

BIOGRAPHICAL SKETCH¹

Hugh Edward Willoughby

Dr. Willoughby is a Research Professor in the Department of Earth Sciences at Florida International University, where he teaches Meteorology in the recently established Atmospheric Sciences Track. His hurricane-research interests include analysis of aircraft observations, formulation of theoretical models of motion and intensification, and analysis of economic and human impacts. Until 2002 he was a Research Meteorologist at the Hurricane Research Division of NOAA's Atlantic Oceanographic and Meteorological Laboratory, where he had worked since 1975 and served as director, 1995-2002. He has made more than 400 flights into the eyes of typhoons and hurricanes. During his time at HRD, Dr. Willoughby occupied the G. J. Haltiner Visiting Research Chair at the Naval Postgraduate School (January–July, 1991); was a Visiting Research Scientist at the Bureau of Meteorology Research Centre in Melbourne, Australia (June–July, 1988); and was a Visiting Lecturer at the Shanghai Typhoon Institute (December 1985), where he visited again during the winter of 2004.

Before joining HRD, Dr. Willoughby was a commissioned officer in the U. S. Navy. He served as a flight meteorologist in Airborne Early Warning Squadron ONE (1970–1971) and on the Military faculty of the Naval Academy (1971–1974).

Dr. Willoughby has a Ph.D. (1977, Atmospheric Science) from the University of Miami, a M.S. (1969, Meteorology) from the Naval Postgraduate School, and a B.S. (1967, Geophysics–Geochemistry) from the University of Arizona. He is a fellow of the American Meteorological Society and of the American Association for the Advancement of Science, and a member the American Geophysical Union and Sigma Xi. He is past chair the AMS Committee on Hurricanes and Tropical Meteorology.

Recent Publications

Willoughby, H. E., E. N. Rappaport, and F. D. Marks, 2007: Hurricane Forecasting: The State of the Art. *Natural Hazards Review*. 8, 45-49.

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Rogers, R, S. Chen, J. Tenerelli, and **H. Willoughby**, 2003: A numerical study of vertical shear on the distribution of rainfall in Hurricane Bonnie (1998), *Mon. Wea. Rev.*, **131**, 1577-1599.

Gedzelman, S., J. Lawrence, J. Gamache, M. Black, E. Hindeman, R. Black, J. Dunion, **H. Willoughby**, X, Zhang, 2003: Probing hurricanes with stable isotopes of rain and water vapor. *Mon. Wea. Rev.*, **131**, 1112-1127.

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