

NOAA REPORT



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REC'D IN ACQUISITIONS

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July 1993

Marine Ecologist to Manage New Marine Sanctuary:

A marine ecologist with the Massachusetts coastal zone management program has been selected to manage the recently designated Stellwagen Bank National Marine Sanctuary. "Bradley W. Barr has a long-standing association with the federal marine sanctuary program," said Francesca Cava, head of the division of NOAA that administers the nation's 13 marine sanctuaries. "He is probably the one person in Massachusetts who is most closely identified, by the public and principal sanctuary user groups, with the Stellwagen Sanctuary," she added. "We're also delighted that Brad's solid

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background in coastal and ocean management will be brought to the sanctuary program."

The 840-square-mile sanctuary, designated last November, lies in the middle of Massachusetts Bay, about 30 miles east of Boston. It is a major nursery and feeding ground for a variety of marine mammals and is traversed by humpback, fin and northern right whales.

Commerce Secretary Ronald H. Brown was scheduled to dedicate the sanctuary, New England's first national marine sanctuary, in ceremonies at Plymouth, Mass. last month.

"The president has made a clear commitment to a strong environmental policy that protects and preserves our more precious natural wonders and resources. Stellwagen Sanctuary will spur educational, economic

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Marine Forecasts to Improve Thanks to Modernization

Broad improvements in maritime weather services are being implemented to help the millions of Americans who use the nation's inland waterways and oceans for livelihood or pleasure.

The announcement was made at a one-day National Marine Weather Users' Forum in Silver Spring, Md., to discuss the impact on maritime operators of the ongoing modernization and restructuring of the Weather Service. More than 40 executives

attended.

Attendees included operators of ocean-going cargo and passenger ships, fishing fleets, pleasure craft, tug boats, communication companies, port authorities and harbor pilots.

"A large part of the total \$4.2 billion weather service modernization program, including new technology and reorganization, will go to work directly to benefit the millions of people involved in both commercial

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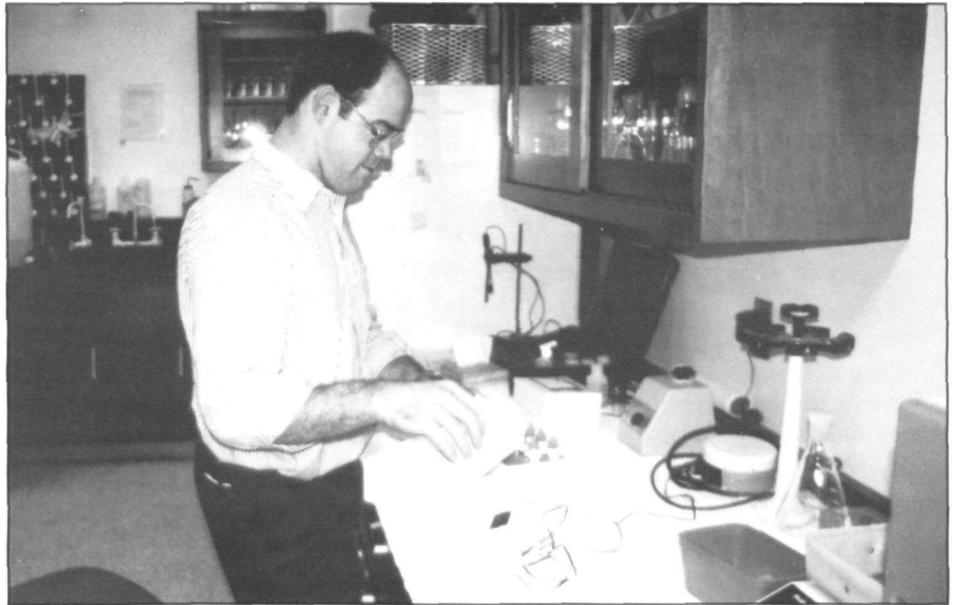
Solomon Awarded Honorary Doctorate

Dr. Susan Solomon (*center*), senior scientist in NOAA's Aeronomy Laboratory in Boulder, Colo., received the robes of an Honorary Doctor of Science from Dr. James Corbridge (*left*), Chancellor of the University of Colorado, and Dr. Bruce Ekstrand (*right*), the University's Vice Chancellor. Solomon was honored in recognition of her ozone research. ☺

S.C. Lab Recruiting Disabled for Careers

For several years Robert Kifer, director of the Charleston, S.C., laboratory of NMFS's Southeast Fisheries Science Center, tried to recruit scientists with disabilities onto his staff. After attempts to find qualified scientists who were also disabled were fruitless, Kifer decided to develop a program aimed at recruiting disabled professionals for the laboratory.

That program, Access Through Science, targets disabled science students, contributes support for graduate training in areas that match the work-scope and mission of the laboratory, provides scientific training, and guarantees work and educational environments that are accessible and meet the individual needs of students. Currently in the pilot stage in



Brian Thompson, the first disabled employee hired under Access Through Science in Charleston, is a biotechnician in the ecotoxicology branch of the lab.

Charleston, the program could spread if it's successful.

Improve Science Education

Caroline Preston, ATS coordinator, believes that the program will increase access to science careers and will improve the quality of science education for the disabled. Most importantly, there is an understanding that many individuals with disabilities have unique needs that extend beyond those of education and employment. If these needs are not met, success, either in work or in learning, may not be possible.

To meet those needs, ATS will offer a support system that will either directly help the student or will assist in obtaining the help they need. A pool of drivers or readers might be needed if the student is blind, for example, or it may be necessary to work with an instructor in the student's graduate program to explain how to adapt testing methods for someone with a learning disability. Another student might need help in the laboratory in terms of specialized equipment or might simply need a bench raised or lowered to accommodate a wheelchair.

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U.S., Japanese Scientists Sign Oceanic, Atmospheric Research Agreement

NOAA and Japanese marine scientists have signed an agreement to maintain a research program studying the role played by the tropical Pacific Ocean in world weather and climate patterns.

Eddie N. Bernard, director of NOAA's Pacific Marine Environmental Laboratory, and Mitsugu Ishizuka, president of Japan's Marine Science and Technology Center, signed the memorandum of understanding in Seattle June 7 after earlier discussions in Washington.

Expands International Collaboration

The agreement is designed to improve each country's research programs and expand collaboration between Japanese and American scientists. It provides for consultations between the two countries in planning research, sharing work and facilities, and exchanging scientific and technical information.

Specifically, the pact ensures continued maintenance in the tropical Pacific of a string of moored ocean current meters and weather buoys critical for understanding what impact that area has on the world's weather and climate. Up to 20 moored buoys will be serviced cooperatively by Japan and the United States west of the international date line as part of the Tropical Ocean-Global Atmosphere Program.

First Act as Administrator

The formal signing followed discussions in Washington, D.C., between Ishizuka and NOAA administrator D. James Baker. It was Baker's first official meeting after being sworn in as head of NOAA earlier that same day, underscoring the importance placed by the United States on continued cooperation in oceanic and atmospheric research with the Japanese. ☺

NOAA-I to Explore Earth's Atmosphere**July Launch Set for New Satellite**

Martin Marietta technicians give NOAA-I a going-over during its manufacturing phase.

A NOAA environmental satellite for monitoring Earth's oceans and atmosphere is set for launch from Vandenberg Air Force Base, Calif., July 13.

NOAA-I, named NOAA-13 once in orbit, will observe a different portion of the Earth's surface on its orbit every 102 minutes. The satellite will view Earth's entire surface and cloud cover once every 12 hours, collecting meteorological and ocean data jointly with NOAA-11 and -12 for direct transmission to users around the world and to central data processing centers.

Data Saves Industry \$5 Billion a Year

NOAA satellite data save more than \$5 billion annually to industries such as agriculture, construction, marine shipping, fishing, construction, utilities and aviation. The data are used for weather forecasting, monitoring ozone depletion, global sea ice, global vegetation, forest fires, atmospheric aerosols, and solar storms.

The satellite will orbit Earth at 470 nautical miles, carrying instruments to determine cloud cover and surface temperature, ozone concentration measurements, and the atmosphere's temperature profile from Earth's surface to the upper stratosphere. In addition, the ARGOS/Data Collection System, provided by France, will receive temperature, pressure and altitude data measured by instruments around the world.

NOAA-13 will also carry search and rescue instruments which pick up distress signals from beacons aboard downed aircraft or vessels at sea and then relay them to Coast Guard or Air Force rescue forces.

NOAA's polar-orbiting satellite program is a cooperative effort with NASA and its Goddard Space Flight Center, Greenbelt, Md. ☺

Advances Seen in Marine Forecasts

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and leisure maritime activities," Louis Boezi, NOAA deputy assistant administrator for weather modernization, said at a news briefing following the forum. **'Great Improvements' Seen**

"We can see great improvements in the next five years in marine forecasting services, nearshore and out to 100 miles at sea. This will result in earlier, more specific warnings and advisories for small boat owners and commercial operators alike," he said.

Improvements, Boezi explained, will result from a network of 42 new long-range Doppler radars installed along coastal locations, a highly perceptive new GOES satellite to be launched next year, a network of automatic observing systems along the coasts

and in Hawaii and Alaska, and restructuring of the maritime forecasting system itself.

Great Lakes & Oceans Covered

Ten of these new weather forecast offices will serve the Great Lakes and 32 will cover the oceans, he reported. The new coastal forecasting structure represents an increase of 18 offices specializing in marine weather services.

The present Weather Service marine warning and forecast program of coastal, offshore and high-seas services will be modified into a two-tiered structure, according to Paul A. Jacobs, Weather Service marine program leader. Coastal forecast areas will be subdivided into "nearshore" and "offshore" zones with coverage extended to 100 miles offshore, Jacobs reported. ☺

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and recreational opportunities as thousands of fishermen, tourists and whale watchers share in this national treasure," Brown said in remarks prepared for the ceremony.

The site, which supports an abundance of sea birds and commercially important fish and shellfish, is the East Coast's major whale-watching area, generating annual revenues of \$20 million in ticket sales. Commercial fishing on the bank, for such species as bluefin tuna, herring, cod, lobster and scallops, is worth about \$23 million annually to the local economy.

Ecotourism Development Videotape Details Habitat Protection Rules: NOAA's latest habitat protection principles and wetland alteration guidelines are available on instructional

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videotape for people interested in the field of ecotourism.

Titled "Agenda For Sustainable Island Tourism Development," the 27-minute videotape promotes enlightened use of an island's natural resources in developing the area for ecotourism—defined as traveling to and enjoying relatively undisturbed natural areas, while imposing minimum impact on the environment. The videotape's content applies National Marine Fisheries Service southeast regional wetland alteration guidelines to sustainable development of an island as an ecotourism stop.

The project is a cooperative effort of NOAA's Office of Habitat Protection and George Washington University's International Institute of Tourism Studies. Copies of the videotape may be ordered from the International Institute of Tourism Studies, George Washington University, 817 23rd St. N.W., Washington, D.C. 20052. ☺

New Childrens Book Series, 'Explorers Club,' Puts Kids in Hurricane Hunter Aircraft

Silver Moon Press, a new childrens book press in New York, has published the first in a series of childrens books featuring NOAA.

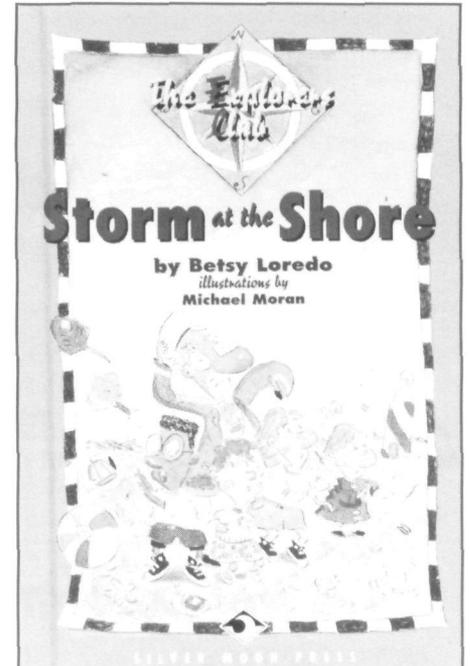
Storm at the Shore, the first in the Explorers Club series, puts the members of the Club right in the path of Hurricane Barry. A mother of one of the members works for NOAA, "check[ing] up on NOAA's projects around the globe." The book also includes a ride on a NOAA P-3, a hurricane hunter airplane which takes measurements from inside a hurricane.

NOAA assisted Silver Moon Press by checking the content and factual accuracy of the book, said David Katz, Silver Moon's publisher.

The book is targeted to 10-to-12 year old children, and Katz says that while the book is available in book-

stores, Silver Moon is stressing the school and library market.

The next book in the Explorers Club series, *Avalanche in the Alps*, which also features NOAA, is currently in the editing stage and should be available soon. ☺



Storm at the Shore, a new childrens book published by Silver Moon Press, New York, features NOAA scientists among its characters.

NMFS Lab Hires Disabled Scientists

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Alliances with Local Government

The variety of possible student needs and the many resources that must be available to meet them has led to an alliance between the Charleston laboratory and local and state institutions and agencies. Kifer and Preston are also expanding existing relationships with local universities and research institutes.

Currently, very few of the country's scientists and engineers are disabled. The goals of Access Through Science are to provide a clear entry to the educational pipeline for the individuals with disabilities, support them so that they can persist and achieve in their careers, and ensure equal access to employment at a level commensurate with the ability of each individual. ☺

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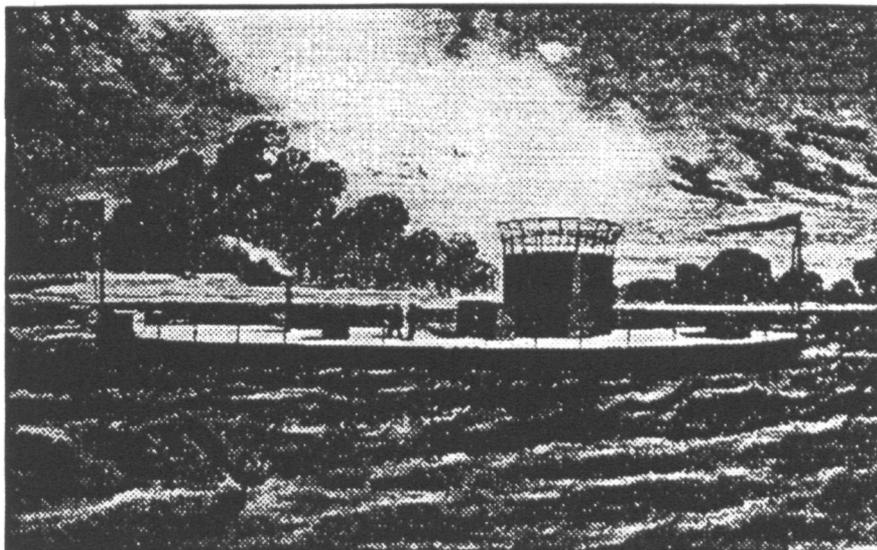
Divers to Test Civil War Wreck, Recover Artifacts

NOAA divers and marine archaeologists will begin a series of underwater expeditions to the sunken Civil War ironclad *U.S.S. Monitor* July 28.

The 173-foot Union ship, whose armor-plated hull and revolving gun turret brought to a dramatic close the era of wooden warships, lies in 230 feet of water 16 miles off Cape Hatteras, N.C., where it sank in a gale in 1862. The expedition will help stabilize the ship's fragile hull and determine the condition of its famous turret.

Diver-scientists will assess the shipwreck for signs of deterioration, retrieve artifacts and conduct tests on the turret to see if it is sturdy enough to be raised.

The dive operation, scheduled to run until Aug. 11, will use



The U.S.S. Monitor, pictured here, lies 16 nautical miles southeast of Cape Hatteras, N.C., in a NOAA Marine Sanctuary.

the Florida-based Harbor Branch Oceanographic Institution's manned submersible *Johnson-*

Sea-Link and an open diving bell. Harbor Branch's research ship *Edwin Link* will be anchored over the shipwreck to support the operation.

This is the third diving expedition NOAA has sponsored to the wreck since the agency designated the *Monitor* as a National Marine Sanctuary in 1975. Past expeditions have recovered important artifacts, including a four-fluked anchor invented by the ship's designer, John Ericsson. ☺

Books Focus on Fish, Marine Mammals

Two recently released NOAA publications focus on fish and marine mammals.

The annual report containing 1992 statistics on U.S. commercial and recreational fisheries in federal and international waters is now available.

Fisheries of the United States, 1992 contains 115 pages of facts and figures on the amount and value of U.S. commercial and recreational landings, processed fishery products, per capita consumption, as well as data on imports and exports, foreign catch, prices and fisheries employment.

The 1992 edition is available by ordering stock number 003-020-00163-7 and sending check or money order for \$8.50 to

continued on next page

EDITOR'S NOTE

The anticipated launch date of the NOAA-1 satellite was changed after NOAA REPORT went to press. The launch is now set for August 7.

Alaska Claims Top Two Fish Ports Again

For the fifth straight year, the Port of Dutch Harbor—Unalaska, Alaska, landed more fish than any other U.S. commercial fishing port and set a record for value of the catch.

The large volume of ground-fish brought to Dutch Harbor in 1992 helped set landings of 736 million pounds of fish, more than two-and-a-half times that of the second leading port.

The Dutch Harbor catch set a record in total value of landings worth more than \$194 million, edging out the Port of New Bedford, Mass., which had held the leading port honors in value since 1989. ●

QUANTITY (millions of pounds)

Rank	Port	1991	1992
1	Dutch Harbor-Unalaska, AK	731.7	736.0
2	Kodiak, AK	287.3	274.0
3	Empire-Venice, LA	309.4	269.1
4	Cameron, LA	289.1	246.0
5	Pascagoula-Moss Point, MS	227.3	177.0
6	Intercoastal City, LA	211.4	175.9
7	Morgan City-Berwick, LA	119.5	130.8
8	New Bedford, MA	106.4	103.3
9	Gloucester, MA	107.2	101.7
10	Los Angeles, CA	141.5	94.9

VALUE (millions of dollars)

Rank	Port	1991	1992
1	Dutch Harbor-Unalaska, AK	\$130.6	\$194.0
2	New Bedford, MA	157.7	151.8
3	Kodiak, AK	96.9	90.0
4	Kenia, AK	13.2	83.0
5	Brownsville-Port Isabel, TX	71.5	54.9
6	Dulac-Chauvin, LA	52.1	52.1
7	Empire-Venice, LA	50.2	50.1
8	Portland, ME	44.1	43.6
9	Point Judith, R.I.	37.5	36.6
10	Cape May-Wildwood, N.J.	40.1	34.9

NMFS Fish, Marine Mammal Publications Out

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Superintendent of Documents, U.S. Government Printing Office (GPO), Washington, D.C. 20402. For credit card orders or more information call GPO at (202) 787-3238.

NMFS's Fisheries Statistics Division has been compiling and publishing the annual report since 1959, providing industry and government organizations with the needed fishery information to make sound management and business decisions.

Stranding Instructions

A manual of instructions for responding to marine mammal strandings is now available. The 316-page handbook titled *Marine Mammals Ashore; A Field Guide for Strandings*, describes options available to federally-authorized

volunteers when caring for four major groups of stranded marine mammals.

NMFS sponsored the manual to guide marine mammal stranding network volunteers in rescuing and rehabilitating live stranded animals and collecting scientific information from dead animals.

"The hard work and dedication of stranding network volunteers often goes unrecognized," said Nancy Foster, NMFS acting director. "This manual will help volunteers standardize the reporting system and improve quality of data, and inform the public of the difficult work of the marine mammal stranding network."

Created by marine mammal expert Joseph R. Geraci and illustrator Valerie J. Lounsbury,

the manual specifies procedures for gathering scientifically valuable data and specimens, reviews clinical techniques and details methods of emergency care and animal transportation.

To order the field guide, write Sea Grant Program, Texas A&M University, P.O. Box 1675, Galveston, Texas 77553-1675. ●

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