

noaaa week

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AN INTERNATIONAL AGREEMENT FOR SPACE COOPERATION was signed December 10 at the National Aeronautics and Space Administration Headquarters in Washington, D.C., by (from left) Dr. James C. Fletcher, NASA Administrator; Dr. Robert M. White, NOAA Administrator; and Professor Maurice Levy, President of France's Centre National d'Etudes Spatiales (National Center for Space Studies).

Under the new agreement, France will design and build a sophisticated data collection system for NASA's TIROS-N experimental weather satellite scheduled for launch in late 1977 and for the seven NOAA operational satellites to follow.

LSC Monroe Base Now in Operation; Krebs Supervises

The Lake Survey Center's new Marine Base at Monroe, Mich., is now in full operation with the establishment there of the Engineering Division. All personnel and equipment moves from the Survey's Detroit headquarters have been completed.

The new quarters provide, in a centralized location, mooring facilities for the Lake Survey's three vessels and other craft, warehousing, vehicle parking and office space.

Malcolm Krebs has been named Chief of the Engineering Division and in this position will exercise supervision over the Monroe base. He was formerly Chief of the LSC Facilities Division, renamed the Engineering

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OSU Sea Grant To Sponsor Workshops

Over the next several months, Oregon State University/Sea Grant, through its Marine Advisory Program, will be sponsoring a series of workshops for varied (and usually specialized) audiences. The workshops, mostly evening sessions, will be held in several coastal and inland cities in Oregon and will deal with economic, technological, legal and marketing problems facing fishermen, seafood processors and others in marine-related activities.

Specifics on local workshops will be announced in local newspapers one to two weeks before each meeting. Further information may be obtained by contacting any local Marine Extension agent in the state.

Closest Look at Tornado Life Cycle Is Reported

Permits Issued To Alaskan Fishing Group

NOAA has announced that three general permits, which will require U.S. fishermen to take special precautions to protect marine mammals taken incidental to certain commercial fishing operations, have been issued to the United Fishermen of Alaska, Juneau, Alaska, on behalf of all U.S. fishermen.

The general permits for three fishing gear categories were issued in compliance with the regulations issued under the Marine Mammal Protection Act of 1972. The Act was passed to protect, maintain, and if necessary rebuild the populations of marine mammals and, among other things, restricts the taking and importing of marine mammals and marine mammals products. The word "take" means to harass, hunt, capture, or kill or attempt to harass, hunt, capture, or kill any marine mammal.

Because there are times when fishermen might unavoidably take marine mammals during normal fishing operations, regulations provide for the issuance of general permits and certificates of inclusion which allow fishermen to take marine mammals incidental to their commercial fishing operations.

Conditions of the general permits and the certificates of inclusion under the permits require that U.S. commercial fishermen take special measures to avoid seriously injuring or killing marine mammals in their fishing operations. If a marine mammal is killed or seriously injured it must be reported to the National Marine Fisheries Service within a specified time. The report must contain the location, time, and date of the injury or death as well as the identity, number of marine mammals involved, and the circumstances which led up to and caused the death or serious injury.

The three general permits were issued to the United Fishermen of Alaska by NMFS under the

(Continued on page 4)

The entire life cycle of a large tornado that twisted to earth near Union City, Okla., ripped its way through the tiny community of 500, and died over the prairie west of Oklahoma City, was filmed at close range by a team of storm-chasing meteorologists from the Environmental Research Laboratories' National Severe Storms Laboratory in Norman, Okla.

The result of their work on May 24, 1973, is man's best look thus far at the birth, life, and death of one of nature's most destructive phenomena, and the first measurements ever made of tornado wind speeds at different times in the life of the twister.

Dr. Joseph H. Golden and D.W. Purcell presented the results of more than a year's analysis of Union City tornado data at the American Geophysical Union meeting in San Francisco, Calif.

These tornado winds, the NOAA scientists report, fell below some estimates. "For several years," Dr. Golden says, "we've suspected that tornado winds are probably not much more than about 200 miles per hour. This work points in that direction."

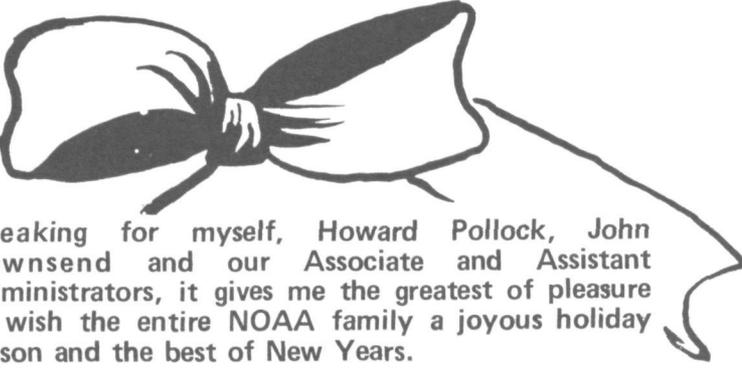
Photogrammetric analysis of the Union City footage, done by tracking from frame to frame easily identifiable cloud "tags" and debris outside the funnel proper showed this distribution of winds.

Maximum wind speeds of from 140 to 185 miles per hour were observed in the large debris cloud about 300 feet above the ground, and extended outward from the funnel walls from 650 to 820 feet.

At the same time, cloud tags rotating around the upper periphery of the tornado funnel had horizontal windspeeds of 10 to 100 miles per hour at distances of from 1300 to 2300 feet from the tornado's center.

Calculations of vertical windspeeds indicated upward motion in the debris cloud of about 30 to 70 miles per hour below 330 feet heights, and 23 to 35 miles per hour in a "feeder band"—a cloud spiral running from the upper portion of the funnel into the larger, parent circulation in

(Continued on page 4)



Speaking for myself, Howard Pollock, John Townsend and our Associate and Assistant Administrators, it gives me the greatest of pleasure to wish the entire NOAA family a joyous holiday season and the best of New Years.

Robert M White

Dr. Robert M. White
NOAA Administrator

'Tis the season to be jolly,
And spread the yuletide holly;
To celebrate with lights and crackling wood.

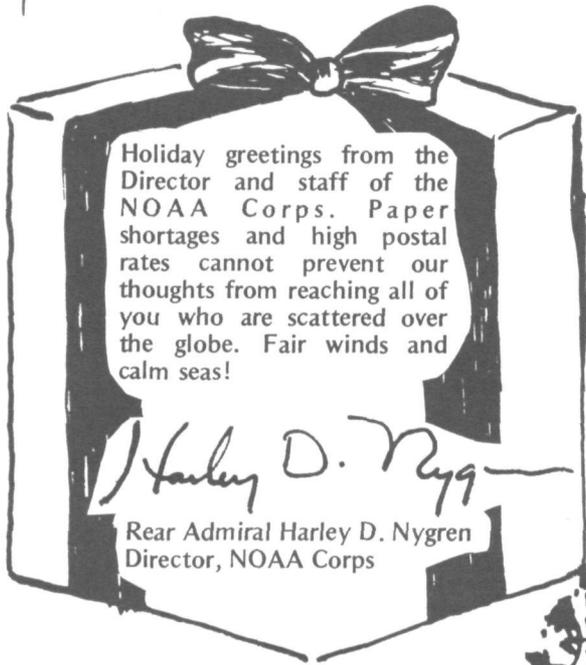
In the Sea Grant workshop merry,
Sit the year-round Santas chary,
Though empty-packed, they join the festive mood.

In both doleful times and sunny,
We offer naught but money.
The things we grant for all must come to good.

To NOAA we give greetings,
And at Christmas cancel meetings.
(We'd also cancel memos, if we could.)

Bob Abel

Dr. Robert B. Abel
Director, National Sea Grant Program



Holiday greetings from the Director and staff of the NOAA Corps. Paper shortages and high postal rates cannot prevent our thoughts from reaching all of you who are scattered over the globe. Fair winds and calm seas!

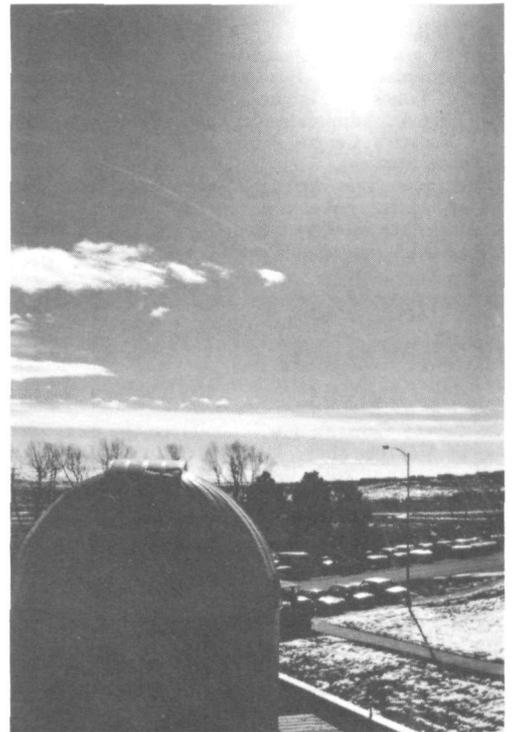
Harley D. Nygren

Rear Admiral Harley D. Nygren
Director, NOAA Corps

As 1974 draws to a close, NESS can call it a happier year than others recently, with the success of SMS-1 and NOAA 4, and TIROS N apparently finally under way. So it's with especially joyful hearts that we send season's greetings and best wishes for 1975 to our NOAA colleagues and their families.

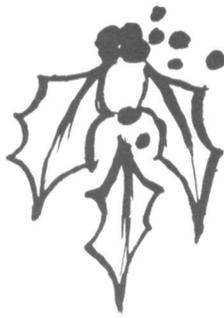
David S. Johnson

David S. Johnson
Director, National Environmental Satellite Service



"... and, lo, the star, which they saw in the east, went before them..." Season's greetings from Dr. Wilmot N. Hess and the staff of the Environmental Research Laboratories.



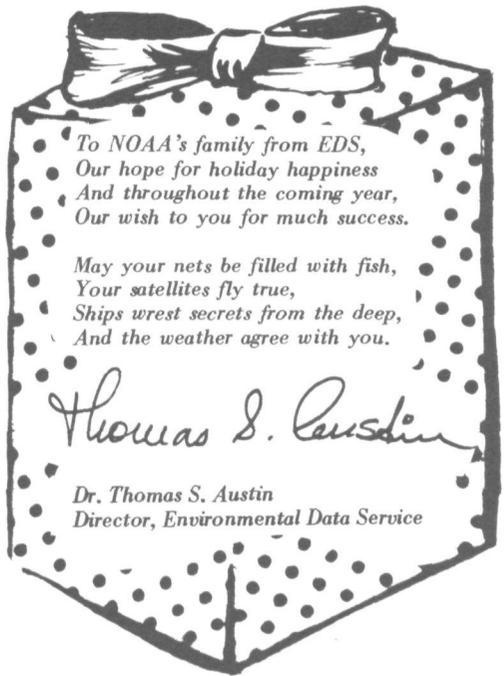


Our office has had a most wonderful year
 Though our Santa delivered a bit in arrear.
 But we hustled and bustled with coastal state grants
 And just made June 30 by the seat of our pants.

We've doubled and trebled our original crew
 And right about now we're not feeling so new.
 We've wrestled some giants and got our feet wet
 And there's more work ahead, we're not half way yet!

So now is the time to tell you all thanks—
 We'd never have made it without NOAA's ranks.
 Here's hoping this next year's a great one for all
 And for things CZM, just drop by or call.

Best wishes for a happy and productive 1975 from the
 Staff of the Office of Coastal Zone Management.



To NOAA's family from EDS,
 Our hope for holiday happiness
 And throughout the coming year,
 Our wish to you for much success.

May your nets be filled with fish,
 Your satellites fly true,
 Ships wrest secrets from the deep,
 And the weather agree with you.

Thomas S. Austin

Dr. Thomas S. Austin
 Director, Environmental Data Service



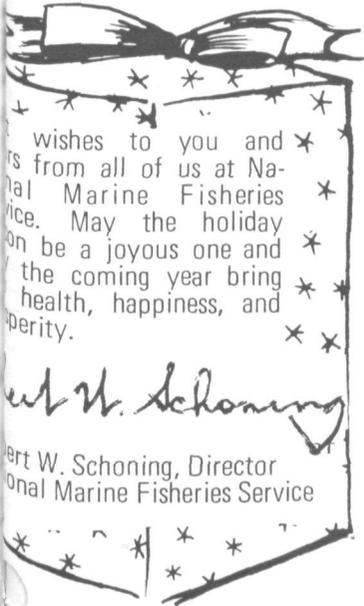
Bob Knecht

Robert W. Knecht
 Director, Office of Coastal Zone Management

Season's greetings and best
 wishes for happiness and
 good fortunes for the New
 Year from the Director and
 Staff of the National Ocean
 Survey.

Allen L. Powell

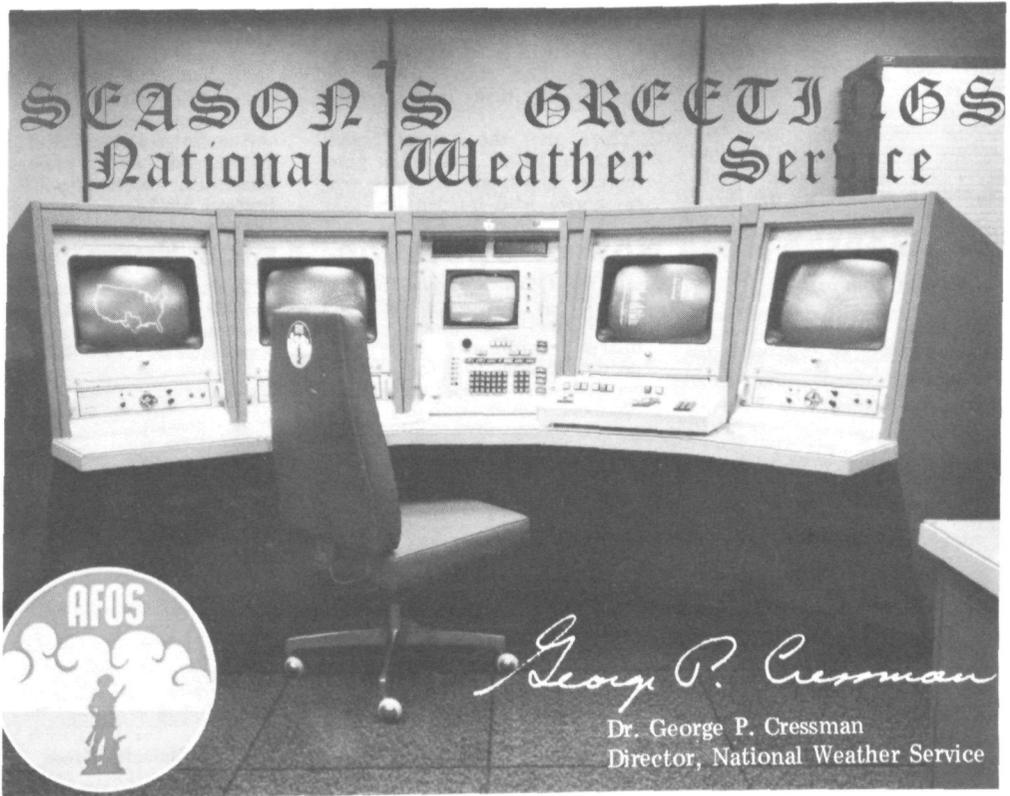
Rear Admiral Allen L. Powell
 Director, National Ocean Survey



wishes to you and
 rs from all of us at Na-
 tal Marine Fisheries
 vice. May the holiday
 on be a joyous one and
 the coming year bring
 health, happiness, and
 perity.

Robert W. Schoning

Robert W. Schoning, Director
 National Marine Fisheries Service



George P. Cressman

Dr. George P. Cressman
 Director, National Weather Service

Closest Look at Tornado Life Cycle Is Reported



THE UNION CITY, OKLA., TORNADO of May 24, 1973, photographed by members of a Tornado Intercept Team from ERL's National Severe Storms Laboratory in Norman, Okla.

Permits Issued to United Fishermen of Alaska

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general categories relating to: encircling gear (seine fishing other than yellowfin tuna), stationary gear, and other gear such as hook and line used in commercial fishing operations. The permits are valid until December 31, 1975, unless amended, suspended, or revoked by the Direc-

tor of NMFS.

The terms and conditions of the general permits and the related certificate of inclusion may be modified to conform to amendments made in the regulations.

Now that the general permit has been issued, individual commercial fishermen in these gear categories who incidentally take

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the tornado-spawning thunderstorm.

These findings are similar to the only other photogrammetric tornado wind measurements, those made from newsfilms of a Dallas tornado fourteen years ago.

One surprising finding was that there was no correlation between the width of the tornado and the severity of the damage along the path of the funnel. That is, although when large, the tornado caused damage along a wider path, the severity of the damage seemed to stay about the same.

The Union City tornado study also indicates that tornadoes and another, less-violent atmospheric whirlwind—the Florida waterspout—may share similar life cycles. This suggests that the tamer waterspout would be an extremely valuable "surrogate" tornado for severe storm researchers.

The Union City tornado study is the most successful effort among several closeup observations of developing tornadoes by the Oklahoma laboratory's Tornado Intercept Project over the last three years. This group, operating from a radio-equipped van, tries to maneuver into position near developing storms, to document developing tornadoes with still and motion picture cameras, including two Skylab cameras furnished by the National Aeronautics and Space Administration.

marine mammals in the course of fishing operations must apply for a certificate of inclusion under the general permits.

Applications for the certificates of inclusion are being accepted at the NMFS Regional Offices in Seattle, Wash.; Terminal Island, Calif.; Gloucester, Mass.; St. Petersburg, Fla.; and Juneau, Alaska.

LSC Monroe Base Now in Operation; Krebs Supervises

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Division.

The Division is responsible for furnishing vessels and small floating equipment for carrying

out the Center's responsibilities, as well as instrumentation and laboratory equipment, automotive equipment and engineering services, and for servicing equipment. New telephone numbers (which will not be on

FTS for about three months) are: Mr. Krebs 313-243-5850; Instrument Branch 313-243-5860; Warehouse 313-243-5870.



The dock at the new Monroe Base.



Malcolm Krebs

Jagler Named MIC At WSFO Milwaukee



Elroy C. Jagler

Elroy C. Jagler has been appointed Meteorologist in Charge of the National Weather Service Forecast Office (for Wisconsin) at Milwaukee, where he has been Principal Assistant since 1973.

He began his NWS career at Milwaukee after service in the U.S. Marine Corps, and later was an Agricultural Forecaster and a Lead Forecaster in Louisville. He was named Outstanding Line Forecaster for the Central Region in 1972.

He received his degree in meteorology from the University of Wisconsin.

Next Week's Best Fish Buys

According to the NMFS National Consumer Educational Services Office in Chicago, the best fish buys for the next week or so are likely to be fresh flounder filets and shrimp along the Northeast Seaboard; fresh bluefish and fluke in the Middle Atlantic States, including the D.C. area; red snapper and redfish in the Southeast and along the Gulf Coast; whiting filets and California squid in the Midwest; fresh Dungeness crabs and canned tuna in the Northwest; and snow crab legs and dressed whiting in the Southwest.

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Catherine S. Cawley, Editor
Anna V. Felter, Art Director



National Oceanic and Atmospheric Administration

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