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James E. McDonald papers, (1904-1997)

Collection Number: MS 412



Collection Summary

Creator: McDonald, James E., 1920-1971
Collection Name: James E. McDonald papers,
Inclusive Dates: 1904-1997
Physical Description: 66 linear feet
Abstract: Papers, 1904-1997 (bulk 1958-1971). Mostly correspondence, cases, reports, interviews, and printed materials relating to James E. McDonald's investigations, 1958 to 1971, into unidentified flying objects and similar sightings.
Collection Number: MS 412
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Biographical Note

Born in 1920 in Duluth, Minnesota, James E. McDonald was educated at the University of Omaha (B.A. Chemistry, 1942), Massachusetts Institute of Technology (M.S. Meteorology, 1945), and Iowa State College (Ph.D. Physics, 1951). He served in the United States Navy from 1942 to 1945, and, for the following years taught or researched at Naval Aerology School, Iowa State College, and University of Chicago. He married Betsy Hunt in 1945, and they had six children.

He was appointed Associate Director at the University of Arizona's Institute of Atmospheric Physics from 1954 until 1956, and was a professor in that department from 1956 until his death in 1971. His areas of research included cloud physics, weather modification, and micrometeorology. Internationally known, he was a member of the National Academy of Sciences, American Meteorological Society, American Geophysical Union, and other national and international societies. Relentless in his pursuit of knowledge and understanding, Mr. McDonald was an inspiring lecturer and continuously active in university affairs.

He was the author of *Physics of Cloud Modification*, in the fifth volume of *Advances in Geophysics*, and served as contributing editor to *The Glossary of Meteorology*, and contributed many articles to his field of study. His scientific interests also led him to contribute writings and testimony to contemporary issues of his time such as the supersonic transport debates, placement of Titan II missiles around the Tucson basin, and scientific dismissal of unidentified flying objects. His hypothesis that UFOs were extraterrestrial instruments on information gathering missions, and his beliefs that current scientific reports, such as the Condon Report, were superficially done, led him to investigate sightings and combat governmental impediments into his research topics.

Scope and Content Note

Papers, 1904-1997 (bulk 1958-1971). Mostly correspondence, cases, reports, interviews, and printed materials relating to James E. McDonald's investigations, 1958 to 1971, into unidentified flying objects and similar sightings, and governmental investigations, responses and reports, including the United States Air Force's Project Blue Book, and Edward U. Condon's 1969 report, *A Scientific Study of Unidentified Flying Objects*, relating to these phenomenon. Correspondence, 1958-1971, is between McDonald and various government and military officials, other scientific and professional UFO researchers. Case files, 1945-1970, include investigations, mostly in the United States, Canada, Australia, and New Zealand, on sightings by military pilots, tower control officers, law enforcement officers, scientists and citizens.

Contains photocopies of approximately 580 Project Blue Book sighting reports, mostly by pilots, and some with airborne and ground radar verification. Also includes four handwritten journals, 1958-1971, describing UFO investigative activity; papers and talks, 1966-1977, given before conferences, symposia, and groups; research materials, including his 1967 trip to Australia and New Zealand; a referenced outline of an unpublished book; over 80 audio-tapes of interviews, talks, and conversations on UFO topics; photographic materials on various subjects; and supplemental materials.

Organization

This collection is organized into two subgroups. Subgroup one has seven series. Subgroup two has one series.

Subgroup I: UFO Research Files 1904-1971

Series I: General Files, A-Z, 1945-1971

Series II: Project Blue Book Radar-visual Files and Reports, 1947-1968

Series III: Research Files, 1904-1969

Series IV: Publications on Project Grudge, Blue Book, Condon, Others, 1951-1969

Series V: Photographic Materials,

Series VI: Audio-tapes: Interviews of Witnesses by JEM, 1954-1967

Series VII: Supplemental Materials, 1960-1971

Subgroup II: General Research Files 1953-1997

Series I: Research Files, 1953-1997

Restrictions

Restrictions

None

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Access Terms

Personal Name(s)

Condon, Edward Uhler, 1902-1974
McDonald, James E., 1920-

Corporate Name(s)

National Investigations Committee on Aerial Phenomena
Project Blue Book (U.S.)
United States. -- Air Technical Intelligence Center

Subject(s)

Unidentified flying objects -- Case studies
Unidentified flying objects -- Government policy -- United States
Unidentified flying objects -- History
Unidentified flying objects -- Sightings and encounters

Genre Form(s)

Correspondence
Photographs

Administrative Information

Credit Line

James E. McDonald papers (MS 412). Special Collections, University of Arizona Libraries.

Container List

Subgroup I: UFO Research Files, 1904-1971

Series I: General Files, A-Z, 1945-1971

box

- 1 American Association for the Advancement of Science. Arizona Section. , 4/29/67
- 1 AAAS: , 2/69
- 1 AAAS: Summary of Presentations (1 of 2). , 12/69
- 1 AAAS: Miscellaneous items.
- 1 ABC-TV. , 1/6/69
- 1 Accidents: A/C, Cars.
- 1 Adams, Don: Edgemont, NM, close-arm fire case. , 4/28/67

1 Adamski, George.
1 American Institute of Aeronautics and Astronautics (AIAA): Cape Kennedy, FL. , 12/68
1 AIAA: Chicago. , 9/68
1 AIAA: Huntsville, Alabama. , 5/68
1 AIAA: Los Angeles Area. , 3/68
1 AIAA: Los Angeles. , 5/6/69
1 AIAA: Mansfield State College, PA. , 4/69
1 AIAA: New York City. , 1/70
1 AIAA: Oklahoma City. , 11/68
1 AIAA: Omaha, Nebraska. , 11/68
1 AIAA: Phoenix, AZ. , 10/68
1 AIAA: Physics Colloquium, Ames, Iowa. , 4/69
1 AIAA: Pt. Mugu, CA. , 2/18/69
1 AIAA: Sacramento, CA. , 5/69
1 AIAA: Salt Lake City. , 3/69
1 AIAA: San Antonio, TX. , 2/69
1 AIAA: San Diego, CA. , 3/69
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1 Arizona Cases.
1 Arizona Medical School Colloquium. , 1/69
1 Arnold, Kenneth . , 1947
1 Artesia, NM. , 1/16/51
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1 American Society of Newspaper Editors (ASNE). , 5/67
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1 Astronomical Sky Surveys.

- 1 Astronauts: Official Documents.
- 1 Australia: Auckland: Brunt, A. J.
- 1 Australia: Clips.
- 1 Australia: Haylock, Dan: Paynesville, Victoria.
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- 1 Australian Flying Saucer Magazine.
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- 1 Australian photos, Balwyn and Coyle cases.
- 1 Australian Sightings: Paul Norman.
- 1 Australian Trip Materials: Sighting catalog cards.
- 1 Australian Tully "nests" (photo).
- 1 Australian UFO Bulletin: Victorian UFO Research Society.
- 1 Aviation Week & Space Technology: early Klass, Phillip correspondence.
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- 2 Bacon, Terry: Photos case (multiple), Catalina Island See also Photographs.
- 2 Baker, R. M. L.. , 1968
- 2 Ball Lightning.
- 2 Baseball studies, James E. McDonald.
- 2 Baytown, TX. , 7/18/66
- 2 BBC: Philip Daly. , 1967
- 2 Beallsville, Ohio: Greg Wells "burn case." , 3/19/68
- 2 Beatty, James C.: Ground Observer Corps (GOC). , 9/54
- 2 Beeps: San Jose, CA area: Los Gatos.
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- 2 Bellefontaine, Ohio 8/1/52: Radar/Aircraft/Visual.
- 2 Benedek, Leslie: Perth, Australia. , 1/17/67
- 2 Benson, N. E.: Wallingford, Connecticut. , 5/28/67
- 2 Benton, T. Bruce: Spring 1952: USAF radar case.
- 2 Berkner, Lloyd & Johnson, S. W.: Southwest Center for Advanced Studies visit. , 4/15/67
- 2 Beverly, Massachusetts Case. , 3/22/66
- 2 Bibliographical Lists of Published JEM Scientific Papers.
- 2 Bigg, E. K.: Australia: Correspondence. , 1968
- 2 Bloecher, Ted. , 1966
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- 2 Booth, Lloyd C.: Conway, SC. , 1/29/53

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2 Brew, Charlie: 2/15/63.
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2 Cale, Clifford J.: Canadian National. , 3/66
2 Campeadore, Michael. , 5/6/67
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2 Cathie, Capt. Bruce L.
2 CBS: "CBS Reports: UFO, Friend, Foe or Fantasy," Transcript.
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3 Cloud Holes: Pictures.
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3 Clouds: UFO Coarsegold, surrounding area: E. E. (Bud) Miller, Dan Wallis.
3 Coffman, Hubert: Exeter, CA. , 1/10/68
3 Collins, Mrs. D. J.: Lennox, MA.
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3 Condon Committee: Correspondence Low, JEM.
3 Condon Committee: Correspondence Low, miscellaneous.
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3 Condon Committee: Home file.
3 Condon Committee: Library project file.
3 Condon Committee: Memo: Robert Low.
3 Condon Committee: Miscellaneous Materials.
3 Condon Committee: 100 Best List.
3 Condon Committee: Original: Early proposals.
3 Condon Committee: Referrals to JEM.
3 Condon Committee: Saunders, David: Correspondence.
3 Condon, Dr. E. U.: Correspondence with J. E. McDonald.
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3 Condon Report: Basic Items: Cases, NAS, etc.
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7/2/52
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- 3 Condon Report: Clippings & Miscellaneous. , Jan-Dec 1969
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- 4 Correspondence: Researchers from other countries.
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- 4 Coyle, John: Photos. , 3/5/67
- 4 Cozen, Charles: Burn case.
- 4 Crimmins, A. J., Jr.: Hampton, VA. , 1/27/65
- 4 Criticisms of Project Blue Book. , 1967
- 4 Crooks, James W., Jr., San Diego.
- 4 Crowder, C. N., South Hill, VA. , 4/21/67
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4 Daubert, Louis: Norwich, NY 7/27/64.
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4 Davis, Mrs. E. L.: Kilgore, TX.
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4 Druffel, Ann: Correspondence, Temple City, CA photoLACKING. , 1996
4 Druffel, Ann: Yorba Linda report, photos.
4 Dunbar, W. VA: Tad Jones. , 1/67
4 Dupont Research Society Speech.
4 Earley, George W.: Bloomfield, Connecticut.
4 Early sightings: Investigated by JEM. , 1966-1969
4 Earthquake lights.
4 Earthquake phenomena.
4 Easter, Charles F.: Tucson: Photos. , 10/9/67
4 Edison Foundation talk. , 5/69
4 Edwards AFB: , 5/3/57
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4 Electromagnetic effects.
4 Electronic warfare.
4 Elmwood Park, IL. , 11/4/57
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box
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5 Fahrney, Admiral Delmar S.
5 Farmington, NM. , 3/17/50
5 Fatima.

5 Felty, Johnny.
5 File Index by JEM.
5 Fitzgerald case: Sheffield Lake, Ohio. , 9/2/58
5 Flares.
5 Flickinger: Minot, North Dakota. , 8/2/67
5 Florio, Andy: (Near Benson, AZ) Photo. , 3/30/55
5 Foo-fighter mystery.
5 Ford, Gerald A.
5 Congressman Ford, Henry II: sighting. , 4/16/68
5 Ford, Ruth E.: Lubbock, TX. , 2/6/67
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5 Fort Belvoir case: Australian "ring / cloud" photos.
5 Fort Belvoir Photos: Ring / cloud photo case. , Sept. 1957
5 Forteana.
5 Fort Monmouth. , 9/10-11/51, 2/23/65
5 Fournet, Dewey: JEM re. NICAP. , 1970
5 Fowler, Ray: Correspondence re. "coverup."
5 Fowler, Raymond E. (Massachusetts NICAP).
5 Fredrickson, Stan S.: Burley, Idaho. , 10/16/67
5 Freedom of Information Law: Witness names.
5 French UFO Groups, etc.
5 Friday Harbor. , 6/13-14/7
5 Friedman, Stanton (Westinghouse, NICAP).
5 Fringe Material.
5 Flying Saucer Review: Beyond Condon articles.
5 Fuller, John.
5 Garland, General William M.
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5 Gill, Rev. William B: Papua, New Guinea sighting. , 6/26/57
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5 Goldwater, Senator Barry.
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5 Goshen, Indiana: Manning-Adickes case. , 4/27/50
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5 Greenwell, Richard.
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5 Guy, D. A.: Springfield, IL. , 2/3/45
5 Gwodz, Capt. Joseph: SS Nantucket. , 10/7/58
5 Hall, Richard H.

box

6 Hall, Richard H.: Correspondence. , 1968-1971
6 Hall, Richard H.: Fund.
6 Hang, Edward J.: Yosemite, CA. , 8/15/64
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6 Havasu AZ: Slater, H. L.. , 3/17/69
6 Hawk, Carl: Sandia case. , 4/23/52
6 Hawks, Ray: Boulder, Colorado. , 9/11/62
6 Henderson, Gary: Earth/Space Science Laboratory.
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6 Hewes, Hayden: Interplanetary Intelligence Report.
6 Hill, Betty and Barney: Psychiatrist's statement.
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6 Hull, Capt. William J.: Mobile, Alabama. , 11/14/56
6 Hunt, Captain W. R. , 5/22/51
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6 Hypnosis and Relata.
6 Identifications: Good examples.
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6 Institute for Policy Studies.
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6 Jacksonville, Oregon: Vogel.
6 JANAP 146: AFR 200-2: AFR 80-17: Government silencing.
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6 Journal, Personal: JEM: 2nd, (35 pp.). , 4/66-6/24/67
6 Journal, Personal: JEM: 3rd (Australian trip). , 6/21-7/8/67
6 Journal, Personal: JEM: 4th, (49 pp.). , 4/28/68-3/17/71
6 Junita, PA. , 8/27/56
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6 Kalnicki, Mrs. Jean: Dorchester, Mass: Photos. , 4/23/66
6 Kassander, A. Richard: Institute of Atmospheric Physics.
6 Keel, John Kenney, David A.: Encampment, WY. , 7/6/47
6 Kerstetter, Forrest J.: West Cameron, PA. , 2/19/67
6 Keyhoe, Major Donald E.
6 Kibel, James J.
6 Killian Case. , 2/24/59
6 Kincheloe AFB: Kansas City, KS. , 9/11-12/61
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7 Lapp, Ralph.
7 Larson, June: Researcher, Washington State.
7 Laub Engineering.
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7 Leary, Thomas P.: Omaha, Nebraska.
7 Leawood, Kansas: Nicholl, Tom H. 7/3/67.
7 Leick, Mr. H.. , 11/22/66
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Series 2: Project Blue Book, 1947-1968

box

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15 Rehoboth Bomen, Delaware., June 2, 1947:
15 Weiser, Idaho. , June 12, 1947:
15 Bakersfield, California., June 14, 1947:
15 Spokane, Washington., June 21, 1947:
15 Portland, Oregon. , June 24, 1947:
15 Idaho., June 24, 1947:
15 Montgomery, Alabama., June 28, 1947:
15 Rockfield, Wisconsin., June 28, 1947:
15 30 miles NW Lake Mead, Nevada., June 28, 1947:
15 Las Cruces, New Mexico., June 29, 1947:
15 Williams AFB, Arizona., June 30, 1947:
15 S. Brooksville, ME. , July 3, 1947:

15 Mt. Jefferson, Washington., July 4, 1947:
15 Boise, Idaho., July 4, 1947:
15 Portland, Oregon., July 4, 1947:
15 Clay Center, Kansas., July 6, 1947:
15 Fairfield Suisun AFB, Calif., July 6, 1947:
15 Hickam Village, Havana., July 7, 1947:
15 Shreveport, Louisiana., July 7, 1947:
15 Muroc AFB, Calif., July 7-8, 1947:
15 Boise-Meridian, Idaho., July 9, 1947:
15 Canyon Ferry, New York., July 29, 1947:
15 Hamilton Field, California., July 29, 1947:
15 Elmendorf AFB, Anchorage, Alaska., July 11, 1947:
15 NW of Bethel, Alaska., August 4, 1947:
15 Boston, Mass., August 4, 1947:
15 Salmon Dam, Idaho., August 13, 1947:
15 Twin Falls, Idaho., August 13, 1947:
15 5 miles S. of Placerville, Calif., August 14, 1947:
15 Rapid City AFB, Weaver, South Dakota., August 15-20, 1947:
15 Twin Falls, Idaho., August 19, 1947:
15 Holloman AFB, New Mexico., August (Late) 1947:
15 Oswego, Oregon., September 3, 1947:
15 Logan, Utah., September 8, 1947:
15 Midway Island to Oahu, Beyond Necker I., September 12, 1947:
15 Ft. Richardson, Alaska., September 17, 1947:
15 Las Vegas, Nevada., October 8/9, 1947:
15 Phoenix, Arizona., October 14, 1947:
15 Xenia, Ohio., October 20, 1947:
15 Dayton, Ohio., October 20, 1947:
15 Anderson Rd., Houston, Texas., November 2, 1947:
15 40 miles N. of Cape Blanco, Oregon., November 12, 1947:
15 Northern Arizona., Mid-December 1947:
15 30 miles W. Lovelock, Nevada., December 30, 1947:
15 Wildwood, NJ., January 10, 1948:
15 Philippine Islands., April 1, 1948:
15 Asley, Ohio., April 8, 1948:
15 Montgomery, Alabama., April 9, 1948:
15 Alton, Ill. , April 11, 1948:
15 North Atlantic 62 degrees N, 33 degrees., April 18, 1948:
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15 Fairbanks, Alaska., April 18, 1948:
15 Greenville AFB, S.C., April 19, 1948:
15 Anacostia NAS, W. D.C., April 30, 1948:
15 Adapasari, Turkey., May 5, 1948:
15 Wake Island., May 6, 1948:
15 Memphis, Tenn., May 7, 1948:
15 Wilmington, N.C., May 31, 1948:

15 Galveston, Texas., June 1948:
15 Scott AFB, Ill., June 20, 1948:
15 Union Town, PA., June 29, 1948:
15 S. Knoxville, Tenn. , June 30, 1948:
15 Hecla, So. Dakota., June 30, 1948:
15 Dravesburg, PA., July 4, 1948:
15 McDeesport, PA., July 8, 1948:
15 Fielding Lake, Wash., July 9, 1948:
15 Van Nuys, Calif., July 21, 1948:
15 Altoona, PA. , July 24, 1948:
15 Chamblee, Georgia., July 26, 1948:
15 Indianapolis, Indiana., July 31, 1948:
15 Bedford, VA. , Summer 1948:
15 Marian, VA., July, August 1948:
15 Columbus, OH., August 2, 1948:
15 Moscow, USSR., August 3, 1948:
15 North Powder, Oregon., August 4, 1948:
15 Hamel, Minn., August 11, 1948:
15 Maplewood, OH., August 29, 1948:
15 San Simeon, Calif., September 18, 1948:
15 Turner AFB, Albany, GA., September 22, 1948:
15 Santa Fe, N.M., September 23, 1948:
15 San Pablo, Calif., September 23, 1948:
15 Neubiberg AFB, Munich, Germany., October 11, 1948:
15 South Bend, Indiana., October 13, 1948:
15 Crescent City, Calif., October 17, 1948:
15 Honolulu, Hawaii., October 19, 1948:
15 10 miles SW of Junction City, Kansas., October 24, 1948:
15 Fargo, ND., October 24, 1948:
15 Phoenix, Arizona., October 24, 1948:
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15 Gray's Harbor, Mich., October 30, 1948:
15 Goose Bay, Labrador., October 31, 1948:
15 Azores Isles., October 31, 1948:
15 Martha's Vineyard, Mass. , Fall, 1948:
15 10 mi. E. Vaughn, NM., November 3-4, 1948:
15 Wakkana, Japan., November 6, 1948:
15 Clark AFB, Philippines., November 12, 1948:
15 Peace River, Alberta, Canada., November 17, 1948:
15 Andrews AFB, MD., November 18, 1948:
15 Fursten-Feldbruck, Germany., November 23, 1948:
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15 Dayton, OH., December 3, 1948:
15 Fairfield-Suisun AFB, Calif. , December 3, 1948:
15 Kirtland AFB, N.M., December 6-9, 1948:
15 Chanute AFB, Ill. , December 8, 1948:

15 Pittsburgh, PA., December 9, 1948:
15 Ambridge, PA., December 17, 1948:
15 Sweden., December 30, 1948:
15 Jackson, Miss., January 1, 1949:
15 Hickam Field, Hawaii., January 4, 1949:
15 Los Alamos, NM., January 6, 1949:
15 Camp Hood, TX., March 17, 1949:
15 Camp Hood, TX., March 18, 1949:
15 Arrey, NM., April 24, 1949:
15 Tucson, AZ., April 28, 1949:
15 Ft. Bliss, TX., May 5, 1949:
15 So. Oregon., May 27, 1949:
15 Mt. Hood, Oregon., July 30, 1949:
15 Mt. Palomar, Calif., November 23, 1949:
15 2400 N. - 8520 W. Gulf of Mexico., January 12, 1950:
15 Teaticket, Mass., February 5, 1950:
15 Los Alamos, NM., February 25, 1950:
15 Vandalia, OH., March 8, 1950:
15 Selfridge AFB, Mich., March 9, 1950:
15 Little Rock, Ark. , March 22, 1950:
15 Motubu Peninsula, Okinawa., March 27, 1950:
15 Marrowbore Lake, Tenn. , March 30, 1950:
15 Kokomo, Ind. , April 1950:
15 Honshu, Japan., May 19, 1950:
15 Holloman AFB, NM., May 24, 1950:
15 Texarkana, TX. , June 27, 1950:
15 Bermuda., August 24, 1950:
15 Holloman AFB., August 30, 1950:
15 Germany. , September 8, 1950:
15 Provincetown, Mass., September 21, 1950:
15 Knoxville, Tenn. , October 12, 1950:
15 South Ruislip, England., November 10, 1950:
15 Key West, Fla., November 14-15, 1950:
15 Maxwell AFB, Alabama., November 23, 1950:
15 Knoxville, Tenn., November 29-30, 1950:
15 Oak Ridge, Tenn., December 18, 1950:
15 10 minutes NW Bulkang, Alaska., December 19, 1950:
15 Lakehurst, NJ., December 27, 1950:
15 Artesia, NM., January 16, 1951:
15 Sioux City, Iowa., January 20, 1951:
15 Oak Ridge, Tenn., January 21, 1951:
15 Westover AFB, Mass., January 24, 1951:
15 49.50 N, 50.03 W, Atlantic., February 10, 1951:
15 McClellan AFB, Calif., March 13, 1951:
15 Holloman AFB, NM., July 14, 1951 & July 9, 1951:
15 Selfridge AFB, Mich., July 30, 1951:

15 Larson AFB, Washington., August 26, 1951:
15 Matador, TX., August 31, 1951:
15 Ft. Monmouth., September 10-11, 1951:
15 Goose AFB, Labrador., September 13, 1951:
15 Michigan, Wisc., September 18, 1951:
15 Long Beach, Calif., September 23, 1951:
box
16 Kadena AFB, Okinawa., October 3, 1951:
16 Yellow Sea., October 18, 1951:
16 Battle Creek, Mich. , October 21, 1951:
16 No. Truro, Mass. , October 22, 1951:
16 Columbus, Ohio., December 22, 1951:
16 Mitchel AFB, NY., January 21, 1952:
16 Nanana, Alaska., January 22, 1952:
16 Korea., January 29, 1952:
16 Granite City, Ill. , February 13, 1952:
16 Korea., February 16, 1952:
16 No. Korea., February 24, 1952:
16 Pt. Conception, Calif. , March 24, 1952:
16 Ft. Stockton, Texas., March 26, 1952:
16 Misawa, Japan., March 29, 1952:
16 Glendale, Ariz. , April 5, 1952:
16 Duncanville, Texas., April 5, 1952:
16 Miller-Graughan AFB, Temple, Texas., April 6, 1952:
16 Shreveport La. , April 9, 1952:
16 Moriarity, N M., April 13, 1952:
16 Memphis, Tenn. , April 14, 1952:
16 Shreveport, La. , April 16, 1952:
16 Yuma, Ariz., April 17 & 18, 1952:
16 Japan., April 18, 1952:
16 Yuma, Ariz. , April 27, 1952:
16 Moriarity, NM., April 30, 1952:
16 George AFB, Calif. , May 1, 1952:
16 Atlantic Ocean., May 8, 1952:
16 George AFB, Calif. , May 9, 1952:
16 Albuquerque, NM., May 10, 1952:
16 George AFB, Calif. , May 11, 1952:
16 George AFB, Calif. , May 11, 1952:
16 George AFB, Calif. , May 14, 1952:
16 George AFB, Calif. , May 20, 1952:
16 George AFB, Calif. , May 13, 1952:
16 Washington, D.C. , May 15, 1952:
16 Randolph AFB, Texas., May 25, 1952:

16 Tierra Amarilla, NM., May 25, 1952:
16 North Korea., May 26, 1952:
16 Marrakech, Morocco., June 12, 1952:
16 March AFB, Calif. , June 18, 1952:
16 Yuma, Ariz. , June 19, 1952:
16 George AB, Labrador., June 19, 1952:
16 Marxville, Tenn. , June 21, 1952:
16 Ft. Monmouth, N J., July 1, 1952:
16 Quantico, Va. , July 10, 1952:
16 Washington, D.C. , July 13, 1952:
16 Kirksville, MD., July 13, 1952:
16 Hampton Roads, Va. , July 16, 1952:
16 Washington, D.C. , July 19, 1952:
16 Washington, D.C. , July 19-20 & July 26-27, 1952:
16 Dobbins AFB, Ga. , July 21, 1952:
16 Boston, Mass. , July 22, 1952:
16 Jamestown, Rhode Island., July 23, 1952:
16 McDill AFB, Fla. , July 23, 1952:
16 Carson Sink, Nev. , July 24, 1952:
16 Kirtland AFB, NM., July 23, 1952:
16 Yakima, Wash. , March 23, 1952:
16 McGuire AFB, NJ., July 28, 1952:
16 Port Huron, Mich. , July 29, 1952:
16 Los Alamos, NM., July 29, 1952:
16 Miami, Fla. , July 29, 1952:
16 Phoenix, Ariz. , August 4, 1952:
16 Phoenix, Ariz., August 4, 1952:
16 Tokyo, Japan., September 2, 1952:
16 Guantanamo Bay, Cuba., September 24, 1952:
16 Tsu Shima, Japan., September 28, 1952:
16 Goose AFB, Labrador., September 28, 1952:
16 Ashiya, Japan., October 15, 1952:
16 Tierra Amarilla, NM., November 8, 1952:
16 Glasgow, Mont. , November 18, 1952:
16 Wichita, Kan. , November 15, 1952:
16 White Sands, NM., November 25, 1952:
16 Goose Bay, Labrador., November 26, 1952:
16 Washington, D.C. , November 30, 1952:
16 Colorado Springs, Colo. , December 4, 1952:
16 Congares AFB, South Dakota., December 4, 1952:
16 Gulf of Mexico., December 6, 1952:
16 Angoon, Alaska., December 6, 1952:
16 Pope AFB, SC. , December 10, 1952:
16 Goose AB, Labrador., December 15, 1952:
16 Honshu, Japan., December 15, 1952:
16 Camp Carson, Colo. , December 24, 1952:

16 Japan. , December 29, 1952:
16 Hokkaido Island, Japan., December 29, 1952:
16 Craig, Mont. , January 1, 1953:
16 Dallas area, Texas., January 6, 1953:
16 Misawa, Japan., January 9, 1953:
16 Sonoma, Calif. , January 10, 1953:
16 Bergstrom AFB, Texas., January 23, 1953:
16 Moody AFB. , January 28, 1953:
16 Turner AFB, Ga..
16 Finland, Minn., February (deleted), 1953:
16 Keflavik Airport, Iceland., February 3, 1953:
16 Yuma, Ariz. , February 4, 1953:
16 Rosalia, Wash. , February 6, 1953:
16 Okinawa, Japan. , February 7, 1953:
16 Misawa, Japan. , February 10, 1953:
16 Raimer, Ala. , February 16, 1953:
16 Port Austin, Mich., February 17, 1953:
16 Charleston, W. Va. , February 25, 1953:
16 Great Falls AFB, Mont. , February 27, 1953:
16 Luke AFB, Arizona. , March 3, 1953:
16 Congares AFB & Shaw AFB, S.C., March 5, 1953:
16 Sea of Japan. , March 14, 1053:
16 Ashiya AFB, Kyushu, Japan., March 8, 1953:
16 Pork Chop Hill, Korea. , March 20, 1953:
16 Pasadena, Texas. , March 23, 1953:
16 San Antonio, Texas., March 25, 1953:
16 Rabat, Morocco. , March 25, 1953:
16 Spooner, Wisc. , March 29, 1953:
16 Honshu, Japan. , March 31, 1953:
16 Sweetwater, Nev. , April 12, 1953:
16 Manchuria., April 14, 19, 21, 23, 1953:
16 Tucson, Ariz. , April 15, 1953:
16 Calumet, Mich. Lake Superior area. , April 19, 1953:
16 Goose AFB, Labrador. , May 1, 1953:
16 Goose AFB, Labrador. , May 2, 1953:
16 Goose AFB, Labrador., May 12, 1953:
16 Goose AFB, Labrador., June 11, 1953:
16 San Antonio, Texas. , June 16, 1953:
16 Iwo Jima. , June 18, 1953:
16 Iwo Jima. , June 26, 1953:
16 Tipp City, Ohio. , July 3, 1953:
16 Offutt AFB, Neb. , July 20, 1953:
16 Rapid City, So. Dakota. , August 5, 1953:
16 Port Moresby New Guinea., August 23, 1953:
16 Palmdale, Calif. , September 28, 1953:
16 Offutt AFB, Neb. , October 13, 1953:

16 Presque Isle, Maine. , October 16, 1953:
16 North Truro, Mass. , December 3, 1953:
16 Holloman AFB, NM. , December 3, 1953:
16 Mediterranean. , December 16, 1953:
16 Kelly AFB, Texas. , January 14, 1954:
16 Nouasseur, French Morocco. , March 5-7, 1954:
16 Pittsburgh, Pa., , March 11-12, 1954:
16 Norfolk, England. , May 14, 1954:
16 Mobile, Ala. , June 30, 1954:
16 Bermuda., July 3, 1954:
16 Pepperell AFB, Newfoundland. , July 27, 1954:
16 Korea. , July 29, 1954:
16 Houston, Texas. , October 5, 1954:
16 Tinker AFB, Okla., October 23, 1954:
16 New Orleans, La. , November 16, 1954:
16 Spanish Morocco. , December 2, 1954:
16 Nogales, Ariz. , December 23, 1954:
16 Tokyo, Japan. , March 20, 1955:
16 Soledad & Sonoma, Calif. , March 29, 1955:
16 Dahlgren, Va. , April 28, 1955:
16 Duluth, Minn. , May 13, 1955:
16 China Lake, Calif. , July 1, 1955:
16 Newfoundland, Canada., July 5, 1955:
16 Mulberry Corners, Ohio. , July-August 1955:
16 Forland, Missouri., August 25, 1955:
16 Knoxville, Texas., October 19, 1955:
16 Minneapolis, Minn., October 20, 1955:
16 St. Louis, Missouri. , November 17, 1955:
16 Marianna, Fla.. , December 6, 1955:
16 Caddo Lake, La.. , December 13, 1955:
16 Laguna, Calif.. , December 17, 1955:
16 Wurtsmith AFB, Mich.. , January 11, 1956:
16 Wheelus AFB, Morocco., January 24, 1956:
16 Wheelus AFB, Morocco. , January 24, 1956:
16 Camp Irwin, Calif., February 2, 9, 21, 1956:
16 Kessler AFB, Miss., February 7, 1956:
16 Goose Bay, Labrador. , February 12, 1956:
16 Spokane, Wash.. , March 3, 1956:
16 A/V Sighting between Schenectady & Oswego, NY., April 8, 1956:
16 Aliquippa, Pa.. , May 8, 1956:
16 50 mi. NW of Monroe, La.. , May 22, 1956:
16 Banning, Calif.. , June 6, 1956:
16 Scattered points/So. Calif., LA to San Diego., June 29, 1956:
16 Euclid, Ohio. , July 6, 1956:
16 Westover AFB, Mass.. , July 17, 1956:
16 Dallas, Texas. , August 10-11, 1956:

16 SSW Spragueville, Maine. , August 17, 1956:
16 North Bend, Ore.. , August 20, 1956:
16 Bornholm, Denmark., August 22, 1956:
16 Essex, England. , October 9, 1956:
16 Wheelus AB, Libya., October 18, 1956:
16 Point Arena, Calif.. , November 4, 1956:
16 El Toro, Calif.. , November 11-12, 1956:
16 Itazuke, AB, Japan. , December 17, 1956:
16 Las Cruces, NM. , February 7, 1957:
16 Marrero, La.. , February 13, 1957:
16 Lincoln AFB, Neb.. , February 13, 1957:
16 Tierra Amarilla, NM. , February 13, 1957:
16 Castle AFB, Calif.. , February 27, 1957:
16 Castle AFB, Calif.. , February 27, 1957:
16 Point Mugu, Calif.. , March 22, 1957:
16 Oxnard, Calif.. , March 23, 1957:
16 Houma, La.. , May 29, 1957:
16 Detroit, Mich.. , May 30, 1957:
16 Shreveport, La., June 3, 1957:
16 McChord AFB, Wash.. , June 14, 1957:
16 Las Vegas, Nev.. , July 16, 1957:
16 Mt. Lemmon AFB, Tucson, Ariz.. , July 18, 1957:
16 Northern California., August 3, 1957:
16 Cambria AFS, Calif.. , August 22-23, 1957:
16 Cambria AFS, Calif.. , August 22-23, 1957:
16 Dry Tortugas, Fla.. , August 27, 1957:
16 Tulsa, Okla.. , September 12, 1957:
16 Mantauk, N.Y. Benton, Penn.. , September 20, 1957:
16 Mildenhall, England., October 19, 1957:
16 Wiesbaden, Ga.. , October 22, 1957:

box

17 Canadian, Texas. , November 2, 1957:
17 White Sands, NM. , November 3, 1957:
17 Oro Grande, NM. , November 4, 1957:
17 Long Beach Airport, Calif. , November 5, 1957:
17 Eglin AFB, Fla., November 5, 1957:
17 Montsville, Ohio., November 6, 1957:
17 Kagohima, Japan. , November 6, 1957:
17 Laredo AFB, Texas., November 6, 1957:
17 Whitman AFB, Missouri. , November 6, 1957:
17 Harlingen AFB, Texas., November 7, 1957:
17 Rothwesten, Germany. , November 14, 1957:
17 Houm, Alabama. , November 21, 1957:
17 Joliet, Ill.. , November 23, 1957:
17 Eglin AFB, Fla., November 25, 1957:
17 West Mesa AFB, NM. , November 26, 1957:

- 17 Minot, No. Dakota. , November 30, 1957:
- 17 Guthrie, W. Va.& Parkersburg, W. Va., December 11, 1957:
- 17 Lake City AFS, Tenn., December 11, 1957:
- 17 Misawa Chitose-Hokkaido, Japan. , December 12-15, 1957:
- 17 Pepperrell AFB, Newfoundland., December 19, 1957:
- 17 Sea of Japan. , December 23, 1957:
- 17 SW Libya. , January 4, 1958:
- 17 Biggs AFB, El Paso, Texas. , January 9, 1958:
- 17 Bering Sea Area. , January 11, 1958:
- 17 Bering Sea. , January 14, 1958:
- 17 W. of Wake Island., February 13, 1958:
- 17 Glenwood, Newfoundland. , February 25, 1958:
- 17 Gander AFB, Newfoundland., February 25, 1958:
- 17 Flagstaff, Ariz. & Templehof, Germany., May 3, 1958, May 28, 1958
- 17 Pueblo, Colo. & Malstrom AFB, Montana., June 14, 1958, August 4, 1958:
- 17 Osel Island & Gulf of Finland., August 11, 1958:
- 17 Warren, Mich., August 17, 1958:
- 17 Gray AFB, Killeen, Texas. , August 30, 1958:
- 17 Wheelus AFB, Tripoli, Libya., September 1, 1958:
- 17 19.03 N, 68.56 W, Atlantic.b, September 5, 1958:
- 17 Miles City AFS, Ellsworth AFB, SD, 12 mi. S of Minot, ND., September 7, 1958:
- 17 Wheelus AFB, Libya. , September 14, 1958:
- 17 Sheffield Lake, Ohio. , September 21, 1958:
- 17 Kindley AFB, Bermuda., September 23, 1958:
- 17 Laredo, Texas. , October 11, 1958:
- 17 Troy Peak & Tonopah Airport, Nev., November 13, 1958:
- 17 Montauk AFB, NY., November 19, 1958:
- 17 Grand Bahama Island, West Indies., March 10, 1959:
- 17 Duluth, Finland, Minn., March 12, 1959:
- 17 Duluth, Minn.. , March 13, 1959:
- 17 Duluth, Minn.. , March 13, 1959:
- 17 Ellsworth AFB, So. Dakota . , March 14, 1959:
- 17 Ann Arbor, Mich.. , March 22, 1959:
- 17 No. Montana. , March 25, 1959:
- 17 Corsica, Penn., March 26 or 27, 1959:
- 17 Antigo & Madison, Wisc.. , April 13, 1959:
- 17 Pease AFB, N.H.. , May 2, 1959:
- 17 Offut AFB, Nebraska. , May 13, 1959:
- 17 Philadelphia, Penn.. , May 14, 1959:
- 17 Greenbush, Kansas. , May 18, 1959:
- 17 8 mi. E of Rapid City, So. Dakota. , May 21, 1959:
- 17 Genoa, Italy. , June 3, 1959:
- 17 Manassas, Roanoke, Va., June 9, 1959:
- 17 WSE of Meridian, Miss.. , June 16, 1959:
- 17 33.05 N, 134 W, Pacific. , June 18, 1959:
- 17 Forest Park, Ill.. , June 18, 1959:

- 17 Stephenson, Mich, Sault Ste. Marie., June 18, 1959:
- 17 Enon, Ohio. , June 18, 1959:
- 17 Lyons, Colo.. , June 18, 1959:
- 17 Eamonton, Alberta, Canada., June 18, 1959:
- 17 South of Macao, China., June 21, 1959:
- 17 South of Taegu, Korea. , June 25, 1959:
- 17 Dunville, Va.. , June 27, 1959:
- 17 Patuxent River NAS, Maryland., June 30, 1959:
- 17 Needles, Calif.. , July 3, 1959:
- 17 Bahamas., July 9, 1959:
- 17 North Pacific, Hawaii., July 11, 1959:
- 17 New Delhi, India. , July 14, 1959:
- 17 Irendequoit, NY. , July 25, 1958:
- 17 Corpus Christi, Texas. , July 28, 1959:
- 17 East of Florida. , July 28, 1959:
- 17 Washington, DC. , August 2, 1959:
- 17 Silver Springs, Maryland., August 3, 1959:
- 17 Macon and Forsyth, Ga.. , August 16, 1959:
- 17 80 mi East of U.S.. , August 19, 1959:
- 17 Charlotte Island., Canada. , August 28, 1959:
- 17 Haha, Okinawa. , September 5, 1959:
- 17 Wallingford, Ky., September 7, 1959:
- 17 Camp Kinser, Okinawa. , September 10, 1959:
- 17 Gills Rock, Wisc., September 13, 1959:
- 17 Bunker Hill AFB, Ind.. , September 13, 1959:
- 17 Kadena, Okinawa., September 15, 1959:
- 17 Lincoln, NH. , September 20, 1961:
- 17 Redmond, Ore.. , September 24, 1959:
- 17 Seattle, Wash.. , October 2, 1959:
- 17 Philippines. , October 4, 1959:
- 17 Lincoln, Nebr.. , October 6, 1959:
- 17 Washington, Ga.. , October 12, 1959:
- 17 North of Langley AFB, Va.. , October 19, 1959:
- 17 Warsaw, NY. , October 21, 1959:
- 17 Loring AFB, Maine area ., October 22-23, 1959:
- 17 Toccoa, Ga.. , October 26, 1959:
- 17 Montauk AFS: Long Island, NY. , November 5, 1959:
- 17 Southern Victoria Island, Canada., December 18, 1959:
- 17 West of Albuquerque, NM. , December 23, 1959:
- 17 Canada, Montana, North Dakota. , May 7, 1960:
- 17 Pacific Ocean. , June 4, 1960:
- 17 Ridgecrest, Calif., September 10, 1960:
- 17 Ridgecrest, Calif.. , September 10, 1960:
- 17 Susanville, Calif.. , September 19, 1960:
- 17 Kirksville AFS, Missouri. , September 20, 1960:
- 17 SE of Farmington, NM., September 20, 1960:

17 Midway Isles. , September 25, 1960:
17 Kirksville, Missouri., September 28, 1960:
17 19.48 N. 73.40 W. Atlantic. , January 10, 1961:
17 Wichita Falls, Kansas., January 10. 1961:
17 36.35 N. 67.45 W. Atlantic. , February 16, 1961:
17 Misawa AB, Japan., February 23, 1961:
17 Tyndall AFB, Fla.. , February 26, 1961:
17 Yuma, AZ. , February 27, 1961:
17 Bark River, Mich.. , February 27, 1961:
17 Herndon, VA. , February 27, 1961:
17 Waverly AFB, Iowa. , February 28, 1961:
17 Ephrata, Wash. , March 3, 1961:
17 RAF Station, Upper Heyford, Eng. , March 10, 1961:
17 Guard Island, AK. , March 13, 1961:
17 Ft. Pierce, Fla., March 23-29, 1961:
17 Cape Canaveral, Fla. , April 11, 1961:
17 Far East. , April 14, 1961:
17 Hanna City AFS, IL. , April 20, 1961:
17 Indian Springs, NV. , May 11, 1961:
17 Maxwell AFB, Ala. , May 20, 1961:
17 Tyndall AFB, Fla. , May 22, 1961:
17 Maxwell AFB, Ala. , May 22, 1961:
17 Tampa, Fla. , June 2, 1961:
17 Pacific Ocean. , June 25, 1961:
17 Kemah, TX. , Spring !961:
17 Copemish, Mich. , July 7, 1961:
17 Golden, Colo. , July 10, 1961:
17 Houston, TX. , July 20, 1961:
17 Albuquerque, NM. , September 2, 1961:
17 Cape Canaveral, Fla. , September 7, 1961:
17 Pacific Coast. , September 27, 1961:
17 Las Vegas, Nev. , September 30, 1961:
17 Arlington Heights, Ill. , November 7, 1961:
17 Oldtown, Fla. , November 21, 1961:
17 Washington DC. , December 13, 1961:
17 Kirksville, Missouri., January 22, 1962:
17 Winnemucca AFB, Nevada. , February 12, 1962:
17 Ramstein, Germany., March 26, 1952:
17 Goose Bay Labrador. , April 2, 1962:
17 220.2 N. 160.4 W. Kunia, Hawaii., April 12, 1962:
17 Nellis AFB Nevada., April 18, 1962:
17 Marksville, Leesville, Colfax, LA., May 19,1962:
17 Albuquerque, NM. , May 24, 1962:
17 Hallett Station, Antarctica., June 7, 1962:
17 Indianapolis, Indiana., June 21, 1962:
17 Bermuda. , August 18, 1962:

17 Farmington, Utah., October 23, 1962:
17 Louisiana, Arkansas, Texas., March 6, 1963:
17 Meridian, Idaho., October 23, 1963:
17 APO 253, France., December 6-7, 1963:
17 Fallon AFS: Nevada. , April 17, 1964:
17 Las Vegas, Nevada. , April 26, 1964:
17 La Madera, NM. , April 26, 1964:
17 Minot AFB, N. Dakota. , April 28, 1964:
17 Millinocket, Maine. , May 24, 1964:
17 Cambridge, Mass. , May 26, 1964:
17 Cape Guardian, MO. Jackson, Miss., Belleville., July 10, 1964:
17 S. Houghton Lake, Mich. , July 16, 1964:
17 Langley AFB, Virginia. , July 24, 1954:
17 18.10 N. 66.12 W. Atlantic., November 16-24, 1964:
17 34.55 N. 164.05 E. Pacific Ocean., Ocean November 19, 1964:
17 Baker, Oregon. , December 4, 1964:
17 Harrisonburg, VA., December 21, 1964:
17 Patuxent River, MD. , December 29, 1964:
17 Williamsburg, VA. , January 23, 1965:
17 Alaska. , January 24-28, 1965:
17 Keesler AFB, Mississippi. , April 4, 1965:
17 Misawa AFB, Japan., April 10-14, 1965:
17 Turkey. , June 8 - 9, 1965:
17 Frankfurt, Germany. , June 29, 1965:
17 Antarctic & Arlington, TX., July 3, 1965, July 6, 1965:
17 Penn. and Ohio. , July 13, 1965:
17 Forbes AFB, Kansas., July 22, 1965:
17 Oklahoma. , July 31-August 3, 1965:
17 Ent AFB, Colo. , August 1, 1965:
17 Cocoa, Fla. , August 3, 1965:
17 Chicago, IL. , August 5, 1965:
17 Whiteman AFB, MO., August 1-2, 1965:
17 Plattsburg, NY. , August 20, 1965:
17 Glasgow AFB, Mont., August 28, 1965:
17 Urbana, OH. , August 30, 1965:
17 Nevada. , August 31, 1965:
17 Clover, Minn. , September 22, 1965:
17 Rodeo, NM. , September 25, 1965:
17 Licking County, OH., September 26, 1965:
17 Swanlake, NY. , September 27, 1965:
17 Anderson AFB, Guam. , October 1965 - June 27, 1966:
17 Edwards AFB, CA. , October 7, 1965:
17 Sawyer AFB, Mich., October 14, 1965:
17 Truax Field, WI. , March 25, 1966:
17 Charleston WV. , May 4, 1966:
17 Goodfellow AFB, TX. , May 7, 1966:

- 17 Danang, Vietnam. , August 23, 1966:
- 17 Carpio, ND. , August 24, 1966:
- 17 Finland AFS, Minn. , September 5, 1966:
- 17 Suffolk County AFB, NY. , September 6, 1966:
- 17 Franklin Springs, NY., September 9, 1966:
- 17 Wilmington, OH., September 28, 1966:
- 17 Cold Bay, Alaska. , October 26, 1966:
- 17 Saginaw, Minn. , November 8, 1966:
- 17 Monroe, Ore., December 25, 1966:

box

- 18 Charleston, SC. , January 16, 1967:
- 18 Odessa, Delaware. , February 9, 1967:
- 18 Grand Rapids, Mich. , February 12, 1967:
- 18 Striughton, Wisc. , February 16, 1967:
- 18 Oxford, Wisc. , February 20, 1967:
- 18 Glasgow AFB, Montana. , February 23, 1967:
- 18 Benton Harbor, Mich., March 6, 1967:
- 18 Onawa, Iowa. , March 9, 1967:
- 18 Wapello, Iowa. , March 22, 1967:
- 18 Belt, Mont. , March 24, 1967:
- 18 New Winchester, OH., March 26, 1967:
- 18 Houma, LA. , April 10-11, 1967:
- 18 Lizelia, Mississippi., July 10, 1967:
- 18 Kernville, CA. , July 30-31, 1967:
- 18 Kincheloe AFB, Mich., September 11, 1967:
- 18 Lake Charles, LA. , October 18, 1967:
- 18 Redlands, CA. , February 4, 1968:
- 18 Groveton, MO. , February 9, 1968:
- 18 Amarillo, TX. , March 6, 1968:
- 18 Nielson AFB, Alaska. , July 11, 1968:

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- 18 #2: CSI Newsletter. , 12/56-11/57
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- 18 #5: Lists of Combined and Omitted Paged from Blue Book Status .Reports #8-12, and full copies of these reports.
- 18 #6: "Miscellaneous Notes - Miscellaneous." Preliminary outline of book JEM planned to write rebutting the Condon Report. Material includes "File Index" of subjects; after alphabetized tabs are case notes and references on many of these subjects.
- 18 #1: Lists of Projects Sign, Grudge, Blue Book sightings, , radar events. , 1948-1953
- 18 #2: Lists of Project Blue book sightings. , 1954-1958
- 18 #3: Lists of Project Blue Book sightings - , 1966-1969
- 18 #4: Lists of Air Force-investigated sightings Plus over 200 typed case summaries. , 24 June 1947 - July 4, 1949

- 18 #5: Project Grudge Analysis by Leon Davidson: on Ball lightning; miscellaneous information.
- 18 #1: USAF Information, including AF Regulation No. 80-17, GEOREF; Maps; PDO account numbers; AF Bases & Stations, etc.
- 18 #2: Blue Book cases not reproduced in NICAP edition, but collected by JEM; Project Sign notes; list of significant Grudge cases; Miscellaneous correspondence, etc.
- 18 #3: Case summaries; typed text of articles; typed text of letters sent elsewhere.
- 18 #4: Typed case summaries; re-typed articles.
- 18 #5: "Case Notes." Handwritten and typed notes on various sightings, alphabetized. "Cruttwell Report," ; Papua, New Guinea: Father Gill sighting. , March 1960
- 18 #1: Miscellaneous articles, newsletters, correspondence.
- box
- 19 #2: Correspondence from UFO propulsion theorists; visionaries, prophets, pseudoscientists; astrologers.
- 19 #3: Miscellaneous UFO softcover books: UFO Evidence: UFOs A New Look: Symposium on Unidentified Flying Objects, etc. , July 29th, 1968
- 19 #4: NICAP Mass. Investigating Subcommittee (Chairman, Ray Fowler).
- 19 #5: NICAP Mass. Investigating Subcommittee (Chairman, Ray Fowler).
- 19 #6: Unanswered letters: Pseudo-science; kooks, etc.
- 19 #7: Condon Report controversy; Colorado U. clips; reprints of JEM talks: Correspondence with U. Thant & AIAA; George Kocher correspondence, sighting reports; Dave H. Rowe correspondence; Dexter-Hillsdale notes, clippings.
- 19 #8: ITT Research Institute; David Lowe photographs; copies of newsclips; Vandenberg AFB telephone directory, Nov. 1968; microwaves on birds; miscellaneous notes for talks; perpetual calendar; astronomical ephemeris.
- 19 Computer printout of requested Blue Book Reports. , 1904-1967

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- 20 Final Report on the Scientific Study of Unidentified Flying Objects, Dr. E. U. Condon, Director, Volumes 1-3, all annotated by JEM.
- 20 The UFO Evidence, edited by Richard H. Hall, (annotated by JEM). , 1964
- 20 Report on the UFO Wave of 1947, Ted Bloecher. , 1967
- 20 Flying Saucers Analysis of Blue Book Special Report #14, by Leon Davidson.
- 20 Science and the UFOs, National Amateur Astronomers. , 1969
- 20 UFOS: a new look, edited by Keyhoe and Lore. , 1969
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- 22 18 JEM slides (NICAP) and Grindstone cloud.

- 22 19 JEM assistant slides including NASA photos AF photo.
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- box
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- 31 LP Record (33 1/3) record: CBC Radio-Canada, Documentary series on UFOs.
- 31 Sony Tape Recorder/Case (for use on reel-to-reel tapes).
- 31 Two (2) samples of scorched earth from reported UFO landing site, South Hill, Virginia, Also one control sample., 4/21/67.
- 31 White Looseleaf Notebook: Lists of tapes, transcriptions; contents of hard cover notebooks, large books, brown file boxes; inventory of photos.
- box
- 32 Miscellaneous files. , 1960-1962
 - Box 32 contents: files related to Titan Missiles, including The Committee Against Ringing Tucson with Titans. Includes correspondence, minutes, articles, and printed materials relating to McDonald's activities to protest the placement of intercontinental ballistic missile base in the Tucson area.
- box
- 33 Miscellaneous files. , 1970-1971
 - Box 33 contents: files relating to the debate on the environmental effects of supersonic transports, includes his statement before the House Subcommittee on Transportation Appropriations concerning the transport program.

Subgroup 2: General Research Files, 1953-1997

Series I: Research Files, 1953-1997

- box
- 34 Absorption Data - water and ice.

- 34 Absorption of solar radiation by water vapor.
- 34 Acoustics.
- 34 Aerodynamics.
- 34 Air pollution.
- 34 Air pollution - pre 1950 clippings.
- 34 Air pollution - Arizona (2 folders).
- 34 Air pollution - Arizona - Tucson Daily Citizen.
- 34 Air pollution - Pima County. , 1969
- 34 Air pollution - Phoenix and non-Tucson Arizona.
- 34 Air pollution - Tucson.
- 34 Air pollution - mining .
- 34 Air pollution - sulfur dioxide.
- 34 Air pollution - Los Angeles and other California .
- 34 Aircraft performance and effects on atmos..
- 34 Aircraft - airport sequenced approach lights.
- 34 Aircraft - cabin depressurization effect.
- 34 Aircraft - Jettisoning of fuel.
- 34 Aircraft - shock waves on wings.
- 34 Airglow - astronomy.
- 34 Arctic.
- 34 Arid land - colloquium climatology.
- 34 Arid land - Rockefeller .
- 34 Arid zone climatology .
- 34 Astronomy.
- 34 Selected astronomical data.
- 34 Aurora. , September 22-23 1957
- 34 Balloon, near flight records.
- 34 Balloon dynamics.
- 34 Balloon inflation back-pressures.
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- 35 Banner clouds.
- 35 Biology, cellular.
- 35 Bomb phenomena.
- 35 Bomb phenomena - other than fallout.
- 35 Brown Mountain Lights.
- 35 Brownian movement - history.
- 35 Calendar.
- 35 Carbon 14 and Carbon Dioxide.
- 35 Carbon monoxide.
- 35 Chemistry and composition of the atmosphere.
- 35 CAT - Clear Air Turbulence.
- 35 Climatology - general.
- 35 Climatology - pre 1950 clippings.
- 35 Climatology - Pleistocene Age.
- 35 Climatology - Pleistocene.
- 35 Climatology - Paleoclimatology.

- 35 Climatology - Paleoclimatology pre 1950 clippings.
- 35 Climatology - Homogeneity of Records.
- 35 Climatology - Arizona cloud cover study. , 1957-1958
- 35 Climatology - Arizona Arizona seasonal precip. Data.
- 35 Climatology - Arizona diurnal variation of precip.
- 35 Climatology - Arizona precip. double mass study.
- 35 Climatology - Arizona precip. correlation studies.
- 35 Climatology - Arizona precip. length of record study.
- 35 Climatology - Arizona precip. 10 year moving averages.
- 35 Climatology - Arizona winter precip.
- 35 Climatology - Arizona precip frequency distribution of amounts.
- 35 Climatology - Arizona precip tetrachoric correlation test.
- 35 Climatology - Arizona diurnal variation of mixing ratio.
- 35 Climatology - Arizona mountain precip. storage.
- 35 Climatology - Arizona precipitable water.
- 35 Climatology - Arizona winter wind directions.
- 35 Climatology - data Mexico.
- 35 Climatology - data precipitation deck notes.
- 35 Climatology - data analysis effects of inhomogeneity .
- 35 Climatology - desert precipitation rates.
- 35 Climatology - Southwest secular precip. trends.
- 35 Climatology - Southwest secular precip. trends.
- 35 Climatology - Western U.S. precip - 10 year moving ave.
- box
- 36 Climatology - U.S. mean mixing ratios
- 36 Climatology - U.S. rel. humidity - time x-sections.
- 36 Climatology - U.S. monthly mean relative humidity.
- 36 Climatology - U.S. mean precipitable water distrib.
- 36 Climatology - U.S. temp. precip. relations, wettest vs. driest.
- 36 Climatology - U.S. precip. seasonal and annual variability.
- 36 Climatology - U.S. precipitation efficiency.
- 36 Climatology - U.S. - mixing ratio - cross-section of Southern U.S.
- 36 Climatology - U.S. precipitable water.
- 36 Climatology - U.S. upper level anticyclone.
- 36 Climatic models.
- 36 Climate modification.
- 36 Climate modification inadvertent (2 folders).
- 36 Climate modification inadvertent, La Porte Anom.
- 36 Cloud condensation level local observ.
- 36 Cloud modification rainmaking pre 1950s clippings.
- 36 Cloud photogrammetry K-17, misc. notes.
- 36 Cloud photogrammetry K-17 IBM data.
- 36 Cloud photogrammetry K-17 calibration.
- 36 Cloud physics, general.
- 36 Cloud photographs, pre 1950's clippings.
- 36 Cloud photographs.

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- 36 Cloud seeding - misc.
- 36 Cloud seeding reports - misc.
- 36 Cloud seeding Arizona.
- 36 Cloud seeding Arizona - Flagstaff.
- 36 Cloud seeding Australian experiments.
- 36 Cloud seeding benefit/cost ratio.
- 36 Cloud seeding - California Kern County.
- 36 Cloud seeding Quakers - Bosco.
- 36 Cloud seeding Jeffery.
- 36 Cloud seeding Quakery - Krick.
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- 37 Cloud seeding carbon black (2 folders).
- 37 Cloud seeding dry ice.
- 37 Cloud seeding and ecology.
- 37 Cloud seeding evolution and statistics.
- 37 Cloud seeding - fringe cases and quakery.
- 37 Cloud seeding.
- 37 Cloud seeding - Elliott North American Weather Cons.
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- 38 Condensation nuclei observation and measurement.
- 38 Condensation due to dynamic effects.
- 38 Condensation criterion .
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- 38 Deliquescence and hydrates.
- 38 Deposition paper.
- 38 Desalination.
- 38 Desert.
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- 38 Diffusion, atmospheric long range transport.
- 38 Diffusion coefficient - compensated.
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- 38 Diffusional growth of drops in an updraft.
- 38 Diffusional growth of drops - Langmuir.
- 38 Diffusional growth of particles.
- 38 Diffusional growth of ice droplets.
- 38 Diffusional growth of ice crystals.
- 38 Distribution functions.
- 38 Drag - parachutes - dynamics.
- 38 Drop breakup.
- 38 Drop physics.
- 38 Drop production by artificial means

- 38 Drop shape.
- box
- 39 Drop size distributions covering fraction theory.
- 39 Drop size measurements spattering.
- 39 Drop size distribution measurement of.
- 39 Droplets, very small diam <2m..
- 39 Droughts.
- 39 Dust devils.
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- 39 Dust - stratospheric.
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- 39 Ecology, food and population problems.
- 39 Ecology - pesticides.
- 39 Electricity of the atmosphere.
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- 39 Energetics.
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- 39 Evaporation kinetic model.
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- 39 Evaporation - precipitation fallacy.
- 39 Evaporation - precipitation ratio.
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- 39 Explosion physics.
- 39 Fall velocity of drops and snow crystals.
- 39 Fall velocity of spheres.
- 39 Fall velocity of small particles.
- 39 Fall velocity of small particles - Facy Effect.
- 39 Fallout Met.
- 39 Filters, Millipore.
- 39 Fire.
- box
- 40 Fog.
- 40 Fog dispersal pre 1950 clippings.
- 40 Fog - ice fog.
- 40 Fog, numerical modeling of fog.
- 40 Fog, steam.
- 40 Fog - drip; collection of fog droplets by plants.
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41 Ice crystals in clouds.
41 Ice crystals, capacitance.
41 Ice - fall.
41 Ice crystal growth in water.
41 Ice crystals iridescence.
41 Ice physical properties.

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- 41 Indirect sensing inversion methods.
- 41 Infrared radiation remote sensing.
- 41 Infrared radiation - misc.
- 41 Infrared absorption.
- 41 Infrared absorption by H₂O - Kew Chart.
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- 41 Infrared radiation - diurnal variability of down coming flux.
- 41 Infrared exchanges in clouds.
- 41 Infrared emissivity of water.
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- 46 Solar Energy Project IAP.
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51 Russian X lotion project (?).
51 Russian literature.
51 Physics of Fluids.
51 Pedagogy.

51 Research notes.

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Box 52 contents : pamphlets, handbooks, manuals

52 PSU Cld Dvn (brown binder).
52 Weather Manual for Pilots.
52 The Feasibility of a Global Observation and Analysis Experiment.
52 Gedenkschrift R. Sanger.
52 PA Houghton (lecture notes).
52 Ground Layer Temperature Inversions in an Interior Valley and Canyon.
52 Photochemistry of Polluted Atmospheres.
52 Hydrocarbon Emissions from Automobiles.
52 Seventh Technical Progress Report.
52 Air Pollution Measurements of the National Air Sampling Network.
52 State of California Motor Vehicle Pollution Control Board.
52 Air Pollution...A National Problem.
52 National Goals in Air Pollution Research.
52 California Standards for Ambient Air and Motor Vehicle Exhaust.
52 The Heat Balance of the Earth's Surface.
52 Our Nation and the Sea.
52 Digest of Municipal Air Pollution Ordinances.
52 The Physical State of the Upper Atmosphere.
52 Report Submitted to the Trail Smelter Arbitral Tribunal.
52 Air Quality Criteria for Particulate Matter.
52 Air Quality Criteria for Sulfur Oxides.
52 Air Over Cities.
52 FAA, Instrument Flying Handbook
52 National Conference on Air Pollution - Proceedings.
52 Evaluation Conference, Project Skywater proceedings: Skywater Conference II.
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53 Howell Thesis, Drop Growth.
53 Hangen Thesis MIT, Mil Absorption. , 1/21/59
53 Fritz's Thesis. , 1959
53 Hendrickson, Mass Transfer to Drops.
53 LaNer J Serdin, Mil Theory.
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53 Wimbush, M.H., Optical Astronomical Seeing: A Review. , 5/5/69
53 O.F. Barns, Cloud Observing.
53 U. Nakaya, Frost Heaving.
53 Phillips, Iowa.
53 U. Nakaya, Natural Snow.
53 Sherlock.
53 Yuma Test Station.
53 Unnamed (Kodak canister).
