



# MARCH 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	70	33	52	6	45	50	13	0		0		0.0	0.00	29.83	30.30	8.5	22	8.8	28	22	22	22	01			
02	66	57	62	15	58	59	3	0	RA BR	0		0.0	0.10	29.75	30.22	8.5	22	8.8	28	24	23	23	02			
03	75	54	65	18	53	58	0	0	MIFG BR	0		0.0	0.00	29.80	30.27	0.4	19	2.5	15	24	13	23	03			
04	82*	56	69	22	58	62	0	4	BR	0		0.0	0.00	29.70	30.16	9.1	22	9.6	23	23	20	23	04			
05	77	61	69*	21	62	65	0	4		0		0.0	0.00	29.61	30.07	14.6	22	14.8	33	23	30	23	05			
06	71	59	65	17	57	61	0	0	RA BR	0		0.0	0.17	29.42	29.88	12.6	23	14.2	36	23	30	22	06			
07	70	46	58	10	44	50	7	0	TSRA RA SQ	0		0.0	0.16	29.46	29.93	3.2	28	6.3	47*	35	33	25	07			
08	54	37	46	-2	27	38	19	0		0		0.0	0.00	29.48	29.95	5.9	31	7.4	29	32	22	32	08			
09	53	30	42	-7	33	38	23	0	RA BR	0		0.0	0.07	29.58	30.06	0.4	22	2.8	17	14	15	24	09			
10	51	32	42	-7	30	37	23	0	BR	0		0.0	0.00	29.70	30.18	7.6	01	8.4	26	34	18	02	10			
11	62	27	45	-4	31	39	20	0	MIFG	0		0.0	0.00	29.67	30.15	7.4	24	7.7	28	23	22	22	11			
12	66	33	50	0	27	41	15	0		0		0.0	0.00	29.56	30.03	5.7	27	6.1	26	24	21	24	12			
13	57	36	47	-3	22	37	18	0		0		0.0	0.00	29.87	30.35	3.0	36	5.0	23	32	13	33	13			
14	65	36	51	1	41	47	14	0		0		0.0	0.00	29.89	30.37	6.1	18	7.4	22	18	18	22	14			
15	60	53	57	7	55	55	8	0	RA BR	0		0.0	0.88	29.71	30.18	0.3	35	4.6	17	21	14	21	15			
16	67	43	55	4	56	56	10	0	RA FG BR	0		0.0	0.62	29.36	29.83	0.7	18	8.0	23	22	18	22	16			
17	47	37	42	-9	41	42	23	0	RA BR	0		0.0	0.01	29.47	29.95	2.0	05	3.1	14	14	9	05	17			
18	54	34	44	-7	45	45	21	0	RA MIFG BR	0		0.0	0.24	29.63	30.11	4.3	20	5.3	16	18	14	23	18			
19	62	44	53	1	38	46	12	0	MIFG BR	0		0.0	0.00	29.79	30.27	2.7	02	6.4	21	12	17	11	19			
20	68	34	51	-1	44	48	14	0	BR	0		0.0	0.00	29.84	30.32	9.2	20	10.5	28	22	22	23	20			
21	62	38	50	-2	36	46	15	0		0		0.0	0.00	29.50	29.97	6.9	29	11.4	25	23	21	24	21			
22	47	32	40	-12	15	31	25	0		0		0.0	0.00	29.80	30.28	4.6	33	6.9	22	36	15	02	22			
23	54	23*	39*	-14	16	31	26	0		0		0.0	0.00	30.02	30.51	1.7	22	3.6	15	25	13	23	23			
24	65	31	48	-5	29	41	17	0		0		0.0	0.00	30.06	30.54	6.1	19	6.8	18	18	14	17	24			
25	74	43	59	6	46	53	6	0		0		0.0	0.00	30.06	30.54	6.8	21	7.2	21	23	16	23	25			
26	77	49	63	9	52	57	2	0		0		0.0	0.00	29.98	30.45	6.9	21	7.3	22	22	15	23	26			
27	81	52	67	13	55	59	0	2	RA	0		0.0	T	29.79	30.26	3.6	24	6.4	20	24	16	24	27			
28	67	45	56	2	51	55	9	0	RA	0		0.0	T	29.79	30.25	8.6	05	9.1	24	09	18	10	28			
29	64	43	54	-1	42	47	11	0	FU	0		0.0	0.00	29.81	30.29	8.5	06	9.7	21	09	17	09	29			
30	52	40	46	-9	42	44	19	0	RA BR	0		0.0	0.10	29.66	30.13	3.6	07	4.5	17	10	13	09	30			
31	63	38	51	-4	47	49	14	0	TS TSRA GR RA FG+ BR SQ	0		T	0.96	29.34	29.81	0.6	16	4.6	41	23	33*	23	31			
64.0											< MONTHLY AVERAGES		TOTALS->			T	3.31	29.71	30.18	2.5	23	7.3	<- MONTHLY AVERAGES			
1.5											2.3		1.9													

MARCH 2004  
RALEIGH/DURHAM, NC

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

MARCH 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												T	01	0.01	0.05	0.01	0.01	0.02								01		0.00									
02																							02													02	0.10
03																							03													03	0.00
04																							04													04	0.00
05																							05													05	0.00
06																						0.04	0.11	06	0.01	0.01						0.09	.06	0.01		06	0.17
07																								07												07	0.16
08																								08				T	T	0.03	0.01	0.02	0.01	T		08	0.00
09																								09												09	0.07
10																								10												10	0.00
11																								11												11	0.00
12																								12												12	0.00
13																								13												13	0.00
14																								14												14	0.00
15																0.02	0.20	0.28	0.19	T				15		T		T	T		T	T	T	T	0.01	0.05	0.13
16	0.31	0.01		T		T		0.01	0.02	0.01	0.03		16	0.01	0.02	T	T			0.08	0.11	0.01	T		16	0.62											
17													17				T	T							17	0.01											
18												T	18	0.09	0.10	.03	.01			0.01	T	T			18	0.24											
19													19												19	0.00											
20													20							T	T				20	0.00											
21													21												21	0.00											
22													22												22	0.00											
23													23												23	0.00											
24													24												24	0.00											
25													25												25	0.00											
26													26												26	0.00											
27													27					T	T	T	T	T	T		27	T											
28	T												28												28	T											
29													29												29	0.00											
30													30				T	T	0.01	0.07	0.01	0.01	0.18		30	0.10											
31							T	0.02	0.01	T			31				T			0.01	0.01				31	0.96											

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.33	.57	.75	.84	.91	.92	.92	.92	.92	.92	.93	.93
Ending Date	31	31	31	31	31	31	31	31	31	31	31	31
Ending Time (Hour/Min)	2048	2049	2052	2057	2105	2113	2113	2113	2113	2113	2113	2113

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  
MARCH 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).

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							10.00	10.00	
02							3.00	10.00	
03							2.00	10.00	
04							6.00	10.00	
05							10.00	10.00	
06							1.75	10.00	
07							3.00	10.00	
08							10.00	10.00	
09							4.00	10.00	
10							5.00	10.00	
11							7.00	10.00	
12							7.00	10.00	
13							10.00	10.00	
14							7.00	10.00	
15							1.00	10.00	
16							.25	10.00	
17							3.00	10.00	
18							1.50	8.00	
19							.75	10.00	
20							5.00	10.00	
21							9.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							9.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							9.00	10.00	
29							6.00	10.00	
30							3.00	10.00	
31							.06	10.00	
<b>MONTHLY AVGS</b>							6.00	9.94	
<p align="center"><b>SUNSHINE (MINUTES)</b></p> <p>Total:                  Possible:</p> <p align="center">Percent Possible:</p>									
<p align="center"><b>NUMBER OF DAYS WITH:</b></p> <p align="center"><b>SKY CONDITION</b></p> <p align="center">CLR   PTLY CLDY   CLOUDY   MISSING</p> <p align="center">31</p> <p align="center"><b>MINIMUM VISIBILITY (MILES)</b></p> <p align="center">&lt;=0.25      &lt;=3.0      &gt;=7.0</p> <p align="center">2                11             15</p>									

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MARCH 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 <small>Otkas</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>Otkas</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
			SUNRISE: 0645				MAR 01	SUNSET: 1811							SUNRISE: 0637				MAR 07	SUNSET: 1816									
01	BKN	200			10.00		39	31	36	73	0	00	29.85	30.34	01	BKN	200			10.00		59	45	52	60	6	VR	29.56	30.02
04	BKN	200			10.00		39	33	37	79	0	00	29.85	30.32	04	BKN	200			10.00		52	45	48	77	0	00	29.57	30.04
07	BKN	200			10.00		36	31	34	82	5	24	29.86	30.35	07	BKN	070			10.00		47	47	47	100	3	04	29.59	30.06
10	OVC	050			10.00		55	48	51	77	10	24	29.89	30.38	10	SCT	NC			10.00		58	41	50	54	5	VR	29.59	30.06
13	BKN	060			10.00		67	54	60	63	12	23	29.85	30.32	13	BKN	060			10.00		64	44	54	48	3	VR	29.47	29.94
16	OVC	080			10.00		67	53	59	61	13	23	29.79	30.26	16	BKN	060			10.00		68	48	57	49	7	21	29.32	29.79
19	OVC	070			10.00		63	52	57	68	9	21	29.77	30.24	19	SCT	NC			10.00		61	48	54	63	0	00	29.22	29.69
22	OVC	075			10.00		62	53	57	73	12	20	29.77	30.24	22	OVC	060			10.00		49	34	42	57	16	31	29.39	29.85
			SUNRISE: 0643				MAR 02	SUNSET: 1811							SUNRISE: 0635				MAR 08	SUNSET: 1817									
01	CLR	NC			10.00		59	54	56	83	10	20	29.76	30.23	01	CLR	NC			10.00		49	30	41	48	13	33	29.39	29.86
04	FEW	NC			10.00		57	55	56	93	13	21	29.76	30.22	04	CLR	NC			10.00		43	30	38	60	5	27	29.39	29.86
07	OVC	070			10.00		59	56	57	90	12	21	29.75	30.22	07	FEW	NC			10.00		42	24	35	49	6	29	29.43	29.90
10	OVC	075			10.00		64	59	61	84	17	22	29.78	30.24	10	BKN	150			10.00		46	25	38	44	13	32	29.49	29.96
13	OVC	050			10.00		61	60	60	97	10	24	29.76	30.22	13	BKN	065			10.00		51	27	41	39	13	30	29.48	29.95
16	OVC	049			6.00	-RA BR	61	61	61	100	0	00	29.73	30.19	16	BKN	070			10.00		51	25	40	36	8	30	29.48	29.96
19	BKN	110			5.00	BR	57	57	57	100	5	24	29.74	30.21	19	FEW	NC			10.00		46	25	38	44	7	VR	29.54	30.02
22	OVC	070			5.00	BR	57	57	57	100	5	23	29.77	30.24	22	CLR	NC			10.00		40	26	35	58	0	00	29.58	30.06
			SUNRISE: 0642				MAR 03	SUNSET: 1812							SUNRISE: 0634				MAR 09	SUNSET: 1818									
01	OVC	055			7.00		58	58	58	100	0	00	29.77	30.24	01	BKN	130			10.00		38	27	34	65	0	00	29.58	30.06
04	OVC	043			4.00	BR	57	57	57	100	0	00	29.79	30.26	04	OVC	100			10.00		36	31	34	82	0	00	29.56	30.04
07	BKN	050			7.00	MIFG	54	54	54	100	0	00	29.85	30.32	07	FEW	NC			10.00		31	30	31	96	0	00	29.57	30.05
10	BKN	200			10.00		63	52	57	68	6	01	29.88	30.36	10	FEW	NC			10.00		47	27	39	46	5	VR	29.59	30.06
13	BKN	250			10.00		71	48	58	44	0	00	29.83	30.29	13	BKN	150			10.00		50	28	41	43	5	VR	29.55	30.03
16	BKN	200			10.00		75	52	62	45	7	VR	29.77	30.24	16	OVC	031			10.00	-RA	45	37	41	74	12	23	29.56	30.04
19	SCT	NC			10.00		66	53	59	63	0	00	29.77	30.24	19	OVC	023			10.00	-RA	41	40	41	96	3	18	29.62	30.10
22	SCT	NC			10.00		61	54	57	78	0	00	29.77	30.24	22	OVC	055			10.00	BR	40	40	40	100	5	36	29.62	30.09
			SUNRISE: 0641				MAR 04	SUNSET: 1813							SUNRISE: 0632				MAR 10	SUNSET: 1819									
01	BKN	075			10.00		63	55	58	76	3	18	29.74	30.21	01	BKN	050			10.00	BR	38	38	38	100	3	VR	29.62	30.10
04	BKN	200			8.00		61	58	59	90	7	20	29.71	30.17	04	OVC	065			10.00		38	34	36	86	6	03	29.63	30.11
07	BKN	200			6.00	BR	58	57	57	97	6	22	29.74	30.21	07	SCT	NC			10.00		37	31	35	79	7	01	29.67	30.15
10	BKN	200			10.00		68	60	63	76	10	23	29.76	30.22	10	FEW	NC			10.00		44	29	38	55	15	01	29.72	30.19
13	SCT	NC			10.00		80	58	66	47	16	23	29.70	30.16	13	BKN	050			10.00		50	27	40	41	7	VR	29.67	30.15
16	OVC	200			10.00		79	56	65	45	10	21	29.63	30.09	16	BKN	250			10.00		48	25	39	41	13	35	29.69	30.17
19	OVC	150			10.00		73	56	63	55	10	21	29.66	30.13	19	FEW	NC			10.00		43	28	37	56	7	03	29.76	30.24
22	OVC	250			10.00		69	60	64	73	8	19	29.67	30.13	22	CLR	NC			10.00		37	32	35	82	3	32	29.79	30.27
			SUNRISE: 0639				MAR 05	SUNSET: 1814							SUNRISE: 0631				MAR 11	SUNSET: 1819									
01	OVC	060			10.00		66	59	62	78	10	21	29.68	30.14	01	CLR	NC			10.00		33	30	32	89	5	31	29.78	30.26
04	OVC	200			10.00		63	59	61	87	12	22	29.66	30.12	04	CLR	NC			8.00		28	28	28	100	0	00	29.79	30.27
07	BKN	200			10.00		61	61	61	100	10	23	29.69	30.16	07	CLR	NC			7.00	MIFG	27	27	27	100	0	00	29.80	30.28
10	OVC	200			10.00		71	64	67	79	18	23	29.69	30.15	10	FEW	NC			10.00		48	32	41	54	9	24	29.78	30.25
13	OVC	200			10.00		76	63	68	64	26	23	29.62	30.08	13	SCT	NC			10.00		58	31	46	36	18	22	29.67	30.15
16	OVC	060			10.00		76	62	67	62	16	23	29.57	30.03	16	FEW	NC			10.00		62	31	48	31	16	24	29.57	30.04
19	OVC	130			10.00		71	62	65	73	8	23	29.54	30.01	19	CLR	NC			10.00		52	33	44	49	9	23	29.56	30.04
22	BKN	250			10.00		71	63	66	76	10	20	29.50	29.96	22	FEW	NC			10.00		48	33	41	56	8	22	29.55	30.02
			SUNRISE: 0638				MAR 06	SUNSET: 1815							SUNRISE: 0630				MAR 12	SUNSET: 1820									
01	BKN	130			10.00		69	63	65	81	18	21	29.46	29.92	01	CLR	NC			10.00		48	34	42	58	8	24	29.53	30.00
04	BKN	250			10.00		67	63	64	87	21	21	29.39	29.85	04	CLR	NC			10.00		42	34	39	73	0	00	29.53	30.00
07	OVC	075			10.00		68	62	64	81	23	23	29.39	29.85	07	CLR	NC			7.00		34	32	33	92	6	24	29.57	30.04
10	OVC	075			10.00		70	62	65	76	25	23	29.38	29.84	10	CLR	NC			10.00		57	27	44	32	13	27	29.58	30.05
13	OVC	065			10.00		63	61	62	93	16	21	29.36	29.83	13	CLR	NC			10.00		63	24	46	23	17	27	29.56	30.03
16	BKN	200			10.00		71	58	63	63	13	24	29.37	29.83	16	FEW	NC			10.00		66	26	48	22	9	26	29.51	29.98
19	BKN	110			10.00		67	47	56	49	7	27	29.44	29.91	19	CLR	NC			10.00		56	20	42	25	3	26	29.55	30.03
22	BKN	150			10.00		61	47	54	60	5	28	29.51	29.98	22	CLR	NC			10.00		43	23	35	45	0	00	29.61	30.08

## OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MARCH 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 <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: 0628 MAR 13			SUNSET: 1821											SUNRISE: 0620 MAR 19			SUNSET: 1826									
01	CLR	NC			10.00		43	23	35	45	0	00	29.68	30.15	01	BKN	060			5.00	BR		47	47	47	100	6	23	29.59	30.06
04	CLR	NC			10.00		44	18	35	35	10	33	29.75	30.22	04	BKN	005			2.00	BR		48	48	48	100	0	00	29.59	30.06
07	SCT	NC			10.00		39	17	31	41	5	VR	29.85	30.32	07	FEW	NC			1.25	BR MIFG		45	45	45	100	0	00	29.68	30.16
10	BKN	200			10.00		47	22	37	37	5	VR	29.92	30.41	10	FEW	NC			10.00		55	31	44	40	12	35	29.80	30.28	
13	BKN	250			10.00		53	20	40	27	9	03	29.91	30.40	13	BKN	250			10.00		59	32	47	36	9	33	29.84	30.31	
16	SCT	NC			10.00		56	22	42	27	8	36	29.88	30.37	16	SCT	NC			10.00		61	34	48	36	8	04	29.85	30.32	
19	SCT	NC			10.00		48	24	39	39	0	00	29.92	30.40	19	FEW	NC			10.00		53	34	44	49	0	00	29.90	30.39	
22	CLR	NC			10.00		40	27	35	60	0	00	29.96	30.45	22	CLR	NC			10.00		49	34	42	57	8	10	29.96	30.44	
				SUNRISE: 0627 MAR 14			SUNSET: 1822											SUNRISE: 0618 MAR 20			SUNSET: 1827									
01	FEW	NC			10.00		41	25	35	53	5	12	29.96	30.45	01	CLR	NC			10.00		44	37	41	76	12	11	29.99	30.47	
04	OVC	200			10.00		42	34	39	73	0	00	29.97	30.45	04	CLR	NC			9.00		40	37	39	89	0	00	29.99	30.47	
07	BKN	150			7.00		39	36	38	89	8	13	29.97	30.45	07	CLR	NC			6.00	BR		35	35	35	100	0	00	30.02	30.51
10	BKN	250			10.00		47	35	42	63	0	00	29.99	30.47	10	CLR	NC			10.00		51	37	45	59	8	21	30.00	30.48	
13	BKN	250			10.00		59	34	47	39	9	19	29.91	30.39	13	CLR	NC			10.00		63	43	53	48	14	21	29.87	30.35	
16	BKN	250			10.00		64	46	55	52	13	18	29.80	30.27	16	BKN	040			10.00		66	50	57	56	16	22	29.75	30.23	
19	BKN	250			10.00		60	49	54	67	8	18	29.78	30.25	19	FEW	NC			10.00		62	52	56	70	10	20	29.65	30.12	
22	OVC	250			10.00		59	53	56	81	13	20	29.78	30.25	22	FEW	NC			10.00		59	53	56	81	17	22	29.57	30.04	
				SUNRISE: 0625 MAR 15			SUNSET: 1823											SUNRISE: 0617 MAR 21			SUNSET: 1828									
01	OVC	150			10.00		57	53	55	87	10	21	29.74	30.21	01	SCT	NC			9.00		59	55	57	87	16	22	29.46	29.93	
04	OVC	010			9.00		57	56	56	96	5	23	29.72	30.18	04	BKN	110			10.00		59	56	57	90	14	23	29.39	29.86	
07	OVC	020			1.00	+RA BR	55	55	55	100	8	23	29.75	30.22	07	OVC	080			10.00		60	57	58	90	9	26	29.41	29.88	
10	OVC	040			4.00	BR	58	58	58	100	0	00	29.76	30.23	10	BKN	068			10.00		58	33	46	39	10	36	29.46	29.93	
13	OVC	017			8.00		60	56	58	86	8	03	29.73	30.20	13	BKN	100			10.00		60	31	47	33	12	31	29.47	29.94	
16	OVC	050			10.00		56	52	54	87	5	03	29.69	30.16	16	BKN	200			10.00		57	29	45	34	13	32	29.47	29.94	
19	OVC	090			9.00		54	52	53	93	5	03	29.68	30.15	19	BKN	200			10.00		46	22	37	38	9	33	29.60	30.07	
22	OVC	041			4.00	-RA BR	54	54	54	100	6	22	29.68	30.14	22	CLR	NC			10.00		40	18	32	41	7	VR	29.67	30.14	
				SUNRISE: 0624 MAR 16			SUNSET: 1824											SUNRISE: 0615 MAR 22			SUNSET: 1829									
01	OVC	005			1.50	-RA BR	55	55	55	100	6	10	29.57	30.04	01	CLR	NC			10.00		37	18	30	46	8	32	29.69	30.16	
04	OVC	002			0.75	BR	56	56	56	100	7	14	29.47	29.94	04	SCT	NC			10.00		35	18	29	50	3	VR	29.69	30.17	
07	OVC	004			1.00	BR	59	59	59	100	8	16	29.41	29.88	07	BKN	250			10.00		34	17	28	50	6	VR	29.74	30.22	
10	OVC	006			1.25	-RA BR	61	61	61	100	7	21	29.37	29.84	10	OVC	150			10.00		40	16	32	38	12	34	29.81	30.29	
13	OVC	011			3.00	-RA BR	63	62	62	97	12	22	29.29	29.75	13	BKN	250			10.00		44	16	34	32	12	36	29.79	30.27	
16	OVC	016			7.00		64	62	63	93	12	35	29.21	29.68	16	BKN	070			10.00		46	15	35	29	13	28	29.78	30.26	
19	OVC	006			8.00		49	49	49	100	8	01	29.27	29.74	19	FEW	NC			10.00		41	11	31	29	6	VR	29.85	30.34	
22	OVC	006			10.00	-RA	45	45	45	100	7	03	29.36	29.83	22	CLR	NC			10.00		35	10	27	35	0	00	29.93	30.42	
				SUNRISE: 0622 MAR 17			SUNSET: 1825											SUNRISE: 0614 MAR 23			SUNSET: 1830									
01	OVC	004			7.00		43	43	43	100	7	36	29.36	29.83	01	CLR	NC			10.00		31	12	25	45	5	36	29.95	30.44	
04	OVC	004			5.00	BR	42	42	42	100	6	02	29.37	29.84	04	CLR	NC			10.00		26	14	22	60	0	00	29.98	30.47	
07	OVC	006			6.00	BR	41	41	41	100	3	33	29.44	29.92	07	FEW	NC			10.00		25	18	23	75	0	00	30.04	30.54	
10	OVC	008			6.00	BR	41	40	41	96	6	05	29.49	29.97	10	CLR	NC			10.00		40	9	30	28	5	05	30.10	30.59	
13	OVC	016			10.00		45	40	43	83	0	00	29.47	29.95	13	FEW	NC			10.00		49	15	37	26	5	VR	30.05	30.54	
16	OVC	032			10.00	-RA	47	42	45	83	3	VR	29.47	29.95	16	FEW	NC			10.00		53	16	39	23	7	24	29.98	30.47	
19	BKN	037			6.00	BR	43	43	43	100	0	00	29.52	30.00	19	FEW	NC			10.00		47	16	36	29	3	24	29.98	30.48	
22	CLR	NC			4.00	BR	39	39	39	100	0	00	29.58	30.06	22	CLR	NC			10.00		40	20	33	45	5	18	30.03	30.52	
				SUNRISE: 0621 MAR 18			SUNSET: 1826											SUNRISE: 0612 MAR 24			SUNSET: 1831									
01	OVC	110			6.00	BR	41	40	41	96	6	17	29.60	30.07	01	CLR	NC			10.00		39	20	32	46	6	18	30.05	30.53	
04	SCT	NC			4.00	BR	37	37	37	100	3	20	29.60	30.08	04	CLR	NC			10.00		34	26	31	73	5	23	30.04	30.53	
07	OVC	110			4.00	BR MIFG	35	35	35	100	0	00	29.64	30.11	07	BKN	250			10.00		34	28	32	79	0	00	30.07	30.56	
10																														

## RALEIGH/DURHAM, NC

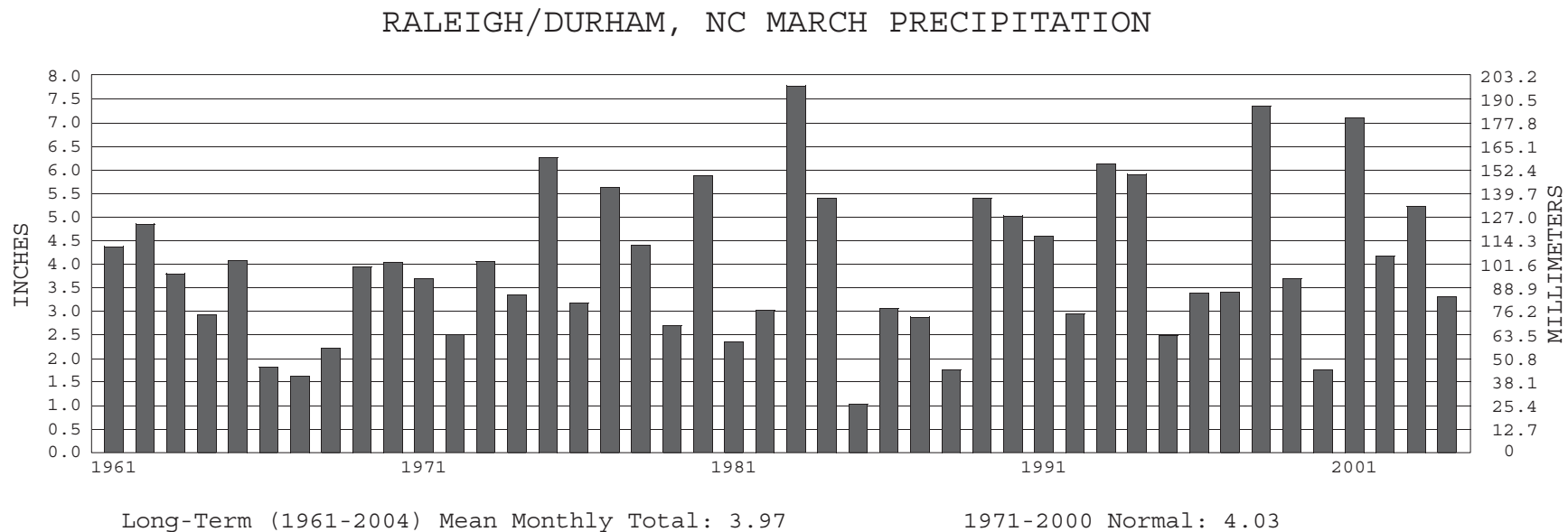
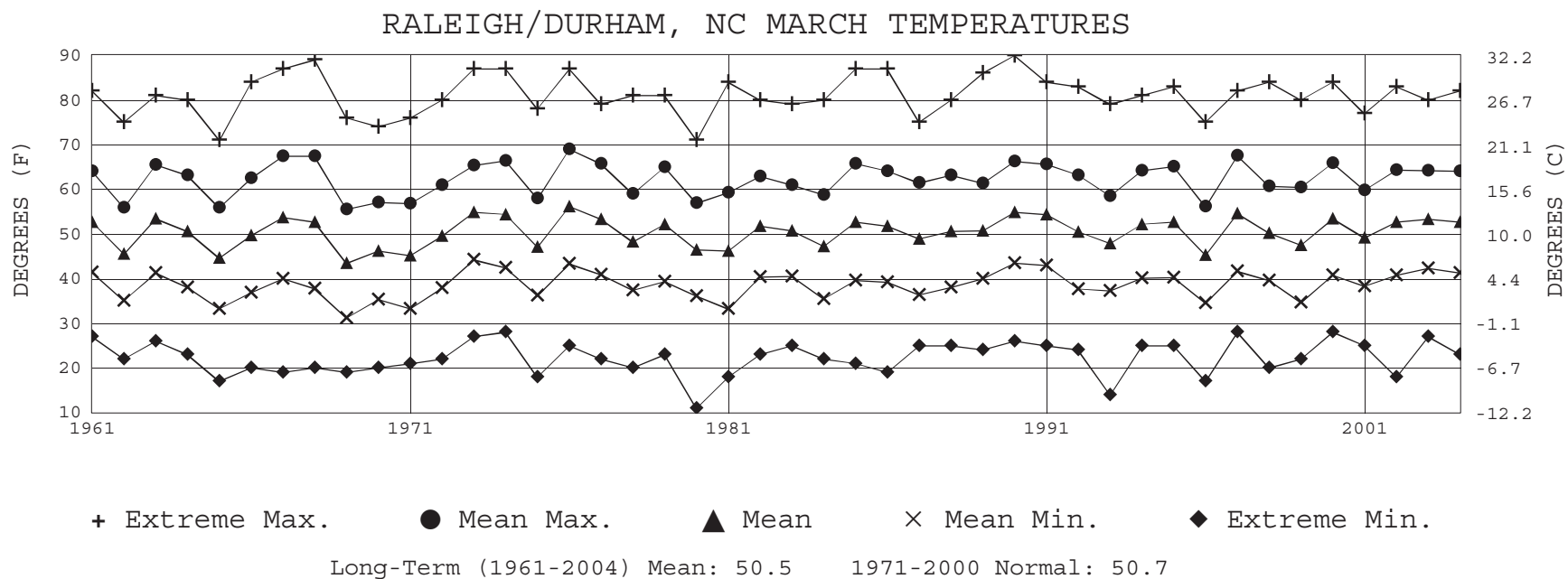
MARCH 2004

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 Off	Observation Time (LST)	Eff ClD AMT Okta's	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 Off	Observation Time (LST)	Eff ClD AMT Okta's		Visibility (Miles)	Dry Bulb	Dew Point	Wet Bulb	Relative Humidity (Pct)	Speed (MPH)	Direction Tens of Deg	Station	Sea Level
01	FEW	NC			10.00									01	OVC	020			4.00	BR									
04	BKN	120			10.00									04	SCT	NC			4.00	BR									
07	SCT	NC			10.00									07	OVC	002			0.06	FG									
10	SCT	NC			10.00									10	OVC	005			1.25	BR									
13	SCT	NC			10.00									13	BKN	014			10.00										
16	SCT	NC			10.00									16	OVC	036			10.00										
19	SCT	NC			10.00									19	OVC	080			8.00	-RA									
22	FEW	NC			10.00									22	OVC	055			9.00										
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 Visibility = 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.																													
Summary by Hour																													
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)																		
							Station	Sea Level			Speed	Direction																	
01			49	41	46	77	29.72	30.19	8.85	6	2	21																	
02			48	41	45	80	29.71	30.19	8.77	5	3	20																	
03			47	42	45	82	29.71	30.18	8.75	6	3	22																	
04			47	42	45	84	29.70	30.18	8.51	4	2	22																	
05			46	42	44	86	29.71	30.19	8.33	5	2	24																	
06			45	41	44	88	29.72	30.20	8.00	4	1	23																	
07			45	41	44	88	29.73	30.21	7.78	5	2	23																	
08			48	42	46	81	29.75	30.22	7.97	7	2	23																	
09			52	42	47	71	29.76	30.23	8.58	9	1	26																	
10			55	41	49	64	29.76	30.23	8.85	9	3	26																	
11			57	41	50	59	29.75	30.22	8.87	9	4	26																	
12			59	42	51	56	29.74	30.21	9.19	8	5	25																	
13			61	42	52	54	29.71	30.18	9.34	9	4	24																	
14			61	42	52	54	29.69	30.16	9.15	9	4	23																	
15			62	42	52	52	29.67	30.14	9.29	9	4	25																	
16			62	43	52	53	29.66	30.14	9.55	9	4	25																	
17			61	42	52	54	29.66	30.13	9.52	10	3	24																	
18			59	41	50	57	29.67	30.14	9.24	8	1	24																	
19			56	42	49	64	29.68	30.15	9.00	5	1	20																	
20			54	42	49	67	29.69	30.16	8.61	6	2	18																	
21			52	41	47	71	29.70	30.17	8.70	6	2	19																	
22			51	41	47	73	29.71	30.18	8.87	6	3	20																	
23			50	42	46	75	29.70	30.17	8.87	7	3	20																	
24			50	41	46	76	29.70	30.17	8.66	6	3	21																	







MARCH 2004

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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