

# 2003

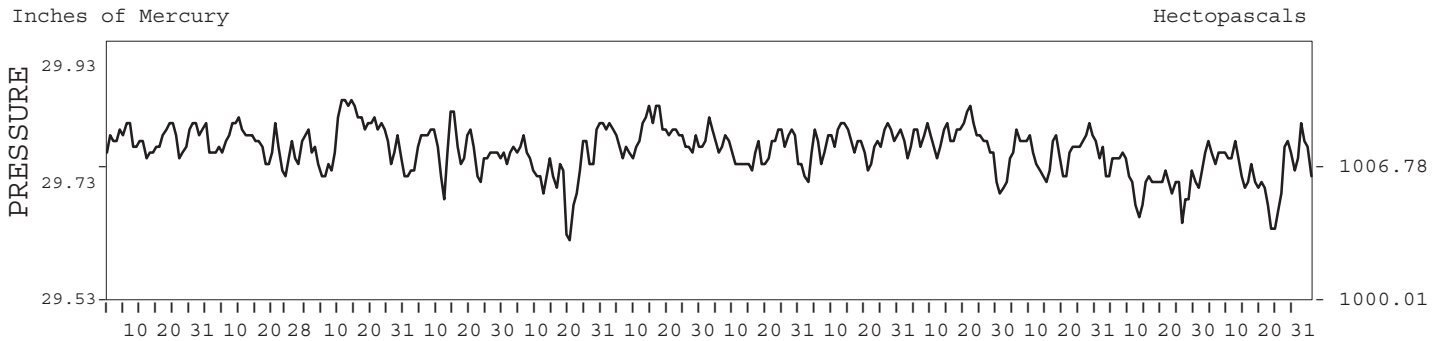
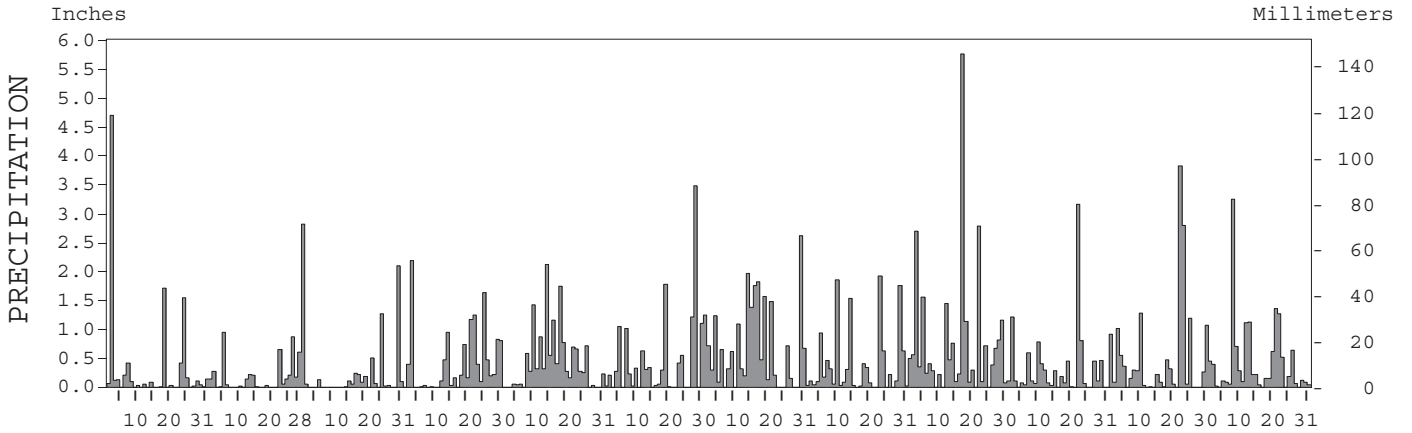
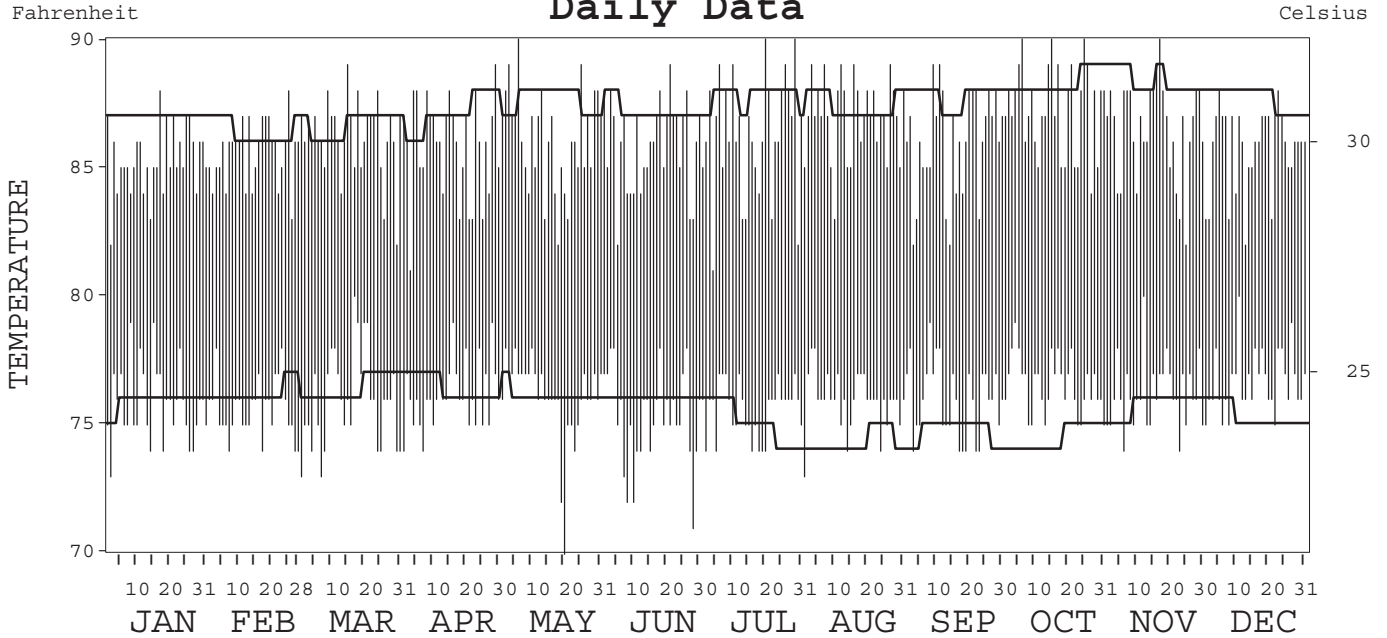
## LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



CHUUK, EASTERN CAROLINE IS.,  
PACIFIC (PTKK)

ISSN 0198-439X

### Daily Data



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,  
AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

*Thomas R. Karl*

NATIONAL  
OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL  
ENVIRONMENTAL SATELLITE, DATA,  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

DIRECTOR  
NATIONAL CLIMATIC DATA CENTER







HEATING DEGREE DAYS (base 65°F) 2003 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0	0	0	0	0	0	0	0	0	0	0	0	0
1984-85	0	0	0	0	0	0	0	0	0	0	0	0	0
1985-86	0	0	0	0	0	0	0	0	0	0	0	0	0
1986-87	0	0	0	0	0	0	0	0	0	0	0	0	0
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0
1989-90	0	0	0	0	0	0	0	0	0	0	0	0	0
1990-91	0	0	0	0	0	0	0	0	0	0	0	0	0
1991-92	0	0	0	0	0	0	0	0	0	0	0	0	0
1992-93	0	0	0	0	0	0	0	0	0	0	0	0	0
1993-94	0	0	0	0	0	0	0	0	0	0	0	0	0
1994-95	0	0	0	0	0	0	0	0	0	0	0	0	0
1995-96	0	0	0	0	0	0	0	0	0	0	0	0	0
1996-97	0	0	0	0	0	0	0	0	0	0	0	0	0
1997-98	0	0	0	0	0	0	0	0	0	0	0	0	0
1998-99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999-00	0	0	0	0	0	0	0	0	0	0	0	0	0
2000-01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001-02	0	0	0	0	0	0	0	0	0	0	0	0	0
2002-03	0	0	0	0	0	0	0	0	0	0	0	0	0
2003-	0	0	0	0	0	0	0	0	0	0	0	0	0

WBAN : 40505

COOLING DEGREE DAYS (base 65°F) 2003 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	508	459	525	511	536	499	507	512	502	513	508	526	6106
1975	522	475	524	522	514	494	501	506	489	501	473	506	6027
1976	507	466	509	483	500	483	512	493	469	524	505	524	5975
1977	515	471	516	517	534	531	529	529	508	538	491	540	6219
1978	514	475	545	520	537	515	546	543	517	528	511	534	6285
1979	533	489	531	511	531	527	529	512	531	513	504	517	6228
1980	507	483	527	531	534	512	496	505	500	483	495	509	6082
1981	501	481	540	534	565	518	557	547	529	543	530	546	6391
1982	557	488	527	538	547	526	540	534	523	533	533	541	6387
1983	497	469	527	540	594	558	528	550	535	550	538	548	6434
1984	513	487	548	556	582	504	590	521	534	530	539	566	6470
1985	517	502	560	517	556	538	526	532	507	550	543	553	6401
1986	530	453	526	542	563	534	538	552	507	537	516	528	6326
1987	530	505	528	512	591	538	509	512	536	565	540	554	6420
1988	542	496	593	567	552	536	556	559	534	536	545	530	6546
1989	555	506	538	503	533	510	520	516	524	536	521	529	6291
1990	533	487	531	527	543	524	516	498	515	531	516	539	6260
1991	516	450	521	524	547	528	529	534	486	532	508	537	6212
1992	512	472	542	540	571	535	542	517	518	546	510	510	6315
1993	498	464	506	507	538	497	545	505	494	519	518	514	6105
1994	519	453	540	529	526	523	498	511	505	529	521	511	6165
1995	513	461	537	495	546	509	509	518	518	533	537	536	6212
1996	514	491	526	501	529	519	542	522	483	509	478	523	6137
1997	512	432	479	503	526	456	482	451	448	487	497	519	5792
1998	503	439	513	542	536	497	508	495	481	481	455	466	5916
1999	453	431	448	434	484	454	448	464	409	479	513	509	5526
2000	542	506	546	546	580	536	531	525	526	526	524	524	6412
2001	505	447	518	517	535	507	516	494	497	514	490	507	6047
2002	492	437	499	470	501	480	494	496	487	520	505	500	5881
2003	489	445	509	489	507	474	500	519	487	535	499	510	5963

SNOWFALL (inches) 2003 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POR= 53 YRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WBAN : 40505

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
---	--

2003  
CHUUK, EASTERN CAROLINE IS.,  
PACIFIC (PTKK)

Truk Atoll, located in the Western Pacific about 500 miles north of the equator, is comprised of numerous small coral and high volcanic islands scattered over a large lagoon and surrounded by a 125 mile-long barrier reef. Moen Island, roughly triangular in shape and 7.3 square miles in area, is the second largest of the 19 volcanic islands. Its highest point is Mount Teroken, which rises to an elevation of 1,214 feet, and has dense, tropical forests covering its upper reaches and small streams descending its slopes.

The Weather Station is situated on northwestern Moen about 300 feet east of Truk Lagoon and immediately south of the approach end of the airport runway.

A steep-sided 754 foot hill lies a short distance northeast of the Weather Station, and a northeast to southwest trending mountain ridge, of which Mount Teroken is part, to the east. In funneling between these high points, the northeasterly trade winds are deflected to north-northeasterly, and at times generate local eddies with a southerly component near the Weather Station.

From about November to June the climate of Truk is chiefly influenced by the northeasterly trade winds, with average monthly speeds of 8 to 12 miles per hour. By about April, however, the trades begin to weaken, and by July have given way to the lighter and more variable winds of the doldrums. Between July and November the island is frequently under the influence of the Intertropical Convergence Zone which has moved northward into the area. This is also the season when moist southerly winds and tropical disturbances, many of them associated with the ITCZ, are most frequent and when humidities are often oppressively high.

Rainfall at Truk averages about 140 inches a year. A relatively dry period occurs from January to March, when monthly averages run below 8.50 inches. February is the driest month. Rainfall varies widely from year to year and seasonally. Annual totals at Truk have been as low as 120 inches and as high as 180 inches, while even during the ordinarily drier season of January to March, the monthly rainfall has been as much as 24 inches in individual years. However, it has also been less than 1 inch, so that extended dry spells are not uncommon.

The temperature is remarkably uniform throughout the year, with less than one-half degree separating the averages of the warmest and coolest months. With highs in the mid 80s and lows in the mid 70s, the daily range is about 10 degrees. Temperatures below 70 degrees are rare. Every month has had a high temperature of at least 90 degrees. Humidities are high throughout the year.

Although the major typhoon tracks of the Western Pacific lie well to the north and west of Truk, several of the storms have passed close to or over the island within recent years. The storms have caused widespread damage to buildings and to coconut palms and other crops, as well as wave damage to shorelines and coastal structures.

# STATION LOCATION

CHUUK, EASTERN CAROLINE IS.,  
PACIFIC

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE  M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAINING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE:  <u>AIRPORT</u>  MOEN IS Truk Atoll Airport	6/5/84	Present	720 ft. WSW	7°27'	151°50'	5	23	6	5	7	3	3		Instruments commissioned 6/12/84. Changed from Truk to Chuuk 5/21/90.			

**For Hard Copy Subscription:**

Price and ordering information: NCDC Subscribing Service Center, 310 State Route 956, Building 300, Rocket Center, WV 26726.

**INQUIRIES/COMMENTS CALL: Toll Free (866) 742-3322**

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

**Non-Subscription Request:**

NCDC Customer Services;

Phone: 828-271-4800

Fax: 828-271-4876

Email: [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE \$300

CHANGE SERVICE REQUESTED

**FIRST CLASS**  
**POSTAGE & FEES PAID**  
 United States Department of Commerce  
 NOAA Permit No. G - 19

\* NOTES: For earlier station history see previous editions.