



AUGUST 2003

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RALEIGH/DURHAM, NC

RALEIGH-DURHAM INTL ARPT (RDU)

Lat: 35° 52' N Long: 78° 47' W Elev (Ground): 427 Feet

Time Zone: EASTERN WBAN: 13722 ISSN #:0198-3784

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED	DIR	SPEED	DIR		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	88	71	80	1	73	74	0	15	TSRA RA BR	0		0.0	0.39	29.60	30.06	5.9	21	6.9	32	27	24	27	01	
02	83	71	77	-2	73	74	0	12	TS TSRA RA BR	0		0.0	0.06	29.61	30.07	5.8	20	6.4	17	21	14	20	02	
03	87	71	79	0	72	74	0	14	RA BR	0		0.0	T	29.59	30.05	7.6	19	8.2	22	19	17	19	03	
04	86	68	77	-2	72	74	0	12	TSRA RA BR	0		0.0	0.54	29.52	29.98	5.7	22	7.3	31	25	26	22	04	
05	85	67	76	-3	70	71	0	11	TSRA RA BR	0		0.0	0.67	29.45	29.91	5.3	22	6.9	28	26	20	25	05	
06	86	67	77	-1	71	73	0	12	RA BR	0		0.0	T	29.42	29.88	1.0	19	2.8	10	11	9	22	06	
07	84	72	78	0	72	73	0	13	RA BR	0		0.0	0.22	29.39	29.85	0.4	02	2.9	10	27	8	26	07	
08	84	69	77	-1	71	72	0	12	TSRA RA BR	0		0.0	0.46	29.43	29.89	1.1	10	4.0	20	19	16	19	08	
09	84	70	77	-1	73	74	0	12	TS TSRA RA BR	0		0.0	1.10	29.47	29.93	5.0	15	6.2	20	15	16	15	09	
10	83	69	76	-2	71	72	0	11	TSRA RA BR HZ	0		0.0	0.22	29.51	29.97	2.6	16	3.6	16	12	14	12	10	
11	86	70	78	0	71	73	0	13	RA BR	0		0.0	T	29.50	29.95	1.5	20	3.9	13	20	10	23	11	
12	86	72	79	1	72	74	0	14	BR HZ	0		0.0	0.00	29.64	30.10	3.8	15	5.1	21	15	16	15	12	
13	87	74	81	3	74	75	0	16	RA BR HZ	0		0.0	0.18	29.81	30.28	1.9	12	3.4	13	11	9	16	13	
14	90	73	82	4	75	76	0	17	RA BR	0		0.0	0.06	29.84	30.31	1.2	13	2.7	23	11	20	11	14	
15	92	70	81	4	73	75	0	16	TSRA RA FG BR HZ	0		0.0	1.98	29.73	30.19	1.8	24	2.9	33*	26	28*	25	15	
16	85	70	78	1	73	74	0	13	TS TSRA RA BR HZ	0		0.0	0.33	29.51	29.97	4.8	23	5.2	32	24	25	24	16	
17	89	72	81	4	73	74	0	16	TS TSRA RA BR HZ	0		0.0	0.01	29.44	29.90	4.7	22	6.2	18	21	15	21	17	
18	87	68	78	1	71	72	0	13	TSRA BR HZ	0		0.0	0.04	29.56	30.02	1.6	05	2.7	22	09	20	10	18	
19	86	68	77	0	71	72	0	12	FG+ BR HZ	0		0.0	0.00	29.68	30.14	4.5	07	5.3	14	07	12	05	19	
20	87	70	79	2	71	73	0	14	BR	0		0.0	0.00	29.70	30.17	2.6	09	3.7	16	14	10	04	20	
21	90	68	79	2	72	74	0	14	BR	0		0.0	0.00	29.64	30.10	2.7	23	3.4	14	23	12	24	21	
22	89	70	80	3	73	74	0	15	TS TSRA FG BR HZ	0		0.0	1.02	29.52	29.98	4.2	24	5.8	32	29	24	29	22	
23	88	69	79	3	72	74	0	14	BR HZ	0		0.0	0.00	29.51	29.96	2.3	05	5.8	15	12	12	08	23	
24	84	68	76	0	64	68	0	11	RA BR	0		0.0	0.00	29.64	30.10	3.2	04	4.1	17	05	13	06	24	
25	87	65*	76*	0	69	72	0	11	BR HZ	0		0.0	0.00	29.63	30.09	5.0	24	5.3	22	24	15	24	25	
26	92	69	81	5	72	74	0	16	BR HZ	0		0.0	0.00	29.56	30.02	3.6	24	4.4	16	24	14	23	26	
27	94*	72	83	7	75	77	0	18	BR HZ	0		0.0	0.00	29.55	30.00	4.5	23	5.2	15	22	13	23	27	
28	93	74	84*	8	74	77	0	19	BR HZ	0		0.0	0.00	29.63	30.09	6.8	23	7.3	16	23	13	23	28	
29	92	74	83	8	74	77	0	18		0		0.0	0.00	29.67	30.13	9.8	23	10.1	21	21	16	21	29	
30	92	74	83	8	73	76	0	18	RA	0		0.0	T	29.70	30.16	8.3	23	8.7	22	28	18	23	30	
31	87	71	79	4	73	73	0	14	TS TSRA RA FG+ BR	0		0.0	1.29	29.77	30.23	0.6	16	2.8	29	21	24	22	31	
87.5 70.2 78.9 ■■										< MONTHLY AVERAGES TOTALS->		0.0 8.57		29.59	30.05	1.7	25	5.1	<- MONTHLY AVERAGES					
0.3 3.0 1.7 ■■										<-----DEPARTURE FROM NORMAL----->		4.79		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.31 DATE: 15-16				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.35 14 0751											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.81 07 1551											
HEATING: 0 -1 0 -1									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 8		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 16									
COOLING: 436 57 1256 -12											MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH : 12									
											THUNDERSTORMS : 13		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0									

AUGUST 2003
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

AUGUST 2003

RDU

WBAN # 13722

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.	
01													01					0.21	T	T		0.07	0.10	0.01		01			0.39
02													02	0.01	0.02	0.03	T	T							T	02			0.06
03													03					T								03			T
04													04								0.02	0.14	0.08	0.50		04	0.50		0.54
05	0.07	0.06	0.05	0.03						T	T		05											0.08		05	0.53		0.67
06													06													06			T
07		T	T	T	0.12	T							07	T	0.02	T										07			0.22
08													08								T	0.05	T			08			0.46
09			0.40	0.16	0.14					T	0.20	0.21	T	09							0.02	T	0.01	0.33	0.04	09			1.10
10	0.16												10	T			0.01	T	T	T	0.01	0.01		0.03	10			0.22	
11	T				T								11													11			T
12													12													12			0.00
13													13				0.18									13			0.18
14													14			0.06										14			0.06
15													15						0.93	1.05	T					15			1.98
16											0.29	0.04	16	T												16			0.33
17													17				T	T				T	0.01			17			0.01
18													18						0.04							18			0.04
19													19													19			0.00
20													20													20			0.00
21													21													21			0.00
22													22		0.18	0.84										22			1.02
23													23													23			0.00
24													24													24			0.00
25													25													25			0.00
26													26													26			0.00
27													27													27			0.00
28													28													28			0.00
29													29													29			0.00
30													30													30			T
31													31	0.16	0.41	0.36	0.34	0.01	0.01					T	31			1.29	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = Extreme for the month (last occurrence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

WEATHER NOTATIONS

RALEIGH/DURHAM, NC
AUGUST 2003

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							4.00	10.00	
02							3.00	10.00	
03							.25	10.00	
04							1.50	10.00	
05							1.00	10.00	
06							4.00	9.00	
07							1.75	10.00	
08							.75	10.00	
09							.75	10.00	
10							3.00	10.00	
11							1.50	10.00	
12							<.25	10.00	
13							4.00	9.00	
14							1.50	10.00	
15							.50	7.00	
16							.50	7.00	
17							3.00	9.00	
18							2.00	8.00	
19							.25	8.00	
20							.25	9.00	
21							1.25	10.00	
22							.50	9.00	
23							1.50	8.00	
24							7.00	10.00	
25							2.50	10.00	
26							1.75	10.00	
27							1.50	8.00	
28							1.75	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							.25	10.00	
MONTHLY AVGS							2.70	9.39	

SUNSHINE (MINUTES)

Total: Possible:

Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

31

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

4 23 3

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

AUGUST 2003

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)									
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0522						AUG 01						SUNSET: 1921						SUNRISE: 0527						AUG 07						SUNSET: 1915					
01	SCT	NC			7.00	74	74	74	100	6	19	29.60	30.06	01	OVC	200			7.00			74	74	74	100	0	00	29.39	29.85						
04	OVC	009			5.00	74	73	73	97	8	22	29.58	30.03	04	OVC	200			2.00	+RA	BR	74	74	74	100	6	28	29.37	29.83						
07	BKN	007			4.00	75	73	74	94	7	21	29.61	30.07	07	OVC	150			5.00	BR		73	72	72	96	3	06	29.39	29.85						
10	BKN	023			7.00	79	73	75	82	12	22	29.62	30.08	10	OVC	037			6.00	BR		75	72	73	90	0	00	29.40	29.86						
13	BKN	200			9.00	83	74	77	74	10	20	29.61	30.06	13	BKN	055			6.00	-RA		78	72	74	82	6	36	29.39	29.85						
16	OVC	180			10.00	85	74	77	70	7	26	29.56	30.02	16	SCT	NC			10.00			84	70	74	63	6	VR	29.35	29.81						
19	BKN	200			10.00	76	74	75	94	12	15	29.58	30.04	19	SCT	NC			9.00			80	72	74	76	3	22	29.37	29.83						
22	OVC	030			5.00	73	72	72	96	0	00	29.62	30.07	22	FEW	NC			4.00	BR		72	72	72	100	0	00	29.42	29.88						
SUNRISE: 0523						AUG 02						SUNSET: 1920						SUNRISE: 0528						AUG 08						SUNSET: 1914					
01	BKN	090			7.00	72	71	71	97	0	00	29.59	30.05	01	BKN	035			6.00	BR		73	72	72	96	5	04	29.42	29.88						
04	BKN	090			5.00	73	72	72	96	8	19	29.58	30.04	04	CLR	NC			9.00			71	69	70	94	3	07	29.41	29.86						
07	BKN	039			4.00	74	73	73	97	7	21	29.61	30.07	07	BKN	150			4.00	BR		73	72	72	96	0	00	29.43	29.89						
10	BKN	020			6.00	77	74	75	90	8	22	29.64	30.10	10	OVC	029			1.25	TSRA	BR	72	71	71	97	0	00	29.45	29.91						
13	OVC	030			4.00	76	74	75	94	10	25	29.63	30.09	13	BKN	150			10.00			79	71	74	77	5	VR	29.44	29.90						
16	OVC	200			10.00	76	74	75	94	0	00	29.59	30.05	16	SCT	NC			10.00			82	71	75	69	3	VR	29.39	29.85						
19	OVC	180			10.00	77	73	74	88	8	16	29.60	30.06	19	BKN	130			10.00			81	73	75	77	6	14	29.41	29.87						
22	BKN	250			10.00	73	70	71	90	8	19	29.64	30.10	22	BKN	110			8.00			71	70	70	96	0	00	29.47	29.93						
SUNRISE: 0524						AUG 03						SUNSET: 1919						SUNRISE: 0529						AUG 09						SUNSET: 1913					
01	BKN	025			10.00	71	70	70	96	3	17	29.63	30.09	01	BKN	014			7.00			73	73	73	100	7	11	29.47	29.92						
04	OVC	002			3.00	72	72	72	100	5	17	29.63	30.09	04	BKN	010			1.25	+TSRA	BR	73	73	73	100	8	18	29.45	29.90						
07	OVC	011			2.00	74	73	73	97	6	22	29.64	30.09	07	BKN	150			3.00	BR		74	74	74	100	0	00	29.48	29.94						
10	BKN	035			10.00	78	72	74	82	9	23	29.65	30.11	10	BKN	038			10.00			79	74	75	85	8	13	29.50	29.96						
13	BKN	049			9.00	84	73	76	70	8	18	29.59	30.05	13	BKN	040			10.00			83	73	76	72	7	17	29.47	29.92						
16	SCT	NC			10.00	83	72	75	70	9	21	29.52	29.98	16	SCT	NC			10.00			82	72	75	72	14	17	29.43	29.88						
19	SCT	NC			10.00	79	72	74	79	9	17	29.53	29.99	19	BKN	130			10.00			78	73	75	85	5	VR	29.47	29.93						
22	BKN	100			10.00	77	72	74	85	10	21	29.56	30.02	22	BKN	034			9.00	RA		70	69	69	97	7	06	29.52	29.98						
SUNRISE: 0525						AUG 04						SUNSET: 1918						SUNRISE: 0530						AUG 10						SUNSET: 1912					
01	BKN	015			10.00	75	73	74	94	9	23	29.54	30.00	01	BKN	120			7.00			71	71	71	100	0	00	29.50	29.96						
04	FEW	NC			10.00	74	72	73	94	6	23	29.52	29.98	04	FEW	NC			7.00			70	70	70	100	5	17	29.50	29.96						
07	OVC	048			10.00	75	72	73	90	7	21	29.55	30.01	07	OVC	050			6.00	BR		71	70	70	96	0	00	29.53	29.99						
10	BKN	180			10.00	77	72	74	85	9	20	29.56	30.02	10	OVC	012			6.00	BR		76	73	74	91	0	00	29.56	30.02						
13	OVC	180			10.00	81	73	75	77	9	25	29.54	29.99	13	BKN	100			6.00	HZ		81	73	75	77	0	00	29.51	29.97						
16	BKN	035			10.00	85	71	75	63	5	VR	29.49	29.94	16	OVC	050			8.00	-RA		73	71	72	94	7	14	29.49	29.95						
19	SCT	NC			10.00	80	73	75	79	5	14	29.48	29.94	19	OVC	130			8.00	-RA		73	72	72	96	7	12	29.48	29.94						
22	BKN	200			8.00	77	75	76	94	6	16	29.49	29.95	22	BKN	110			9.00			70	70	70	100	0	00	29.51	29.97						
SUNRISE: 0526						AUG 05						SUNSET: 1917						SUNRISE: 0530						AUG 11						SUNSET: 1911					
01	OVC	034			5.00	69	69	69	100	9	20	29.50	29.96	01	OVC	012			8.00			71	71	71	100	5	08	29.49	29.95						
04	OVC	006			7.00	68	68	68	100	3	26	29.45	29.91	04	OVC	010			8.00			72	71	71	97	0	00	29.47	29.93						
07	OVC	005			8.00	69	68	68	96	8	23	29.48	29.93	07	OVC	002			2.00	BR		72	72	72	100	0	00	29.50	29.96						
10	SCT	NC			10.00	76	71	73	85	7	VR	29.47	29.93	10	BKN	020			9.00			77	72	74	85	3	VR	29.51	29.97						
13	BKN	180			9.00	83	73	76	72	8	22	29.46	29.91	13	FEW	NC			10.00			83	71	75	67	0	00	29.51	29.96						
16	OVC	250			9.00	84	73	76	70	9	20	29.40	29.86	16	FEW	NC			10.00			85	70	75	61	7	VR	29.47	29.93						
19	BKN	200			7.00	80	72	74	76	6	17	29.42	29.88	19	BKN	250			8.00			80	71	74	74	6	22	29.49	29.94						
22	BKN	029			10.00	69	68	68	96	0	00	29.44	29.90	22	SCT	NC			7.00			77	72	74	85	5	VR	29.53	29.99						
SUNRISE: 0526						AUG 06						SUNSET: 1916						SUNRISE: 0531						AUG 12						SUNSET: 1910					
01	CLR	NC			6.00	68	68	68	100	6	25	29.43	29.89	01	CLR	NC			5.00	BR		72	72	72	100	0	00	29.56	30.02						
04	CLR	NC			5.00	67	67	67	100	3	03	29.40	29.86	04	CLR	NC			4.00	BR		73	72	72	96	8	15	29.57	30.03						
07	OVC	025			5.00	70	69	69	97	0	00	29.44	29.90	07	FEW	NC			4.00	BR		72	70	71	94	3	VR	29.61	30.06						
10	BKN	016			9.00	78	71	73	79	0	00	29.46	29.92	10	FEW	NC			7.00			81	72	75	74	5	19	29.64	30.10						
13	BKN	030			8.00	82	71	75	69	3	VR	29.43	29.90	13	BKN	060			5.00	HZ		86	73	77	65	7	VR	29.65	30.11						
16	BKN	055			8.00	83																													

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

AUGUST 2003

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0532 AUG 13						SUNSET: 1909						SUNRISE: 0537 AUG 19						SUNSET: 1901											
01	OVC	250			7.00	74	73	73	97	3	13	29.74	30.20	01	BKN	040			5.00	BR	69	69	69	100	0	00	29.64	30.09	
04	OVC	004			7.00	74	73	73	97	5	17	29.77	30.23	04	OVC	030			7.00		68	68	68	100	0	00	29.63	30.09	
07	OVC	160			6.00	75	73	74	94	3	13	29.81	30.27	07	OVC	001			0.25	FG	70	70	70	100	6	04	29.68	30.14	
10	BKN	036			6.00	79	73	75	82	3	19	29.85	30.31	10	OVC	006			2.00	BR	74	72	73	94	3	02	29.72	30.18	
13	BKN	049			8.00	84	73	76	70	6	VR	29.84	30.30	13	BKN	046			7.00		82	72	75	72	7	13	29.70	30.15	
16	BKN	250			7.00	84	76	78	77	5	08	29.81	30.27	16	BKN	049			8.00		84	70	74	63	5	08	29.67	30.13	
19	BKN	250			8.00	81	75	77	82	3	07	29.81	30.27	19	CLR	NC			7.00		78	72	74	82	6	08	29.68	30.14	
22	BKN	250			7.00	76	74	75	94	0	00	29.85	30.31	22	SCT	NC			6.00	BR	75	72	73	90	6	11	29.72	30.18	
SUNRISE: 0533 AUG 14						SUNSET: 1907						SUNRISE: 0537 AUG 20						SUNSET: 1859											
01	BKN	180			4.00	75	75	75	100	3	10	29.86	30.32	01	CLR	NC			5.00	BR	72	72	72	100	3	09	29.70	30.16	
04	OVC	050			4.00	74	74	74	100	0	00	29.86	30.33	04	OVC	005			3.00	BR	71	71	71	100	0	00	29.70	30.16	
07	BKN	007			6.00	76	75	75	97	0	00	29.87	30.34	07	BKN	003			1.00	BR	72	72	72	100	5	08	29.74	30.20	
10	BKN	250			8.00	83	74	77	74	5	12	29.87	30.34	10	BKN	020			8.00		79	71	74	77	6	08	29.75	30.21	
13	BKN	250			10.00	89	74	78	61	7	VR	29.85	30.30	13	BKN	050			9.00		85	72	76	65	8	11	29.73	30.19	
16	SCT	NC			9.00	81	75	77	82	8	15	29.81	30.27	16	SCT	NC			8.00		87	71	76	59	5	VR	29.67	30.13	
19	FEW	NC			10.00	79	75	76	88	0	00	29.80	30.26	19	SCT	NC			8.00		80	72	75	76	3	12	29.67	30.13	
22	CLR	NC			5.00	76	75	75	97	0	00	29.82	30.28	22	CLR	NC			7.00		72	71	71	97	0	00	29.69	30.15	
SUNRISE: 0533 AUG 15						SUNSET: 1906						SUNRISE: 0538 AUG 21						SUNSET: 1858											
01	CLR	NC			3.00	73	73	73	100	0	00	29.81	30.27	01	CLR	NC			8.00		70	70	70	100	0	00	29.69	30.14	
04	CLR	NC			3.00	71	71	71	100	0	00	29.79	30.24	04	CLR	NC			4.00	BR	70	70	70	100	0	00	29.68	30.14	
07	CLR	NC			2.00	73	73	73	100	0	00	29.80	30.26	07	CLR	NC			3.00	BR	72	71	71	97	3	16	29.70	30.16	
10	SCT	NC			7.00	84	75	78	74	3	VR	29.78	30.24	10	SCT	NC			8.00		83	74	77	74	6	22	29.69	30.15	
13	BKN	250			6.00	90	75	79	62	5	21	29.75	30.20	13	SCT	NC			10.00		88	72	77	59	7	20	29.65	30.10	
16	SCT	NC			5.00	90	72	77	56	5	29	29.68	30.14	16	CLR	NC			9.00		87	71	76	59	3	23	29.58	30.03	
19	BKN	070			5.00	74	72	73	94	6	31	29.66	30.11	19	FEW	NC			8.00		81	72	75	74	0	00	29.58	30.03	
22	SCT	NC			5.00	73	73	73	100	0	00	29.65	30.11	22	CLR	NC			8.00		79	72	74	79	0	00	29.58	30.04	
SUNRISE: 0534 AUG 16						SUNSET: 1905						SUNRISE: 0539 AUG 22						SUNSET: 1856											
01	CLR	NC			3.00	72	71	71	97	0	00	29.62	30.08	01	CLR	NC			7.00		75	72	73	90	7	21	29.57	30.02	
04	CLR	NC			2.50	73	73	73	100	3	24	29.57	30.02	04	CLR	NC			5.00	BR	73	72	72	96	5	25	29.56	30.02	
07	BKN	150			2.50	74	74	74	100	3	24	29.56	30.03	07	CLR	NC			3.00	BR	75	72	73	90	7	23	29.55	30.01	
10	OVC	075			4.00	79	75	76	88	6	28	29.57	30.03	10	FEW	NC			5.00	HZ	84	75	78	74	8	23	29.56	30.01	
13	OVC	075			7.00	79	75	76	88	0	00	29.53	29.98	13	OVC	200			4.00	TS HZ	86	76	79	72	10	26	29.52	29.98	
16	BKN	200			7.00	83	75	77	77	12	23	29.44	29.89	16	BKN	200			7.00		78	73	75	85	5	23	29.48	29.94	
19	FEW	NC			6.00	78	73	75	85	5	23	29.43	29.89	19	BKN	200			4.00	BR	74	73	73	97	0	00	29.45	29.91	
22	SCT	NC			7.00	77	74	75	90	9	23	29.44	29.90	22	CLR	NC			3.00	BR	72	72	72	100	5	25	29.49	29.94	
SUNRISE: 0535 AUG 17						SUNSET: 1904						SUNRISE: 0540 AUG 23						SUNSET: 1855											
01	CLR	NC			6.00	73	72	72	96	10	22	29.43	29.88	01	CLR	NC			4.00	BR	71	71	71	100	8	23	29.47	29.93	
04	OVC	005			4.00	73	72	72	96	10	23	29.43	29.89	04	CLR	NC			4.00	BR	70	69	69	97	3	25	29.46	29.92	
07	OVC	007			3.00	73	72	72	96	6	24	29.45	29.91	07	BKN	250			2.00	BR	71	70	70	96	0	00	29.50	29.96	
10	BKN	130			4.00	78	74	75	87	7	23	29.46	29.92	10	FEW	NC			6.00	HZ	81	73	75	77	7	VR	29.53	29.98	
13	BKN	250			5.00	85	74	77	70	6	24	29.44	29.90	13	SCT	NC			5.00	HZ	85	74	77	70	7	01	29.52	29.98	
16	BKN	031			8.00	78	69	72	74	10	18	29.43	29.88	16	SCT	NC			5.00	HZ	87	74	78	65	6	VR	29.47	29.93	
19	OVC	250			7.00	76	73	74	91	0	00	29.42	29.88	19	SCT	NC			4.00	BR	78	75	76	90	3	06	29.50	29.96	
22	OVC	075			5.00	75	74	74	96	3	VR	29.46	29.92	22	SCT	NC			4.00	HZ	78	73	75	85	8	07	29.56	30.02	
SUNRISE: 0536 AUG 18						SUNSET: 1903						SUNRISE: 0541 AUG 24						SUNSET: 1854											
01	SCT	NC			4.00	71	71	71	100	5	03	29.48	29.93	01	BKN	046			10.00		74	65	68	74	7	06	29.58	30.04	
04	CLR	NC			3.00	69	69	69	100	0	00	29.49	29.95	04	FEW	NC			10.00		71	65	67	81	3	04	29.59	30.05	
07	SCT	NC			3.00	70	69	69	97	0	00	29.54	30.00	07	BKN	250			10.00		71	64	67	79	6	06	29.64	30.10	
10	BKN	044			3.00	78	72	74	82	5	04	29.58	30.04	10	BKN	250			10.00		78	62	68	58	5	VR	29.68	30.14	
13	BKN	045			6.00	83	71	75	67	5	17	29.57	30.02	13	BKN	050			10.00		82	62	69	51	3	VR	29.67	30.13	
16	BKN	035			6.00	84	73	76	70	5	06	29.54	29.99	16	SCT	NC			10.00		83	64	71	53	7	03	29.63	30.09	
19	SCT	NC			7.00	72	69	70	91	0	00	29.58	30.04	19	BKN	060			9.00		75	67	70	76	3	03	29.63	30.09	
22	SCT	NC			7.00	71	69	70	94	0	00	29.63	30.09	22	CLR	NC			8.00		70	67	68	90	0	00	29.65	30.11	

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

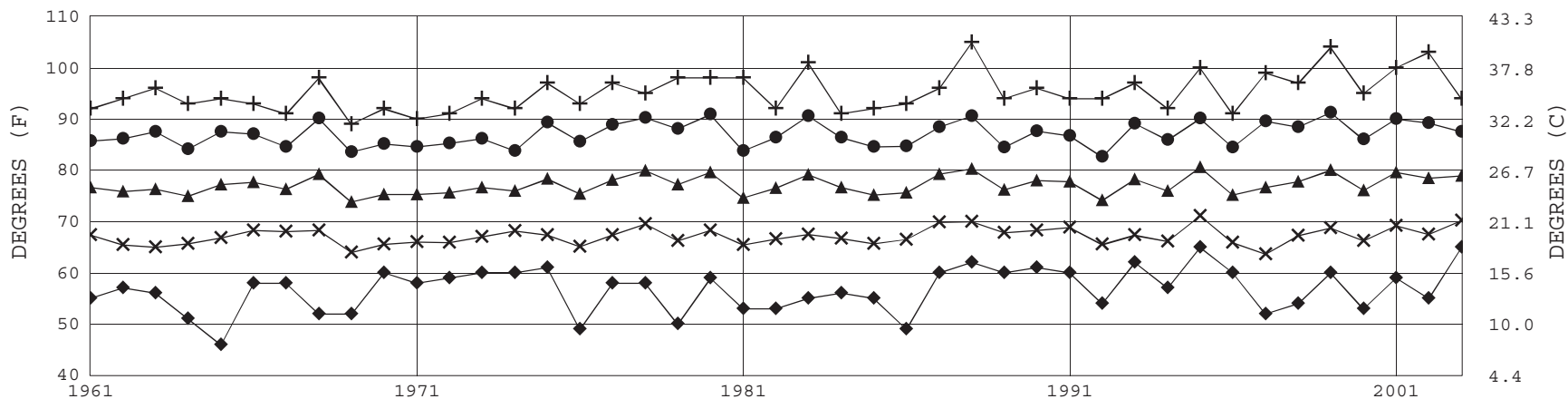
AUGUST 2003

RDU

WBAN # 13722

HOUR (LST)	SKY COVER		CEILING 100'S OFF	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OFF	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES,HG)																	
				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL					OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL															
SUNRISE: 0541 AUG 25 SUNSET: 1853																																														
01	CLR	NC			6.00	BR		68	66	67	93	0	00	29.65	30.11	01	CLR	NC			10.00				76	71	73	85	5	18	29.73	30.19														
04	CLR	NC			3.00	BR		65	65	65	100	0	00	29.65	30.11	04	CLR	NC			10.00				76	73	74	91	3	21	29.73	30.18														
07	CLR	NC			5.00	BR		68	67	67	96	0	00	29.68	30.14	07	BKN	100			9.00				74	73	73	97	0	00	29.77	30.23														
10	FEW	NC			10.00			80	69	73	69	10	24	29.68	30.14	10	BKN	150			10.00				82	75	77	79	5	34	29.78	30.24														
13	SCT	NC			9.00			85	70	75	61	10	25	29.64	30.09	13	OVC	034			0.25	+TSRA FG		72	71	71	97	5	VR	29.81	30.27															
16	SCT	NC			8.00			86	71	76	61	9	25	29.58	30.04	16	BKN	130			7.00	-RA		73	73	73	100	0	00	29.75	30.21															
19	CLR	NC			5.00	HZ		78	73	75	85	6	24	29.57	30.03	19	OVC	060			2.50	BR		73	73	73	100	5	VR	29.77	30.23															
22	CLR	NC			5.00	BR		75	72	73	90	5	25	29.60	30.05	22	BKN	150			7.00			73	72	72	96	3	11	29.80	30.26															
SUNRISE: 0542 AUG 26 SUNSET: 1851																																														
01	CLR	NC			4.00	BR		73	71	72	94	5	25	29.59	30.05	3-HOURLY OBSERVATION NOTES Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.																														
04	CLR	NC			2.50	BR		71	71	71	100	3	23	29.57	30.03																															
07	CLR	NC			2.00	BR		72	71	71	97	0	00	29.60	30.06																															
10	CLR	NC			8.00			85	70	75	61	3	VR	29.60	30.06																															
13	SCT	NC			7.00			90	71	77	54	0	00	29.57	30.03																															
16	BKN	250			10.00			90	73	78	58	10	24	29.53	29.99																															
19	CLR	NC			7.00			81	73	75	77	6	24	29.51	29.97																															
22	CLR	NC			6.00	BR		76	73	74	91	6	24	29.53	29.98																															
SUNRISE: 0543 AUG 27 SUNSET: 1850																																														
01	CLR	NC			5.00	BR		75	73	74	94	5	25	29.53	29.98	SUMMARY BY HOUR																														
04	CLR	NC			3.00	BR		72	72	72	100	6	23	29.52	29.98																															
07	CLR	NC			3.00	BR		75	73	74	94	3	29	29.55	30.01																															
10	CLR	NC			5.00	HZ		86	76	79	72	3	VR	29.59	30.05																															
13	FEW	NC			6.00	HZ		92	75	80	58	7	22	29.56	30.02																															
16	FEW	NC			8.00			93	75	80	56	10	23	29.51	29.97																															
19	FEW	NC			5.00	HZ		84	77	79	80	0	00	29.52	29.98																															
22	CLR	NC			6.00	HZ		82	76	78	82	7	21	29.57	30.02																															
SUNRISE: 0544 AUG 28 SUNSET: 1848																																														
01	CLR	NC			4.00	BR		77	74	75	90	8	23	29.59	30.04	HOUR (LST)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH)																			
04	CLR	NC			3.00	BR		76	74	75	94	5	26	29.61	30.06								STATION	SEA LEVEL			SPEED	DIRECTION																		
07	FEW	NC			1.75	BR		76	75	75	97	7	23	29.65	30.11																															
10	CLR	NC			4.00	HZ		87	77	80	72	9	24	29.67	30.13																															
13	SCT	NC			5.00	HZ		92	76	80	60	8	24	29.64	30.09																															
16	BKN	250			6.00	HZ		92	74	79	56	8	25	29.60	30.05																															
19	SCT	NC			5.00	HZ		85	76	78	75	6	16	29.61	30.07																															
22	FEW	NC			10.00			78	70	73	76	5	23	29.66	30.11																															
SUNRISE: 0544 AUG 29 SUNSET: 1847																																														
01	CLR	NC			10.00			78	74	75	87	9	22	29.67	30.12																															
04	CLR	NC			10.00			75	73	74	94	8	22	29.66	30.11																															
07	SCT	NC			10.00			76	74	75	94	10	23	29.70	30.16																															
10	FEW	NC			10.00			85	76	78	75	12	24	29.71	30.16																															
13	BKN	040			10.00			90	76	80	63	10	24	29.67	30.13																															
16	BKN	250			10.00			92	74	79	56	15	23	29.63	30.09																															
19	SCT	NC			10.00			85	74	77	70	8	20	29.64	30.09																															
22	BKN	050			10.00			82	72	75	72	10	22	29.68	30.14																															
SUNRISE: 0545 AUG 30 SUNSET: 1846																																														
01	CLR	NC			10.00			78	74	75	87	12	22	29.71	30.16																															
04	CLR	NC			10.00			75	73	74	94	9	23	29.70	30.16																															
07	CLR	NC			10.00			75	74	74	96	8	22	29.72	30.18																															
10	FEW	NC			10.00			85	74	77	70	10	22	29.72	30.18																															
13	SCT	NC			10.00			90	75	79	62	14	22	29.71	30.16																															
16	SCT	NC			10.00			89	73	78	59	13	24	29.66	30.12																															
19	SCT	NC			10.00			84	73	76	70	6	17	29.67	30.13																															
22	SCT	NC			10.00			80	73	75	79	12	27	29.75	30.20																															

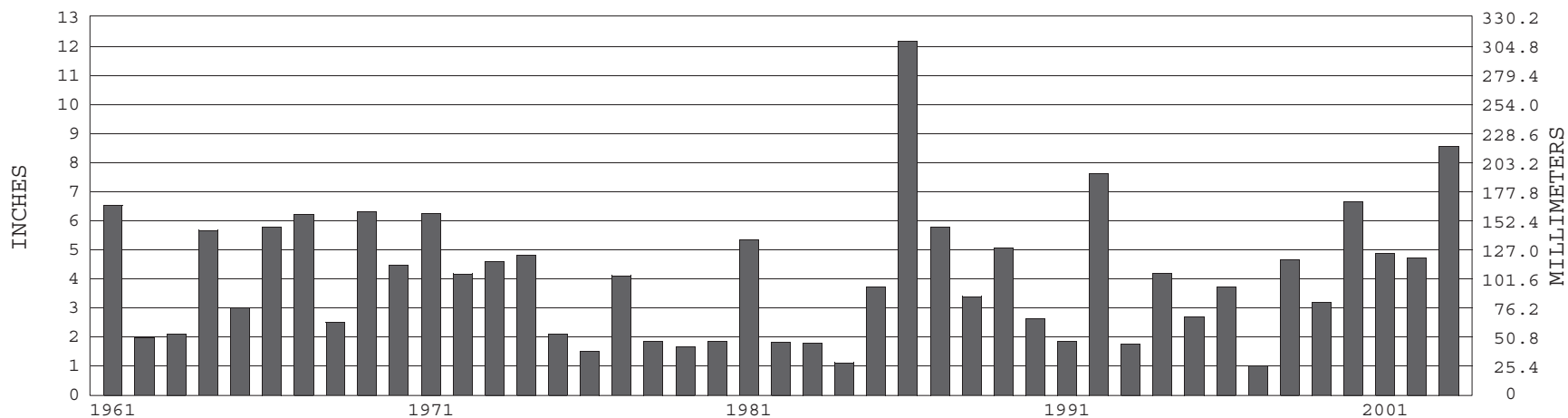
RALEIGH/DURHAM, NC AUGUST TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1961-2003) Mean: 77.1 1961-1990 Normal: 77.2

RALEIGH/DURHAM, NC AUGUST PRECIPITATION



Long-Term (1961-2003) Mean Monthly Total: 4.09

1961-1990 Normal: 3.78



AUGUST 2003

RALEIGH/DURHAM, NC

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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