

# Records and Trophies

■ 2003 USAF Almanac

## Absolute Aviation World Records

*The desirability of a standard procedure to certify air records was recognized early in the history of powered flight. In 1905, representatives of Belgium, France, Germany, Great Britain, Italy, Spain, Switzerland, and the US met in Paris to form the Federation Aeronautique Internationale, the world body of national aeronautic sporting interests. The FAI today comprises the national aero clubs of 77 nations and certifies*

*national records as world records. Since 1922, the National Aeronautic Association, based in Arlington, Va., has been the US representative to the FAI. The NAA supervises all attempts at world and world-class records in the United States. Absolute world records are the supreme achievements of all the records open to flying machines.*

**Speed around the world, nonstop, nonrefueled:** 115.65 mph (186.11 kph). Richard G. Rutan and Jeana L. Yeager in *Voyager* experimental aircraft at Edwards AFB, Calif., Dec. 14–23, 1986.

**Great circle distance without landing:** 24,986.727 miles (40,212.139 kilometers). Richard G. Rutan and Jeana L. Yeager in *Voyager* at Edwards AFB, Calif., Dec. 14–23, 1986.

**Distance in a closed circuit without landing:** 24,986.727 miles (40,212.139 kilometers). Richard G. Rutan and Jeana L. Yeager in *Voyager* at Edwards AFB, Calif., Dec. 14–23, 1986.

**Altitude:** 123,523.58 feet (37,650.00 meters). Alexander Fedotov flying E-266M, a modified MiG-25, at Podmoskovnoye, USSR, Aug. 31, 1977.

**Altitude in an aircraft launched from a carrier airplane:** 314,750.00 feet (95,935.99 meters). USAF Maj. Robert M.

White flying North American X-15 No. 3 at Edwards AFB, Calif., July 17, 1962.

**Altitude in horizontal flight:** 85,068.997 feet (25,929.031 meters). USAF Capt. Robert C. Helt (pilot) and USAF Maj. Larry A. Elliott (RSO) in Lockheed SR-71A Blackbird at Beale AFB, Calif., July 28, 1976.

**Speed over a straight course:** 2,193.16 mph (3,529.56 kph). USAF Capt. Eldon W. Joersz (pilot) and USAF Maj. George T. Morgan Jr. (RSO) in Lockheed SR-71A Blackbird at Beale AFB, Calif., July 28, 1976.

**Speed over a closed circuit:** 2,092.294 mph (3,367.221 kph). USAF Maj. Adolphus H. Bledsoe Jr. (pilot) and John T. Fuller (RSO) in Lockheed SR-71A Blackbird at Beale AFB, Calif., July 27, 1976.



*Launched from a B-52 mothership, X-15 test pilot Maj. Robert M. White flew to a world record-setting altitude of more than 59 miles in 1962.*

# The Robert J. Collier Trophy

*This award, presented by the National Aeronautic Association, is the most prestigious in American aviation. It recognizes the "greatest achievement in aeronautics or astronautics in America, with respect to improving the performance, efficiency, and safety of air or space vehicles, the value of which has been thoroughly demonstrated by actual use during the*

*preceding year." The award is named for a prominent publisher, sportsman, and aviator. Collier, the first person to purchase a Wright airplane for personal use, commissioned the trophy and presented it to the Aero Club of America (the forerunner of the NAA) in 1911.*

- |         |  |      |  |
|---------|--|------|--|
| 1911    | <b>Glenn H. Curtiss.</b> Hydro-aeroplane.  | 1955 | <b>William M. Allen, Boeing Airplane Co., Gen. Nathan F. Twining, US Air Force.</b> B-52 bomber.   |
| 1912    | <b>Glenn H. Curtiss.</b> Flying boat.  | 1956 | <b>Charles J. McCarthy; Chance-Vought Aircraft; Vice Adm. James S. Russell; US Navy Bureau of Aeronautics.</b> F8U Crusader.   |
| 1913    | <b>Orville Wright.</b> Automatic stabilizer.   | 1957 | <b>Edward P. Curtis.</b> "Aviation Facilities Planning" report. <b>USAF/Lockheed/GE F-104 team.</b> F-104.   |
| 1914    | <b>Elmer A. Sperry.</b> Gyroscopic control.  | 1958 | <b>Clarence L. Johnson,</b> airframe design; <b>Neil Burgess, Gerhard Neumann,</b> J79 turbojet engines; <b>Maj. Howard C. Johnson,</b> landplane altitude record; <b>Capt. Walter W. Irwin,</b> straightaway speed record.              |
| 1915    | <b>W. Sterling Burgess.</b> Burgess-Dunne hydro-aeroplane.   | 1959 | <b>USAF, General Dynamics-Convair, Space Technology Laboratories.</b> Atlas ICBM.  |
| 1916    | <b>Elmer A. Sperry.</b> Drift indicator.   | 1960 | <b>Vice Adm. William F. Raborn.</b> Polaris ballistic missile.   |
| 1917-20 | <b>No award.</b>   | 1961 | <b>A. Scott Crossfield, Cmdr. Forrest Petersen, Joseph A. Walker, Maj. Robert M. White.</b> X-15 test flights.   |
| 1921    | <b>Grover Loening.</b> Aerial yacht.   | 1962 | <b>Lt. Col. John H. Glenn Jr. (USMC), Cmdr. Walter M. Schirra Jr., Cmdr. Alan B. Shepard Jr., Lt. Cmdr. M. Scott Carpenter, Maj. L. Gordon Cooper, Maj. Virgil I. Grissom, Maj. Donald K. Slayton.</b> Pioneering US manned spaceflight. |
| 1922    | <b>US Air Mail Service.</b> One year without fatality.   | 1963 | <b>Clarence L. Johnson.</b> A-11 (A-12) Mach 3 aircraft.   |
| 1923    | <b>US Air Mail Service.</b> Commercial night flying.   | 1964 | <b>Gen. Curtis E. LeMay.</b> Expanding frontiers of American aeronautics and astronautics.   |
| 1924    | <b>US Army Air Service.</b> First aerial flight around world.  | 1965 | <b>James E. Webb, Hugh L. Dryden.</b> Gemini space-flight program.   |
| 1925    | <b>S. Albert Reed.</b> Metal propeller.  | 1966 | <b>James S. McDonnell.</b> F-4 Phantom and Gemini space vehicles.  |
| 1926    | <b>Maj. E.L. Hoffman.</b> Practical parachute.   | 1967 | <b>Lawrence A. Hyland, Hughes Aircraft Co., Jet Propulsion Laboratory, associated organizations.</b> Surveyor program.   |
| 1927    | <b>Charles L. Lawrance.</b> Radial air-cooled engine.  | 1968 | <b>Col. Frank Borman, Capt. James A. Lovell Jr. (USN), Lt. Col. William A. Anders.</b> Apollo 8, first manned lunar orbit mission.   |
| 1928    | <b>Commerce Dept., Aeronautics Branch.</b> Airways, air navigation facilities.                                 | 1969 | <b>Col. Edwin E. Aldrin Jr., Neil A. Armstrong, Col. Michael Collins.</b> Apollo 11 moon landing.  |
| 1929    | <b>National Advisory Committee for Aeronautics.</b> Cowling for radial air-cooled engines.                     | 1970 | <b>Boeing with Pratt &amp; Whitney and Pan Am.</b> Commercial 747 service.   |
| 1930    | <b>Harold Pitcairn and staff.</b> Autogiro.  | 1971 | <b>Robert T. Gilruth, Col. James B. Irwin, Col. David R. Scott, Lt. Col. Alfred M. Worden.</b> Apollo 15 mission.  |
| 1931    | <b>Packard Motor Car Co.</b> Diesel aircraft engine.   | 1972 | <b>Adm. Thomas H. Moorer, USAF 7th and 8th Air Forces, Navy Task Force 77.</b> Operation Linebacker II.  |
| 1932    | <b>Glenn L. Martin.</b> Two-engined, high-speed, weight-carrying airplane.                                     | 1973 | <b>Skylab Program, William C. Schneider, Skylab astronauts.</b> Skylab operations.   |
| 1933    | <b>Hamilton Standard Propeller Co., Frank W. Caldwell.</b> Controllable-pitch propeller.                       | 1974 | <b>John F. Clark, NASA; Daniel J. Fink, GE; RCA; Hughes.</b> Resource and environmental management in space technology; LANDSAT.   |
| 1934    | <b>Maj. Albert F. Hegenberger.</b> Blind-landing experiments.  | 1975 | <b>David S. Lewis, General Dynamics, USAF-industry team.</b> F-16 aviation technologies.   |
| 1935    | <b>Donald Douglas and staff.</b> DC-2.   | 1976 | <b>USAF, Rockwell, B-1 industry team.</b> B-1 bomber.  |
| 1936    | <b>Pan American Airways.</b> Trans-Pacific and overwater operations.   | 1977 | <b>Gen. Robert J. Dixon; Tactical Air Command.</b> Red Flag.   |
| 1937    | <b>Army Air Corps.</b> Design, flight test of XC-35 first pressurized cabin.                                   | 1978 | <b>Sam B. Williams, Williams Research Corp.</b> Turbofan cruise missile engines.   |
| 1938    | <b>Howard Hughes and crew.</b> Around-the-world flight.  | 1979 | <b>Paul B. MacCready, AeroEnvironment, Inc., Bryan Allen.</b> <i>Gossamer Albatross.</i>   |
| 1939    | <b>US airlines.</b> Air travel safety record.  |      |  |
| 1940    | <b>Sanford Moss, Army Air Corps.</b> Turbo-supercharger.   |      |  |
| 1941    | <b>US Army Air Forces and US airlines.</b> Pioneering worldwide operations.                                    |      |  |
| 1942    | <b>Gen. H.H. Arnold.</b> Leadership of US Army Air Forces.   |      |  |
| 1943    | <b>Capt. Luis De Florez (USNR).</b> Synthetic training devices.  |      |  |
| 1944    | <b>Gen. Carl A. Spaatz.</b> US air campaign against Germany.   |      |  |
| 1945    | <b>Luis W. Alvarez.</b> Ground-control approach radar landing system.  |      |  |
| 1946    | <b>Lewis A. Rodert.</b> Thermal ice-prevention system.   |      |  |
| 1947    | <b>Lawrence D. Bell, John Stack, Capt. Charles E. Yeager.</b> Supersonic flight.                               |      |  |
| 1948    | <b>Radio Technical Commission for Aeronautics.</b> All-weather air traffic control system.                     |      |  |
| 1949    | <b>William P. Lear.</b> F-5 automatic pilot, automatic approach control coupler system.                        |      |  |
| 1950    | <b>Helicopter industry, military services, Coast Guard.</b> Rotary-wing aircraft in air rescue.                |      |  |
| 1951    | <b>John Stack, associates at Langley Aeronautical Laboratory, NACA.</b> Transonic wind tunnel throat.          |      |  |
| 1952    | <b>Leonard S. Hobbs.</b> J57 jet engine.   |      |  |
| 1953    | <b>James H. Kindelberger, Edward H. Heinemann.</b> Supersonic airplanes (F-100, F4D).                          |      |  |
| 1954    | <b>Richard Travis Whitcomb.</b> Discovery, verification of area rule, yielding higher speed and greater range. |      |  |

## The Robert J. Collier Trophy, continued

1980	<b>NASA's Voyager mission team, Edward Stone.</b> Voyager flyby of Saturn.	1990	<b>Bell-Boeing team.</b> V-22 Osprey.
1981	<b>NASA, Rockwell, Martin Marietta, Thiokol, government-industry shuttle team,</b> and astronauts <b>Capt. Robert L. Crippen (USN), Col. Joe H. Engle, Capt. Richard H. Truly (USN), John W. Young.</b> First flights of <i>Columbia</i> , first shuttle.	1991	<b>Northrop-USAF industry team.</b> B-2.
1982	<b>T.A. Wilson, Boeing, supported by FAA, industry, airlines.</b> 757 and 767 airliners.	1992	<b>Global Positioning System team: USAF, US Naval Research Lab, Aerospace Corp., Rockwell, IBM Federal Systems.</b> Navstar GPS system.
1983	<b>US Army, Hughes Helicopters, industry team.</b> AH-64A Apache helicopter.	1993	<b>Hubble Space Telescope recovery team.</b> Successful orbital recovery and repair.
1984	<b>NASA, Martin Marietta, Walter W. Bollendonk,</b> astronaut <b>Capt. Bruce McCandless II (USN), Charles E. Whitsett Jr.</b> Manned maneuvering units, satellite rescues.	1994	<b>USAF, McDonnell Douglas, US Army, C-17 industry team.</b> C-17.
1985	<b>Russell W. Meyer, Cessna Aircraft, Cessna Citation business jets.</b> Outstanding safety.	1995	<b>Boeing 777 team.</b> Boeing 777.
1986	<b>Jeana L. Yeager, Richard G. Rutan, Elbert L. Rutan, Bruce Evans, team of volunteers.</b> <i>Voyager</i> flight.	1996	<b>Cessna Citation X design team.</b> Cessna Citation X.
1987	<b>NASA Lewis Research Center, NASA-industry team.</b> Advanced turboprop propulsion concepts.	1997	<b>Gulfstream Aerospace Corp., Gulfstream V industry team.</b> Gulfstream V.
1988	<b>Rear Adm. Richard H. Truly.</b> Manned space recovery program.	1998	<b>Lockheed Martin Corp., GE Aircraft Engines, NASA, Air Combat Command, Defense Intelligence Agency.</b> U-2S/ER-2.
1989	<b>Ben R. Rich, Lockheed-USAF team.</b> F-117A.	1999	<b>Boeing, Hornet industry team, and US Navy.</b> F/A-18E/F.
		2000	<b>Northrop Grumman, Rolls Royce, Raytheon, L-3 Communications, USAF, DARPA.</b> Global Hawk.
		2001	<b>Pratt &amp; Whitney, Rolls Royce, Lockheed Martin Corp., Northrop Grumman Corp., BAE Systems, JSF Program Office.</b> Integrated lift fan propulsion system.

## The Mackay Trophy

*The Mackay Trophy was established by Clarence H. Mackay, an industrialist, philanthropist, communications pioneer, and aviation enthusiast. Presented by the National Aeronautic*

*Association, the trophy recognizes "the most meritorious flight of the year" by an Air Force member, members, or organization.*

1912	2nd Lt. Henry H. Arnold.	1933	Capt. Westside T. Larson.
1913	2nd Lts. Joseph E. Carberry and Fred Seydel.	1934	Brig. Gen. Henry H. Arnold.
1914	Capt. Townsend F. Dodd and Lt. S.W. Fitzgerald	1935	Capt. O.A. Anderson and A.W. Stevens.
1915	Lt. B.Q. Jones.	1936	Capt. Richard E. Nugent; 1st Lts. Joseph A. Miller and Edwin G. Simenson; 2nd Lts. Burton W. Armstrong, Herbert Morgan Jr., and William P. Ragsdale Jr.; TSgt. Gilbert W. Olson; SSgt. Howard M. Miller; Cpl. Air Mechanic 2nd Class Frank B. Connor.
1916-17	No award.	1937	Capt. Carl J. Crane and George V. Holloman.
1918	Capt. Edward V. Rickenbacker.	1938	2nd Bombardment Group, Lt. Col. Robert Olds.
1919	Lt. Col. Harold E. Hartney; Capt. John O. Donaldson, Lowell H. Smith, and F. Steinle; Lts. B.G. Bagby, D.B. Gish, E.M. Manzelman (posthumously), Belvin N. Maynard, R.S. Northington, and Alexander Pearson Jr.	1939	Majs. Caleb V. Haynes and William D. Old; Capt. John A. Samford; 1st Lts. Richard S. Freeman and Torgils G. Wold; MSgt. Adolph Cattarius; TSgts. William J. Heldt, Henry L. Hines, and David L. Spicer; SSgts. Russell E. Junior and James E. Sands.
1920	Capt. St. Clair Streett; 1st Lt. Clifford C. Nutt; 2nd Lts. C.H. Crumrine, Ross C. Kirkpatrick, and Eric H. Nelson; Sgts. Joe E. English, Edmond Henriques, and Albert T. Vierra.	1940-46	No award.
1921	Lt. John A. Macready.	1947	Capt. Charles E. Yeager.
1922	Lts. John A. Macready and Oakley G. Kelly.	1948	Lt. Col. Emil Beaudry.
1923	Lts. John A. Macready and Oakley G. Kelly.	1949	Capt. James G. Gallagher and crew of <i>Lucky Lady II</i> .
1924	Capt. Lowell H. Smith; 1st Lts. Leslie P. Arnold, Eric H. Nelson, and Leigh Wade; 2nd Lts. John Harding Jr. and Henry H. Ogden.	1950	27th Fighter Wing.
1925	Lts. Cyrus K. Bettis and Jimmy Doolittle.	1951	Col. Fred J. Ascani.
1926	Pan American Goodwill Fliers: Maj. H.A. Dargue; Capt. Ira C. Eaker, A.B. McDaniel, and C.F. Woolsey (posthumously); 1st Lts. J.W. Benton (posthumously), M.S. Fairchild, C.McK. Robinson, B.S. Thompson, L.D. Weddington, and E.C. Whitehead.	1952	Majs. Louis H. Carrington Jr. and Frederick W. Shook; Capt. Wallace D. Yancey.
1927	Lts. Albert F. Hegenberger and Lester J. Maitland.	1953	40th Air Division, SAC.
1928	1st Lt. Harry A. Sutton.	1954	308th Bombardment Wing (M) and 38th Air Div., SAC.
1929	Capt. A.W. Stevens.	1955	Col. Horace A. Hanes.
1930	Maj. Ralph Royce.	1956	Capt. Iven C. Kincheloe Jr., Air Research and Development Command.
1931	Brig. Gen. Benjamin D. Foulois.	1957	93rd Bombardment Wing, SAC.
1932	11th Bombardment Sq., March Field, Calif., 1st Lt. Charles H. Howard.	1958	TAC Air Strike Force, X-Ray Tango.
		1959	US Air Force Thunderbirds.
		1960	6593rd Test Sq., Hickam AFB, Hawaii.
		1961	Lt. Col. William R. Payne and Majs. William L. Polthemus and Raymond R. Wagener, 43rd Bomb Wing, SAC.

## The Mackay Trophy, continued

- 1962 Maj. Robert G. Sowers and Capts. Robert MacDonald and John T. Walton.
- 1963 Capts. Donald R. Mack, John R. Ordemann, and Warren P. Tomsett; TSgt. Edsol P. Inlow; SSGts. Frank C. Barrett and Jack E. Morgan.
- 1964 464th Troop Carrier Wing, TAC.
- 1965 YF-12A Test Force (Col. Robert L. Stephens; Lt. Col. Daniel Andre; Maj. Walter F. Daniel and Noel T. Warner; Capt. James P. Cooney).
- 1966 Lt. Col. Albert R. Howarth.
- 1967 Maj. John H. Casteel; Capts. Dean L. Hoar and Richard L. Trail; MSgt. Nathan C. Campbell.
- 1968 Lt. Col. Daryl D. Cole.
- 1969 49th Tactical Fighter Wing, TAC.
- 1970 Capt. Alan D. Milacek and AC-119K crew (Capts. Roger E. Clancy, Ronald C. Jones, Brent C. O'Brien, and James A. Russell; TSgt. Albert A. Nash; SSGts. Adolfo Lopez Jr. and Ronald R. Wilson; Sgt. Kenneth E. Firestone; A1C Donnell H. Cofer).
- 1971 Lt. Col. Thomas B. Estes and Maj. Dewain C. Vick.
- 1972 Capts. Charles B. DeBellevue, Jeffrey S. Feinstein, and Richard S. "Steve" Ritchie.
- 1973 MAC aircrews.
- 1974 Maj. Willard R. MacFarlane, David W. Peterson, and Roger J. Smith.
- 1975 Maj. Robert W. Undorf.
- 1976 Capt. James A. Yule.
- 1977 C-5 aircrew (Capt. David M. Sprinkel and crew).
- 1978 C-5 aircrews (Lt. Col. Robert F. Schultz and crew and Capt. Todd H. Hohberger and crew, 436th Military Airlift Wing).
- 1979 Maj. James E. McArdle Jr.
- 1980 Crews S-21 and S-31, 644th Bombardment Sq.
- 1981 Capt. John J. Walters.
- 1982 B-52 Crew E-21, 19th Bombardment Wing.
- 1983 Capt. Robert J. Goodman and his crew, 42nd Bombardment Wing, SAC.
- 1984 Lt. Col. James L. Hobson Jr.
- 1985 Lt. Col. David E. Faught.
- 1986 KC-10 crew (Capts. M.D. Felman and T.M. Ferguson; MSgts. C. Bridges Jr., P.S. Kennedy, and G.G. Treadwell; TSgts. L.G. Boulter and G.M. Lewis; SSGts. S.S. Flores, S.A. Helms, and G.L. Smith), 68th Air Refueling Group, SAC.
- 1987 Det. 15, USAF Plant Representative Office, and B-1B SPO.
- 1988 C-5 crew, 436th Military Airlift Wing.
- 1989 B-1B crew, 96th Bomb Wing.
- 1990 AC-130 crew, 16th Special Operations Sq.
- 1991 MH-53 crew, 20th Special Operations Sq.
- 1992 C-130 crew, 310th Airlift Sq., ACC, Howard AFB, Panama.
- 1993 B-52 crew, 668th Bomb Sq., ACC.
- 1994 HH-60G crew of Air Force Rescue 206 and 208, 56th Rescue Sq., ACC, NAS Keflavik, Iceland.
- 1995 Aircrew BAT-01, Dyess AFB, Tex.
- 1996 Aircrew Duke 01, 2nd Bomb Wing, Barksdale AFB, La.
- 1997 Crew of Whiskey-05, 7th Special Operations Sq., RAF Mildenhall, UK.
- 1998 Crew of Air Force Rescue 470, 210th Rescue Sq., Kulis ANGB, Alaska.
- 1999 Capt. Jeffrey G.J. Hwang, 173rd FW, Oregon ANG, Klamath Falls Airport, Ore.
- 2000 Crew of Airevac 10E1/10E2, 86th AES and 75th AS, Ramstein AB, Germany.
- 2001 Crew of Knife 04, 20th SOS, Hurlburt Field, Fla.

*The crew of Knife 04 (shown here with their Pave Low MH-53) from the 20th Special Operations Squadron, Hurlburt Field, Fla., received the 2001 Mackay Trophy for performing "extraordinary acts of valor and heroism" during the rescue of the crew of another MH-53 stranded behind enemy lines in the mountains of Afghanistan.*



## The Gen. Thomas D. White USAF Space Award

*The Gen. Thomas D. White USAF Space Award is named for the fourth Air Force Chief of Staff, a longtime champion of USAF's role in space. The Air Force selects the recipients among USAF individuals or organizations that made the year's*

*outstanding progress in the field of aerospace. It was established in 1961 and, until 1996, sponsored by the National Geographic Society. It is now an AFA national award sponsored by the Gen. B.A. Schriever Los Angeles Chapter.*

1961	Capt. Virgil I. Grissom.	1981	Col. Joe Engle, Capt. Richard H. Truly (USN).
1962	Maj. Robert M. White.	1982	Lt. Gen. Richard C. Henry.
1963	Maj. L. Gordon Cooper.	1983	Gen. James V. Hartinger.
1964	Air Force Systems Command.	1984	Lt. Gen. Forrest S. McCartney.
1965	Lt. Col. Edward H. White II.	1985	Maj. Gen. Donald W. Henderson.
1966	Alexander H. Flax.	1986	Gen. Donald J. Kutyna.
1967	Gen. John P. McConnell.	1987	Col. Victor W. Whitehead.
1968	Col. Frank Borman, Capt. James A. Lovell Jr. (USN), Lt. Col. William A. Anders.	1988	Robert R. Barthelemy.
1969	Col. Edwin E. Aldrin Jr., Neil A. Armstrong, Col. Michael Collins.	1989	Launch Systems Directorate, Space Systems Division.
1970	Brig. Gen. Robert A. Duffy.	1990	Gen. John L. Piotrowski, USAF (Ret.), Lt. Gen. Donald L. Cromer.
1971	Lt. Gen. Samuel C. Phillips.	1991	Lt. Gen. Thomas S. Moorman Jr.
1972	Hon. Robert C. Seamans Jr.	1992	Maj. Gen. Nathan J. Lindsay, USAF (Ret.).
1973	Lt. Col. Henry Hartsfield Jr.	1993	Gen. Merrill A. McPeak.
1974	No award.	1994	Gen. Charles A. Horner.
1975	Maj. Gen. Thomas P. Stafford.	1995	Gen. Joseph W. Ashy.
1976	Gen. William J. Evans.	1996	No award.
1977	Lt. Col. Charles G. Fullerton, Fred W. Haise Jr.	1997	Lt. Gen. Patrick P. Caruana.
1978	No award.	1998	Gen. Howell M. Estes III.
1979	Maj. Gen. John E. Kulpa Jr.	1999	Lt. Gen. Lance W. Lord.
1980	Gen. Lew Allen Jr.	2000	Gen. Richard B. Myers.
		2001	Gen. Ralph E. Eberhart.

## The Raytheon Hughes Achievement Award

*The Raytheon Hughes Achievement Award (formerly the Hughes Trophy) is presented annually to the top Air Force squadron with an air defense/air superiority mission.*

Year	Unit, Base	Aircraft	Year	Unit, Base	Aircraft
1953	58th FIS, Otis AFB, Mass.	F-94C	1978	49th FIS, Griffiss AFB, N.Y.	F-106A/B
1954	96th FIS, New Castle County Airport, Del.	F-94C	1979	32nd TFS, Soesterberg AB, Netherlands	F-15A/B
1955	496th FIS, Landstuhl AB, West Germany	F-86D	1980	32nd TFS, Soesterberg AB, Netherlands	F-15A/B
1956	317th FIS, McChord AFB, Wash.	F-86D/F-102A	1981	12th TFS, Kadena AB, Japan	F-15C/D
1957	512th FIS, RAF Bentwaters, UK	F-86D	1982	44th TFS, Kadena AB, Japan	F-15C/D
1958	31st FIS, Elmendorf AFB, Alaska	F-102A	1983	67th TFS, Kadena AB, Japan	F-15C/D
1959	54th FIS, Ellsworth AFB, S.D.	F-89J	1984	318th FIS, McChord AFB, Wash.	F-15A/B
1960	460th FIS, Portland Arpt., Ore.	F-102A	1985	120th FIG (ANG), Great Falls Arpt., Mont.	F-106A/B
1961	83rd FIS, Hamilton AFB, Calif.	F-101B	1986	67th TFS, Kadena AB, Japan	F-15C/D
1962	444th FIS, Charleston AFB, S.C.	F-101B	1987	57th FIS, NAS Keflavik, Iceland	F-15C/D
1963	497th FIS, Torrejon AB, Spain	F-102A	1988	22nd TFS, Bitburg AB, West Germany	F-15C/D
1964	329th FIS, George AFB, Calif.	F-106A/B	1989	67th TFS, Kadena AB, Japan	F-15C/D
1965	317th FIS, Elmendorf AFB, Alaska	F-102A	1990	58th TFS, Eglin AFB, Fla.	F-15C/D
1966	32nd FIS, Soesterberg AB, Netherlands	F-102A	1991	58th TFS, Eglin AFB, Fla.	F-15C/D
1967	317th FIS, Elmendorf AFB, Alaska	F-106A/B	1992	59th FS, Eglin AFB, Fla.	F-15C/D
1968	64th FIS, Clark AB, Philippines	F-102A	1993	71st FS, Langley AFB, Va.	F-15C
1969	71st FIS, Malmstrom AFB, Mont.	F-106A/B	1994	178th FS (ANG), Hector Arpt., N.D.	F-16A/B
1970	57th FIS, NAS Keflavik, Iceland	F-102A	1995	27th FS, Langley AFB, Va.	F-15C/D
1971	48th FIS, Langley AFB, Va.	F-106A/B	1996	60th FS, Eglin AFB, Fla.	F-15C/D
1972	43rd TFS, Elmendorf AFB, Alaska	F-4E	1997	493rd FS, RAF Lakenheath, UK	F-15C
1973	555th TFS, Udorn RTAB, Thailand	F-4D	1998	71st FS, Langley AFB, Va.	F-15C/D
1974	119th FIG (ANG), Hector Field, N.D.	F-101B	1999	493rd FS, RAF Lakenheath, UK	F-15C
1975	318th FIS, McChord AFB, Wash.	F-106A/B	2000	19th FS, Elmendorf AFB, Alaska	F-15C/D
1976	57th FIS, NAS Keflavik, Iceland	F-4C	2001	71st FS, Langley AFB, Va.	F-15C/D
1977	43rd TFS, Elmendorf AFB, Alaska	F-4E			