



MAY 2004

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	75	65	70	7	66	67	0	5	RA BR	0		0.0	0.73	29.60	30.07	7.2	16	7.8	23	13	18	12	01					
02	78	65	72	9	68	68	0	7	TSRA RA BR	0		0.0	0.76	29.45	29.91	10.5	20	10.8	30*	17	23	18	02					
03	65	46	56	-8	52	52	9	0	RA DZ BR	0		0.0	0.20	29.48	29.95	3.3	01	5.8	20	02	15	05	03					
04	65	38*	52*	-12	40	47	13	0	MIFG	0		0.0	0.00	29.65	30.12	0.8	25	3.1	16	01	12	23	04					
05	75	47	61	-4	50	55	4	0		0		0.0	0.00	29.58		4.8	23	5.3	24	23	18	22	05					
06	83	50	67	2	54	61	0	2	MIFG BR	0		0.0	0.00	29.64	30.11	1.2	22	3.5	16	02	12	23	06					
07	88	57	73	8	59	65	0	8		0		0.0	0.00	29.66	30.12	1.8	27	3.1	16	30	14	22	07					
08	80	61	71	6	62	66	0	6		0		0.0	0.00	29.73	30.20	6.9	06	7.9	24	05	20	06	08					
09	85	63	74	9	64	68	0	9	BR HZ	0		0.0	0.00	29.71	30.17	5.0	20	6.8	18	22	15	22	09					
10	84	60	72	7	60	65	0	7		0		0.0	0.00	29.72	30.18	9.1	22	9.4	20	23	15	21	10					
11	85	62	74	8	62	66	0	9	BR	0		0.0	0.00	29.74	30.21	8.9	22	9.3	20	22	16	22	11					
12	84	64	74	8	65	68	0	9	TSRA RA BR	0		0.0	0.67	29.77	30.24	6.8	21	7.7	28	19	23	20	12					
13	83	64	74	8	65	68	0	9	FG BR HZ	0		0.0	0.00	29.77	30.23	7.0	21	7.6	18	23	15	23	13					
14	84	65	75	9	65	68	0	10		0		0.0	0.00	29.77	30.24	7.7	22	8.3	23	21	16	23	14					
15	85	65	75	9	64	68	0	10	BR	0		0.0	0.00	29.77	30.23	9.0	21	9.4	21	19	16	21	15					
16	86	63	75	8	65	68	0	10	RA BR	0		0.0	0.41	29.81	30.27	5.0	21	6.9	16	21	13	21	16					
17	85	63	74	7	63	67	0	9		0		0.0	0.00	29.86	30.32	5.0	18	6.0	15	19	13	18	17					
18	86	63	75	7	64	68	0	10	BR	0		0.0	0.00	29.79	30.25	8.3	20	8.7	21	20	17	20	18					
19	86	65	76	8	66	69	0	11	TS TSRA RA BR	0		0.0	0.09	29.69	30.15	9.5	23	9.9	24	23	20	23	19					
20	87	64	76	8	68	71	0	11	MIFG BR	0		0.0	0.00	29.71	30.17	1.1	21	3.1	10	21	9	21	20					
21	93	68	81	13	69	73	0	16	TS BR HZ	0		0.0	0.00	29.62	30.08	4.2	24	5.1	20	25	16	23	21					
22	92	67	80	11	69	72	0	15	TS TSRA RA BR	0		0.0	0.12	29.55	30.01	3.1	22	6.8	25	15	20	15	22					
23	91	69	80	11	70	72	0	15	TS TSRA RA BR HZ	0		0.0	0.07	29.52	29.98	9.7	22	10.0	25	21	22	21	23					
24	90	69	80	11	68	72	0	15	BR HZ	0		0.0	0.00	29.50	29.96	9.0	23	9.3	21	22	17	23	24					
25	93*	70	82*	13	67	72	0	17	BR HZ	0		0.0	0.00	29.45	29.91	5.3	23	6.5	18	22	15	23	25					
26	92	70	81	12	68	72	0	16	TSRA BR	0		0.0	0.04	29.36	29.81	6.8	24	7.3	24	24	17	23	26					
27	89	66	78	8	65	69	0	13		0		0.0	0.00	29.34	29.79	5.2	25	6.2	23	23	17	25	27					
28	89	68	79	9	63	69	0	14	RA	0		0.0	T	29.31	29.76	7.7	25	9.2	25	30	17	31	28					
29	85	63	74	4	60	66	0	9		0		0.0	0.00	29.50	29.96	2.9	06	5.9	16	11	13	16	29					
30	82	66	74	4	69	70	0	9	RA BR HZ	0		0.0	0.35	29.48	29.94	7.1	17	8.0	20	16	15	15	30					
31	86	69	78	7	69	71	0	13	RA BR	0		0.0	T	29.27	29.72	8.9	23	9.7	29	24	23*	24	31					
84.2 62.4 73.3 ■■										63.2 66.9 0.8 9.5 < MONTHLY AVERAGES TOTALS->				0.0	3.44	29.61		3.4	24	7.2	<- MONTHLY AVERAGES							
5.5 7.1 6.3 ■■										<-----DEPARTURE FROM NORMAL----->										- .35	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.91 DATE :02-03				SEA LEVEL PRESSURE DATE TIME															
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM : 30.38 17 0851															
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.65 31 1351															
HEATING: 26 -35 3317 -143								NUMBER OF DAYS WITH ➡		MAXIMUM TEMP ≥ 90: 6				MINIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.01 INCH : 10										
COOLING: 294 175 362 195										MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 7										
										THUNDERSTORMS : 7				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 0										

MAY 2004
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

MAY 2004

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	0.06	T	T	T	0.02	T	T	0.04	0.04	0.14	T	T	01	T	T	0.14	0.10	0.06	0.18	0.09	0.02	T	T			01			0.73															
02				0.02						0.01	T	T	T			0.06	0.43	.16	02	0.76																								
03				T						T	T	T	T			0.06	0.01	03	0.20																									
04				0.02						T	T								04	0.00																								
05																			05	0.00																								
06																			06	0.00																								
07																			07	0.00																								
08																			08	0.00																								
09																			09	0.00																								
10																			10	0.00																								
11																			11	0.00																								
12																			12	0.67																								
13																			13	0.00																								
14																			14	0.00																								
15																			15	0.00																								
16																			16	0.41																								
17																			17	0.00																								
18																			18	0.00																								
19																			19	0.09																								
20																			20	0.00																								
21																			21	0.00																								
22																			22	0.12																								
23																			23	0.07																								
24																			24	0.00																								
25																			25	0.00																								
26																			26	0.04																								
27																			27	0.00																								
28																			28	T																								
29													0.17			0.13	0.01	0.04	T	T	T					29														29			0.00	
30																													30												30			0.35
31																													31												31			T

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.49	.64	.67	.67	.67	.67	.67	.67	.67	.67	.67
Ending Date	12	12	12	12	12	12	12	12	12	12	12	12
Ending Time (Hour/Min)	1543	1544	1549	1603	1603	1603	1603	1603	1603	1603	1603	1603

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
MAY 2004**

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).

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							.75	10.00	
02							1.00	10.00	
03							1.75	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							5.00	10.00	
07							7.00	10.00	
08							9.00	10.00	
09							4.00	10.00	
10							8.00	10.00	
11							5.00	10.00	
12							5.00	10.00	
13							.25	10.00	
14							8.00	10.00	
15							6.00	10.00	
16							1.75	10.00	
17							7.00	10.00	
18							5.00	10.00	
19							5.00	10.00	
20							2.00	10.00	
21							4.00	10.00	
22							1.75	10.00	
23							1.75	10.00	
24							3.00	10.00	
25							5.00	10.00	
26							6.00	10.00	
27							10.00	10.00	
28							8.00	10.00	
29							7.00	10.00	
30							2.50	8.00	
31							4.00	10.00	
MONTHLY AVGS							5.21	9.94	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> Percent Possible:</p>									
<p align="center">NUMBER OF DAYS WITH:</p> <p align="center">SKY CONDITION</p> <p align="center">CLR PTLY CLDY CLOUDY MISSING</p> <p align="center">31</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">1 8 10</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MAY 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
	SUNRISE: 0523					MAY 01	SUNSET: 1902						SUNRISE: 0516					MAY 07	SUNSET: 1907										
01	BKN	120			10.00		66	61	63	84	8	19	29.71	30.17	01	CLR	NC			10.00		66	53	59	63	3	15	29.66	30.12
04	OVC	012			10.00		66	62	64	87	3	12	29.67	30.13	04	CLR	NC			10.00		59	56	57	90	0	00	29.65	30.11
07	OVC	010			7.00		66	63	64	90	6	14	29.67	30.13	07	CLR	NC			7.00		65	59	61	81	0	00	29.69	30.15
10	OVC	010			10.00		68	67	67	96	10	13	29.65	30.11	10	FEW	NC			10.00		81	62	69	53	7	32	29.69	30.15
13	BKN	020			10.00		74	67	69	79	10	14	29.59	30.06	13	CLR	NC			10.00		86	60	69	42	7	24	29.66	30.12
16	OVC	009			2.50	RA BR	69	69	69	100	7	13	29.53	29.99	16	FEW	NC			10.00		87	57	68	36	5	VR	29.63	30.09
19	OVC	010			3.00	-RA BR	68	68	68	100	8	16	29.52	29.98	19	CLR	NC			10.00		80	62	69	54	3	26	29.63	30.09
22	BKN	020			10.00		67	66	66	97	8	18	29.53	29.99	22	CLR	NC			10.00		69	61	64	76	0	00	29.66	30.12
	SUNRISE: 0521					MAY 02	SUNSET: 1903						SUNRISE: 0516					MAY 08	SUNSET: 1908										
01	OVC	006			7.00		66	66	66	100	9	21	29.50	29.96	01	FEW	NC			10.00		64	60	62	87	0	00	29.65	30.11
04	OVC	005			5.00	BR	67	67	67	100	8	21	29.47	29.94	04	FEW	NC			10.00		65	61	63	87	8	03	29.68	30.14
07	OVC	019			6.00	BR	69	67	68	93	12	20	29.48	29.94	07	BKN	100			10.00		68	61	64	78	12	05	29.76	30.22
10	BKN	015			10.00		70	68	69	93	10	19	29.49	29.95	10	FEW	NC			10.00		74	64	68	71	7	07	29.79	30.25
13	BKN	045			10.00		77	71	73	82	10	20	29.42	29.88	13	BKN	033			10.00		78	65	70	64	7	04	29.77	30.23
16	BKN	075			10.00		74	71	72	91	14	17	29.37	29.83	16	BKN	036			10.00		80	66	71	62	12	05	29.73	30.19
19	OVC	039			1.00	TSRA	67	66	66	97	20	22	29.40	29.86	19	FEW	NC			10.00		75	61	66	62	6	09	29.72	30.18
22	OVC	013			10.00		66	65	65	96	10	20	29.43	29.89	22	CLR	NC			10.00		69	60	64	73	7	12	29.75	30.21
	SUNRISE: 0520					MAY 03	SUNSET: 1903						SUNRISE: 0515					MAY 09	SUNSET: 1908										
01	OVC	005			2.00	BR	65	65	65	100	10	21	29.43	29.89	01	OVC	017			10.00		66	59	62	78	8	11	29.73	30.19
04	OVC	021			10.00	-RA	55	54	54	96	7	VR	29.44	29.90	04	OVC	012			9.00		64	59	61	84	3	19	29.72	30.19
07	OVC	025			10.00	-RA	53	51	52	93	5	35	29.46	29.93	07	OVC	009			5.00	BR	67	63	64	87	0	00	29.77	30.23
10	OVC	005			9.00		54	53	53	97	7	01	29.45	29.92	10	FEW	NC			4.00	HZ	75	68	70	79	5	24	29.76	30.22
13	OVC	008			2.00	BR	53	51	52	93	10	03	29.45	29.92	13	FEW	NC			6.00	HZ	83	70	74	65	7	VR	29.71	30.17
16	OVC	012			10.00	-RA	53	50	51	89	6	02	29.45	29.92	16	SCT	NC			9.00		85	67	73	55	10	22	29.65	30.11
19	OVC	048			7.00		52	51	52	97	0	00	29.53	30.01	19	BKN	200			10.00		79	64	69	60	8	18	29.65	30.11
22	CLR	NC			6.00	BR	48	48	48	100	0	00	29.59	30.07	22	CLR	NC			10.00		75	61	66	62	8	22	29.70	30.16
	SUNRISE: 0519					MAY 04	SUNSET: 1904						SUNRISE: 0514					MAY 10	SUNSET: 1909										
01	CLR	NC			10.00		45	42	44	90	0	00	29.60	30.07	01	SCT	NC			10.00		70	61	64	73	12	22	29.69	30.15
04	CLR	NC			10.00		42	39	41	89	0	00	29.63	30.10	04	CLR	NC			10.00		62	59	60	90	8	23	29.72	30.18
07	CLR	NC			10.00		45	39	42	80	0	00	29.70	30.17	07	FEW	NC			9.00		65	61	63	87	9	24	29.75	30.22
10	CLR	NC			10.00		55	37	47	51	6	VR	29.71	30.18	10	BKN	250			10.00		76	64	68	67	9	23	29.76	30.22
13	FEW	NC			10.00		61	40	51	46	5	VR	29.67	30.14	13	BKN	250			10.00		82	64	70	55	12	21	29.72	30.18
16	CLR	NC			10.00		64	39	52	40	9	23	29.61	30.08	16	SCT	NC			10.00		84	62	70	48	10	22	29.68	30.14
19	CLR	NC			10.00		58	40	49	51	0	00	29.61	30.08	19	BKN	200			10.00		77	55	64	47	9	19	29.69	30.15
22	CLR	NC			10.00		52	45	48	77	0	00	29.64	30.11	22	SCT	NC			10.00		71	56	62	59	8	22	29.72	30.18
	SUNRISE: 0518					MAY 05	SUNSET: 1905						SUNRISE: 0513					MAY 11	SUNSET: 1910										
01	CLR	NC			10.00		50	42	46	74	0	00	29.62	30.09	01	CLR	NC			9.00		66	61	63	84	8	23	29.74	30.21
04	BKN	110			10.00		50	43	47	77	3	23	29.60	30.07	04	CLR	NC			6.00	BR	63	61	62	93	8	23	29.75	30.21
07	OVC	110			10.00		51	47	49	86	6	23	29.63	30.10	07	FEW	NC			7.00		66	63	64	90	13	23	29.78	30.24
10	BKN	100			10.00		62	48	55	60	3	VR	29.63	30.10	10	BKN	250			10.00		77	66	70	69	8	23	29.78	30.24
13	FEW	NC			10.00		73	51	60	46	6	25	29.56		13	BKN	250			10.00		83	60	68	46	9	24	29.75	30.21
16	SCT	NC			10.00		75	54	63	48	8	23	29.51		16	SCT	NC			10.00		84	61	69	46	10	22	29.70	30.16
19	CLR	NC			10.00		66	55	60	68	7	24	29.51		19	FEW	NC			10.00		78	57	65	48	9	19	29.71	30.17
22	CLR	NC			10.00		63	55	58	76	0	00	29.56		22	CLR	NC			10.00		70	60	64	71	7	21	29.77	30.23
	SUNRISE: 0517					MAY 06	SUNSET: 1906						SUNRISE: 0512					MAY 12	SUNSET: 1911										
01	FEW	NC			8.00		58	55	56	90	0	00	29.57	30.03	01	FEW	NC			10.00		69	65	66	87	10	21	29.76	30.22
04	CLR	NC			5.00	BR	53	52	52	96	0	00	29.60	30.06	04	BKN	200			7.00		66	64	65	93	6	21	29.78	30.24
07	FEW	NC			7.00		58	56	57	93	0	00	29.67	30.13	07	BKN	200			7.00		69	65	66	87	8	22	29.81	30.28
10	FEW	NC			10.00		77	53	63	44	6	VR	29.68	30.14	10	BKN	028			10.00		75	66	69	74	10	23	29.81	30.28
13	SCT	NC			10.00		81	55	65	41	5	VR	29.67	30.13	13	BKN	040			10.00		8							

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MAY 2004

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: 0511 MAY 13						SUNSET: 1912						SUNRISE: 0507 MAY 19						SUNSET: 1917											
01	FEW	NC			6.00	BR	65	64	64	97	3	10	29.77	30.23	01	BKN	100			10.00	72	63	66	73	13	21	29.73	30.19	
04	SCT	NC			4.00	BR	64	64	64	100	5	19	29.77	30.23	04	BKN	110			10.00	69	63	65	81	9	22	29.69	30.15	
07	OVC	004			0.75	BR	67	66	66	97	10	23	29.82	30.28	07	BKN	250			8.00	71	65	67	81	14	23	29.72	30.18	
10	OVC	016			7.00		74	68	70	82	12	22	29.83	30.29	10	BKN	120			9.00	77	68	71	74	12	24	29.73	30.19	
13	BKN	035			10.00		81	64	70	57	9	21	29.79	30.25	13	BKN	120			10.00	83	68	73	61	15	23	29.69	30.15	
16	SCT	NC			10.00		83	66	72	57	12	23	29.73	30.19	16	BKN	250			10.00	83	67	72	59	15	23	29.62	30.08	
19	SCT	NC			10.00		78	63	68	60	7	18	29.72	30.18	19	OVC	039		-RA	7.00	70	69	69	97	5	23	29.67	30.13	
22	CLR	NC			10.00		72	62	66	71	7	18	29.75	30.21	22	BKN	130			8.00	67	67	67	100	3	22	29.71	30.17	
SUNRISE: 0510 MAY 14						SUNSET: 1913						SUNRISE: 0506 MAY 20						SUNSET: 1917											
01	CLR	NC			10.00		69	63	65	81	7	17	29.77	30.23	01	SCT	NC			5.00	BR	66	65	65	96	6	22	29.69	30.15
04	CLR	NC			10.00		66	64	65	93	3	18	29.77	30.23	04	SCT	NC			3.00	BR	66	66	66	100	0	00	29.69	30.16
07	FEW	NC			8.00		69	67	68	93	9	23	29.81	30.28	07	OVC	200			4.00	BR	69	67	68	93	3	VR	29.73	30.19
10	BKN	025			10.00		76	66	70	72	15	23	29.83	30.29	10	BKN	200			10.00	79	69	72	72	6	VR	29.76	30.22	
13	BKN	038			10.00		80	66	71	62	9	24	29.79	30.26	13	BKN	032			10.00	85	69	74	59	3	VR	29.73	30.19	
16	BKN	049			10.00		84	66	72	55	13	22	29.75	30.21	16	BKN	250			10.00	86	70	75	59	3	VR	29.68	30.14	
19	FEW	NC			10.00		76	64	68	67	5	23	29.73	30.19	19	BKN	130			9.00	82	70	74	67	3	17	29.68	30.14	
22	CLR	NC			10.00		70	62	65	76	3	17	29.74	30.21	22	SCT	NC			9.00	76	69	71	79	0	00	29.71	30.17	
SUNRISE: 0510 MAY 15						SUNSET: 1913						SUNRISE: 0505 MAY 21						SUNSET: 1918											
01	CLR	NC			10.00		69	64	66	84	8	21	29.76	30.22	01	SCT	NC			8.00		73	68	70	84	3	18	29.69	30.15
04	CLR	NC			10.00		67	64	65	91	9	21	29.77	30.23	04	SCT	NC			5.00	BR	69	68	68	96	6	23	29.66	30.12
07	BKN	018			7.00		68	66	67	93	9	23	29.81	30.27	07	BKN	250			4.00	BR	73	70	71	90	6	22	29.69	30.15
10	BKN	025			10.00		75	65	69	71	14	22	29.82	30.28	10	BKN	250			8.00		86	70	75	59	3	VR	29.68	30.13
13	SCT	NC			10.00		82	64	70	55	6	25	29.77	30.23	13	BKN	050			10.00		90	66	74	45	9	24	29.62	30.08
16	SCT	NC			10.00		84	62	70	48	10	22	29.72	30.18	16	BKN	250			10.00	TS	92	70	77	49	8	23	29.57	30.03
19	SCT	NC			10.00		78	61	67	56	7	21	29.73	30.19	19	SCT	NC			10.00		83	72	75	70	5	23	29.56	30.01
22	CLR	NC			10.00		74	62	67	67	9	19	29.77	30.23	22	CLR	NC			9.00		76	71	73	85	3	19	29.59	30.05
SUNRISE: 0509 MAY 16						SUNSET: 1914						SUNRISE: 0505 MAY 22						SUNSET: 1919											
01	CLR	NC			10.00		69	62	65	78	8	21	29.79	30.24	01	BKN	065			6.00	BR	73	70	71	90	12	01	29.60	30.06
04	FEW	NC			7.00		64	62	63	93	5	22	29.80	30.26	04	FEW	NC			10.00		70	64	66	82	3	VR	29.57	30.03
07	SCT	NC			6.00	BR	68	65	66	90	8	22	29.84	30.30	07	BKN	200			10.00		73	65	68	76	6	18	29.58	30.04
10	SCT	NC			10.00		79	66	71	65	6	22	29.85	30.31	10	FEW	NC			7.00		84	71	75	65	12	23	29.58	30.04
13	BKN	045			10.00		84	66	72	55	7	21	29.81	30.27	13	SCT	NC			7.00		90	73	78	58	5	VR	29.55	30.00
16	BKN	050			10.00		84	63	70	49	10	15	29.76	30.23	16	BKN	090			9.00	-RA	90	74	79	59	6	24	29.49	29.95
19	BKN	050			4.00	RA BR	68	67	67	96	7	01	29.78	30.24	19	BKN	250			8.00		82	71	75	69	3	25	29.50	29.96
22	CLR	NC			7.00		66	66	66	100	3	VR	29.84	30.30	22	BKN	200			10.00		78	68	71	71	5	16	29.53	29.99
SUNRISE: 0508 MAY 17						SUNSET: 1915						SUNRISE: 0504 MAY 23						SUNSET: 1920											
01	CLR	NC			10.00		67	63	64	87	3	24	29.85	30.32	01	OVC	030			4.00	TSRA BR	70	69	69	97	0	00	29.53	29.99
04	CLR	NC			10.00		65	62	63	90	6	18	29.85	30.32	04	BKN	120			4.00	BR	69	69	69	100	8	23	29.50	29.96
07	BKN	250			7.00		67	64	65	91	9	23	29.89	30.36	07	BKN	007			2.00	BR	73	72	72	96	13	23	29.53	29.99
10	OVC	250			10.00		77	67	70	71	5	22	29.90	30.38	10	BKN	050			5.00	HZ	82	73	76	74	9	24	29.56	30.01
13	BKN	180			10.00		82	64	70	55	8	16	29.86	30.34	13	SCT	NC			7.00		90	71	77	54	12	23	29.52	29.97
16	BKN	250			10.00		85	63	71	48	8	15	29.82	30.28	16	BKN	050			9.00		86	69	74	57	12	21	29.47	29.93
19	BKN	150			10.00		78	64	69	62	5	15	29.81	30.27	19	BKN	070			10.00		77	67	70	71	7	17	29.51	29.97
22	BKN	150			10.00		73	63	67	71	6	17	29.85	30.32	22	OVC	070			8.00	-RA	71	68	69	90	12	21	29.54	30.00
SUNRISE: 0507 MAY 18						SUNSET: 1916						SUNRISE: 0504 MAY 24						SUNSET: 1920											
01	SCT	NC			10.00		69	63	65	81	8	20	29.85	30.31	01	BKN	250			5.00	BR	69	68	68	96	14	23	29.50	29.96
04	FEW	NC			8.00		64	63	63	96	7	22	29.84	30.30	04	OVC	007			5.00	BR	70	69	69	97	9	22	29.50	29.96
07	BKN	250			6.00	BR	68	66	67	93	7	23	29.85	30.32	07	OVC	011			4.00	BR	72	70	71	94	10	22	29.55	30.01
10	BKN	250			10.00		76	65	69	69	8	21	29.85	30.32	10	SCT	NC			6.00	HZ	81	70	74	69	6	23	29.54	30.00
13	BKN	042			10.00		85	63	71	48	10	23	29.79	30.25	13	SCT	NC			8.00		87	69	75	55	10	23	29.50	29.96
16	SCT	NC			10.00		84	61	69	46	10	20	29.71	30.17	16	SCT	NC			9.00		89	68	75	50	12	23	29.47	29.92
19	SCT	NC			10.00		80	60	68	51	6	18	29.70	30.16	19	FEW	NC			8.00		81	67	72	62	6	24	29.46	29.91
22	BKN	130			10.00		75	65	69	71	9	20	29.75	30.20	22	CLR	NC			9.00		78	67	71	69	6	18	29.46	29.92

OBSERVATIONS AT 3-HOURLY INTERVALS

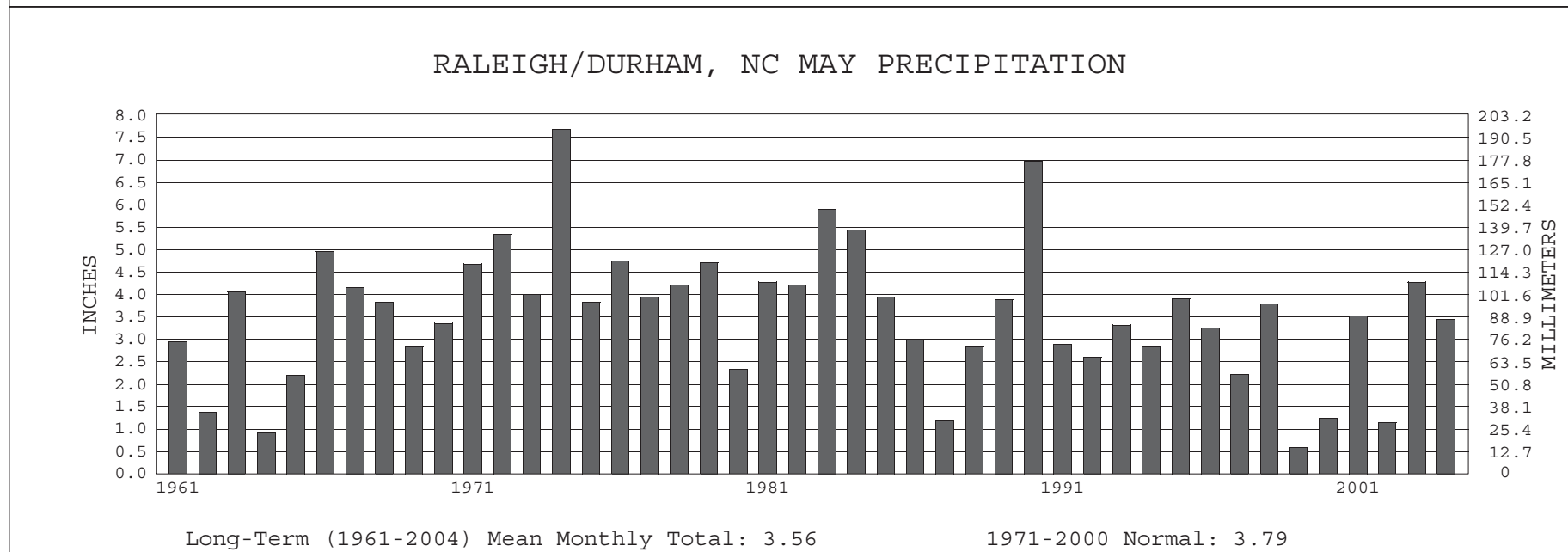
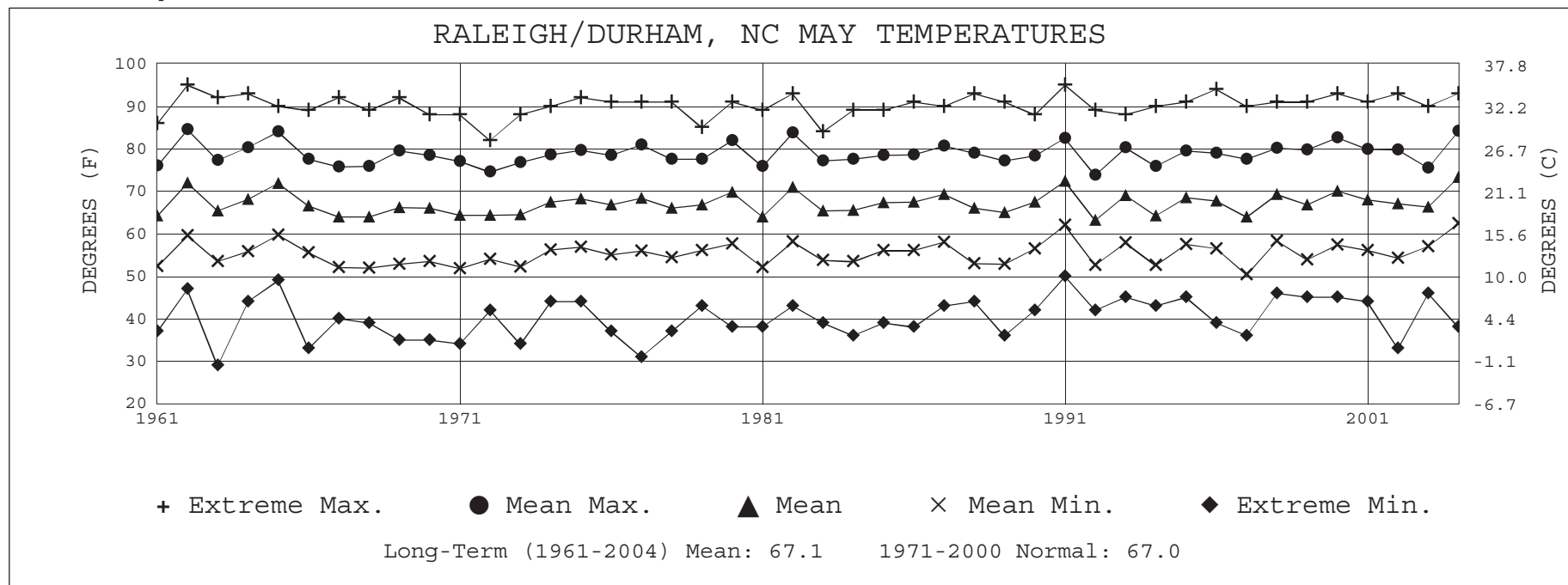
RALEIGH/DURHAM, NC

MAY 2004

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)										
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT			WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL											
SUNRISE: 0503						MAY 25		SUNSET: 1921						SUNRISE: 0501						MAY 31		SUNSET: 1925																
01	CLR	NC			8.00	HZ	75	68	70	79	9	21	29.46	29.92	01	FEW	NC			5.00	BR	72	71	71	97	5	15	29.37	29.83									
04	CLR	NC			7.00		71	68	69	90	7	23	29.47	29.93	04	BKN	200			6.00	BR	72	70	71	94	8	21	29.32	29.77									
07	BKN	250			6.00		74	69	71	85	3	23	29.50	29.95	07	OVC	110			8.00		74	70	71	88	16	22	29.29	29.75									
10	BKN	150			10.00		84	65	71	53	5	28	29.50	29.95	10	OVC	100			10.00		80	70	73	71	9	26	29.28	29.74									
13	SCT	NC			10.00		90	63	72	41	7	29	29.46	29.91	13	OVC	150			10.00		83	65	71	55	16	23	29.19	29.65									
16	BKN	200			10.00	92	66	74	43	9	21	29.42	29.87	16	OVC	130			10.00		81	69	73	67	12	24	29.20	29.66										
19	FEW	NC			10.00	83	68	73	61	5	25	29.39	29.85	19	BKN	130			10.00		79	69	72	72	8	26	29.22	29.67										
22	CLR	NC			10.00	80	67	71	64	6	19	29.43	29.89	22	SCT	NC			10.00		70	66	67	87	6	24	29.28	29.75										
SUNRISE: 0503						MAY 26		SUNSET: 1922						3—HOURLY OBSERVATION NOTES																								
01	SCT	NC			8.00		75	68	70	79	5	24	29.41	29.87	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8,																							
04	SCT	NC			9.00		73	66	69	79	6	24	29.38	29.83	SCT = 3/8–4/8, BKN = 5/8–7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.																							
07	BKN	070			8.00		76	68	71	77	0	00	29.42	29.88	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																							
10	BKN	150			9.00		84	70	74	63	7	28	29.40	29.86	NC= No ceiling detected.																							
13	OVC	100			10.00		88	69	75	54	9	26	29.36	29.81	& = Original observation contained additional weather elements.																							
16	SCT	NC			10.00		89	67	74	48	8	29	29.31	29.77	See page 3 for additional notes.																							
19	OVC	150			7.00		84	70	74	63	7	25	29.29	29.75																								
22	OVC	130			7.00		74	71	72	91	5	27	29.36	29.82																								
SUNRISE: 0502						MAY 27		SUNSET: 1922						SUMMARY BY HOUR																								
01	BKN	150			10.00		70	67	68	90	9	24	29.33	29.79	AVERAGES														RESULTANT WIND (MPH)									
04	BKN	150			10.00		67	65	66	93	3	26	29.32	29.78																								
07	BKN	120			10.00		70	65	67	84	0	00	29.41	29.86	HOUR (LST)		CEILOMETER		EFF CLD AMT		DRY BULB		DEW POINT		WET BULB		RELATIVE HUMIDITY		PRESSURE (INCHES,HG)		VISIBILITY (MILES)		WIND SPEED (MPH)		SPEED		DIRECTION	
10	OVC	120			10.00		76	65	69	69	3	29	29.41	29.87															STATION									
13	BKN	150			10.00		83	63	70	51	13	24	29.33	29.79	01						67	63	64	85	29.61	30.07	8.35	7	5	21								
16	SCT	NC			10.00		87	63	71	45	12	28	29.31	29.77	02						66	62	64	87	29.61	30.07	8.23	6	4	21								
19	CLR	NC			10.00		82	66	71	58	6	24	29.30	29.75	03						65	62	63	89	29.61	30.07	8.06	6	4	22								
22	CLR	NC			10.00		78	66	70	67	6	14	29.29	29.75	04						65	62	63	90	29.61	30.07	7.94	5	4	21								
SUNRISE: 0502						MAY 28		SUNSET: 1923						05														64	62	63	92	29.61	30.07	7.33	6	4	22	
01	SCT	NC			10.00		76	66	69	72	10	23	29.27	29.72	06						65	62	63	92	29.63	30.09	6.40	5	4	22								
04	BKN	250			9.00		74	63	67	69	10	23	29.26	29.71	07						67	63	65	87	29.64	30.10	6.99	7	5	22								
07	BKN	120			9.00		75	64	68	69	12	23	29.27	29.72	08						70	64	66	81	29.65	30.11	7.58	8	5	23								
10	OVC	150			10.00		84	66	72	55	15	26	29.29	29.75	09						73	64	68	75	29.65	30.11	8.29	8	6	23								
13	BKN	200			10.00		89	64	72	43	15	23	29.25	29.71	10						76	64	68	69	29.65	30.11	9.06	7	5	23								
16	BKN	130			10.00		81	60	68	49	8	29	29.31	29.77	11						78	64	69	64	29.64	30.10	8.84	7	4	24								
19	OVC	130			10.00		76	61	67	60	6	26	29.33	29.79	12						80	64	70	60	29.62	30.08	9.13	8	5	22								
22	OVC	250			10.00		72	63	66	73	0	00	29.39	29.85	13						81	64	70	57	29.60	30.07	9.23	8	6	23								
SUNRISE: 0501						MAY 29		SUNSET: 1924						14														82	63	70	56	29.59	30.05	8.98	9	7	23	
01	SCT	NC			10.00		69	63	65	81	3	VR	29.40	29.86	15						82	63	70	55	29.58	30.04	9.61	8	6	23								
04	FEW	NC			10.00		67	61	63	81	0	00	29.44	29.90	16						82	64	70	56	29.56	30.03	9.31	9	6	22								
07	FEW	NC			10.00		69	63	65	81	5	04	29.51	29.97	17						80	63	69	57	29.56	30.02	9.42	9	6	22								
10	SCT	NC			10.00		78	57	65	48	6	02	29.53	29.98	18						78	63	69	62	29.56	30.03	9.05	8	6	22								
13	BKN	060			10.00		82	57	67	43	10	34	29.51	29.97	19						75	63	68	68	29.57	30.03	8.65	6	4	21								
16	BKN	065			10.00		81	57	66	44	7	02	29.51	29.97	20						74	63	67	71	29.58	30.04	9.03	6	5	19								
19	BKN	200			10.00		76	59	65	56	3	06	29.51	29.97	21						71	63	66	76	29.59	30.06	9.48	5	4	19								
22	BKN	200			10.00		74	60	65	62	10	12	29.55	30.01	22						70	63	66	78	29.60	30.07	9.32	5	4	19								
SUNRISE: 0501						MAY 30		SUNSET: 1924						23														70	63	65	80	29.60	30.07	9.39	7	6	19	
01	OVC	100			8.00		71	65	67	81	10	16	29.54	30.00	24						69	63	65	83	29.61	30.07	8.81	6	5	20								
04	OVC	013			7.00		69	65	66	87	10	15	29.52	29.98																								
07	OVC	029			4.00	-RA BR	66	65	65	96	6	12	29.54	30.01																								
10	OVC	006			7.00		70	69	69	97	10	17	29.53	29.99																								
13	OVC	016			6.00	HZ	76	70	72	82	9	22	29.49	29.95																								
16	BKN	020			5.00	HZ	81	72	75	74	7	16	29.43	29.89																								
19	BKN	025			5.00	HZ	77	72	74	85	7	18	29.42	29.88																								
22	OVC	008			7.00		72	70	71	94	7	16	29.43	29.89																								





MAY 2004

RALEIGH/DURHAM, NC

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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