

ABRIDGED CV

JOSEPH H. GOLDEN

Date of Birth: December 4, 1942

Place of Birth: El Centro, California

Education: Degrees

University of California-Los Angeles, B.A., Meteorology, 1964

Florida State, M.S. Meteorology, 1966

Florida State, Ph.D., Meteorology, 1973

Position:

**Senior Research Scientist, CIRES/U. of Colorado/NOAA-Earth System Research Laboratory
(CIRES retired, 4/16/09, NOAA Retired, 9/2/05)**

Currently: CEO, Golden Research & Consulting, Boulder, CO

Joseph H. Golden had served NOAA in a number of progressively more responsible positions during his 42 years of Federal service. His early career began in Miami in the mid 1960's, as a Hurricane Specialist at the National Hurricane Center (hurricane forecasting in summer, and Public and Marine Forecaster during remainder of year), and he also worked as a research meteorologist at the National Hurricane Research Laboratory. He participated actively in NOAA's hurricane modification experiments during Project STORMFURY. Dr. Golden has flown research missions on NOAA aircraft into several hurricanes. He then pursued his research interest in convective vortices and severe storms (tornadoes and waterspouts) while at the National Severe Storms Laboratory, Norman, OK from 1971-75. He then accepted a promotion to Program Development Scientist at ERL headquarters in Boulder, CO and was Acting Director of the ERL Office of Programs in 1983. He moved to the National Weather Service, with another promotion, in 1984, as Chief, Sounding Systems Branch. He managed the entire NWS national rawinsonde and radar networks. Following an NWS reorganization in 1986, he became Chief, Field Systems Branch of the NWS Office of Systems Operations. He played a significant role in the development and proposal-review phases of both the NEXRAD and AWIPS programs in NWS. Dr. Golden was asked by the Deputy Chief Scientist, Dr. William Hooke, to join that Office as Senior Meteorologist in 1989. In 1991, he was asked to assume the role of Director, NOAA Atmospheric Modification Program (AMP) in NOAA's Office of Oceanic and Atmospheric Research. Dr. Golden managed the AMP Program with six States and the Navajo Nation until its termination by the Congress in 1995. He moved to NOAA's Forecast Systems Lab in January, 2000 as a Senior Meteorologist. Dr. Golden retired from NOAA in September, 2005, after 42.5 years of Federal service. Following his Federal retirement, Dr. Golden became a part-time Senior Research Scientist in the joint Institute, CIRES/CU-NOAA until April, 2009. *Dr. Golden was invited to deliver expert testimony before two U.S. Senate Subcommittees in Fall, 2005 on a new Bill to fund a Federal program in Weather Modification Research and Technology Transfer.* Dr. Golden was the outgoing Chairman of the American Meteorological Society's Committee on Planned & Inadvertent Weather Modification up to last Fall. Dr. Golden helped conceive and was one of the P.I.'s in the new Hurricane Aerosols and Microphysics Project, which was funded (\$1M+) by the Dept. of Homeland Security for 2009-10. He has also co-authored 2 new hurricane research publications resulting from that project.

Dr. Golden is an elected Fellow of the American Meteorological Society, retired member of the AGU, Royal Meteorological Society, Sigma Xi and was on the Board of Directors on AAWE (American Assoc. for Wind Engr.). His biography was selected to appear in WHO'S WHO IN THE EAST twice and in EMERGING LEADERS IN NEW TECHNOLOGY, and the 2008/09 edition of WHO'S WHO IN SCIENCE AND ENGINEERING (Marquis Pub.). Moreover, Dr. Golden's biography has appeared in the last ten consecutive editions of WHO'S WHO IN AMERICA. *He is a renowned international expert on convective vortices: hurricanes, tornadoes and waterspouts.* He is a Consulting Editor for Weatherwise, past Chairman for the AMS Committees on Severe Local Storms and Radar Meteorology, and was recently Chairman for the AMS Committee on Planned and Inadvertent Weather Modification. He was also Program Co-Chairman for the 1975 AMS Severe Storms Conference, and the 1989 Radar Meteorology Conference. *Dr. Golden has also chaired the NRC/NAS Committee on Natural Disasters (now reconstituted into the Roundtable on Natural Disasters).* *Dr. Golden participated as the lead meteorologist*

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on two NAS/NRC reconnaissance teams, that were deployed to examine the damage caused by Hurricanes Alicia, 1983 in Houston and Hugo, 1989, in the Caribbean. He was also asked by the Academy to serve on a Panel to examine Critical Wind Engineering issues across the U.S. More recently, Dr. Golden served as Co-Chairman of a Task Committee on the US/Japan UJNR Panel and Wind and Seismic Effects, which has hurricanes/typhoons under its joint research purview. He has been an invited and/or keynote speaker at international conferences and symposia in Belgium (1989), India (1985, 1992), Indonesia (1992), Japan, Venezuela, Barbados, Australia, Switzerland, France, Canada, and Germany. He was asked to Chair the WMO/CIMO Working Group on Weather Radar, and produced two WMO reports that have been published for international radar user communities. He was asked by the AGU to write, with colleague Prof. John Snow, a review article on mitigation of extreme windstorms for Reviews of Geophysics (Nov. 1991). Dr. Golden has authored over 45 formal publications in the refereed literature, including chapters in hardcover texts in AGU's 1993 Tornado Monograph and a recent text published by Routledge Press (STORMS, 2000, edited by Pielke and Pielke). Dr. Golden was one of the lead authors in an article just published in the January, 2014 issue of Atmospheric Research on extra-area effects of cloud seeding.