

noaa week

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Tampa Bay Area Evacuation Maps Are Published

Storm evacuation maps—small scale maps designed to facilitate evacuation of people from endangered areas—have been published for the Tampa Bay area of Florida by the National Ocean Survey.

The four maps include the cities of Tampa, Clearwater, St. Petersburg, Sarasota, Bradenton, Tarpon Springs, Plant City and all or part of the counties of Pasco, Pinellas, Sarasota, Hillsborough, Polk and Manatee.

They show emergency evacuation routes and evacuation centers.

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Fishing Operations Extension Sought

State of Maryland Receives \$160,000 Coastal Zone Grant

NOAA has awarded a \$160,000 grant to the State of Maryland to help it prepare for onshore impacts which could occur from oil and gas production on the Outer Continental Shelf.

The grant supplements earlier funds for the development of Maryland's statewide coastal zone management program, which is aimed at preserving coastal ecosystems and achieving balanced use of the coasts for recreation, development, transportation, housing, agriculture, energy production, and other needs.

Maryland officials said the new grant will enable the State to conduct studies on what types of energy facilities might be placed along Maryland's shores, where, how they might affect critical natural areas, and what additional facilities—such as schools, homes, hospitals—would be needed in the State as a result of offshore drilling.

Pan-Alaska Fisheries, Inc., of Monroe, Wash., is seeking permission to extend the operations of its fishing vessel Royal Sea, formerly known as Sea Freeze Pacific, into all areas of the southwest Pacific and the eastern Indian Oceans, according to the National Marine Fisheries Service.

Federal Government approval is required because the ship was constructed with the assistance of a Federal subsidy from NMFS. As such, its operation is restricted as to the types of fish it may catch, and may not be extended if this would cause economic hardship to operators of other vessels already fishing for these types.

Capital Construction Fund Regulations Are Published

Tax regulations pertaining to the Capital Construction Fund program have been published jointly by the Commerce Department and the Internal Revenue Service.

The program permits fishermen to accumulate funds for construction, improvement, or, in limited cases, acquisition of fishing vessels, by letting them defer paying Federal taxes on income from operation of their fishing vessels. These deferred taxes, in effect, amount to an interest-free loan.

The fishing vessel portion of the program is administered by

the National Marine Fisheries Service.

The regulations were originally proposed in June 1972. Parts have been adopted and are now considered final, while the remainder have been materially revised and are being repropounded.

Persons wishing to comment on the new proposed regulations may direct their comments to Commissioner, Internal Revenue, ATTN: CC:LR:T, Washington, D.C. 20224, through March 29, 1976.

The final and proposed regulations both appeared in the *Federal Register* on January 29, 1976.

Some \$25,000 of the supplemental grant will be allocated for studying urban coastal problems, as part of a joint agreement with the Baltimore Regional Planning Council, officials said. Under that agreement, the Council is receiving an additional \$75,000 from the U.S. Department of Housing and Urban Development to assess urban coastal problems, particularly those along Baltimore Harbor, and incorporate a method for considering them in the state coastal zone management program.

Both the current and earlier grants from NOAA were made by the Office of Coastal Zone Management under provisions of the Coastal Zone Management Act of 1972.

Limited authority was granted for Royal Sea to operate in the North Pacific Ocean when she was built. Later, operations were approved for the Bering Sea, and last November authority was granted to operate in the Atlantic, southeast Pacific (east of 150° longitude), and western Indian Oceans (west of 90° longitude).

The vessel is not permitted to catch or process within 200 miles of the United States east coast, catch within 200 miles of the coast of the United States in the Gulf of Mexico, nor catch yellowfin tuna in the regulatory zone of the Inter-American Tropical Tuna Commission.

The species or groups involved

(Continued on page 3)

NOAA Corps, NMFS, NOS and NWS Appointments Announced

Cdr. Ralph J. Land has been appointed Chief of the NOAA Corps' Commissioned Personnel Division, succeeding Cdr. Christian Andreasen, who has been assigned to sea duty after serving more than three years in the position.

The Commissioned Personnel Division coordinates NOAA policies concerning the commissioned corps,

(Continued on page 3)



Cdr. Land

Dr. Robert W. Hanks has been named Deputy Regional Director of the National Marine Fisheries Service Northeast Region, which encompasses 19 states from Maine to Virginia and inland to the Great Lakes states. The Regional Office is located in Gloucester, Mass.

Since 1974, Dr. Hanks has been Assistant to the Regional Director.

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Dr. Hanks

Cdr. J. Austin Yeager has been appointed Deputy Associate Director for Marine Surveys and Maps in the National Ocean Survey. The position was vacated by Cdr. Donald R. Tibbit, who is now Director of the Lake Survey Center.

Cdr. Yeager, formerly the Commanding Officer of the NOAA Ship McArthur, has been in the NOAA

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Cdr. Yeager

Bernard Zavos, who has been with NOAA's Office of Environmental Monitoring and Prediction for the past five years, is now Chief of the National Weather Service Overseas Operations Division.

He succeeds John C. Straiton, who has retired after 30 years' Federal service. Mr. Straiton was the first Chief of the NWS Communication Division.

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Mr. Zavos

Arctic Marine Bird Research Contract Awarded

The University of Wisconsin at Madison has been awarded a \$32,000 contract by the Environmental Research Laboratories to make the first systematic estimates of seabird populations on the Bering Sea's rugged, remote Pribilof Islands.

The contract is part of a major environmental study conducted by ERL for the Interior Department's Bureau of Land Management, which seeks to determine the probable ecological impacts of oil exploration and development activities on Alaska's Outer Continental Shelf.

Primary objectives of the University research are to obtain precise estimates of breeding seabirds for as many species as possible on the Pribilof Islands, and to explore the possibilities of obtaining refined estimates of additional nesting populations that do not readily lend themselves to conventional census techniques.

From previous observations scientists know that the Bering Sea is frequented by about 40 species of truly marine birds, classified as "sea birds," and 50 or more other species that are at least partially dependent upon the marine environment. Until now no systematic census or population estimates of the Pribilofs' seabirds has ever been attempted although ornithologists for many years have reported their numbers as in the "millions."

Results of the study will provide a population estimate by species against which future changes in Pribilof seabirds can be measured. The scientists hope to document the life histories and ecological relationships of key species and use the data as a baseline on which to estimate any subsequent effects of petroleum exploration and development in this part of the Arctic's Bering Sea.

calendar of events

- February 22-28, 1976 American Congress on Surveying and Mapping/American Society of Photogrammetry Annual Convention. (General Information: David C. Leshner, Publicity Chairman, Route 5, Woodlyn Court, Frederick, Md. 21701; Exhibitors: Paul H. Alban, Deputy Director for Exhibits, 6104 Bryn Mawr Ave., Glen Echo, Md. 20786. 202-227-2232.)
- April 12-16, 1976 1976 Spring Annual Meeting of American Geophysical Union. (Cynthia Beadling, AGU, 1909 K St., N.W., Washington, D.C. 20006. 202-331-0370.)
- Aug. 29-Sept. 3 Chapman Conference on State of Stress in the Lithosphere. Sponsored by the American Geophysical Union. Preliminary registration must be received by March 31. (Cynthia Beadling, AGU, 1909 K St., N.W., Washington, D.C. 20006. 202-331-0370.)
- October 5-8 Second Magnetospheric Cleft Symposium: St. Jovite, Quebec, Canada An AGU Chapman Conference, cosponsored by the National Research Council of Canada and Canadian Association of Physicists. Preliminary registration must be made by March 31. (R.W. Dolan, Executive Secretary, Second Magnetospheric Cleft Symposium, c/o National Research Council of Canada, Ottawa, Ontario, Canada K1A 0R6.)

PARTICIPANTS IN A SEMINAR ON "THE SUPERVISOR AND EEO," held recently at the Sandy Hook Laboratory of the National Marine Fisheries Service Middle Atlantic Coastal Fisheries Center, were

(seated, from left) Dr. James Thomas, Chief, Primary Productivity Investigation; Resource Assessment Coordinator; Dr. Robert Tucker, Chief, Biological Modeling Investigation; Helen Pawlikowski, Administrative Officer, Sandy Hook Laboratory; Darryl Mayberry, Center Administrative Officer; Borj Olla, Chief, Fish Behavior Investigation; Stuart Wilk, Chief, Sportfish Biological Investigation; Douglas Lanyon, Administrative Officer, Milford Laboratory; Dr. Jack Pearce, Director, Ecosystems Investigations; Dr. Carl Sindermann, Center Director; (standing, from left) Dr. Kneeland McNulty, MESA Coordinator; John Holston, Deputy Center Director; Lt. (jg) Theodore Kaiser, Port Captain, National Ocean Survey; Thomas Azarovitz, Chief, Coastal Survey Investigation; Dr. Aaron Rosenfield, Director, Pathobiology Investigations; Robert Reid, Chief, Mid-Atlantic Environmental Investigation; Dr. Robert Murchelano, Chief, Environmental Stress and Disease Investigation; Sheila Jewell, Fishery Biologist; Solomon Adams, Maintenance; Dorothy Wright, Histological Technician; Tony Pacheco, Planning Officer; Nadine Wheatley, Secretary; Shearon Dudley, Fishery Biologist; and (in the insert) Tony Mackel, NOAA Personnel, Seminar Leader; and Joan Dendinger, NOAA Personnel, Seminar Instructor.



The seminar embraced all formally recognized areas of discrimination (race, color, creed, sex, and age) and presentations brought home the fact that unformalized but deeply conditioned predispositions lead ultimately to unconscious discriminatory practices by even the most well-meaning persons.

Tampa Area Evacuation Maps

(Continued from page 1) flooding routes, areas subject to flooding from hurricanes or other high waters, and elevations which could become "safety islands" for storm evacuees. The maps are distributed to state and local officials and community preparedness committees by the National Weather Service and are available also to the public.

Storms, particularly hurricanes, on the Atlantic Coast and in the Gulf of Mexico cause extensive flooding of low-lying coastal regions. The NWS maintains a close watch on the storms, predicting the height of the storm surge and issuing warnings for areas subject to flooding.

Previously, storm evacuation

maps were issued for the Gulf Coast areas of New Orleans, La., to Mobile, Ala., New Orleans to the Mississippi Delta, Houma to New Iberia, La., Galveston to Houston, Tex., and Corpus Christi, Tex.; the Atlantic coast region from Charleston, S.C., to Savannah, Ga.; the Greater Tidewater area of Virginia, including Norfolk; and New York-New Jersey coastal areas, including all of Long Island.

The maps are available to the public for \$2 each from the National Ocean Survey, Distribution Division (C44), Riverdale, Md. 20840.

Dr. Hanks

(Continued from page 1) Director, with major responsibility for program planning.

His 23-year career with NMFS and its predecessors includes service as a Fishery Biologist at Boothbay Harbor, Maine, and Oxford, Md., and later as a program analyst in the NMFS Plans and Policy Development Staff in Washington, D.C.

He received his B.A. in zoology and his Ph.D. in marine zoology from the University of New Hampshire.

NOAA WEEK Distribution

Offices wanting additional copies of NOAA Week may increase their order by writing the Chief, Administrative Operations Division, NOAA, Rockville, Md. 20852, giving the revised number of copies they wish to receive.

Cdr. Yeager

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Corps since 1959.

In 1972, he received a Commerce Department Silver Medal for his role in the world satellite triangulation program. The program resulted in the most accurate measurements ever made for determining the size and shape of the earth. During the program, Cdr. Yeager was Chief of the Satellite and Marine Applications Division, which coordinated the logistic and technical support for 15 field parties throughout the world.

He received his bachelor's degree in civil engineering from Auburn University, Auburn, Ala., and his master's degree, also in civil engineering, from Purdue University, West Lafayette, Ind.

noaa week

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Catherine S. Cawley, Editor
Warren W. Buck, Jr., Art Director

Recent Congressional Activity Of Interest to NOAA Personnel

Late in December, Congress passed a bill providing a cost-of-living increase in pension rates for veterans. Final action came when the House by voice vote approved the version of the bill passed by the Senate earlier to prevent a January 1, 1976, reduction in pensions for more than one million veterans or their survivors.

There had been indications that the President in his budget message would include a recommendation to stop giving Civil Service retirees and their families an extra one percent raise on top of each cost-of-living-triggered pension increase. Such a plan, which would mean smaller future income increases for retirees, would have to be approved by Congress. In his budget message, the President indicated that the budget provides full cost-of-living increases for those receiving Social Security and other Federal retirement benefits, but he also noted a need to adopt certain other reforms of the system in order to protect it for future retirees.

The Senate in late January voted to give the President authority to call to active duty up to 50,000 military reservists for a period of 90 days without a declaration of war or national emergency. More than 800,000 members of the Selected Reserve would be liable to call-up. A companion bill was introduced in the House Armed Services Committee last year, but the panel has not yet considered the measure. Before passing the bill, the Senate adopted an amendment to require that the President must inform Congress of his reasons for ordering a reserve call-up. Congress could then cancel the call-up by concurrent resolution.

The major legislative issues to

be considered for FY 1977 include the Government's consumer protection activities. The budget carries increases for several agencies, including the Food and Drug Administration in the Department of Health, Education, and Welfare, and the Federal Trade Commission. Funds for the Consumer Products Safety Commission would be reduced slightly, and HEW's Office of Consumer Affairs would be funded approximately the same in FY 1977 as it was in FY 1976.

The Senate Commerce Subcommittee on Aviation has planned hearings for early 1976 on a House-passed airport aid bill containing a six-month ban on U.S. landings by the British-French Concorde supersonic jet. Early in February, Transportation Secretary William T. Coleman, Jr., announced a decision to allow Concord landings in Washington and New York on an experimental basis for 16 months.

Cdr. Land

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provides information and services to active and retired officers, develops and monitors career programs, counsels corps members as to statutory benefits, and directs the recruiting and training of new officers.

Cdr. Land joined the Coast and Geodetic Survey, predecessor of the National Ocean Survey, in 1960 and subsequently served at the Fredericksburg Geomagnetic Center, Corbin, Va., and aboard seven vessels. Since July 1974 he has been Chief of Operations at the NOAA Atlantic Marine Center in Norfolk, Va.

He received his bachelor's and master's degrees in geology from the University of Virginia.

A DEPARTMENT OF COMMERCE BRONZE MEDAL was presented recently to Robert E. Lord (left), Supervisory Meteorological

Technician at the National Weather Service Forecast Office in Boise, Idaho, for sustained superior performance in providing observation and communications support to the mission of the NWS in the State of Idaho and the City of Boise. The Award was presented by Rex Warner, Deputy Director of the NWS Western Region.



Modern Solid-State Type Radar In Operation at Fort Smith WSO

A new, modern solid-state type radar now in operation at the Fort Smith, Ark., National Weather Service Office will facilitate earlier and more reliable detection and tracking of severe thunderstorms, tornadoes and flood-producing rains.

EDS To Make Study On OCS for BLM

The Department of the Interior's Bureau of Land Management (BLM) and NOAA have entered into an agreement for "The Summarization and Interpretation of Historical Physical Oceanographic and Meteorological Information for the Mid-Atlantic Outer Continental Shelf (OCS) Region." The study, which will cost BLM \$150,000, covers the Atlantic Coastal region from the coast to the 2,000 meter isobath between 38 degrees and 41 degrees north latitude, and is scheduled for completion by April 1977.

BLM will use the information to evaluate the impact of oil and gas operations on the environment of the Mid-Atlantic OCS area. The study will also provide recommendations for the design of future meteorological and physical oceanographic field studies to eliminate deficiencies in the data base needed.

Analyses will be performed to establish mean circulation patterns and variability, extreme wind and wave conditions, stability of the water column, water masses present, and meteorological factors relating to superstructure icing potential.

The work is to be carried out by the Environmental Data Service, under the direction of its Center for Experiment Design and Data Analysis. Significant parts of the study dealing with historical data acquisition, preparation, and display will be performed by the National Oceanographic Data Center in Washington, D.C., and the National Climatic Center in Asheville, N.C.

It is one of 60 new "local warning radars" being installed in 32 states to supplement the NWS' existing network of 51 long-range radars that constitute the backbone of the Nation's electronic weather surveillance system. They differ from long-range network radars in that they are to be used primarily when severe weather is occurring or threatening, whereas the long-range (WSR-57) radars provide observations routinely, 24 hours a day, rain or shine.

Fort Smith is one of 37 localities where the new local-warning radars will replace obsolete World War II types. In 22 other locations they will fill significant gaps in the Nation's weather-radar coverage, and one will be used for training.

Walter Newman, Official in Charge of the Fort Smith WSO, said the new local-warning radar is a welcome replacement for its predecessor, which had been in use for a quarter of a century and was becoming increasingly unreliable. Vital replacement parts were impossible to buy, he stated, and it was necessary to have them handcrafted under small, costly contracts.

He said that although radar is just one of the many methods for obtaining weather observations—including surface instruments, aircraft, ships, instrumented balloons, satellites and the human eye—it is probably the most important technique for monitoring or forecasting severe weather such as giant thunderstorms, tornadoes and flash floods.

Fishing Extension Sought by Firm

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are trouts, shads, flounders, soles, halibuts, cods, hakes, haddock, redfishes, basses, congers, jacks, mullets, sauries, herrings, sardines, anchovies, tunas, bonitos, billfishes, mackerels, cutlassfishes, sharks, crabs, spiny lobsters, shrimps, prawns, and squid and other mollusks, as they may appear in the areas.

NMFS will not hold a hearing on the application at this time, as it is a continuation of an earlier hearing. However, interested parties may intervene and request a hearing.

Any person desiring to intervene must file a petition of intervention with the Director, National Marine Fisheries Service, NOAA, Washington, D.C. 20235, by February 24, 1976. Parties who intervene or request a hearing will be notified of the time, place, and date of the hearing and will be given ample time to provide needed information.

Notice of this amended application appeared in the *Federal Register* on February 9, 1976.

best fish buys

According to the NMFS National Fishery Education Center in Chicago, the best fish buys for the next week or so are likely to be fresh squid and pollock along the Northeast Seaboard; fresh flounder and sea bass in the Middle Atlantic States, including the D.C. area; fresh oysters and mullet in the Southeast and along the Gulf Coast; monkfish fillets and dressed whiting in the Midwest; Dungeness crab and Columbia River smelt in the Northwest; and Dungeness crab and fresh squid in the Southwest.

notes about people



PARTICIPANTS IN A RECENT MEETING TO PLAN COOPERATIVE RESEARCH on stock assessment of the northern anchovy, held at the La Jolla, Calif., Laboratory of the National Marine Fisheries Service Southwest Fisheries Center, included fisheries scientists from NMFS and the Instituto Nacional de Pesca (INP), Mexico, and representatives from the University of California Scripps Institution of Oceanography (SIO), the California Department of Fish and Game

(CFG), and the United Nations Food and Agriculture Organization (FAO). They were (from left) J. Melcer, INP; D. Lluch, INP; A. Villamar, INP; G. Stauffer, NMFS; E. Castellanos, INP; S. Silva, INP; A. MacCall, CFG; A. Cota, INP; W. Clark, FAO; E. Kasuga, INP; P. Smith, NMFS; D. Kramer, NMFS; H. Frey, CFG; R. Schwartzlose, SIO; R. Keir, FAO; H. Chavez, INP; D. Mackett, NMFS; R. Hewitt, NOAA; J. Zweifel, NMFS; J. Radovich, CFG; and R. Lasker, NMFS.

Lawrence R. Burns has been selected as the new Assistant Director for Meteorology and Management at the National Weather Service Technical Training Center in Kansas City, Mo.



Mr. Burns

He has a B.A. in physical meteorology and a total of 20 years' experience with the Government; six as an instructor in meteorology. He joined the NWS in 1959, at South Bend, Ind., and was assigned to various offices before becoming an instructor at the Training Center in 1969. He was promoted to Senior Instructor in 1973.

Jack E. Fancher, Physical Oceanographer in the Tides Branch of the National Ocean Survey's Oceanographic Division in Rockville, Md., recently spoke at the weekly seminar of the Johns Hopkins University Graduate School of Oceanography on "Harmonic Analysis and Prediction of Tides." Mr. Fancher, who has been with the NOS Oceanographic Division since 1963, received his Masters degree in physical oceanography from the University of Puerto Rico.



Mr. Fancher

Howard Booker and Anthony Bolek of the Lake Survey Center's Engineering Division are redesigning a number of old battery-operated mechanical-clock Geodyne current meters. They are installing the latest digital logic integrated circuitry, including quartz crystal timing circuits, which will enable precision timing. The redesigned instruments will be used in support of the current metering project to be carried out in Lake Michigan during the coming navigation season by ERL's Great Lakes Environmental Research Laboratory.

Mr. Zavos

(Continued from page 1)

tions Division, and served in that capacity for about eight years before becoming Chief of OOPS in 1974.

Mr. Zavos joined the National Environmental Satellite Service in 1963 following his retirement from the Air Force as Chief of the Meteorological Consultant Service of the First Weather Wing in Tokyo, Japan. With NESS, he first was the liaison with NASA on the Nimbus Meteorological Satellites and the Environmental Science Services Administration (NOAA's predecessor) Operational Satellites, and later was Chief of its Planning and Coordination Group.

In 1966-67 he was appointed to the Commerce Science and Technology Fellowship Program, and assigned to ESSA's Office of World Weather Systems, where he assisted in the development of the World Weather Program. From 1967-1970 he served as Special Assistant to the Secretary-General of the World Meteorological Organization for the World Weather Watch and the Global Atmospheric Research Program.

Mr. Zavos received his B.S. from Carnegie Institute of Technology, his M.S. from Massachusetts Institute of Technology, and has done graduate work at Pennsylvania State University.

NOAA Employees Assn. News

The NOAA Employees Association has scheduled three social events for members and guests during March:

—A Spring Dance (with a 16-piece band) on March 6 at the Rosensteel Knights Club, Columbus Hall in Silver Spring, Md.

—A bus trip to the Charles Town Race Track for an evening, including dinner, on March 12; and

—A five-day trip to Bermuda via chartered aircraft, to begin on March 26.

Reservations for all these events must be made early. Call Carl Shutta on 770-7304-770-1999 for reservation tickets, and information.

Credit Union To Meet

The Department of Commerce Federal Credit Union will hold its Annual Meeting on February 20 at 12:00 noon in the Auditorium of the Main Commerce Building.

The highlight of the meeting will be the drawings for the door prizes, which may be won only by members present at the meeting.

The election of members to the Board of Directors and the Credit Committee will begin at the meeting, when ballots will be issued to members showing their Credit Union I.D. cards.

Members unable to attend the meeting may vote in the Credit Union office in Room 7050, Main Commerce, during regular office hours from 10:00 a.m. to 2:00 p.m. on February 23 and 24, or in one of the Branch Offices, located in Room 416, Gramax Bldg., and Room 723, WSC-1, during their regular office hours on February 20, 21 and 24. Ballots will be issued only to members showing Credit Union I.D. cards.

Results of the election will be posted in each Credit Union office by March 1.

Federal Aid Coordinator, Phillip E. Chitwood (right), of the National Marine Fisheries Service Alaska Regional Office in Juneau, recently received an award for Outstanding Male Federal Employee of the Year from Rear Admiral James B. Hayes, President of the Juneau Federal Executive Association. Competition for the award involved hundreds of employees from the capital city of the 49th State. Judged on excellence in community as well as Federal service, Mr. Chitwood's most significant accomplishments were identified with his capacity as a City Assemblyman and Deputy Mayor of Juneau.



Plans Being Drawn for Two New Gages

The National Ocean Survey's Lake Survey Center has contracted with the Detroit District of the Corps of Engineers to prepare design drawings and contract specifications for two new gages which will be located at Ludington, and Essexville, Mich. Donald Rondy of LSC and Richard Price of the Detroit District of the Corps visited the two locations recently to select the

new gage construction sites. The new gages are being added in conjunction with up-grading the gaging stations in accordance with the on-going gage replacement and improvement program.

Data collected from these gages will be added to data used in the Center's primary mission of chartmaking, as well as in lake level forecasting, regulation and flood control.

National Oceanic and Atmospheric Administration

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