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Colorado Lee Wave Experiment Underway in Rockies; Dr. Kuettner, ERL Scientist, Named Joint Project Head

Six research aircraft are participating in the 1970 Colorado Lee Wave Experiment--a cooperative effort involving about 100 scientists, engineers, technicians, and other researchers from universities, government agencies, and private organizations--to probe high winds and turbulence over mountainous terrain.

The project is headed by Dr. Joachim P. Kuettner, Director, Advanced Research Projects, ERL, and Douglas K. Lilly of the National Center for Atmospheric Research, Boulder, Colo. The experiment, underway to Mar. 20, is designed to probe the structure of lee waves that form on the downwind side of mountain ranges such as the Rockies. These lee waves resemble the standing wave that appears in the moving water downstream from a rock in a streambed.

Some of the goals of the experiment

are: (1) to test theories about the conditions under which clear air turbulence is generated by air flowing over mountain topography; (2) to observe and study the destructive downslope winds that occur in the Boulder area during the winter; (3) to study how energies involved in lee waves affect the large-scale behavior of the atmosphere; and (4) to learn more about probing the atmosphere indirectly with radar.

Field program manager for the Lee Wave Experiment is Cleon Biter of the NCAR Research Aviation Facility.

Ellis Burton of the Kansas City, Mo., Weather Bureau Office is one of two forecasters responsible for planning each day's operations with a weather forecast and briefing in the Lee Wave Experiment operations center in the NCAR Mesa Laboratory.

Lillian V. Cottony, ERL Librarian, Wins Commerce Award

Mrs. Lillian V. Cottony, librarian at the ESSA Research Laboratories, recently received the Department of Commerce Bronze Medal at a retirement ceremony in Boulder, Colo. Mrs. Cottony was cited "for a decade of meritorious library service and superior contributions to the scientific program of the Boulder Laboratories." An honor graduate of the University of Denver, she first entered Government service with the National Bureau of Standards in 1935. When NBS' Central Radio Propagation Laboratory became part of ESSA in 1965, Mrs. Cottony transferred along with the Laboratory. All of her 22 years' service has been with the Department of Commerce, except for a year and a half with the Department of Agriculture.



Dr. Wilmot N. Hess, ERL Director, congratulates Mrs. Cottony on award.

Schermerhorn, Howick, and Glenn Awarded Bronze Medals



Left to right: Hazen Bedke, Director, Western Region, and Chester Glenn, Service Operations Evaluation Meteorologist.

Vail P. Schermerhorn, supervising hydrologist at the Weather Bureau's Portland, Oreg., River Forecast Center; Sidney O. Howick, meteorological technician, Weather Bureau Forecast Office, Portland, Oreg.; and Chester L. Glenn, service operations evaluation meteorologist, Western Region headquarters, have been awarded Department of Commerce Bronze Medals for superior Federal service.

Mr. Schermerhorn, who received the award for outstanding leadership in directing the technical program of the Portland River Forecast Center, was cited "for his outstanding knowledge and skill in the field of applied hydrology and for developing subordinate hydrologists to a high degree of proficiency in streamflow and flood forecasting." Mr. Schermerhorn began his Weather Bureau career in Ellensburg, Washington, in 1940. In 1946, he was reassigned to the River Forecast Center in Kansas City, Missouri, and in 1950, transferred to the Portland River Forecast Center.

Sidney O. Howick received the medal "for sustained superior performance in the technical direction of climatic and



Left to right: Vail Schermerhorn, Portland RFC; O. R. Warner, Deputy Director, Western; and Sidney Howick, Substation Network Specialist.

hydrologic substations in the state of Oregon." Mr. Howick has served in the Portland area for the past 11 years. He began his Weather Bureau career in Seattle in 1946.

Orvil R. Warner, Deputy Director of the Weather Bureau Western Region, presented the medals to Mr. Schermerhorn and Mr. Howick during the monthly meeting of the American Meteorological Society in Portland, Oreg., Jan. 31.

Hazen H. Bedke, Director, Weather Bureau Western Region, presented the Commerce Bronze Medal to Chester L. Glenn at ceremonies in the Western Region headquarters, Salt Lake City, Feb. 3. Mr. Glenn was cited "for sustained superior service to the Weather Bureau spanning a period of three decades." After leaving his position as research forecaster in Denver, Colo., in 1964, he was assigned to the Western Region headquarters as service operations evaluation meteorologist. Earlier assignments were at the Billings, Montana, Forecast Office from 1942 to 1953, and the Great Falls, Montana, Forecast Center from 1953 to 1957.

Weather Calls Hit Peak in Suffolk County

When six inches of snow fell in Nassau and Suffolk Counties, New York, on Dec. 27, 1969, the total number of calls on WE 6-1212 (the recorded weather telephone number) set an all-time record. The previous record was established on Feb. 9, 1969.

Woods Named to Freeway Committee

Franklin D. Woods of the Weather Bureau's National Severe Storms Forecast Center, Kansas City, Mo., was one of eight persons named by the Mayor of Kansas City to serve on the South Midtown Freeway Review Committee.

Dr. Cooley Appointed To Head WXAP Branch



Dr. Duane S. Cooley has been appointed chief of the Technical Procedures Branch of the Weather Bureau's Weather Analysis and Prediction Division. Dr. Cooley's last assignment was as Acting Executive Scientist for the U.S. Committee for the Global Atmospheric Research Project (GARP). A World War II veteran of the Army Air Force, he holds bachelor's, master's, and doctor's degrees from the Massachusetts Institute of Technology.

ATS-III Data Aids Snowstorm Surveillance

The first test of a plan developed by the Eastern Region's Scientific Services Division and NESG's Applications Group to use cloud picture information from the geostationary satellite ATS-III to monitor East Coast snowstorms, was made Feb. 9. The satellite is located 22,300 miles above the Equator and the coast of South America and is capable of taking daylight pictures every 15 minutes of the area in which East Coast winter storms develop. The pictures are received at NASA's Rosman, N.C., tracking station directly from the satellite. In the plan, a member of NESG's Applications Group will view and interpret the pictures and relay the meteorological data by conference call to forecast offices at Boston, New York, and Washington, D.C., whose areas of responsibility are most affected by East Coast snowstorms. The data will also be transmitted by teletype to all East Coast users.

Bering Sea Survey Findings Disclosed

A detailed survey of the seabed beneath northern Bering Sea in the area between Alaska and Siberia has uncovered new evidence of the existence of deep sedimentary formations of the type in which oil is often found. Sound wave studies made last summer by the USC&GS Ship SURVEYOR probed into sedimentary formations estimated to be as deep as 7000 feet. The findings were made in a preliminary report by the Coast Survey in collaboration with the U.S. Geological Survey. The seismic studies were made by four geophysicists--Richard B. Perry, the expedition's chief scientist, Fred W. Walton and Harold E. Kaufmann of the Coast Survey, and H. Gary Greene of the Geological Survey.

C&GS Triangulation Teams Complete Antarctic Work

Coast Survey Satellite Triangulation Parties G-8 and G-17 arrived in Perth, Australia, on Feb. 3 after spending more than a year in the Antarctic performing satellite and astronomic observations at Mawson and Casey Stations. The observations were made in conjunction with the Worldwide Geometric Satellite Program in cooperation with the Australian National Antarctic Research Expedition (ANARE). Personnel serving with Party G-8 were Larry D. Hothem, Lt. Bernard N. Mandelkern, Harold W. Wood, and Roy W. Anderson. Party G-17 included Bert D. Holland, Lt.(j.g.) Gerald W. McGill, Stephen P. Kuhn, and Michael L. McGinley. All will receive the Antarctic Service Medal in recognition of their service.

Tsunami Pamphlet Published

A new ESSA pamphlet describing how Alaska's warning system operates during a tsunami emergency, what messages it will transmit as the emergency develops, and what action to take if living in a threatened area, has been published. Copies are available free on request from the Director, Anchorage Field Office, Coast and Geodetic Survey, 632 Sixth Avenue, Room 302, Anchorage, Alaska 99501.



Pictured above are the participants in the Regional Substation Management Conference held recently in Kansas City, Mo. Seated, left to right: David Hill, Southern Region; George Krahl, WBH; Charles Woffinden, Central Region; Louis Billones, Western Region; Oliver Asp, Central Region. Standing, left to right: Keith Shoun, WBH; L. A. Joos, Central Region; Wesley Irvin, WBH; Clarence Jordan, WBH; William Taliaferro, Pacific Region; Marvin Burley, NWRC, Asheville; George Stephenson, Eastern Region; Dale Mohler, Central Region; Harold Kenslow, NWRC, Asheville; Verne Alexander, Central Region; and Alfred Skrede, Central Region.

Length-of-Service Awards



Shown above are Atlantic Marine Center employees who recently received length-of-service awards. Left to right, front row: Lawrence L. Graves, Robert P. Lindsay, and Joseph W. Vonasek, 30 years. Back Row: Thomas F. Farrelly, Leonard T. Austin, and Albert C. Rauck, 15 years; William Stone, 25 years.

The following employees are eligible to receive length-of-service awards during the first quarter of 1970:

WB Eastern Region

40 years - Leonard T. Olson, New York; Edward Sable, Boston. 30 years - Curtis Barton, Youngstown, Ohio; Helen E. Senter, Albany, N.Y.; Ralph M. Evans, Raleigh, N.C.; Eugene R. Alexander, Richmond, Va.; Elmer J. Travers, Bridgeport, Conn.; George Whiteley, Jr., Trenton, N.J.; and William H. Reynolds, Boston. 25 years - Clyde H. Blackwood, Nantucket,

Mass.; Lester L. Levy, Baltimore, Md.; Wayne R. Cornell, Wallops Island, Va.; William M. Beheler, Roanoke, Va.; Robert C. Carpenter, Columbia, S.C.; John H. Quinlan, Erie, Pa.; Richard Fay, Cleveland, Ohio; Robert E. Fleury, Portland, Me.; Ben H. Russler, New York; Kenneth Dieter, Columbia, S.C.; Marie D. Fellechner, Washington, D.C.; and Joseph Prelec, Jr., Cleveland, Ohio. 20 years - Donald L. Willson, Pittsburgh, Pa.; James M. Hand, Washington, D.C.; William J. Coffey, Jr., Atlantic City, N.J.; Seward M. Donaldson, Burlington, Vt.; David E. Plante, Nantucket, Mass.; Patrick T. Dugan, Jr., Pittsburgh, Pa.; and Edward W. Gill, New York.

NWRC, Asheville, N.C.

35 years - Raymond L. Joiner. 30 years - Joseph W. Bailey. 25 years - Lewis A. Blodgett, Gladys D. Gossett, Howard F. Harper, Betty S. Harrell, and Vernon Wiggins. 20 years - Bynum E. Carson, Teodulo S. Diaz, and Herbert Rash.

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National Oceanic and Atmospheric Administration

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