

NOAA WEEK

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

R.E. Johnson Sworn In As NOAA General Counsel



From left: Mr. Johnson, Chief of NOAA Personnel Division Guy H. Dorsey, and Dr. White

Raud Earl Johnson was sworn in as General Counsel of NOAA by Dr. Robert M. White, NOAA Administrator, on August 11. Since 1962 Mr. Johnson has been associated with the New York City law firm of White & Case, specializing in general corporate law.

In his new post he will head NOAA's Office of the General Counsel, which provides legal services for all components of the agency.

Born in Milwaukee, Wisconsin, in 1936, Mr. Johnson is a 1958 graduate of Princeton University, where he studied government and economics at the University's Woodrow Wilson School of Public and International Affairs. Under a Fulbright scholarship, he then attended the University of Cologne in Germany. Returning to the United States, he entered Harvard Law School and received his doctor of laws degree in 1962.

Hiring, Promotions Frozen Under New Directives

On August 15, the President in his economic message called for a five percent reduction in Federal employment; also, he imposed restraints on wage increases in addition to certain other actions relating to the national economy.

(Earlier, NOAA had been directed to prepare plans which would result in a reduction of its average GS grade level by .15 by the end of FY 1972 and by another .15 by the end of FY 1973. An explanation of this matter is contained in a memorandum to all employees from Assistant Secretary Jobe dated August 11.)

In order to comply with the President's directives and to move toward the achievement of the dual objective of reducing the average grade and our overall employment with a minimum of adverse impact, the following steps have been taken, effective for a 90-day period:

1. No new hires are to be made to positions within NOAA, whether or not such positions are full-time, part-time, or intermittent.
2. All promotions are frozen.
3. All within-grade salary increases and quality step increases are suspended.

It is recognized that the above actions will cause concern among NOAA's employees and some hardship to certain of our programs. By taking positive steps now and exercising prudent managerial discretion, it is hoped that in the long run the best interests of all will be served.

Further information will be provided as soon as possible concerning the long-term effect within NOAA of the restraints imposed upon us.

NOAA Officials Give Briefing At Marine Technology Meeting

Deputy Administrator Howard W. Pollock led a team of top NOAA officials in briefing members of the Marine Technology Society, August 18, in Washington. Other speakers were Philip M. Roedel, Director, National Marine Fisheries Service; Dr. Gordon G. Lill, Deputy Director, National Ocean Survey; David S. Johnson, Director, National Environmental Satellite Service; and Dr. John W. Townsend, Jr., Associate Administrator of NOAA.

Mr. Pollock discussed the overall direction in U.S. oceanic programs and technology development and NOAA's plans for supporting this development. He reviewed briefly NOAA's recent reorganizational changes designed to provide marine technological capability both at the policy level and at operational levels in each principal operating element, and summarized NOAA's position with respect to industry relationships and the role of the private sector in developing marine technology.

Mr. Roedel talked about the NMFS program for monitoring and assessing the abundance and distribution of major fish species and the additional technology required, such as harvesting gear and equipment for determining the feasibility of mariculture in salt water and river run impoundments.

Dr. Lill outlined the functions of the new NOS Office of Marine Technology, including design and development of a National Data Buoy System and the program of the National Oceanographic Instrumentation Center, and discussed the broad program of technological development required by NOS.

Technological problems arising from the need for better marine environmental prediction, and NOAA's plans for meeting some of them through its environmental monitoring service, were described by Mr. Johnson. He also explained the total technological development program to provide the needed observations from land and oceanic sites and satellite stations.

Dr. Townsend spoke of the potential of deep ocean submersibles and continental shelf laboratories, NOAA's plans for its Manned Undersea Technology program, and for utilizing the already substantial national investment in undersea technology.

Other NOAA personnel who participated in sessions during the conference, held

SAVE THAT DATE!!!!

The first annual NOAA Awards Night will be held on Saturday, October 2, with a dinner-dance at the Indian Spring Country Club, 13501 Layhill Road, Silver Spring, Maryland.

The affair, NOAA's major social event of the year will be highlighted by the presentation of \$1000 awards for outstanding public service, scientific research and achievement, engineering and applications development, and program administration and management. In addition, unit citations for special achievement will be presented.

The cocktail hour--with an open bar--begins at 6:30 p.m. on the terrace, weather permitting. The menu features roast prime ribs of beef. Dancing is from 9:30 to 12:30. Dress is black tie-optional.

To reserve tables of 10, or any other number--for this gala event, send checks to Mrs. Mary Moore, Rm. 221, Building 5, Washington Science Center, Rockville, Md. Tickets are \$12.50 per person.

EDS Helps Update Navy's Pilot Charts

EDS is providing assistance in revising and updating the U.S. Naval Oceanographic Office's series of Pilot Charts, founded on the work of Matthew Fontaine Maury in the nineteenth century. These consist of 69 complete charts of climatic conditions likely to be encountered on the oceans of the world.

Aug. 16-18, were: Dr. Harris B. Stewart, Jr., Director, and Feodor Ostapoff, of the Atlantic Oceanographic and Meteorological Laboratories; Dr. M.D. Grosslein, Dr. Harvey M. Hutchings, Dr. Frederick W. Bell, Dr. Darrel A. Nash, Ernest W. Carlson, Frederick V. Waugh, Richard K. Kinoshita, and Richard F. Fullenbaum of NMFS; Robert B. Abel, Director, Arthur Alexiou, and Robert D. Wildman of the Office of Sea Grant; Dr. Thomas S. Austin, Director of the Environmental Data Service; John G. VanDerwalker of the Manned Undersea Science and Technology Office; and Charles D. Kearse and Thomas Bartholomew of the NOS Engineering Development Laboratory.

Bronze Medals Awarded to Four Weather Service Employees



Robert C. Baskin (left) and Ernest B. Williams

Ernest B. Williams, meteorologist in charge of the National Weather Service Office at Houghton Lake, Mich., has received the Bronze Medal for "35 years of outstanding service in meteorology, fire-weather, aviation, fruit-frost forecasting, and related research." The presentation was made in a brief ceremony at the weather service office by Robert C. Baskin, Chief, Weather Prediction, Central Region headquarters.

Charles B. Johnson, principal assistant of the National Weather Service Forecast Office at Chicago, Ill., won the Bronze Medal "for his 21 years of highly competent, effective, and useful service as a public service forecaster in Chicago. Charles G. Knudsen, Director, NWS Central Region, presented the award to Mr. Johnson.

Donald L. Mark, meteorologist in charge of the National Weather Service Office at Muskegon, Mich., received the Bronze Medal "for over 24 years of extremely competent performance in high quality field office management, fine leadership and direction of staff for weather reporting, important weather surveillance radar program, and with users of the National Weather Service products and services.

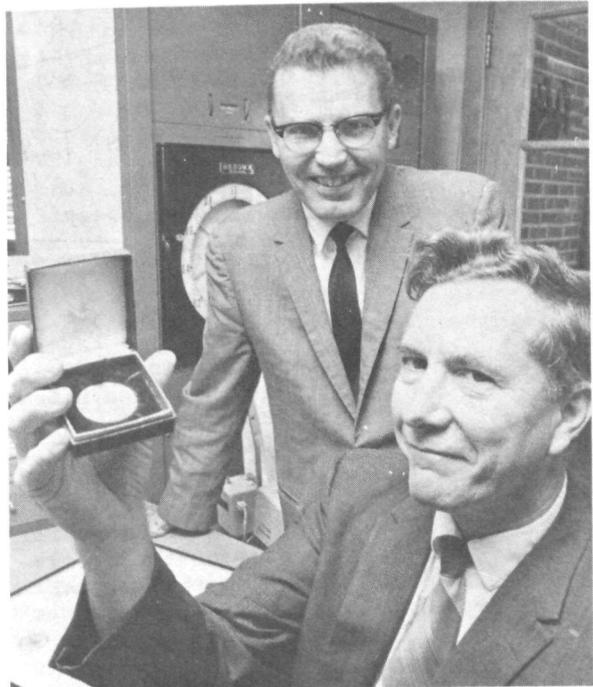
Clodaold R. Sauer, principal assistant and supervisory meteorologist at the Rapid City, South Dakota, Weather Service Office, was awarded the Bronze Medal for his excellent performance as a highly competent principal assistant at Rapid City during the past 15 years. Presenting the award to Mr. Sauer was Charles M. Woffinden, Deputy Director of the NWS Central Region.



Charles B. Johnson (left) and Charles G. Knudsen



Left to right: Harry Hamlin, Donald L. Mark, Jack Sage, Robert Twa, Francis Zillins, and Robert Baskin



Clodaold R. Sauer (foreground) and Charles M. Woffinden

University of Delaware Awarded \$600,000 Institutional Sea Grant

NOAA Deputy Administrator Howard W. Pollock and Robert B. Abel, Director of the Office of Sea Grant, presented a \$600,000 institutional Sea Grant award to the University of Delaware on August 19. Delaware's Governor Russell W. Peterson, Senator J. Caleb Boggs, and Representative Pierre S. du Pont participated in the presentation ceremony.

The university will use the funds to further its comprehensive marine education, research and public service program.

In addition to continuing closed-cycle mariculture activities in a Food-from-the-Sea project financed by its first Sea Grant awarded in 1968, the university studies will include research into man's interaction with the marine environment, geologic aspects of coastal interaction with the marine environment, geologic aspects of coastal development, the analysis of marine systems, and socio-economic factors of coastal zone development and management. Also, the grant will continue to support the university's ocean engineering program and development of a high-school marine science curriculum as part of a joint project tied to the recently funded National Science Foundation Industry Delmod program for high-school science teachers. In addition, the institution's advisory service to Delaware's commercial and recreational groups concerned with coastal and marine activities will be part of the university's Sea Grant Institution program.

Secretary Stans Names Capt. Williams To Great Lakes Basin Commission



Captain Robert E. Williams, Director of the National Ocean Survey's Lake Survey Center in Detroit, has been named to the Great Lakes Basin Commission by Secretary of Commerce Maurice Stans. The new Commissioner will represent the Department on the Federal-

state body which coordinates plans for development of the Great Lakes area for the Federal government and the states of Indiana, Michigan, Minnesota, Ohio, Wisconsin, Illinois, New York and Pennsylvania.

NMFS Marketing Specialists Aid Fish Sales Expansion Plans

NMFS marketing specialists recently met with representatives of the Alaska seafood industry to discuss marketing fresh salmon, live crabs, shrimp, clams, and other seafoods. The marketing specialists provided information and answered questions on current market conditions and trends for the areas around Seward, Homer, and Kodiak, Alaska. In cooperation with industry, the Service's marketing team has been instrumental in expanding air shipments of fresh salmon from Alaska and Washington to midwest and eastern markets; initiating shipments of live Dungeness crab from Alaska to the western states and Hawaii; introducing Washington geoduck clam products to western and midwestern markets; and exposing west coast seafood products to European markets and buyers.

NESS Men Attend Moscow Meeting

Joint USA/USSR working groups on space cooperation met in Moscow, Aug. 2-6. David S. Johnson, Director of the National Environmental Satellite Service, and Arthur W. Johnson, NESS Deputy Director, served as chairman and member respectively of the U.S. group on meteorological satellites. Dr. E. Paul McClain, Director, NESS Environmental Sciences Group, was a member of the working group on the natural environment. Tentative arrangements were made for cooperative experiments using satellites and other facilities of both nations. The recommendations must be formally approved by the National Aeronautics and Space Administration and by the USSR Academy of Sciences.

Southern Corn Leaf Blight Monitoring Operations Evaluated by Dr. G. Barger

Dr. Gerald Barger, Director of EDS' Laboratory for Environmental Data Research, recently visited Indiana to evaluate Southern Corn Leaf Blight monitoring operations being conducted in the Midwest, where Federal agencies and universities are monitoring the spread and severity of the disease. NOAA has set up a dew-recording network and is simulating blight-favorable weather conditions on a computer in Kansas City. The computer successfully classified the weather in July and the first weeks of August as below full potential for rapid increase in plant infection.

Volunteer Weather Observers Honored for Service to Nation

Thirty volunteer weather observers have been selected to receive the National Weather Service's 1971 Thomas Jefferson and John Campanius Holm Awards for their dedicated service.

A network of 12,000 volunteer weather observers scattered throughout the United States and its territories contributes valuable facts and figures about the nation's weather by making and recording daily meteorological observations. The weather information gathered by these cooperative observers is processed and published by the Environmental Data Service, another major component of NOAA, and is an important contribution to the nation's weather history. A few observers receive a small payment for special assignments, but most serve without pay.

Five observers received the Thomas Jefferson Award for unusual accomplishments in meteorological observations. They were: Mr. Ruby Benecke, Brunswick, Mo., for family service dating to 1873; Arthur Bennett, Walton, N.Y.; Paul Carlisle, Alpine, Utah, for family service since 1911; Earl E. Graham, Magnolia, Ark., for 50 years' service; and Cecil R. Lovell, Greenville, Ky. for 55 years' service.

The John Campanius Holm Awards, presented for continued excellence as volunteer weather observers, are named in honor of the first person known to have recorded the weather systematically in the American colonies. Volunteer weather observers who received the John Campanius Holm Awards are: Dr. Z. W. Ankrom, New Martinsville, W. Va.; Frederick J. Back, Red Wing, Minn.; J. L. Braman, Moran, Wyo.; Charles L. Brumley, Ralston, Okla.; Kenneth M. Cain, Clinton, La.; Frank Cimrhakl, Jr., Roy, Mont.; Charles H. Clifford, Brigham City, Utah; Francisco Rosario Cruzado, Morovis, P.R.; Leroy Gates, Thomasville, Ala.; Raymond E. Henderson, Brantley, Ala.; Theodore Jensen, Plover, Wisc.; Mrs. Aileen Jones, Ketchikan, Alaska; J.P. Kelsey, Ottawa, Kans.; Mrs. Rollin Key, Winner, S. Dak.; Mrs. Mona Kurtz, Wauconda, Wash.; Livingston Lansing, Boonville, N.Y.; Edwin H. Learned, St. Helena, Calif.; Mrs. Ida B. LeNord, Fernley, Nev.; Carl J. Neiers, Cascade, Iowa; Walter S. Price, Newark, Ohio; Charles J. Roth, Jr., The Dalles, Ore.; Creighton L. Secor, Hunt, Tex.; Malcolm C. Stewart, Ashburnham, Mass.; Tomas S. Vanasek, Walnut Creek, Calif.; and Mrs. N. Dixie Wineman, Derry, Pa.

L.G. Burdine, Lt. Cdr. Johnson On Special Survey Assignments



L.G. Burdine



Lt. Cdr. P.C. Johnson

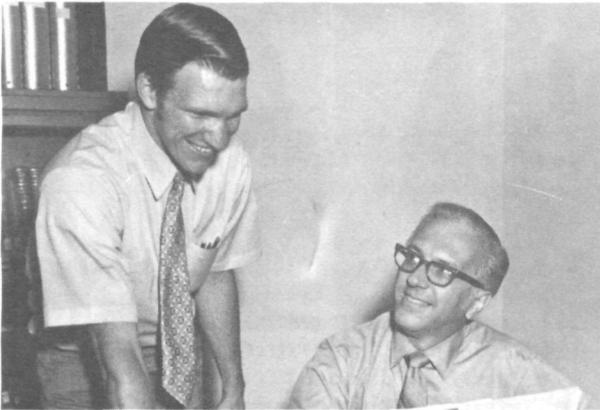
The National Ocean Survey is sponsoring a study of surveying activities in urban areas. The study is being carried out in conjunction with graduate work being done by Lt. Cdr. Philip C. Johnson at Cornell University. Questionnaires seeking information on the evaluation of benefits, surveying operations, and users needs were submitted to some 2500 surveyors and civil engineers in major urban areas. Captain John O. Phillips, Director of the National Geodetic Survey, said the study will enable the agency to better evaluate urban requirements for improved geodetic control.

L. Gilbert Burdine has been selected to coordinate efforts by local, state, and Federal agencies to reestablish horizontal and vertical control networks in Los Angeles County damaged by the February 9 earthquake. Mr. Burdine will work closely with the U.S. Office of Emergency Preparedness, which is funding the program, to insure that surveys are not duplicated and are performed to proper standards of accuracy. He has been with the Commerce Department since 1938, and previously headed Triangulation Field Party G-20. Recently, he has been performing inspection of the various National Geodetic Survey field parties to assure quality control.

Attention, Duckpin Bowlers

The NOAA Mixed Duckpin League will resume its recreational activities beginning Thursday, Sept. 9 at 6 p.m., at the Bethesda Bowl, 7651 Old Georgetown Rd., Bethesda, Md. There is room for full teams or individual bowlers. Further information can be obtained from Nick Alsop (IDS Code 189-5747) or Philip Domras (IDS Code 179-2296).

ADMIN Fellowship Program Seeks Applicants for New Class



ADMIN Fellow Bill Freed (left) and his counselor, Frank Christhilf.

The ADMIN Fellowship Program has been revised to include all NOAA administrative employees in the GS 9-13 grade level, and expanded to include work assignments in all areas within the Office of Administration. The Program is designed to provide select ADMIN personnel from Washington and field units a clearer understanding of the operating divisions in the Office of Administration and other high-level government organizations in the general administrative and support fields.

A new group will be selected this fall, for ADMIN Fellowships lasting from six months to a year. Interested employees should submit applications to AD44 by Oct. 1.

Brochures explaining the new ADMIN Fellowship Program should be available in administrative offices throughout NOAA or personnel offices.

Atlanta Weather Broadcast Begins

The newest station in NOAA's network of VHF-FM weather broadcasts was inaugurated at Atlanta, Ga., August 16. With the transmitting antenna mounted on top of the Equitable Life Assurance Building in downtown Atlanta, the typical reception range will be from 20 to 40 miles. Taped weather information and forecasts will be broadcast 24 hours a day, and can be acquired with special receivers tuned to 162.55 megahertz. A distinctive audio tone signal will be transmitted just preceding a severe weather warning. Radio receivers compatible with this system may be left "electronically on" but will remain muted until the tone signal causes the volume to increase in time to hear the warning message.

Lake Survey Adds Computer For Great Lakes Field Year

The Lake Survey Center Computer Services Division's involvement in the International Field Year for the Great Lakes (IFYGL) has necessitated the acquisition of a new computer to support the basic data-collection system developed for that project.

The division normally provides automated and semi-automated data reduction services; computer programming, systems analysis, and computer operations services for processing and analysis of hydraulic and hydrologic, limnologic (physical, chemical and biological), hydrometeorologic, bathymetric, and ice and snow data. Direct support and programming guidance are provided to engineers and scientists for their own needs. Until now, support has been limited to the Center itself, but the new computer will make it possible to provide service to independent research activities associated with the IFYGL program.

The new equipment will handle the basic data collection from the IFYGL network of buoys and near-shore towers on Lake Ontario collecting surface meteorological data and multi-level hydraulic data, and from shore stations within the Lake Ontario drainage basin collecting multi-level meteorological data. It is capable of receiving collected data from a remote terminal at Rochester, N.Y., by phone line, punched paper tape, punched cards, and magnetic tape; converting the data to scientific units; archiving the converted data in a specified format; and producing a synoptic report and a maintenance report daily. As data from the remote terminal are received, the computer tests them for validity and buffers the data for processing. Scientific users can be serviced while data from the remote terminal are being received.

The use of this new computer will aid NOAA in meeting its commitment as Lead Agency for the U.S. Government for the IFYGL program. The IFYGL program is a major research program consisting of intense realtime hydrometeorological data collection and analysis, involving many government agencies, universities, and private research interests in both the U.S. and Canada. The Field Year is scheduled to start on April 1, 1972, and continue through April 1, 1973.

Trans-Atlantic Traverse Data Analyzed by NOAA Scientists

Information from the first complete geophysical investigation of the sea floor across an entire ocean is being analyzed. According to the project's chief scientist, Dr. Peter A. Rona, analyses now underway are expected to turn up information toward a more thorough and valuable understanding of past and present movements of the continents and rifting of the sea floor; an assessment of oil and mineral deposits in the deep ocean; the employment of the theories of sea floor spreading and plate tectonics in determining where and how oil and mineral deposits are laid down in the earth; and a better understanding of earthquake mechanisms. Known as TAG for Trans-Atlantic Geotraverse, the project was originally recommended in 1968 by the National Academy of Sciences and the U.S. Upper Mantle Committee as an activity for the Environmental Science Services Administration. Under the direction of two NOAA organizations, the Atlantic Oceanographic and Meteorological Laboratories, Miami, and the National Ocean Survey, TAG is part of the U.S. contribution to the International Decade of Ocean Exploration. It began in 1970 and is expected to be completed by 1974. The investigation was carried out between April 6 and June 17 aboard the NOAA Ship DISCOVERER.

Another part of the TAG project is systematic exploration and mapping in the corridor --a 200-mile-wide, 3500-mile-long rift in the ocean floor--to supplement existing data and produce maps including bathymetry (water depth), gravity measurements, magnetics, and sediment thickness. Known as SEAMAP, this activity is conducted by NOS under Dr. Hyman Orlin. Other collaborators in the TAG investigations include Yale University, Florida State University, Texas A&M University, University of Connecticut, and Rensselaer Polytechnic Institute. Scientists of Australia, France, the Federal Republic of Germany, Portugal, and the United Kingdom are also engaged in collaborative work in the project.

I.L. Crabbe Heads Geodetic Party

Ivan L. Crabbe, of Lewiston, Idaho, is the new chief of Geodetic Survey Party G-18. The 16-member group is now conducting triangulation surveys in Arkansas. Mr. Crabbe observed his 30th year with the Federal government this month.

Taggart Is FAIRWEATHER Exec



Cdr. Kelly Taggart is the new Executive Officer of the NOAA Ship FAIRWEATHER. The ship is now engaged in hydrographic surveys in Alaskan waters. Cdr. Taggart has been with the commissioned corps since 1955. He served for five years with the National Ocean Survey's Air Photo Mission and prior to that aboard

the NOAA Ships PATHFINDER, LESTER JONES and HYDROGRAPHER. His last assignment was that of Program Planning and Coordination Officer with the Office of Hydrography and Oceanography.

Instruction Automated at NODC

EDS' NODC recently acquired Video Assisted Instruction (VAI) equipment--a videocorder and TV Monitor--and a course on Job Control Language for the System 360 Computer. VAI is a new technique that allows students to learn at their own pace--by playing back material which they do not understand--and to view instruction at a time convenient to them. Also, in classroom training each student must pay separately for his own instruction, but in VAI purchase of lessons for one individual allows others to take the course tuition free. Presently at NODC, twelve people are taking the sixteen one-half-hour lesson Job Control Language course. A lesson consists of a student guide, text, video tape, and an examination. Additional courses for the computer field, oceanography, meteorology, etc., will be obtained as they become available.



Trainee using VAI equipment

Employees' Picnic Scheduled

All NOAA employees in the Washington area are invited to the NOAA Employees Association's annual picnic, Saturday, September 18, from noon until dark, at the Gaithersburg Fairgrounds. The event features a catered chicken dinner, soft drinks, beer, games and contests. Admission is \$3.00 for each adult, children free. Tickets are available from your Association delegate.

Million-Dollar Sea Grant Awarded

Coastal zone and fisheries research are major fields of effort in the Sea Grant program of the University of Rhode Island, which has just been awarded a \$1,125,000 grant from NOAA. This grant will support the fourth year of Rhode Island's Sea Grant Program, which is under the overall supervision of Dr. John A. Knauss, Provost for Marine Affairs. Additional funds to match at least half the Federal contribution will be made available from non-Federal sources by the University.

The coastal zone management and research program has statewide, regional, and national aspects. Its main focus is an integrated attempt to develop a systems model for resource problems of Narragansett Bay, to permit better prediction and decision-making. Key to this is a physical monitoring program, Bay Watch, under the direction of the university's Ocean Engineering group. Chemical and biological data are also obtained.

Fisheries research in the Rhode Island program includes projects in population dynamics, gear research, marine food technology, marine pathology, and aquaculture.

Also to be continued under the Rhode Island Sea Grant program are two marine advisory services and an educational program.

Library Has a New Name

The new Environmental Science Information Center of EDS has renamed the Geophysical Sciences Library the Marine and Earth Sciences Library. The new name reflects NOAA's emphasis on marine sciences and resources, the Library's extensive holdings in physical oceanography and hydrography, and its initiation of a compact collection of fisheries' information.

Quick Action Saves Yacht

A quick-thinking NOAA commissioned officer took stern measures to keep a yacht from sinking.

Backing firmly against a hole in the yacht, he plugged the leak that was filling the boat with water and causing it to list.

Two wire-drag ships of the Commerce Department's National Oceanic and Atmospheric Administration--the NOAA Ships RUDE and HECK--were surveying coastal waters off Mayport, Florida, for navigational hazards, when they found the yacht in trouble.

Cdr. Merritt Walter, Commanding Officer of the two ships, and Lt. Cdr. Abram Y. Bryson, of Laurens, S.C., donned diving gear and checked the hull of the yacht GOULEE out of Jacksonville, Fla., while a Coast Guard cutter placed two pumps in operation. The pumps, however, were unable to keep up with the influx of water and as the yacht began to list, six children were hurriedly removed from the 50-foot power yacht, now low in the water.

The NOAA divers found that water was rushing through a six-inch exhaust line opening in the transom which had broken loose from the engine. With time running out, Bryson applied his stern to the hole until Walter located a large wood plug and sealed the opening. The yacht began to recover immediately, was soon pumped clear, and escorted home by the Coast Guard. The incident occurred July 28.

Detroit River Statistics

According to records of the Lake Survey Center, the rate of flow of the Detroit River is approximately 178,000 cubic feet per second. This is enough to supply about 600 gallons of water per day to each man, woman and child of the more than 200 million inhabitants of the United States.

Pathfinder Crew Aids Children's Home

The NOAA Ship PATHFINDER paid its annual visit to the Alaska Christian Children's Home in Homer, Alaska, over the July 4 weekend. The visit, an annual affair for many years, gave the children, many of them orphans, a chance to inspect the ship, see a movie and eat ice cream and cake. The ship's complement also donated \$230 and a large amount of usable clothing.

National Oceanic and Atmospheric Administration

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