

HRD "Firsts"

The Hurricane Research Division's 1998 Hurricane Field Program has produced many innovative "firsts." Here is a partial listing:

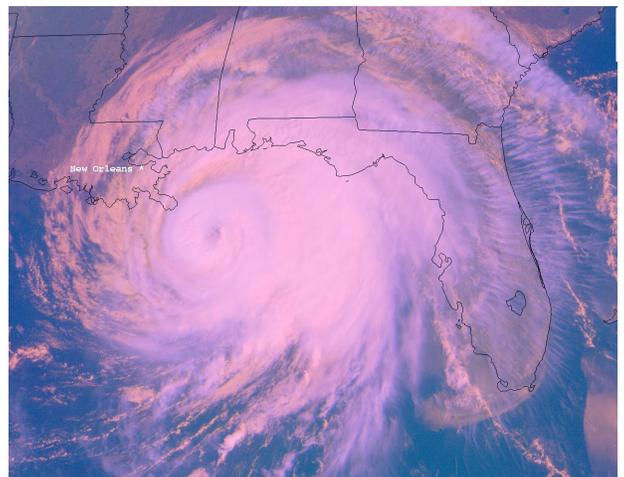
- First three-plane synoptic surveillance mission (Hurricane Bonnie)
- First coordinated six-plane mission (Hurricane Bonnie)
- First three-plane Vortex Motion and Evolution mission with drops from 35,000 ft using the NASA DC-8 (Hurricane Danielle)
- First two-dimensional wave-spectra measurements from the NASA/Goddard Space Flight Center scanning radar altimeter (Hurricane Bonnie)
- First direct storm surge measurements from the scanning radar altimeter (Hurricane Bonnie)
- First instrumented tower observations on land during landfall (Tropical Storm Charlie)
- First dual-Doppler on Wheels deployment during landfall (Hurricane Bonnie)
- First portable profiler deployment during landfall (Hurricane Earl)
- First NASA/ER-2 Doppler radar data set in a hurricane (Hurricane Bonnie)
- First EVTD wind field transmitted to the NOAA Tropical Prediction Center/National Hurricane Center (Hurricane Danielle)
- First GBEVTD wind field run on KEVX WSR-88D level IV products at NHC (Hurricane Earl)

"Spring Forward, Fall Back"

Daylight Savings Time ends on
Sunday, October 25, 1998

Scientists Study Hurricane Georges at Landfall

Equipped with an impressive array of air and land-based instruments, scientists from AOML's Hurricane Research Division and scientists from several universities joined forces to study Hurricane Georges as it made landfall along the Mississippi coast-line on September 28, 1998. Georges has subsequently earned the distinction of becoming the best sampled landfalling hurricane to date.



Hurricane Georges as it approached the Gulf coast of the United States.

As Hurricane Georges approached the Gulf coast late Sunday evening on September 27, 1998, ground instrumentation was put into place to improve landfall boundary layer measurements. HRD scientists assisted University of Oklahoma researchers in positioning two trucks instrumented with mobile Doppler radar systems, nicknamed "Doppler on Wheels" (DOWs), to locations along the coast near the area most likely to experience landfall. From Gulfport and Biloxi, Mississippi, the two DOWs captured close-up radar images of Georges' low-level winds as the category 2 hurricane came ashore. A University of Alabama portable profiler and a Texas Tech University portable instrumented tower monitored Georges as well. Clemson University and the University of Oklahoma positioned portable towers in Slidell, Louisiana to collect data, while two University of Oklahoma portable mesonets traveled up and down I-10 between Pascagoula, Mississippi and Mobile, Alabama. Simultaneously, a NOAA WP-3D aircraft flew north-south and east-west legs in the storm circulation above and mapped Georges' storm surge with the NASA/GSFC scanning radar altimeter.

The data collected should help shed light on how patterns of wind and rain develop within hurricanes and aid future research in determining why and where hurricanes produce floods and funnel clouds. The research was carried out as part of the Hurricanes at Landfall (HAL) project, a component of the U.S. Weather Research Project. Earlier in September, HAL missions were also conducted in the Florida Keys and the island of Hispaniola to learn more about Georges' low-level wind structure.

NOAA reconnaissance aircraft (two P-3 Orion turbo props and the Gulfstream IV jet) monitored Hurricane Georges from September 18-28, 1998 as the powerful storm began its rampage across the northern Caribbean. In total, 22 data-gathering surveillance missions were completed.

It's a Boy!



Congratulations to Dr. Kristina Katsaros on the birth of her first grandchild, Hugh Anthony, a healthy baby boy born Sunday, October 3, 1998.

Years-In-Service Awards

- 35 years: *Victor Wiggert*
- 30 years: *Peter G. Black*
Robert W. Jones
Robert E. Kohler
Warren S. Krug
Dennis A. Mayer
William E. Woodward
- 25 years: *Joyce O. Berkeley*
Paul Chinn
Steven K. Cook
Shailer R. Cummings
John F. Festa
Gladys N. Medina
Terry A. Nelsen
John R. Proni
Jean Smith
Gary Soneira
- 20 years: *Douglas P. Anderson*
Thomas P. Carsey
W. Paul Dammann
Charles J. Fischer
Chely G. Garcia
Joseph S. Griffin
Peter B. Ortner
Mark D. Powell
Reyna Sabina
Carla C. Stephens
M. Catherine Steward
Gregg G. Thomas
John J. Tsai
Anne-Marie Wilburn
- 15 years: *David S. Bitterman*
Yeun-Ho Daneshzadeh
James L. Franklin
Stanley B. Goldenberg
Paul A. Leighton
Michael M. Shoemaker
W. Douglas Wilson
- 10 years: *Robert H. Decker*
Jessie E. Harris
Elizabeth Johns
John Kaplan
Gerald P. Momplaisir
Lloyd D. Moore

Columbus Day
October 12, 1998

Awards Ceremony Celebrates Staff Achievements

AOML staff gathered to celebrate the achievements of their co-workers at an awards ceremony held in the main lobby of AOML on Tuesday, September 15, 1998. AOML Director Kristina Katsaros and Division Directors Silvia Garzoli, Peter Ortner, John Proni, and Hugh Willoughby were all in attendance to present awards to staff members of their Divisions.

Five AOML employees were honored for their outstanding accomplishments during the past year. Robert L. Molinari was honored for his appointment to the distinguished position of Senior Scientist on August 2, 1998 by NOAA Administrator Dr. D. James Baker. Frank D. Marks, Jr. was honored for receiving a Department of Commerce Silver Medal for his role as ERL mission manager during acquisition of the NOAA Gulfstream IV hurricane surveillance aircraft. Joseph S. Griffin and James L. Franklin, 1998 recipients of NOAA Bronze Medals, were honored for development of the Hurricane Analysis and Processing System (HAPS). John Kaplan was also honored for receiving a NOAA Bronze Medal, in association with Mark DeMaria of the National Hurricane Center, for development of an inland wind decay model (IWDM) that predicts inland wind speeds produced by landfalling hurricanes.

Following presentation of the individual awards, Division Directors presented Years-In-Service certificates to a long list of AOML employees, approximately one-third of AOML's total staff, in recognition of their years of dedicated, full-time federal employment. Congratulations to all of AOML's hard-working achievers.



Robert L. Molinari honored for his recent appointment to the position of Senior Scientist.



Frank D. Marks, Jr., honored for receiving a Department of Commerce Silver Medal.

DAILY TROPICAL WEATHER DISCUSSION

WEEKDAYS: 12:30 P.M.

4TH FLOOR MAP ROOM

DURATION: APPROX. 15 MINUTES

Join us for daily map discussions about tropical weather conditions around the world, with a focus on the Atlantic basin. Each week we'll have a new volunteer to lead the discussions. Contact Chris Landsea (305-361-4357 or landsea@aoml.noaa.gov) for more information.

Welcome Aboard

Esther Barker joins the staff of the Office of the Director to provide receptionist and clerical support services.

Sara Cotton joins the staff of the Ocean Chemistry Division as a CIMAS Research Associate to assist Dr. Shari Yvon-Lewis in performing halocarbon research.

Charles Featherstone joins the staff of the Ocean Chemistry Division as a technical assistant to Dr. Terry Nelsen. Mr. Featherstone will be involved with the Florida Bay project as well as cooperative work with the Ocean Acoustics Division.

Joaquin Trinanes Fernandez, a visiting scholar from the University of Santiago de Compostela, Spain, joins the staff of the Physical Oceanography Division from October 1-December 22, 1998. Dr. Fernandez will develop and configure a computer graphic interphase program to view XBT and satellite-derived oceanographic data, enabling AOML researchers easy access to these types of observations.

Congratulations

Linda Pikula, AOML Librarian, was elected President of the International Association of Aquatic and Marine Science Libraries and Information Centers for the years 2000-2001. The organization, begun in Woods Hole, Massachusetts in 1975, promotes cooperation and resource sharing among libraries and information centers specializing in any aspect of marine science. Members represent libraries and information centers, marine research and policy institutions, government agencies, and academic, profit, and non-profit organizations.

Travel

David Palmer will visit the P.P. Shirshov Oceanography Institute in Moscow, Russia from October 19-25, 1998. Dr. Palmer will present two scientific lectures and participate in planning meetings for a joint NOAA/Russian program to develop a new acoustic technique for monitoring ocean currents in coastal areas.

Kristina Katsaros will attend the National Marine Fisheries Service/OAR Science Retreat in La Jolla, California on October 8-9, 1998. Dr. Katsaros will also attend the ERL Directors Retreat in Boulder, Colorado on October 19-21, 1998.

HRD Director Celebrates Milestone

Hugh Willoughby, Director of the Hurricane Research Division, celebrated his 400th hurricane eyewall penetration with members of his staff this past September. Dr. Willoughby's 400th trip into the eye of a hurricane occurred during a reconnaissance flight into Hurricane Danielle. His first eyewall penetration occurred in 1970 while flying as a U.S. Navy typhoon reconnaissance squadron crew member into Typhoon Olga in the western Pacific Ocean.



AOML Seeks 100% Participation in CFC Drive

A "Kick-Off Meeting" for the Combined Federal Campaign (CFC) will be held on October 13, 1998 at 10:00 a.m. in the first-floor conference room. The CFC is an annual fund-raising drive conducted by federal employees to support hundreds of non-profit charitable organizations via payroll deductions. Information about the CFC drive and enrollments forms will be available at the meeting.

Jannette Perez is AOML's FY-1999 CFC coordinator. "Our goal is to get 100% of AOML employees to contribute some amount to this campaign," states Perez. "The monetary goal for AOML in 1999 is \$16,000. In order to reach this goal, each AOML employee will only need to contribute an average of \$5.00 every pay period."

The CFC was established by the federal government in 1961 and is sponsored annually by the Office of Personnel Management. The deadline for enrolling in the FY-1999 CFC is November 15, 1999. Contact Jannette Perez for more information at (305) 361-4367 or perez@aoml.noaa.gov.



"Preventing Sexual Harassment in the Workplace"

October 14-15, 1998

First-Floor Conference Room

Crystal Williams, Facilitator

(President and CEO of International Training Associates)

Four, 1/2 day sessions limited to 40 people per session
(8:30 AM-12:00 PM; 1:00 PM-4:30 PM)

Federal, CIMAS and contract employees are strongly encouraged to attend; attendance for managers, supervisors, and rating officials is mandatory

Workshop Agenda:

- Perception and communication: looking at the complexity of human behavior
- Defining sexual harassment
- Reviewing NOAA's policy and statement on sexual harassment
- Human resource impact and legal ramifications of sexual harassment in the workplace
- Responsibilities: managers and employees
- Using the EEO process
- What to do if you are a victim of sexual harassment or are accused of sexual harassment

Silver Anniversary Reprints Now Available

A photo album of pictures taken by a professional photographer during AOML's Silver Anniversary celebration (March 2-3, 1998) is available for viewing in George Berberian's office (room 238).

Reprints of pictures from the photo album can be ordered by entering the following information onto a form next to the photo album: your name, the number assigned to the picture, the size of the reprint, and the number of copies required. Reprint prices are as follows:

3.5 x 5	\$0.50
4 x 6	\$0.50
5 x 7	\$3.00
8 x 10	\$5.00
11 x 14	\$9.00

George Berberian will coordinate reprint orders. Contact George for more information at berberian@aoml.noaa.gov or (305) 361-4375.



Evans Flies with HRD

Dr. David L. Evans, Assistant Administrator for the Office of Oceanic and Atmospheric Research, had a first-hand look at hurricane reconnaissance operations this past September when he joined the flight crew of the NOAA N43RF during a surveillance flight into Hurricane Georges. This was Dr. Evans first "in-air science experience."

AEROBICS CLASS

Monday • Wednesday
11:30 a.m. - 12:30 p.m.

Friday
11:00 a.m. - 12:00 p.m.

1st Floor Conference Room

Contact Ginger Garte
for more information

(305-361-4430 or
garte@aoml.noaa.gov)

Blood Drive



October 9, 1998
9:00 a.m. - 1:00 p.m.
4th Floor Area



Sign-up sheets are at the receptionist's desk in the lobby

AOML Hosts WMO Meetings

AOML will host a series of international meetings on behalf of the World Meteorological Organization's Data Buoy Cooperation Panel (DBCP) at Hawks Cay, Marathon on October 12-21, 1998. The annual meetings are hosted each year by a participating meteorological or oceanographic agency.

The first meeting, October 12-13, 1998, is a DBCP Technical Session which will focus on advances in drifting buoy technology and data transmission techniques.

The second meeting, October 13-16, 1998, is the formal DBCP meeting. Data distribution concerns, WMO code issues, international program status, and plans for 1999 will be presented by participants from around the globe.

The third meeting, October 19-21, is a NOAA/Argos Joint Tariff Agreement meeting. Representatives from countries participating in the JTA will meet with NOAA and Argos representatives to determine the cost of Argos services in 1999.

Hosting the meetings in the United States affords a greater number of U.S. participants the opportunity to meet with DBCP members from abroad and discover the impressive and cooperative work being performed

Oceans Act 1998 Becomes Law

The Oceans Act of 1998 (H.R. 3445) was unanimously approved by the House of Representatives of the U.S. Congress on September 15, 1998. H.R. 3445 establishes a national Commission on Ocean Policy to review federal ocean policies and programs and make recommendations for new ocean policies to the Congress and to the President. The Commission on Ocean Policy will have the authority to:

- Recommend changes to U.S. law and technologies
- Review ocean-related facilities and technologies
- Review federal ocean activities to eliminate duplication
- Review known and anticipated supply of and demand for ocean resources
- Review the relationship between federal, state, and local governments in planning ocean activities
- Review opportunities for development of ocean products and technologies

Keynotes is published monthly by the Atlantic Oceanographic and Meteorological Laboratory. Contributions are welcome and should be submitted prior to the last week of each month to ensure inclusion in the following month's edition. Please address all correspondence to Ms. Gail Derr, Office of the Director, 4301 Rickenbacker Causeway, Miami, FL 33149. Contributions may also be submitted by fax at (305) 361-4442 or by email (derr@aoml.noaa.gov).

Editor—Kristina Katsaros
Publishing Editor—Gail Derr

The deadline for submitting material to the November issue is October 23, 1998.

Keynotes can be viewed online in PDF format at the following
Internet web site address:
<http://www.aoml.noaa.gov/od/keynotes/keynotes.html>