



noaa week

National Climatic Center

Volume 7

Number 40

LIBRARY

October 1, 1976

Fire Prevention

Message From the Administrator

During the week of October 3-9, NOAA will join in observance of Fire Prevention Week. Incidentally, October 9 marks the anniversary of America's worst fire, the "Chicago Fire" of 1871.

The importance of fire prevention cannot be overemphasized when each year in America over 5,200 people die, and property losses exceed \$1.1 billion as a result of more than 795,800 home fires.

"Learn not to burn" is this year's theme, stressing fire prevention at home. Make yours a fire-safe home by starting a personal campaign for fire prevention in your home. Remember that most fires are avoidable. I strongly urge you to educate yourselves and members of your families in order to prevent fires. Cooperate fully with our agency's fire safety program not only during Fire Prevention Week but all year long.

Dr. Robert M. White
NOAA Administrator

Solar Radiation Calibration Facility Begins Operations at ERL in Boulder

A new Solar Radiation Calibration Facility established by NOAA began operation last month at the Environmental Research Laboratories in Boulder, Colo.

The facility calibrates and provides quality control for a network of solar radiation measurement instruments at 35 National Weather Service stations, and for a limited number of the devices from other sources. The Energy Research and Development Administration is funding the effort.

With interest increasing in solar energy as an alternative source of heat and electricity, engineers and architects need to know the amount of solar radiation reaching the earth's surface to design solar energy conversion systems. The NOAA network of instruments, which make such measurements, records the amount of solar radiation to accuracies of five percent.

Staff members from ERL's Air Resources Laboratories operate the new Boulder facility, consisting of an instrument calibration laboratory and solar radiation measurement unit. The latter contains different varieties of instruments, some of which measure solar radiation throughout the entire solar spectrum

while others concentrate on such regions as the ultraviolet, visible, and infrared.

The laboratory at the new facility will test solar radiation measurement instruments from different manufacturers so NOAA can calibrate all instru-

(Continued on page 3)

Open Houses To Describe Work of 12,000 NOAAites

Great Lakes Data, Information Center May Be Established

An operational plan for establishing a Great Lakes Environmental Data and Information Center (GLEDIC) in Ann Arbor, Mich., will be developed by the University of Michigan under a contract awarded by the Environmental Data Service's Environmental Science Information Center.

The Center is envisioned as a prototype of a planned group of regional coastal information centers designed to serve the environmental, marine, and coastal resource information needs of their regions and ultimately to complement EDS' national data centers as depositories for data and information generated by the states and universities in planning and research activities.

Funds for the study, which is expected to be completed by the end of this month, were trans-

(Continued on page 3)

Weather forecasting offices, research ships and scientific laboratories throughout the United States will play host to the general public this weekend as NOAA celebrates its sixth anniversary.

Open Houses in some locations will be held on other dates, and in some places have already been held.

Another important part of the anniversary celebration will be the presentation of the Annual NOAA Awards to individuals and units at an Awards Luncheon to be held at 11:30 a.m. October 8 in the Bolling Air Force Base Officers' Club.

In the Washington, D.C. Area, an Open House including all NOAA components is being held at the National Weather Service Research and Development Center in Sterling, Va., from 9:30 a.m. to 3 p.m. today and tomorrow.

Concerned with such vital matters as the possible destruction of the atmosphere's ozone shield by man-made pollutants, the effective warning of potential

(Continued on page 4)

U. of Idaho Receives Sea Grant

The University of Idaho has received a \$29,500 Sea Grant to study diseases in chinook salmon reared in aquaculture systems. The grant will be augmented by more than \$25,000 in non-Federal matching funds.

The University is only the third institution in a landlocked state to receive a Sea Grant. The others are the Universities of Arizona and Oklahoma.

Researchers at the University's College of Forestry, Wildlife, and Range Sciences will study bacterial gill disease in young salmon reared in the laboratory and under routine management condi-

(Continued on page 4)



AT THE RECENT OCEANS 76 INTERNATIONAL CONFERENCE in Washington, D.C., Secretary of Commerce Elliot L. Richardson (left) was presented a plaque containing the OCEANS 76 logo and a letter of appreciation for his participation in the annual conference of the Marine Technology Society and the Council on Oceanic Engineering of the Institute of Electrical and Electronics Engineers. The plaque was presented by Joseph R. Vadus, Manager of Advanced Planning in NOAA's new Office of Ocean Engineering, who was overall Chairman of the Conference.

New Federal Pay Scale on page 4

personnel perspective

Current Vacancies in NOAA

To insure that NOAA employees are aware of job possibilities throughout the agency, a list of current NOAA-wide vacancies is published below. Employees interested in any of the listed vacancies

should contact their servicing personnel office for information on where to apply.

Announcement Number	Position Title	Grade	MLC	Location	Issue Date	Closing Date
76-229	Fiscal Asst.	GS-6	NWS	Silver Spring, Md.	9/27/76	10/4/76
76-230	Office Services Asst.	GS-4	HDQS	Suitland, Md.	9/27/76	10/4/76
825-76	Financial Manager	GS-12	HDQS	Silver Spring, Md.	9/21/76	10/5/76
826-76	Supv. Equipment Spec.	GS-12	NWS	Kansas City, Mo.	9/23/76	10/7/76
827-76	Supv. Meteorologist	GS-13	NWS	Louisville, Ky.	9/23/76	10/7/76
828-76	Meteorologist	GS-12	NWS	Indianapolis, Ind.	9/23/76	10/7/76
829-76	Meteorological Tech.	GS-10	NWS	Rochester, Minn.	9/23/76	10/7/76
832-76	Electronics Tech.	GS-10	NWS	Duluth, Minn.	9/23/76	10/7/76
833-76	Meteorological Tech.	GS-9	NWS	Chicago, Ill.	9/23/76	10/7/76
834-76	Supv. Meteorological Tech.	GS-11	NWS	Kotzebue, Alaska	9/23/76	10/7/76
835-76	Instrument Maker Foreman	WS-14	ERL	Boulder, Colo.	9/23/76	10/12/76
831-76	Electronics Tech.	GS-9	NWS	Silver Spring, Md.	9/27/76	10/12/76
837-76	Electronics Tech.	GS-10	NWS	Baltimore, Md.	9/27/76	10/12/76
838-76	Electronics Tech.	GS-10	NWS	Binghamton, N. Y.	9/27/76	10/12/76
840-76	Fishery Administrator	GS-13	NMFS	Gloucester, Mass.	9/27/76	10/12/76
824-76	Director, Office of Engineering	GS-17	HDQS	Silver Spring, Md.	9/21/76	10/13/76
809-76	Supv. Meteorological Tech.	GS-11	NWS	Grand Island, Nebr.	9/10/76	10/14/76
810-76	Meteorologist	GS-13	NWS	Kansas City, Mo.	9/10/76	10/14/76
836-76	Physical Science Administrator	GS-15	EDS	Washington, D.C.	9/23/76	10/15/76
841-76	Electronics Engineer	GS-12	NWS	Silver Spring, Md.	9/30/76	10/15/76
842-76	Hydrologist	GS-12	NWS	Oklahoma City, Okla.	9/30/76	10/15/76
843-76	Meteorologist	GS-12	NWS	Riverside, Calif.	9/30/76	10/15/76
844-76	Geophysicist	GS-9	EDS	Boulder, Colo.	9/30/76	10/15/76
845-76	Supv. Hydrologist	GS-15	NWS	Hartford, Conn.	9/30/76	10/15/76
846-76	Meteorological Tech.	GS-10	NWS	Minneapolis, Minn.	9/30/76	10/15/76
847-76	Meteorological Tech.	GS-10	NWS	St. Cloud, Minn.	9/30/76	10/15/76
848-76	Supv. Geodesist	GS-13	NOS	Rockville, Md.	9/30/76	10/15/76

Note To Applicants For Vacancies In The Department Of Commerce

Department of Commerce Vacancy Announcements require that Commerce employees submit a completed Form CD-261, "Merit Promotion Interest Statement," to apply for vacancies. As most of you are aware, there are two blocks for the applicant's address on the back, so placed that notification of the receipt of the form, and later of the disposition of the vacancy, can be mailed to the applicant in a window envelope.

Applicants often want their interest in a vacancy kept confidential, and are disturbed when these notifications arrive in the interoffice mail and are routinely routed. The Personnel Division attempts to maintain this confidentiality, but, of course, cannot entirely control interoffice routing procedures. Therefore, it is suggested that applicants, wishing to insure confidentiality, complete the CD-261 with their home address; there will then be no question of interoffice routing.

Union Dues Withholding Reminder

NOAA employees who have authorized allotments for the payment of union dues are reminded that their allotments may/will be terminated for, among others, the following reasons:

1. When requested by an employee: requests are processed only twice a year, March 1 and September 1. They must be received by close of business on these two dates in order that the allotment be discontinued effective at the beginning of the first pay period thereafter. All requests received after March 1 or September 1, will result in having the dues deducted at the next effective date.
2. Movement of an employee to an organizational component not represented by the union to which an employee is currently paying dues. Termination of dues withholding will be effective immediately. Action will be initiated by Personnel Division (AD44).
3. Promotion of an employee to a supervisory position. Termination of withholding will be effective immediately. Action will be initiated by Personnel Division (AD44).

New FLSA Complaint System Established

The Civil Service Commission (CSC) has established a new complaint system for investigations and determinations concerning alleged violations of the Fair Labor Standards Act (FLSA).

Employees claiming such violations have taken place have a right to file a complaint directly with CSC. The law itself provides a right for employees to seek redress in U.S. District Courts.

In addition, the CSC will entertain third party complaints from organizations representing employees. Complaints may be of any type, e.g., coverage of positions under the Act; unequal pay for male and female in the same work in the same establishment; nonpayment of overtime for work "suffered and permitted."

The complaint process is simple and outlined as follows:

1. Complaints must be filed within two years of the alleged violation or within three years if willful violation can be proved.
2. Employees may file a complaint with Regional Offices at the CSC in the field, Headquarters Offices in the Washington area. Addresses are available in any servicing personnel office.
3. Agencies will be requested to submit a report which the complainant may review and rebut.
4. If necessary, an on-site investigation will be made.
5. If violations have been found, compliance orders will be issued by CSC and all affected employees will be notified.
6. FLSA complaints may be reopened by the Civil Service Commissioners upon request of employees or agencies, if an explanation of why the case should be re-examined is found to be sufficient.

An employee may also bring action in a U.S. District Court, either as an alternative to the above or after a CSC decision.

The above refers to rights of employees and not to preferred processing of a complaint. Any employee having a complaint should first seek redress or advice from their servicing personnel office.

Annual Leave Restoration

All of the following types of annual leave must be requested and approved, specifically and in writing, before November 5, 1976.

- a. Leave in excess of the employee's personal ceiling.
 - b. Restored leave based on an exigency of the service which ended in 1974, or
 - c. Leave restored in 1974 because of illness or administrative error.
- Recent revisions in Chapter 12 "Leave" of both the NOAA Personnel Handbook (Section 02.13) and in Chapter 10 of the NOAA Vessel Personnel Handbook (Section 02.12) explain in greater detail the conditions for restoring leave that is forfeited. Strict adherence to these requirements is mandatory.

CZM Grant Awarded To Mississippi

The coastal management program in Mississippi, developing a plan to balance future uses of its coast, has received additional funding through a \$33,868 grant from the Office of Coastal Zone Management.

The program is designed to encourage efficient use of coastal areas for recreation, conservation, commercial fishing, agriculture/aquaculture, energy production, and various other competing activities.

Mississippi is in the second year of developing its program with funds received from OCZM.

To develop its program, Mississippi has received \$342,000 through two NOAA grants and added another \$176,000 in State matching money. The latest funds are a supplement to the second year NOAA grant.

State officials indicated that the supplemental funds will be used primarily to reassess the program's goals and outline a plan for meeting them, develop a third year grant application, expand the communications process for soliciting citizens' views on the program, and to draft legislation for implementing the emerging plan.

Solar Radiation Calibration

Data from the NOAA instrument network will receive preliminary processing and checking in Boulder before it is transferred to the Environmental Data Service's National Climatic Center in Asheville, N.C. Scientists there will add other meteorological data, including temperature, precipitation, and amount of cloud cover recorded at the same stations simultaneously and will publish the information for use by solar energy scientists, architects, and engineers.

The solar radiation measurement instruments are installed at NWS stations in Caribou, Maine; Burlington, Vt.; Boston, Mass.; Cleveland, Ohio; Indianapolis, Ind.; Sterling, Va.; Greensboro, N.C.; Nashville, Tenn.; Montgom-



THE FIRST NEGOTIATED AGREEMENT between the American Federation of Government Employees Local 2594 and the National Marine Fisheries Service Fishery Products Inspectors was signed recently at the Northeast Inspection Office in Gloucester, Mass. Shown at the signing are (seated, from left) Vernon Rix, President AFGE Local 2594; Philip McKay, Chief, Northeast Inspection Office; (standing, from left) Melvin Mitchell, Vice-President, AFGE Local 2594; Walter Flaherty, National Representative, AFGE; and James Taormina, Personnel Officer, Northeast Region, NMFS.

ERL Awards Sediment Research Grant

A \$27,882 grant to study the influence of human activities on sediments in the inner New York Bight area has been awarded to the State University of New York at Stony Brook by the Environmental Research Labora-

tories. The grant was made to Professors Oliver A. Schaeffer and William C. Burnett of the Department of Earth and Space Sciences.

Principal objective of the research is to assess man's impact on the sedimentary history of the New York Bight—a 15,000 square-mile area of ocean between Cape May, N.J., and Montauk Point, N.Y.—the site of a major environmental investigation of ERL's Marine Ecosystems Analysis Program.

The SUNY study will use radiometric dating techniques to determine how concentrations of heavy metals are distributed in vertical cores of New York Bight sediment samples, and how this contamination varies with time.

New Coast Pilots 4 and 5 Published

New editions of the two U.S. Coast Pilots which describe the Atlantic Coast from Cape Henry, Va., to Key West, Fla., the Gulf of Mexico coast of the United States, and Puerto Rico and the Virgin Islands, have been published by the National Ocean Survey.

Used primarily by the maritime industry and recreational boaters, the Pilots supplement the navigation information shown on standard nautical charts. They include navigation regulations, outstanding landmarks, channel and anchorage peculiarities, dangers, weather, radio weather broadcasts, routes, pilotage, and port facilities.

The Fourteenth Edition (July 1976) of the *United States Coast Pilot 4, ATLANTIC COAST—CAPE HENRY TO KEY WEST*, and the Ninth Edition (July 1976) of the *United States Coast Pilot 5, ATLANTIC COAST—GULF OF MEXICO, PUERTO RICO, AND VIRGIN ISLANDS*, may be purchased for \$6 each from the National Ocean Survey, Distribution Division (C44), Riverdale, Md. 20840; Atlantic Marine Center (CAM02), 439 W. York Street, Norfolk, VA 23510; or from NOS sales agents throughout the nation.

GLEDIC

(Continued from page 1) referred to EDS from the Office of Coastal Zone Management. If established, GLEDIC's goals will be to increase awareness of existing data and information resources; to enhance their accessibility; to make needed data and information available when no other suitable arrangements exist; and to improve the assessment of the utility of environmental data and information to particular applications.

(Continued from page 1)

ery, Ala.; Tallahassee and Miami, Fla.; Madison, Wis.; Omaha, Neb.; Columbia, Mo.; Bismarck, N.Dak.; Dodge City, Kans.; Lake Charles, La.; Midland, El Paso, and Brownsville, Tex.; Albuquerque, N. Mex.; Grand Junction and Boulder, Colo.; Lander, Wyo.; Great Falls, Mont.; Boise, Idaho; Salt Lake City, Utah; Phoenix, Ariz.; Las Vegas and Ely, Nev.; Seattle, Wash.; Medford, Oreg.; Fresno and Los Angeles, Calif.; and Fairbanks, Alaska.



A FORESTRY WEATHER SEMINAR/TRAINING COURSE for National Weather Service forestry weather—the first large forestry weather meeting in four years and the first NWS Headquarters-sponsored meeting in more than ten years—was held recently at Michigan State University in East Lansing. Participants were (front row, from left) Rich Bailey, NWSH, Silver Spring, Md.; Tom Risher, WSFO Charleston, W. Va.; John Parry, WSFO Minneapolis, Minn.; Bill Work and Ron Haug, WSFO St. Louis, Mo.; C. R. Eggleton, WSO Houghton Lake, Mich.; C. A. Wardman, WSFO Louisville, Ky.; E. J. Ferrick, WSFO Detroit, Mich.; Steve Harned, NWSH; (back row, from left) John Kuhn, NWS Eastern Region, Garden City, N.Y.; Bert Sylvern, WSFO Philadelphia, Pa.; Monte Glovinsky, WSFO Boston, Mass.; Don Haines, U.S. Forest Service, East Lansing; John Smith, NWS Central Region, Kansas City, Mo.; Wally Lancaster, U.S. Forest Service, Boise, Idaho; Jack Frost and Bob Loomis, U.S. Forest Service, E. Lansing; (not in photo) Sam Cobb, State Forester of Pennsylvania, Harrisburg; Dave Seaberg, U.S. Forest Service, Milwaukee, Wis.; and John Chansler, U.S. Forest Service, Upper Darby, Pa.

noaa week

Published weekly at Rockville, Md., by the Office of Public Affairs for the information of employees of the Commerce Department's National Oceanic and Atmospheric Administration.

Articles to be considered for publication should be submitted at least a week in advance to NOAA Week, Room 221, WSC 5, Office of Public Affairs, National Oceanic and Atmospheric Administration, Rockville, Md. 20852.

NOAA Week reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policies of the paper or the Administration.

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



REPRESENTATIVES OF NOAA, THE FEDERAL AVIATION ADMINISTRATION AND AIR WEATHER SERVICE attended the recent Interdepartmental Severe Local Storms Conference in Kansas City, Mo. Participants were (from left) A. M. Donnelly, D. Holmes, G. McCreary, J. Davies, J. Charba, L. G. Shaffer, A. W. Cott, G. Hammond, J. Golden, H. M. Mogil, R. Reap, J. Henderson, R.

Bonesteel, C. Philipp, C. Doswell, R. Coleman, L. Lemon, E. Gross, F. P. Ostby, Jr., W. Bonner, J. Sweeney, E. Ferguson, J. Schaefer, R. Watts, C. J. Callahan, H. McCrabb, W. Hardwick, R. McNulty, D. Burgess, C. Phipps, G. Petersen, T. Speakmon, H. Bedke, P. Calabrese, L. Hughes, G. Kilgore, (not in photo) H. Foltz, C. Knudsen, C. Menges, K. Wilk, A. Pearson and J. Tupaz.

NOAA Celebrating Sixth Anniversary With Open Houses, Awards Luncheon

(Continued from page 1)

natural weather disasters like hurricanes and tornadoes, the management and conservation of marine resources, and the effective utilization of the country's coastal zone, NOAA is involved daily with events that touch the lives of almost every U.S. citizen.

Since October 3, 1970, NOAA has worked towards accomplishing the goal of improving man's understanding and uses of the earth's physical environment and its oceanic life, and this past year, assumed added responsibilities as the result of two new pieces of Federal legislation—the establishment of the 200-mile

fisheries limit and the \$1.2 billion Coastal Energy Impact Funds program.

Activities are conducted by personnel of the National Weather Service, the National Environmental Satellite Service, the National Marine Fisheries Service, the National Ocean Survey, the Environmental Research Laboratories, the Environmental Data Service, the Office of Sea Grant, the Office of Coastal Zone Management, and the NOAA Corps.

NOAA's more than 12,000

employees—scientists, secretaries, divers, pilots and specialists in almost any conceivable area—literally cover the earth in fulfilling their assignments, all designed to improve understanding of the environment around us, and to put that understanding to work.

Dr. Robert M. White, NOAA Administrator, sums the effort up this way: "All of NOAA's

work, whether concerned with the atmosphere and the effect of human activity upon it, or the ocean and the potential it offers, is involved in matters of concern to everyone: our long-term physical well-being, future sources of food and energy, and the maintenance of a harmonious balance between the requirements of nature and those of humankind."

obituaries

Cdr. Carl N. Davis

Cdr. Carl N. Davis, a member of the NOAA Corps since 1963, died September 25 in Bethesda, Md. His last assignment was as a member of the staff of the Deputy Director of the National Geodetic Survey.

Previously, he was the NOAA Liaison Officer to the U.S. Army Field Artillery School at Fort Sill, Okla., and last year was awarded the Army Meritorious Service Medal for his accomplishments there. Earlier, he served as Executive Officer on the NOAA

Ship Peirce, and as a junior officer aboard the Surveyor.

He is survived by his wife, Gloria, and two children, Brenda and Brian, of Germantown, Md.; his mother, Mrs. Ella Davis of Alverda, Pa.; three sisters, Helen Shelby of Cleveland, Ohio, Ethel Walter of Cleveland, Ohio, and Lois Young of Maple Heights, Ohio; and a brother, Ruel Davis, of Barnesboro, Pa.

Don T. Hilleary

Don T. Hilleary, a Senior Scientist with the Special Projects Group of the National Environmental Satellite Service, died September 19.

An expert on infrared sensors for use on satellites and aircraft, he was chief engineer of a team which developed the world's first successful instrument to measure atmospheric temperatures from satellites. This work earned him a Commerce Gold Medal and the second highest award of the American Meteorological Society. Before joining NESS in 1959, he was with the National Hurricane Research Laboratory in Palm Beach, responsible for instrumentation of NOAA's hurricane aircraft.

At the time of his death, Mr. Hilleary was working on instrumentation techniques for the TIROS-N Basic Sounding Unit. He leaves his wife and two daughters.

NOAA Awards Luncheon

There's still time to make reservations for NOAA's 6th Anniversary Awards Luncheon. Key persons, listed on posters in your building, are waiting to take your order for either the Seafood Newburg or the Beef Stroganoff to be served at the gala affair which begins at 11:30 a.m., October 8 at the Bolling Air Force Base Officers' Club near Washington.

U. of Idaho Sea Grant

(Continued from page 1)

tions at the Idaho Department of Fish and Game's Rapid River hatchery.

Dr. George W. Klontz, principal investigator in the Sea Grant project, said little is known about respiratory diseases that occur in salmon raised in aquaculture systems. Such relatively closed systems are ideal for the rapid spread of disease, which can sometimes decimate the fish population of an entire hatchery.

President Ford Authorizes 4.2 - 7.9 Percent Pay Raise

President Ford has authorized an increase in base pay for employees under the General Schedule ranging from 4.2 percent to 7.9 percent.

The raise will be effective October 1 for NOAA Corps Officers and on October 10 for most GS employees. (Below is an unofficial pay table.)

	1	2	3	4	5	6	7	8	9	10
GS-1	\$5,810	\$6,004	\$6,198	\$6,392	\$6,586	\$6,780	\$6,974	\$7,168	\$7,362	\$7,556
2	6,572	6,791	7,010	7,229	7,448	7,667	7,886	8,105	8,324	8,543
3	7,408	7,655	7,902	8,149	8,396	8,643	8,890	9,137	9,384	9,631
4	8,316	8,593	8,870	9,147	9,424	9,701	9,978	10,255	10,532	10,809
5	9,303	9,613	9,923	10,233	10,543	10,853	11,163	11,473	11,783	12,093
6	10,370	10,716	11,062	11,408	11,754	12,100	12,446	12,792	13,138	13,484
7	11,523	11,907	12,291	12,675	13,059	13,443	13,827	14,211	14,595	14,979
8	12,763	13,188	13,613	14,038	14,463	14,888	15,313	15,738	16,163	16,588
9	14,097	14,567	15,037	15,507	15,977	16,447	16,917	17,387	17,857	18,327
10	15,524	16,041	16,558	17,075	17,592	18,109	18,626	19,143	19,660	20,177
11	17,056	17,625	18,194	18,763	19,332	19,901	20,470	21,039	21,608	22,177
12	20,442	21,123	21,804	22,485	23,166	23,847	24,528	25,209	25,890	26,571
13	24,308	25,118	25,928	26,738	27,548	28,358	29,168	29,978	30,788	31,598
14	28,725	29,683	30,641	31,599	32,557	33,515	34,473	35,431	36,389	37,347
15	33,789	34,915	36,041	37,167	38,293	39,419	40,545*	41,671*	42,797*	43,923*
16	39,629*	40,950*	42,271*	43,592*	44,913*	46,234*	47,555*	48,876*	50,197*	
17	46,423*	47,970*	49,517*	51,064*	52,611*					
18	54,410*									

* Actual rates frozen at \$39,600.



National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages

Faded or light ink

Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
July 23, 2010