changing from orange to white, in the woods about 1 mile away, estimated visible light power output at about 1 megawatt. Coming back the next day, he located traces of burns, and called the USAF and University of Colorado UFO project. (Sparks; Vallée Magonia 808; Condon Rpt pp. 277-280; Richard Hall NICAP letter Mar. 3, 1967)		1		physics prof
1585.		Jan. 5 [25?], 1967. Winsted [Howard Lake?], Minn. 4:30 a.m. Civilian man [Lenz?], 32, driving to work stopped to check his 1964 Chevy truck when its engine stalled. He then saw an intense light to his right, coming closer, then landing on the road, so he locked himself inside the truck. Object 75 ft diameter 30 ft high settled on tripod landing gear, an elevator-like device came down, and a man dressed in blue coveralls with "a glass fishbowl on his head," of medium height, seemed to check something then left. (Sparks; Vallée Magonia 812; Saunders/FUFOR Index)		1		EM
1586.		Jan. 8, 1967. Goose Bay AFB, Labrador, Canada. USAF MAC C-97 pilot and ground radar operators tracked object at 2,100 knots (2,400 mph). (Sparks; Project 1947)		multiple		radar
1587.		Jan. 13, 1967. SW New Mexico, NW of El Paso, Tex., to Flagstaff-Winslow, Ariz. 10 p.m. Pilot Carl M., an FO, and a passenger Jimmie Moran on a Lear Jet 23 en route from Houston, Tex., to Las Vegas, Nev., at 41,000 ft and 300 knots airspeed (Mach 0.82 or about 540 mph TAS) on a 300° heading saw a flashing [?] red oval luminous object in the 10 o'clock position. Object split into 4 similar red oval objects vertically a number of times, each separated by about 2,000 ft and each emitting a "red ray," then retracting the lowest objects up into the top object. Albuquerque radar tracked the object 39 miles ahead of the Lear jet moving on the same heading, with no transponder signal and at that moment the object blinked off visually for 30 secs then blinked on. Albuquerque control contacted a National Airlines DC-8 over Casa Grande, Ariz., whose pilot confirmed the Lear pilot's	29 mins	4+	90+ ?	RV

		reports. Albuquerque control warned the Lear that the object suddenly darted towards the Lear at high speed within secs until the radar blips merged [possibly 39 miles in 10 secs or roughly 14,000 mph]. Object flooded the Lear with intense red light so bright the pilot had difficulty seeing his instrument panel, and it maintained position in front of the Lear for a few mins then, then blinked out then came on again and started falling back behind the left wing, then pulled forward again. (Sparks; When the object blinked off radar at Albuquerque controllers would lose the object then regain it when it blinked on again (?).) Both UFO and Lear jet made left turns over Winslow, Ariz., then Los Angeles Center radar picked up both targets. Past Flagstaff the object climbed at a 30° angle disappearing to the W in <10 secs. (Sparks; Hynek UFO Exp ch. 7, case RV-1; NARCAP; BB files??)				
1588.		Jan. 16, 1967. Charleston, South Carolina. (Sparks; McDonald list)				
1589.		Jan. 26, 1967. Near Coffeen, Illinois. 9 p.m. John Cox, Methodist minister, driving on Route 185 saw a 60 ft object, flat on the bottom, rounded on top, 10 ft thick, cross the road silently 300 ft away, at low speed. (Sparks; Vallée Magonia 813; Hynek-CUFOS-Willy Smith files)		1	20	
1590.		Jan. 30, 1967. 5 miles SW and 20 miles W of Crosby, North Dakota. 8:04 a.m. (CST). Delton Schwanz, commercial pilot of 29 years' experience and past AAF/AF service, with wife Della and children Robert, Roger and Diane saw a bright white sharply outlined lozenge-shaped object (length/width ratio 4:1) to the W elevation 15°-20° momentarily stopped then moving in level flight to the left, with a smooth climb in the SW, dropped white "strips" of light that descended vertically, disappeared to the S at azimuth 170° by ascending to about 30°-45° elevation. George Larsen (Larson?) and Larry Pateof (Pace?) were independent witnesses driving by car 20 miles W of Crosby near intersection of Hwys 5 and 85 who saw large white light move rapidly from W to S dropping a "piece" of the object and disappearing suddenly. (Sparks; Hynek-CUFOS-Willy Smith files; Hynek UFO Exp, case DD-11)	1 min	7	1/5	
1591.	11350	Feb. 6 [9?], 1967. Odessa, Delaware. 8:45 p.m. Donald and Marie Guseman saw a large, Saturn-shaped object, 50 ft in diameter and 20 ft high, with 2 bright lights, a green light on one side red light on the other, hover motionless over the trees, then slowly move N and suddenly disappear. (Sparks; Berliner)	2 mins	2		
1592.	11355	Feb. 12, 1967. Grand Rapids, Mich. 3:40 a.m. Lou Atkinson saw 4 fluorescent, football-shaped objects, a dull, almost grey luminous color, fly NE in a very rigid formation with a chirping noise. (Sparks; Berliner)	4-10 secs	1		
1593.	11383	Feb. 16, 1967. Stoughton, Wisc. 9:11 p.m. Miss Lynn Marsh saw a light with faded edges follow her car. (Sparks; Berliner)	5-6 mins	1		
1594.	11394	Feb. 20, 1967. Oxford, Wisc. 3:10 a.m. USAF veteran/truck driver Stanton Summer saw an orange-red	2 mins	1		

		object fly parallel to his truck. (Sparks; Berliner)				
1595.		Feb. 23, 1967. Glasgow AFB, Montana. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1596.	11419	Feb. 27, 1967. Grand Haven, Mich. 8:19-9:30 p.m. Sheriff Gysen, wife and others saw a large white light, with smaller red and green lights to the sides, make an almost instantaneous 90° left turn, shoot out over the road and stop, [then] moving too fast to follow. (Sparks; Berliner)	1 hr 11 mins	4+		
1597.		March 2, 1967. Holloman AFB/White Sands Missile Range. 10:25-11:31 a.m. (Sparks; NICAP website; Condon Rpt.)	1 hr 6 mins	many		radar-visual
1598.		March 5, 1967. Minot AFB, North Dakota. ADC radar tracked an unidentified target descending over the Minuteman ICBM missile silos of the 91st Strategic Missile Wing. Base security teams saw a metallic, disc-shaped object ringed with bright flashing lights moving slowly, maneuvering, then stopping and hovering about 500 ft above ground. Object circled directly over the launch control facility. F-106 fighters were scrambled but at that moment object climbed straight up and disappeared at high speed. (Sparks; Ray Fowler; etc.)				
1599.	11454	March 6, 1967. Benton Harbor, Mich. 12:01 a.m. Jerome Wolanin, assistant news director of radio station and former policeman, and wife, saw a round saucer or oval-shaped object with red, green and yellow lights around bottom rim which pulsated red, flying level, E to W, joined by 2nd object from W. 1st object opened top, 2nd came over and hovered for 30 secs and disappeared. Objects made hissing sound. (Sparks; Berliner)	40+ mins	2		
1600.	11460	March 6, 1967. Galesburg-Moline [?], Illinois. 4:25 a.m. Deputy Sheriff Frank Courson saw an object shaped like a rubber cup placed under a furniture leg, with a dome set in the cup, bottom spinning rapidly, rim pulsating red, which approached and passed overhead at low altitude, making a hissing sound. (Sparks; Berliner)		1		
1601.		March 9 [11?], 1967. Galesburg, Illinois. 7:10 p.m. 2 housewives [Powell and McKee?] saw an object shaped like a pancake with a rounded top, pulsating red, and red lights around its rim, which approached and seemed to explode with a brilliant white light that lasted 10 seconds and almost blinded them. Object accelerated to the N and disappeared. (Sparks; Berliner; Saunders/FUFOR Index)	10+ secs	2		
1602.		March 9, 1967. Follansbee, West Virginia. 9 p.m. 3 witnesses driving on Route 2 saw a round car-sized object, with several lights on the underside, hovering at rooftop level, which left suddenly at high speed. (Sparks; Vallée Magonia 824)		3		
1603.	11480	March 9, 1967. Onawa, Iowa. 9:05 p.m. Jack Lindley saw a bright white, saucer-shaped object, as big as a jet airliner, fly straight and fast to the E. (Sparks; Berliner)	2 mins	1		
1604.		March 12, 1967. Rochester, Minn. Boy Hrubetz went out to buy a newspaper and saw a car-sized, inverted mushroom-shaped object hovering 30 ft above ground, then tilted at a 45° angle, oscillated, and left to the NW. 3		1		photos?

		photos reportedly taken. (Sparks; Vallée Magonia 825; Saunders/FUFOR Index)				
1605.		March 16, 1967. Near Roy (about 30 miles NE of Lewistown), Montana. Oscar ("O") Flight [November Flight?] of Malmstrom AFB, USAF 341st Strategic Missile Wing, had unexplained deactivation of 6-8 Minuteman nuclear ICBM's within several secs of each other during UFO close encounters involving a red saucer-shaped object in early morning hours. USAF security guard injured and medivacked out. Capt. Robert Salas was Deputy Missile Combat Crew Commander on duty at O Flight. Similar event occurred with Echo Flight later in the morning (?). (CUFON; NICAP; not in BB files??)		several		EM? missile deactivation
1606.		March 16, 1967. 15 miles N of Lewistown, Montana. 8:45 a.m. Echo ("E") Flight of 10 Minuteman nuclear ICBM's of Malmstrom AFB, USAF 341st Strategic Missile Wing, SAC, were inexplicably deactivated within 10 secs of each other and for 1 day after UFO's hovered near 2 missile silos. Followed a series of UFO sightings during early morning hours by USAF security teams. Similar unexplained deactivation of Minutemans occurred with O-Flight earlier in the morning. (Sparks; CUFON; NICAP; not in BB files??)	15+ mins ??	several		EM? missile deactivation
1607.	11541	March 22, 1967. Wapello, Iowa. 10:20 p.m. Douglas Eutsler, 15, saw a fluorescent, solid, multicolored lights stand still, then fly away at high speed. (Sparks; Berliner)	1 min	1		
1608.	11551	March 24 [26?], 1967. Belt, Montana. 9 p.m. Truck driver Ken Williams saw a dome-shaped object, emitting a bright light, land in a ravine. As he approached, it took off and settled back, hidden from the highway. Numerous other reports came in from this area and at dawn police and a Malmstrom AFB helicopter made a search without success. (Sparks; Berliner; cf. Vallée Magonia 827)	several mins + ?	1 + many ?		
1609.	11559	March 26, 1967. New Winchester, Ohio (40.717° N, 82.919° W). 4 p.m. Man, woman, three boys, saw an oval object, like copper or brass with the sun shining on it, fly from SE to NW with tumbling motion. (Hynek UFO Exp ch. 6, case DD-12; Saunders/FUFOR Index)	30 mins	5		
1610.		April 10-11, 1967. Houma, Louisiana. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1611.		April 16, 1967. Shoreline at NE corner of Ramey AFB, Puerto Rico. Bet. 5 and 6 a.m. (EST). USAF Airman/2nd Guillermo Padilla and Airman Henry, 72nd Bombardment Wing, SAC, saw a disc shaped object with two levels and a reddish band slightly above midsection, floating or hovering just above the water. Object went left to right and back a short distance then rose from right to left, and Padilla took a photo. Object reversed path and disappeared. (Sparks; Tony Rullan)	5 mins	2		photo
1612.		April 17, 1967. Jefferson City, Missouri. 9 p.m. School principal and 3? teachers (Pistone, Wilson, Metz) in separate cars were driving home and saw a huge 300 ft WWI helmet shaped object come over the cliff then over their cars bathing them in intense light. Object hovered over power lines for about 10 mins then headed towards	10-15 mins	6+ ?		

		the airport. Principal drove over to airport and found 2 more witnesses, attorneys. Ozark Airliner crew saw 2 large round flat objects below the plane on final landing approach moving in various directions. (Sparks; Hynek UFO Exp ch. 8, case CEI-7; Weinstein; Saunders/FUFOR Index)				
1613.	11677	April 21, 1967. South Hill, Virginia. 9 p.m. Business manager Clifton N. Crowder found the road blocked to the W on his way home by an aluminum storage-tank-shaped object with dome top, 16-18 ft tall 12 ft wide, landed in the road ahead on 4 legs 3-3.5 ft long about 500 ft away. He turned on his high beams for a better look for about 5 secs at 250 ft, the object emitted white flames and took off. Burned area found in the road and holes along with charred matches. Norman Martin who lived nearby saw a bright light from the area at the time. (Sparks; Vallée Magonia 836; etc.)	10+ secs ?	2		
1614.		April 27, 1967. Green Lake, Wisc. 10 p.m. 4 boys with binoculars saw a cone-shaped object with a blue underside, and a top that changed from red to orange to white, come lower with oscillating motions, illuminating the woods 1/2 mile away. (Sparks; Vallée Magonia 838)		4		binoculars
1615.		May 16, 1967. Gulf of Mexico. 10:10 p.m. Crew of SS Point Sur. (Sparks; Hynek UFO Exp ch. 7, case RV-9)	50 mins	4		RV
1616.	11744	May 17, 1967. Rural Hall, North Carolina. 8:30 p.m. Red Ledford [Parker?] saw a round, orange-colored object, similar in size to a small aircraft, zigzag back and forth over a jet that was heading NE. (Sparks; Berliner; Saunders/FUFOR Index)	5 mins	1		
1617.		June 2, 1967. McKeesport, Penn. Clark and Smith. Conflicting data on whether to ID this as meteor. (Sparks; Hynek-CUFOS-Willy Smith files; Saunders/FUFOR Index)		2		
1618.	11815	June 24, 1967. Austin, Texas. 3:12 a.m. Artist/UFO researcher ex-contactee Ray Stanford near Mansfield Dam saw a solid, blue-white, elliptical object fly from NW to NE and stop, seemingly in response to flashlight signal, for 1.5 minutes. Object then continued along its original path at high speed and disappeared behind clouds. (Sparks; Berliner)	9 mins	1		
1619.	11831	June 29, 1967. Scotch Plains, New Jersey. 1:30 a.m. Truck driver Damon Brown saw an oyster-shaped object 200 ft wide 25-30 ft thick with a huge red light at each end, one light on the bottom, and a row of blue lights along the bottom, which circled an aircraft, hovered, moved rapidly, then followed the witness' car for about 500 ft, veered S and departed at great speed. (Sparks; Berliner)	8-10 mins	1		
1620.	11869	July 10, 1967. Lizelia [Meridian?], Mississippi. 5:50 p.m. After his car stalled and radio faded out, golf pro Harold Washington (Capt., USMC Ret.) saw an object of large size with a dome, the top gunmetal blue, the bottom the color of old lead, moving E about 300 ft over his car, crossing the highway tilted upward to the right, then accelerated and disappeared into the low clouds, with a	3-5 secs	1		EM

		swishing sound. (Sparks; Berliner; Randle p. 264)				
1621.		July 21 [19?], 1967. Jewish Creek [Homestead?], Florida. 2:30 a.m. Barbara Fawcett [Faucett?], 18, and her sister saw a yellow "jagged" object rise above a swamp and land on a hill. USAF investigators found a very large scorched area at the spot. (Sparks; Vallée Magonia 858; APRO July 1967; Saunders/FUFOR Index)		2		
1622.		July 23, 1967. Popponessett Beach, Mass. Mr. and Mrs. McEnroe. (Sparks; Hynek-CUFOS-Willy Smith files; Saunders/FUFOR Index)		many ?		
1623.		July 30, 1967. Kernville, Calif. (35.75° N, 118.44° W). 10:17 p.m. Petyak. (Sparks; McDonald list; Saunders/FUFOR Index)				
1624.		Sept. 11, 1967. Kincheloe AFB, Mich. 10 p.m. Radar tracks of 17 objects. (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1625.		Oct. 18, 1967. Lake Charles, Louisiana. 9 p.m. John Herbert [and Sonnier?] saw a bright, fiery ball flash 4 times while moving E, just above tree tops. (Sparks; Berliner; Saunders/FUFOR Index)	1 min	1 [2?]		
1626.		Oct. 21 [20?], 1967. Blytheville AFB, Ark. (35.96° N, 89.95° W). 6:16 a.m. [7:16 p.m.?] 2 control tower operators, one named Warren, and an observer at the S end of the runway saw 2 dark oblong table-latter shaped objects with 7 ft long exhaust at about 1,200-1,500 ft height fly E to W, tracked by RAPCON radar at a distance of 2 miles, make a turn to the SW when they disappeared. (Sparks; Hynek UFO Exp ch. 6, case DD-3)	15-30 secs	3		RV
1627.		Feb. 4, 1968. Redlands, Calif. (34.06° N, 117.19° W). 7:20-7:25 p.m. (PST). Numerous witnesses Tetzlaff and others saw a 50-60 ft circular object with 7 lights on the bottom, 8-10 lights on top alternating in color, head NE [or ENE] for about 1 mile at about 300 ft altitude, hover, jerk forward, hover, shot up vertically, hover, wavered to the NW, climbed in altitude slightly, then shot off to the NW at high speed, disappearing. (Sparks; Hynek UFO Exp app. 4; Saunders/FUFOR Index)	5 mins	100's	20	
1628.	12235	Feb. 9, 1968. Groveton, Missouri. 3:20 [4:20?] a.m. Mr. R. W. Bland noted animal disturbance drawing his attention to a 100 ft circular object about 300-350 ft away hovering about 20-25 ft above ground, lighting up ground, trees, cows, etc. Object had 7 yellowish-green lighted portholes about 2-2.5 ft wide in the center of each concave side (?), and made a whirring [or pulsating?] noise. Disappeared to SW at 45° (?) elevation without tilting. Witness alluded to disappearance of cows in the past. (Sparks; Berliner; cf. Hynek UFO Rpt pp. 193-5)	1-5 mins	1	30	
1629.		March 6, 1968. Amarillo, Texas. Hottinger. (Sparks; McDonald list; Saunders/FUFOR Index)				
1630.		July 11, 1968. Eielson AFB, Alaska (64.68° N, 147.06° W). (Sparks; McDonald list; Saunders/FUFOR Index)				radar
1631.		Aug. 21, 1968. Ottsville, Penn. Witness Shrieberg took photo of object in an irregular jerky path. (Sparks; Randle p. 264)				photo
1632.	12498	Sept. 15, 1968. W of Cross City to 12 miles W of Ocala,	15 mins	2 ?		RV?

		Florida. 9:30 p.m. [12:31 a.m.?] Missionary pilot Ray [Jay?] Cole, flying a Twin Beech C45H twin-engined utility plane at 9,500 ft heading 120° at 200 mph true airspeed, with a pilot passenger Ray Rushing, saw a white [?] light with pale green light flashing less than once per sec at their flight level, moving up and down vertically by about 500-1,000 ft for 15 mins maintaining distance then turned right about 10° climbed at a 15° angle until vanishing when 12 miles out from Ocala. 2nd light, very bright white also flashing pale green and at about 5,000 ft height, then suddenly appeared on a collision course, made a 90° turn at about 2 miles away and 500 ft below, then descended and receded to about 15 miles away and disappeared with distance to the W of Ocala. Later, ground radar said a target was following them [?]. (Sparks; NARCAP; Berliner)	+ ? + ?			
1633.		Sept. 17, 1968. Nellis AFB, Nevada. 1 a.m. 2 air traffic controllers Abrams and another including supervisor saw nocturnal light. (Sparks; Hynek UFO Exp ch. 5, case NL-3)	40 mins	2		
1634.		Oct. 24, 1968. About 30 miles NW of Minot AFB, North Dakota. 3:30-4:40 a.m. (CDT). USAF Minot AFB ground radar tracked unidentified object correlated with orange glow and radioed it to the attention of the USAF crew of B-52H bomber (call sign JAG 31) on a 290° heading at 2,000 ft as a UFO target at 1 o'clock position to the NW at 24 miles, then 15 miles at 3:35 a.m. At 3:52 a.m., Minot radioed the B-52H that base weather radar was also tracking target now at 1 o'clock position and 3 miles from the B-52H. At 3:58 Minot requested IFF transponder identification from the B-52H and the B-52H radio transmitter failed for 4 mins. B-52H crew saw and radar tracked bright red-orange object [?] at 9 o'clock position at 35 miles then 1.25-1.5 miles, traveling at estimated 3,000 mph. Radar scope photos show at least 4 multiple unidentified targets making it difficult to assume continuity, i.e., determine which object is the same from frame to frame. Radar scope photos 771 to 772 show UFO target first at 138° azimuth from B-52H at 2.85 mi then 3 secs later at 242° and 1.7 mi from the aircraft, which might indicate 4,000 mph average velocity (peak velocity about 7,000 mph) and about 140 g's linear acceleration, if it can be assumed to be the same object. Then 3 secs later in frame 773 the object (if the same) moved to 40° azimuth at 1.7 mi range, average speed about 4,000 mph again, if the same object. UFO landing for 45 mins at location "AA-43." UFO sightings at Minuteman ICBM nuclear missile sites N, O, J [?], and M Flights, 91st Strategic Missile Wing, including strange EM effects such as security alarms activated at outer and inner rings around silos, outer [silo?] door opened and combination lock of inner door moved. Witnesses included Maj. Bradford Runyon, S/Sgt Bond, S/Sgt Smith, radar navigator Patrick McCaslin, Richard Clark, et al. (Sparks; Project 1947; Randle; Hynek UFO Rpt pp. 137-9 [misdated as 1966]; Tom Tulien; Sparks, etc.)	1 hrs 48 mins+	16+ [20+ ?]		RV, EM, radar scope photos

1635.	12567	Nov. 23, 1968. Newton, Georgia (31.3° N, 84.36° W). 8:05 p.m. Witness Mr. Jones, an accountant, saw collimated beam 5-6 ft wide come down from a point about 200 ft ahead and 75 ft off the ground illuminating trees after car radio faded to static. Beam retracted slowly like a ladder to a fuzzy scintillating main light, oval-shaped yellowish-white about 100 [or 120-150?] ft wide, which then changed to brighter reddish-orange, rose vertically disappearing in less than 15 secs. Car restarted spontaneously. (Sparks; Berliner; cf. Hynek UFO Rpt pp. 189-191)	3-4 mins	1	40	EM
1636.	12607	Jan. 17, 1969. Crittendon, Virginia. 3:24 a.m. Roman K. Lupton, test facility mechanic, awakened by strange electric motor type sound, saw several amber lights, one blinking, in elliptical formation, with humming sound, fly forward slowly while moving up and down, then turn and disappear. Several neighbors heard the sound without seeing the object(s). (Sparks; Berliner; Randle p. 265)	2 mins	1		
1637.		Jan. 17, 1969. Bradenton, Florida. 11:30 p.m. 15-year-old boy McDonald saw several disc-shaped objects. (Sparks; Randle p. 265)		1		
1638.		March 14, 1969. Thailand. USAF crew of KC-135 tanker saw a cylindrical object larger than the plane that departed on approach. (Sparks; Weinstein; BB files??)				

Standard Abbreviations

a.m.	ante meridiem (time before 12 noon, counting from 12 midnight or 0000 hours)
A/1c	Airman First Class (military rank)
A/2c	Airman Second Class (military rank)
A/3c	Airman Third Class (military rank)
AACS	Airways and Air Communications Service
AAF	U.S. Army Air Forces (became USAF Sept. 18, 1947)
ACW	USAF Aircraft Control & Warning radar site
ACWRON	USAF Aircraft Control & Warning Radar Observation Network, Air (later Aerospace) Defense Command
ADC	USAF Air (later Aerospace) Defense Command (now subsumed under NORAD)
ADT	Atlantic Daylight [Savings] Time (ADT + 3 hours = UTC-GMT-Z time)
AEC	U.S. Atomic Energy Commission
AESS	U.S. Atomic Energy Commission (now Dept. of Energy) Atomic Energy Security Service
AEW&C	USAF Airborne Early Warning & Control airborne radar system
AFB	USAF Air Force Base
AFOSI	USAF Office of Special Investigations
AFS	USAF Air Force Station (typically a radar site)
AHST	Alaska-Hawaii Standard Time (AHST + 10 hours = UTC-GMT-Z time)
AMC	USAF Air Materiel Command, Wright Field later Wright-Patterson AFB, Dayton, Ohio
approx.	approximately
APRO	Aerial Phenomena Research Organization, Tucson, Ariz. (defunct 1988)
arcmin	arc minute (angular unit of measurement = 1/60 of a degree)
Asst.	Assistant
AST	Atlantic Standard Time (AST + 4 hours = UTC-GMT-Z time)
BB	USAF Project Blue Book, Wright-Patterson AFB, Dayton, Ohio
Bet.	Between
BOAC	British Overseas Airways Corp.
CAA	U.S. Civil Aeronautics Administration (now Federal Aviation Administration)
CAP	USAF auxiliary Civil Air Patrol
Capt.	Captain (military or naval rank)

Cdr.	USN Commander (naval rank)
CDT	Central Daylight [Savings] Time (CDT + 5 hours = UTC-GMT-Z time)
cf.	confrere (compare) (typically used here to indicate a source used in addition to the Berliner list entry, or a discrepant account)
CFS	Canadian Forces Station
CIA	U.S. Central Intelligence Agency
CIC	U.S. Army Counter Intelligence Corps
Co.	Company
Col.	Colonel (military rank)
Corp.	Corporation
Cpl.	Corporal (military rank)
CPO	Chief Petty Officer (naval rank)
CST	Central Standard Time (CST + 6 hours = UTC-GMT-Z time)
CUFON	Computer UFO Network
CUFOS	J. Allen Hynek Center for UFO Studies, Chicago, Ill.
Dept.	Department
Det.	Detachment
DoD	U.S. Department of Defense
Dr.	Doctor
E	East (azimuth 90°)
ECM	Electronic Counter Measures
EDT	Eastern Daylight [Savings] Time (EDT + 4 hours = UTC-GMT-Z time)
ELINT	Electronic Intelligence
EM	Electro Magnetic effects
ENE	East North East (azimuth 67.5°)
equiv	equivalent
ESE	East South East (azimuth 112.5°)
EST	Eastern Standard Time (EST + 5 hours = UTC-GMT-Z time)
FBI	U.S. Federal Bureau of Investigations
FEAF	USAF Far East Air Force
FI	Fighter Interception (squadron or wing)
FO	First Officer
FOIA	U.S. Freedom of Information Act (5 U.S. Code 552)
ft	feet (or foot) linear unit of measurement (= 0.3048 meter or 30.48 cm)
g	unit of gravitational acceleration at earth's surface (= 32.2 ft/sec ² or 9.8 m/sec ² approx.)
G-2	U.S. Army intelligence division (of a given command or unit or staff)
GCA	Ground Control (or Controlled) Approach (radar system for air traffic control)
GCI	Ground Controlled Intercept (air defense radar)
GMT	Greenwich Mean Time (now generally UTC, Coordinated Universal Time; U.S. military terminology Z or Zebra or Zulu time)
GOC	U.S. Ground Observer Corps (auxiliary of USAF Air Defense Command)
hr	hour (time unit of measurement)
Hwy	Highway
IAC	U.S. National Security Council Intelligence Advisory Committee (now National Foreign Intelligence Board)
IAS	Indicated Air Speed (conversion to true air speed depends on altitude, temperature, pressure)
ICBM	Intercontinental Ballistic Missile
IFF	Identification Friend or Foe encrypted radar transponder system
IFO	Identified Flying Object
JCS	U.S. Defense Department Joint Chiefs of Staff
jr	junior grade (part of military rank) (also JG)
knots	knots (unit of speed measurement = 1.150779 mph)
lb.	pound (unit of weight = 0.454 kilogram mass, approx., under standard gravity)
Lt Col.	Lieutenant Colonel (military rank)
Lt.	Lieutenant (military rank)
M/Sgt.	Master Sergeant (military rank)
MAC	USAF Military Airlift Command (formerly MATS now Air Mobility Command)

Maint.	Maintenance
Maj.	Major (military rank)
MATS	USAF Military Air Transport Service (now Air Mobility Command)
MCAS	USMC Marine Corps Air Station
MDT	Mountain Daylight [Savings] Time (MDT + 6 hours = UTC-GMT-Z time)
min	minute (time unit of measurement)
mph	miles per hour (unit of speed measurement = 1.609344 km/hr or 1.46667 ft/sec approx., in statute miles of 5,280 feet)
MST	Mountain Standard Time (MST + 7 hours = UTC-GMT-Z time)
Mtn.	Mountain
N	North (azimuth 0° or 360°)
NACA	U.S. National Advisory Committee on Aeronautics (now NASA)
NAS	USN Naval Air Station
NE	North East (azimuth 45°)
NICAP	National Investigations Committee on Aerial Phenomena website
N.M.	New Mexico (see elsewhere for complete list of U.S. state abbreviations)
n.mi.	nautical miles
NNE	North North East (azimuth 22.5°)
NNW	North North West (azimuth 337.5°)
NORAD	North American Aerospace Defense Command (U.S.-Canadian joint command)
NW	North West (azimuth 315°)
NYC	New York City
Ofcr.	Officer
OPC	Office of Policy Coordination (CIA covert action office, 1948-52)
Ops	Operations
p.m.	post meridiem (time after 12 noon)
PDT	Pacific Daylight [Savings] Time (PDT + 7 hours = UTC-GMT-Z time)
PFC	Private First Class (military rank)
PST	Pacific Standard Time (PST + 8 hours = UTC-GMT-Z time)
Pvt.	Private (military rank)
RAAF	Royal Air Force (U.K.)
RAF	Royal Australian Air Force
RAPCON	Radar Approach Control
RCAF	Royal Canadian Air Force
Recon	Reconnaissance
re-eval	re-evaluation
Ret.	Retired
Rpt	Report
Rt.	Route
RV	Radar-Visual (Hynek UFO Classification)
S	South (azimuth 180°)
SAC	USAF Strategic Air Command (now U.S. Strategic Command)
SE	South East (azimuth 135°)
sec	second (time unit of measurement)
SFC	Sergeant First Class (military rank)
Sgt.	Sergeant (military rank)
s/n	serial number
Sq	Squadron
SSE	South South East (azimuth 157.5°)
SSW	South South West (azimuth 202.5°)
Supv.	Supervisor
SW	South West (azimuth 225°)
TAS	True Air Speed (IAS corrected for altitude, temperature, pressure)
T/Sgt.	Technical Sergeant (military rank)
TWA	Trans World Airlines
UFO	Unidentified Flying Object

UK	United Kingdom
USAF	U.S. Air Force
USMC	U.S. Marine Corps
USN	U.S. Navy
USSR	Union of Soviet Socialist Republics (now Russia)
W	West (azimuth 270°)
WNW	West North West (azimuth 292.5°)
WSW	West South West (azimuth 247.5°)