

Brief Bibliography

HURRICANES

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U.S. DEPARTMENT OF COMMERCE
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National Oceanographic Data Center

HURRICANES

Hurricanes are violent storms found in all major oceans except the South Atlantic. The name evolved from West Indian usage referring to storms in the Caribbean; in the western Pacific they are called typhoons and in other areas, tropical cyclones.

Hurricanes originate mainly in the summer and autumn. The Atlantic hurricane season officially runs from June 1 to November 30. During this time, current information on storm location and movement can be obtained from a national hotline by calling 1-900-410-NOAA.

This brief bibliography is intended to provide a selected guide to the literature on hurricanes published since 1986 together with a small number of older items contained in the extensive collections of the NOAA Central Library.

Current references were selected from Meteorological & Geostrophysical Abstracts, published by the American Meteorological Society, Boston, MA and Applied Science & Technology Index by H. Wilson. The search qualifiers were: (HURRICANES or TYPHOONS) and (DAMAGE or RESEARCH or FORECASTING or TRACKING or PROBABILITY) and 1986 to present.

Questions about this material may be addressed to Reference Desk, NOAA Central Library, 6009 Executive Blvd., Rockville, MD 20852, or call (301) 443-8330.

I. Theoretical Studies

Toward a general theory of hurricanes.

Emanuel, Kerry A.

American Scientist. Vol. 76, pp. 370-379, J1/Ag 1988.

On the relationship between tropical cyclone motion and intensity.

Keqin Dong

Monthly Weather Review. Vol. 116, pp. 964-968, Apr. 1988.

Some large-scale characteristics associated with tropical cyclone development in the North Indian Ocean during EGGE.

Lee, Cheng-Shang; Edson, Roger; Gray, William H.

Monthly Weather Review. Vol. 117, pp. 407-426, Feb. 1989.

Vertical velocity structures in an axisymmetric, nonhydrostatic tropical cyclone model.

Lord, Stephen J.; Lord, Jacqueline M.

Journal of the Atmospheric Sciences. Vol. 45, pp. 1453-1461, May 1, 1988.

Inner core structure of Hurricane Alicia from airborne Doppler radar observations.

Marks, Frank D.; Houze, Robert A.

Journal of the Atmospheric Sciences. Vol. 44, pp. 1296-1317, May 1, 1987.

Characteristics of the upper-tropospheric environmental flow around hurricanes.

Merrill, Robert T.

Journal of the Atmospheric Sciences. Vol. 45, pp. 1665-1677, June 1, 1988.

Environmental influences on hurricane intensification.

Merrill, Robert T.

Journal of the Atmospheric Sciences. Vol. 45, pp. 1678-1687, June 1, 1988.

A numerical study of the genesis of tropical storms observed during the FGGE year.

Tuleya, Robert E.

Monthly Weather Review. Vol. 116, pp. 1188-1208, May 1988.

The nature of CISK in a generalized continuous model.

Wang, Bin

Journal of the Atmospheric Sciences. Vol. 44, pp. 1411-1426, May 15, 1987.

Typhoon structure as revealed by aircraft reconnaissance.

Weatherford, Candis L.; Gray, William M.

Monthly Weather Review. Vol. 116, pp. 1032-1056, May 1988.

II. Distribution

Annual data and verification tabulation, Atlantic tropical cyclones, 1987. Clark, Gilbert B.; Case, Robert A.

Miami, FL: NOAA, NWS, NHC, 1988

Rockville: QC995.U672 no. 40

Eastern North Pacific tropical cyclones of 1987.

Cross, R. L.
Monthly Weather Review., Oct. 1988

Annual data and verification tabulation, eastern North Pacific tropical storms and hurricanes, 1987.

Cross, R. L.; Mielke, K. B.
Salt Lake City, UT:NOAA, NWS, Western Region, 1988
Rockville: QC995.U68 no. 202

Tropical cyclones of the North Atlantic Ocean, 1871-1986.

Neumann, Charles J. et al.
Asheville, NC: NOAA, NWS, NESDIS, 1987
Rockville: QC945.T7 1987

III. Tracking and Forecasting

Hurricane detection, tracking, and forecasting; statement of the AMS.
American Meteorological Society.
American Meteorological Society, Bulletin. Vol. 67, pp. 1508-1510,
Dec. 1986.

Prospects for seasonal and monthly prediction of Atlantic hurricane frequency.

Gray, William M.
World Meteorological Organization, Geneva, Programme on Long-Range
Forecasting Research Report Series, No. 6 (WMO/TD-No.987). Vol. 2, pp.
769-777, 1986.

Example of hurricane tracking and forecasting with a global analysis-forecasting system.

Heckley, W. A.; Miller, M. J.; Betts, A. K.
American Meteorological Society, Bulletin. Vol. 68, No. 3, pp.
226-229, Mar. 1987.

Satellites replace WC-130 aircraft in Pacific typhoon tracking role.

Hughes, David.
Aviation Week & Space Technology. Vol 129, pp. 169+, Sep. 5, 1988.

Dynamic-stochastic model for typhoon track prediction.

Tou, Stephen K. W.
Ocean Physics and Engineering. Vol. 12, No. 1, pp. 47-64, 1987.

IV. Damage and Protection

Public perception of hurricane hazards: examining the different effects of Hurricane "Diana".

Beatley, Timothy; Brower, David J.
Coastal Zone Management Journal. Vol. 14, No. 3, pp. 241-269, 1986.

Performance of cladding in Hurricane "Alicia".

Kareem, Ahsan.
Journal of Structural Engineering. Vol. 112, No. 12, pp. 2679-2693,
Dec. 1986.

Storm over new hurricane code (for coastal building design).
Korman, Richard; O'Neal, Milton.
Engineering News-Record. Vol. 216, pp. 10-11, May 22, 1986.

Transportation planning for hurricane evacuations.
Lewis, Donald C.
ITE Journal. Vol. 55, pp. 31-35, Aug. 1985.

Prior planning for posthurricane reconstruction.
Salmon, Jack; Henningsen, Don.
Florida University Sea Grant Report No. 88, Jan. 1987.

V. General Works

**19th Conference on Hurricanes and Tropical Meteorology, May 16-19, 1989
San Diego, CA.**
American Meteorological Society
Boston, MA: AMS, 1989

VI. Historical Works

Hurricanes; monster storms from the sea. Illustrated with photos.
Brindze, Ruth
New York: Atheneum, 1973
Rockville: QC944.B74 1973

**Airborne research meteorological data collected by the National
Hurricane Research Laboratory during the NOSS/RFC WP-3D era: inventory
and availability.**
Friedman, Howard; Brown, Winfield J.; Michie, John D.
Miami, FL: NOAA, ERL, AOML, 1982
Rockville: QC802.U6 A5 no. 2

**The deadliest, costliest, and most intense United States hurricanes of
this century: (and other frequently requested hurricane facts).**
Hebert, Paul J.; Taylor, Glenn; Case, Robert A.
Miami, FL: NOAA, NWS, NHC, 1986
Rockville: Ref QC995.U672 no. 31

Hurricanes of the Caribbean and adjacent regions, 1492-1800.
Millas, Jose Carlos
Miami, FL: Academy of the Arts and Sciences of the Americas, 1968
Rockville: QC945.M5

The hurricane hunters.
Tannehill, Ivan Ray
New York: Dodd, Mead, 1955
Rockville: QC945.T33

**Preparing for hurricanes and coastal flooding: a handbook for local
officials.**
Washington, D.C.: FEMA, NOAA, 1983
Rockville: QC944.P7