



MAY 2005

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	69	46	58	-5	47	53	7	0	RA BR	0		0.0	0.35	29.49	29.96	2.1	30	5.1	18	02	14	01	01		
02	70	41	56	-7	39	48	9	0	BR	0		0.0	0.00	29.56	30.03	1.3	33	4.4	18	01	14	01	02		
03	68	47	58	-6	36	47	7	0		0		0.0	0.00	29.66	30.13	0.9	34	4.7	17	23	13	23	03		
04	69	43	56	-8	45	51	9	0	BR	0		0.0	0.00	29.80	30.27	6.4	04	6.9	20	03	15	04	04		
05	65	47	56	-9	44	50	9	0	RA BR	0		0.0	0.30	29.87	30.34	9.5	06	9.8	22	06	17	04	05		
06	55	43	49*	-16	43	46	16	0	RA BR	0		0.0	0.52	29.65	30.12	8.2	02	8.6	28	03	17	02	06		
07	77	39*	58	-7	44	51	7	0	RA DZ BR	0		0.0	T	29.55	30.02	2.6	29	3.7	18	24	14	31	07		
08	78	47	63	-2	46	54	2	0	BR	0		0.0	0.00	29.51	29.98	3.9	36	4.7	20	32	14	01	08		
09	80	45	63	-2	45	54	2	0	MIFG	0		0.0	0.00	29.54	30.01	2.8	06	3.7	17	08	15	08	09		
10	82	53	68	3	52	59	0	3		0		0.0	0.00	29.56	30.02	4.4	15	5.4	16	12	12	17	10		
11	85	60	73	7	61	65	0	8	HZ	0		0.0	0.00	29.57	30.04	3.9	21	4.6	14	22	10	23	11		
12	89*	60	75*	9	62	66	0	10	TS TSRA RA BR HZ	0		0.0	0.06	29.64	30.10	0.4	16	5.4	26	09	23	09	12		
13	69	58	64	-2	54	58	1	0	BR	0		0.0	0.00	29.77	30.24	6.1	10	7.7	17	10	14	09	13		
14	83	60	72	6	61	65	0	7	HZ	0		0.0	0.00	29.55	30.02	9.1	22	9.6	23	22	20	23	14		
15	81	65	73	7	64	66	0	8	TS TSRA RA DZ BR HZ	0		0.0	0.14	29.41	29.87	6.7	23	6.9	26	25	21	24	15		
16	77	58	68	1	55	60	0	3	RA BR	0		0.0	T	29.48	29.94	1.3	02	4.4	16	05	14	03	16		
17	78	57	68	1	54	59	0	3	BR HZ	0		0.0	0.00	29.58	30.04	6.1	09	6.9	23	09	18	10	17		
18	82	53	68	0	55	61	0	3	BR HZ	0		0.0	0.00	29.59	30.05	3.3	18	4.5	21	23	15	18	18		
19	83	61	72	4	59	63	0	7	TSRA RA BR HZ	0		0.0	0.16	29.52	29.99	4.6	18	6.0	22	20	14	22	19		
20	78	53	66	-2	59	62	0	1	RA BR	0		0.0	0.45	29.34	29.80	4.6	23	12.5	30	21	23*	22	20		
21	73	51	62	-6	47	53	3	0	RA	0		0.0	T	29.46	29.93	6.1	04	6.8	20	05	16	05	21		
22	81	49	65	-4	52	58	0	0		0		0.0	0.00	29.37	29.83	5.7	25	6.2	22	25	15	25	22		
23	84	60	72	3	56	62	0	7	RA BR HZ	0		0.0	T	29.15	29.60	4.4	28	7.1	23	30	17	26	23		
24	74	54	64	-5	53	57	1	0	TSRA RA DZ MIFG BR	0		0.0	0.09	29.19	29.65	5.0	34	7.1	30*	36	20	33	24		
25	69	52	61	-8	49	54	4	0	DZ	0		0.0	T	29.35	29.82	4.3	36	5.7	21	02	15	30	25		
26	82	52	67	-2	49	57	0	2		0		0.0	0.00	29.38	29.85	3.6	30	4.7	21	28	16	27	26		
27	87	54	71	1	54	61	0	6		0		0.0	0.00	29.45	29.91	3.1	24	3.4	21	25	16	24	27		
28	80	57	69	-1	58	62	0	4	RA BR HZ	0		0.0	T	29.43	29.89	2.8	25	3.5	15	35	10	30	28		
29	84	49	67	-3	50	58	0	2	BCFG BR	0		0.0	0.00	29.50	29.97	2.1	27	3.7	20	24	14	24	29		
30	78	59	69	-1	57	61	0	4	BR	0		0.0	0.00	29.50	29.97	4.4	23	5.5	16	22	14	23	30		
31	80	54	67	-4	57	62	0	2	MIFG BR	0		0.0	0.00	29.56	30.02	5.2	07	6.0	18	04	15	09	31		
77.1 52.5 64.8 ■■											< MONTHLY AVERAGES		TOTALS->		0.0	2.07	29.52	29.98	0.2	34	6.0	<- MONTHLY AVERAGES			
-1.6 -2.8 -2.2 ■■											<-----DEPARTURE FROM NORMAL----->		-1.72	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.82 DATE :05-06						SEA LEVEL PRESSURE DATE TIME										
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE :						MAXIMUM : 30.41 05 0951										
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :						MINIMUM : 29.53 23 1651										
HEATING: 77 16 3164 -296									NUMBER OF DAYS WITH ➔			MAXIMUM TEMP ≥ 90: 0			MINIMUM TEMP ≤ 32 : 0			PRECIPITATION ≥ 0.01 INCH : 8							
COOLING: 80 -39 109 -58												MAXIMUM TEMP ≤ 32 : 0			MINIMUM TEMP ≤ 0 : 0			PRECIPITATION ≥ 0.10 INCH : 6							
												THUNDERSTORMS : 4			HEAVY FOG : 0			SNOWFALL ≥ 1.0 INCH : 0							

MAY 2005
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

MAY 2005

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	0.03	0.07	0.17	0.03	0.04	0.01						01												01		0.35		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05						0.01	0.06	0.03	0.05	0.04	0.11	05		0.30		
06	0.04	0.07	0.04	0.06	0.03	0.08	0.07	0.06	0.03	0.04	T	T	06	T	T	T									06		0.52		
07													07								T	T	T	T	07		T		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12					0.05	0.01		T			12	0.06				
13													13												13		0.00		
14													14												14		0.00		
15					T	0.01	T						15		T	T	T	0.13				T	T	T	15		0.14		
16	T												16												16		T		
17													17												17		0.00		
18													18												18		0.00		
19				0.01	T								19			T	0.01	0.07	T	T	T	T	0.05	0.02	19		0.16		
20						0.03	0.01	0.01	T	T	T		20					0.09	0.04	0.22	0.05	T		T	20		0.45		
21	T	T											21												21		T		
22													22												22		0.00		
23						T	T	T					23												23		T		
24	0.01	T											24			0.06	T		T	0.02		T		T	24		0.09		
25	T				T								25												25		T		
26													26												26		0.00		
27													27												27		0.00		
28													28			T	T								28		T		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.07	.13	.13	.16	.18	.20	.23	.27	.28	.31	.37	.40
Ending Date	15	15	20	20	20	20	20	20	20	20	20	20
Ending Time (Hour/Min)	1606	1610	1906	1910	1922	1929	1949	2011	2011	1929	2002	2011

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 2005**

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							3.00	10.00	
02							6.00	10.00	
03							10.00	10.00	
04							6.00	10.00	
05							5.00	10.00	
06							3.00	10.00	
07							6.00	10.00	
08							5.00	10.00	
09							7.00	10.00	
10							10.00	10.00	
11							6.00	10.00	
12							3.00	10.00	
13							6.00	10.00	
14							5.00	10.00	
15							2.50	10.00	
16							3.00	10.00	
17							5.00	10.00	
18							5.00	10.00	
19							3.00	10.00	
20							3.00	10.00	
21							10.00	10.00	
22							7.00	10.00	
23							3.00	10.00	
24							3.00	10.00	
25							7.00	10.00	
26							10.00	10.00	
27							7.00	10.00	
28							4.00	10.00	
29							5.00	10.00	
30							5.00	10.00	
31							2.00	10.00	
MONTHLY AVGS							5.34	10.00	

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

0 10 8

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MAY 2005

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: 0523 MAY 01						SUNSET: 1901						SUNRISE: 0517 MAY 07						SUNSET: 1907											
01	BKN	090			10.00	RA BR	63	60	61	90	8	21	29.35	29.82	01	CLR	NC			7.00	41	39	40	93	3	27	29.61	30.09	
04	OVC	033			3.00		58	56	57	93	9	35	29.39	29.85	04	SCT	NC			7.00	43	38	41	82	3	36	29.60	30.07	
07	BKN	065			8.00		54	51	52	90	0	00	29.47	29.93	07	CLR	NC			6.00	45	42	44	90	3	28	29.62	30.10	
10	SCT	NC			10.00		62	48	55	60	10	34	29.51	29.97	10	CLR	NC			10.00	61	42	51	50	5	28	29.61	30.08	
13	SCT	NC			10.00		66	42	54	42	3	VR	29.53	29.99	13	CLR	NC			10.00	71	44	57	38	8	27	29.54	30.01	
16	FEW	NC			10.00	69	39	54	33	7	VR	29.51	29.98	16	BKN	250			10.00	76	44	58	32	7	25	29.48	29.94		
19	SCT	NC			10.00	61	40	51	46	0	00	29.52	29.99	19	BKN	095			10.00	66	49	57	54	0	00	29.46	29.93		
22	CLR	NC			10.00	49	45	47	86	0	00	29.59	30.06	22	BKN	095			10.00	62	52	56	70	5	36	29.51	29.97		
SUNRISE: 0522 MAY 02						SUNSET: 1902						SUNRISE: 0516 MAY 08						SUNSET: 1907											
01	CLR	NC			10.00	BR	46	43	45	89	0	00	29.59	30.06	01	SCT	NC			6.00	54	52	53	93	0	00	29.48	29.95	
04	BKN	070			6.00		44	42	43	93	0	00	29.59	30.06	04	FEW	NC			5.00	50	49	49	96	0	00	29.49	29.95	
07	SCT	NC			10.00		50	44	47	80	0	00	29.59	30.06	07	CLR	NC			7.00	58	51	54	78	7	02	29.54	30.01	
10	BKN	070			10.00		62	33	48	34	0	00	29.59	30.06	10	FEW	NC			10.00	69	46	57	44	9	02	29.57	30.03	
13	BKN	070			10.00		67	36	52	32	7	23	29.54	30.01	13	CLR	NC			10.00	74	40	56	29	8	33	29.53	29.99	
16	BKN	110			10.00	67	41	54	39	7	25	29.48	29.95	16	CLR	NC			10.00	77	39	57	26	9	01	29.48	29.94		
19	BKN	080			10.00	62	40	51	44	10	01	29.51	29.98	19	FEW	NC			10.00	69	45	56	42	0	00	29.48	29.94		
22	BKN	090			10.00	54	39	47	57	5	03	29.60	30.06	22	CLR	NC			10.00	55	47	51	74	3	05	29.51	29.98		
SUNRISE: 0521 MAY 03						SUNSET: 1903						SUNRISE: 0515 MAY 09						SUNSET: 1908											
01	BKN	100			10.00	51	33	43	50	8	02	29.61	30.08	01	CLR	NC			10.00	52	47	49	83	0	00	29.52	29.99		
04	OVC	070			10.00	50	32	42	50	6	36	29.64	30.11	04	CLR	NC			7.00	47	46	46	97	0	00	29.53	30.00		
07	BKN	090			10.00	50	37	44	61	5	02	29.68	30.15	07	CLR	NC			8.00	56	49	52	77	5	02	29.58	30.05		
10	FEW	NC			10.00	58	29	45	33	7	VR	29.71	30.18	10	FEW	NC			10.00	71	42	56	35	9	06	29.60	30.06		
13	FEW	NC			10.00	64	32	49	30	5	VR	29.67	30.14	13	CLR	NC			10.00	77	42	58	29	5	VR	29.56	30.02		
16	SCT	NC			10.00	68	37	53	32	13	23	29.62	30.09	16	CLR	NC			10.00	80	41	59	25	5	08	29.51	29.98		
19	FEW	NC			10.00	60	39	50	46	0	00	29.64	30.11	19	CLR	NC			10.00	71	47	58	42	6	09	29.51	29.97		
22	CLR	NC			10.00	51	43	47	74	0	00	29.68	30.15	22	CLR	NC			10.00	57	49	53	75	0	00	29.54	30.00		
SUNRISE: 0520 MAY 04						SUNSET: 1904						SUNRISE: 0514 MAY 10						SUNSET: 1909											
01	FEW	NC			10.00	45	41	43	86	0	00	29.69	30.16	01	CLR	NC			10.00	58	48	53	70	7	15	29.55	30.01		
04	BKN	100			10.00	47	42	45	83	5	07	29.73	30.20	04	CLR	NC			10.00	53	49	51	86	0	00	29.54	30.00		
07	FEW	NC			8.00	51	44	48	77	5	04	29.78	30.24	07	CLR	NC			10.00	58	51	54	78	0	00	29.58	30.05		
10	BKN	100			10.00	61	47	54	60	6	VR	29.82	30.29	10	FEW	NC			10.00	73	55	62	53	5	VR	29.60	30.06		
13	BKN	100			10.00	67	47	56	49	10	01	29.81	30.28	13	SCT	NC			10.00	80	51	63	37	7	20	29.56	30.02		
16	BKN	050			10.00	66	48	56	52	10	05	29.80	30.27	16	BKN	250			10.00	81	50	63	34	7	15	29.52	29.98		
19	SCT	NC			10.00	60	48	54	65	7	03	29.84	30.31	19	BKN	250			10.00	76	52	62	43	5	17	29.53	30.00		
22	SCT	NC			10.00	55	47	51	74	9	05	29.89	30.37	22	SCT	NC			10.00	69	56	61	63	10	18	29.56	30.02		
SUNRISE: 0519 MAY 05						SUNSET: 1905						SUNRISE: 0513 MAY 11						SUNSET: 1910											
01	BKN	200			10.00	52	44	48	75	7	06	29.87	30.35	01	BKN	017			10.00	66	60	62	81	7	16	29.57	30.03		
04	BKN	200			10.00	49	44	47	83	7	05	29.87	30.35	04	FEW	NC			7.00	61	59	60	93	5	16	29.54	30.00		
07	OVC	200			9.00	51	44	48	77	7	06	29.91	30.39	07	FEW	NC			7.00	63	59	61	87	5	19	29.59	30.05		
10	OVC	200			10.00	60	42	51	52	14	05	29.93	30.41	10	FEW	NC			10.00	74	63	67	69	8	22	29.62	30.08		
13	OVC	150			10.00	65	42	53	44	13	07	29.89	30.37	13	FEW	NC			10.00	82	63	70	53	8	21	29.59	30.05		
16	OVC	100			10.00	62	42	52	48	9	07	29.84	30.31	16	SCT	NC			8.00	81	60	68	49	7	26	29.55	30.01		
19	OVC	065			7.00	55	46	50	72	7	06	29.82	30.29	19	CLR	NC			9.00	75	60	66	60	6	24	29.54	30.00		
22	OVC	070			6.00	50	46	48	86	12	04	29.82	30.29	22	CLR	NC			7.00	67	60	63	79	0	00	29.59	30.05		
SUNRISE: 0518 MAY 06						SUNSET: 1906						SUNRISE: 0512 MAY 12						SUNSET: 1911											
01	OVC	075			5.00	-RA BR	47	45	46	93	10	03	29.75	30.22	01	CLR	NC			6.00	65	60	62	84	3	23	29.59	30.06	
04	OVC	010			5.00	-RA BR	47	45	46	93	10	02	29.66	30.13	04	CLR	NC			4.00	62	59	60	90	5	23	29.59	30.05	
07	OVC	010			3.00	-RA BR	47	46	46	97	13	03	29.67	30.14	07	BKN	250			3.00	66	62	64	87	7	23	29.63	30.09	
10	OVC	014			5.00	-RA BR	48	45	47	89	14	02	29.66	30.13	10	BKN	250			7.00	80	62	69	54	6	24	29.64	30.11	
13	OVC	017			8.00	-RA	49	45	47	86	10	01	29.64	30.11	13	SCT	NC			8.00	88	62	71	42	0	00	29.64	30.09	
16	OVC	035			10.00	53	44	49	72	8	36	29.62	30.09	16	BKN	250			10.00	88	60	70	39	3	VR	29.60	30.06		
19	BKN	250			10.00	54	37	46	53	6	36	29.60	30.08	19	BKN	095			6.00	68	65	66	90	0	00	29.63	30.10		
22	CLR	NC			10.00	48	38	43	68	3	35	29.62	30.10	22	BKN	110			10.00	67	63	64	87	20	09	29.73	30.19		

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MAY 2005

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 Otkas		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 Otkas	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: 1916																							
01	BKN	080			8.00		63	59	61	87	7	07	29.75	30.21	01	BKN	100			10.00		66	52	58	61	7	20	29.57	30.03
04	BKN	015			6.00	BR	60	57	58	90	7	03	29.76	30.22	04	OVC	080			7.00		63	55	58	76	5	23	29.56	30.02
07	BKN	030			9.00		60	56	58	86	8	05	29.81	30.27	07	BKN	040			5.00	HZ	64	56	59	75	3	15	29.60	30.06
10	OVC	035			10.00		63	52	57	68	8	10	29.82	30.29	10	BKN	250			7.00		72	56	62	57	10	19	29.58	30.04
13	OVC	037			10.00		65	52	58	63	7	07	29.82	30.28	13	BKN	150			8.00		80	59	67	49	10	18	29.53	29.99
16	OVC	050			10.00		68	52	59	57	12	12	29.75	30.22	16	OVC	075			6.00	-TSRA BR	70	67	68	90	5	36	29.48	29.94
19	OVC	050			10.00		65	53	58	66	7	15	29.74	30.21	19	OVC	110			4.00	BR	69	65	66	87	0	00	29.47	29.93
22	OVC	050			10.00		63	53	57	70	5	15	29.74	30.21	22	OVC	048			8.00	-RA	67	62	64	84	9	17	29.48	29.94
SUNRISE: 0511 MAY 14 SUNSET: 1912						SUNRISE: 0506 MAY 20 SUNSET: 1917																							
01	OVC	018			10.00		62	56	59	81	5	18	29.70	30.17	01	SCT	NC			7.00		65	62	63	90	10	18	29.42	29.88
04	OVC	013			10.00		61	56	58	84	7	16	29.65	30.11	04	BKN	200			8.00		65	61	63	87	12	19	29.36	29.82
07	OVC	012			10.00		63	57	60	81	6	23	29.65	30.12	07	OVC	050			5.00	BR	66	64	65	93	13	20	29.35	29.81
10	BKN	065			9.00		73	64	67	74	13	23	29.62	30.08	10	OVC	011			10.00	-RA	69	64	66	84	17	23	29.32	29.78
13	BKN	100			8.00		80	63	69	56	16	23	29.55	30.01	13	BKN	060			10.00		75	61	66	62	10	25	29.29	29.75
16	BKN	100			8.00		81	63	69	54	15	23	29.47	29.93	16	OVC	110			10.00		74	62	66	67	7	23	29.26	29.72
19	OVC	250			5.00	HZ	74	63	67	69	6	23	29.44	29.90	19	OVC	012			3.00	RA BR	57	55	56	93	9	02	29.34	29.81
22	CLR	NC			6.00	HZ	72	63	66	73	10	21	29.45	29.91	22	OVC	016			10.00		53	50	51	89	13	03	29.41	29.87
SUNRISE: 0510 MAY 15 SUNSET: 1913						SUNRISE: 0506 MAY 21 SUNSET: 1918																							
01	BKN	250			4.00	HZ	69	64	66	84	10	22	29.43	29.89	01	OVC	018			10.00		53	50	51	89	6	02	29.42	29.88
04	OVC	250			3.00	BR	67	64	65	91	7	22	29.42	29.88	04	OVC	017			10.00		53	49	51	86	3	VR	29.44	29.91
07	BKN	075			2.50	BR	68	65	66	90	8	23	29.44	29.90	07	OVC	021			10.00		53	47	50	80	10	03	29.48	29.95
10	BKN	090			6.00	HZ	73	63	67	71	10	23	29.44	29.90	10	SCT	NC			10.00		62	47	54	58	10	03	29.51	29.98
13	BKN	100			10.00		79	61	68	54	13	25	29.40	29.86	13	FEW	NC			10.00		70	46	57	42	10	04	29.46	29.93
16	OVC	035			9.00	TS	74	63	67	69	8	24	29.36	29.82	16	BKN	060			10.00		70	45	56	41	6	VR	29.44	29.91
19	BKN	150			5.00	BR	68	66	67	93	0	00	29.36	29.82	19	SCT	NC			10.00		65	49	56	56	0	00	29.46	29.92
22	OVC	100			5.00	BR	67	65	66	93	5	23	29.40	29.86	22	SCT	NC			10.00		53	48	50	83	0	00	29.48	29.95
SUNRISE: 0509 MAY 16 SUNSET: 1914						SUNRISE: 0505 MAY 22 SUNSET: 1919																							
01	OVC	040			3.00	BR	65	64	64	97	7	23	29.40	29.86	01	BKN	110			10.00		55	50	52	83	0	00	29.45	29.92
04	BKN	080			10.00		63	58	60	84	6	34	29.40	29.86	04	FEW	NC			8.00		51	49	50	92	3	25	29.43	29.90
07	SCT	NC			10.00		59	52	55	78	6	VR	29.48	29.94	07	FEW	NC			10.00		57	53	55	87	5	22	29.44	29.91
10	BKN	250			10.00		69	54	60	59	7	02	29.52	29.98	10	SCT	NC			10.00		73	53	61	50	14	24	29.43	29.90
13	BKN	100			10.00		73	51	60	46	0	00	29.49	29.95	13	SCT	NC			10.00		76	50	61	40	9	29	29.36	29.83
16	BKN	055			10.00		74	52	61	46	8	08	29.47	29.93	16	SCT	NC			10.00		79	43	59	28	6	28	29.30	29.76
19	BKN	250			10.00		71	54	61	55	5	13	29.49	29.95	19	BKN	120			10.00		70	53	60	55	5	24	29.29	29.75
22	BKN	250			7.00		61	56	58	84	5	36	29.53	29.99	22	BKN	120			10.00		65	56	60	73	8	23	29.29	29.75
SUNRISE: 0508 MAY 17 SUNSET: 1915						SUNRISE: 0504 MAY 23 SUNSET: 1919																							
01	SCT	NC			6.00	BR	59	56	57	90	0	00	29.53	29.99	01	BKN	050			9.00		67	60	63	79	7	22	29.23	29.69
04	BKN	200			5.00	BR	58	56	57	93	5	04	29.54	30.00	04	FEW	NC			6.00	BR	63	60	61	90	6	20	29.19	29.65
07	OVC	020			6.00	BR	59	55	57	87	9	05	29.61	30.07	07	BKN	110			3.00	-RA BR	64	61	62	90	5	23	29.18	29.65
10	FEW	NC			10.00		69	51	59	53	14	09	29.62	30.08	10	SCT	NC			8.00		76	62	67	62	7	28	29.16	29.62
13	SCT	NC			10.00		75	53	62	46	8	03	29.58	30.05	13	BKN	250			10.00		83	49	63	31	12	27	29.10	29.56
16	BKN	060			10.00		76	52	62	43	7	08	29.56	30.02	16	BKN	250			10.00		80	53	64	39	6	30	29.08	29.53
19	CLR	NC			10.00		71	53	61	53	6	11	29.57	30.03	19	SCT	NC			10.00		76	52	62	43	3	01	29.09	29.55
22	CLR	NC			9.00		64	55	59	73	3	13	29.59	30.05	22	SCT	NC			10.00		63	55	58	76	3	33	29.12	29.58
SUNRISE: 0507 MAY 18 SUNSET: 1916						SUNRISE: 0504 MAY 24 SUNSET: 1920																							
01	CLR	NC			7.00		60	54	57	80	3	14	29.59	30.06	01	OVC	050			9.00	-RA	61	57	59	87	0	00	29.18	29.63
04	BKN	200			5.00	BR	54	53	53	97	5	09	29.61	30.07	04	CLR	NC			5.00	BR MIFG	56	55	55	97	3	23	29.11	29.57
07	CLR	NC			6.00	HZ	61	54	57	78	0	00	29.64	30.11	07	FEW	NC			10.00		61	55	58	81	6	31	29.14	29.60
10	BKN	250			10.00		72	52	60	50	0	00	29.65	30.11	10	BKN	080			10.00		69	50	58	51	8	32	29.16	29.62
13	BKN	250			10.00		80	57	66	45	3	VR	29.60	30.06	13	BKN	045			10.00		72	51	60	48	8	29	29.14	29.60
16	SCT	NC			9.00		80	56	65	44	8	19	29.53	30.00	16	OVC	047			3.00	-TSRA BR	58	55	56	90	13	36	29.18	29.65
19	BKN	130																											

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

MAY 2005

RDU

WBAN # 13722

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
				SUNRISE: 0503																									
01	BKN	050			10.00		53	50	51	89	6	02	29.30	29.77	01	FEW	NC					58	57	57	97	0	00	29.48	29.94
04	OVC	015			10.00		53	50	51	89	7	01	29.30	29.77	04	FEW	NC					57	56	56	96	0	00	29.50	29.96
07	BKN	080			10.00		54	50	52	87	7	VR	29.34	29.81	07	OVC	200					62	59	60	90	7	04	29.55	30.01
10	BKN	025			10.00		60	50	55	70	12	02	29.36	29.83	10	BKN	250					73	56	63	55	9	06	29.57	30.03
13	BKN	080			10.00		66	46	55	49	12	31	29.36	29.83	13	BKN	045					76	56	64	50	6	07	29.57	30.03
16	OVC	060			10.00		65	47	55	52	5	VR	29.35	29.81	16	BKN	050					79	57	66	47	8	07	29.54	30.01
19	OVC	060			10.00		63	50	56	63	0	00	29.36	29.82	19	BKN	250					74	57	64	56	7	06	29.58	30.04
22	OVC	060			10.00		61	49	54	65	3	02	29.39	29.85	22	FEW	NC					68	57	62	68	7	07	29.61	30.07
				SUNRISE: 0503																									
01	OVC	065			10.00		58	51	54	78	0	00	29.39	29.86															
04	BKN	065			10.00		53	48	50	83	5	25	29.37	29.83															
07	CLR	NC			10.00		59	50	54	72	6	VR	29.40	29.87															
10	CLR	NC			10.00		73	49	59	43	8	30	29.40	29.86															
13	SCT	NC			10.00		78	48	61	35	12	28	29.37	29.83															
16	FEW	NC			10.00		80	47	61	31	8	29	29.35	29.81															
19	CLR	NC			10.00		76	49	61	39	5	28	29.37	29.83															
22	CLR	NC			10.00		61	52	56	72	0	00	29.40	29.87															
				SUNRISE: 0502																									
01	CLR	NC			10.00		61	53	57	75	0	00	29.43	29.89															
04	FEW	NC			9.00		56	52	54	87	0	00	29.43	29.89															
07	BKN	250			8.00		64	58	60	81	5	23	29.46	29.92															
10	SCT	NC			10.00		79	51	63	38	5	VR	29.48	29.94															
13	BKN	150			10.00		84	52	65	33	7	23	29.45	29.91															
16	SCT	NC			10.00		85	53	66	34	7	24	29.43	29.89															
19	CLR	NC			10.00		77	56	64	48	3	24	29.42	29.88															
22	CLR	NC			10.00		66	57	61	73	0	00	29.45	29.91															
				SUNRISE: 0502																									
01	BKN	110			10.00		68	58	62	70	5	17	29.43	29.88															
04	CLR	NC			7.00		62	57	59	84	5	25	29.43	29.89															
07	SCT	NC			6.00	HZ	67	60	63	79	5	25	29.44	29.90															
10	BKN	250			10.00		77	57	65	50	0	00	29.44	29.90															
13	OVC	130			10.00		77	59	66	54	8	27	29.43	29.89															
16	BKN	090			10.00		72	57	63	60	0	00	29.43	29.89															
19	BKN	200			4.00	HZ	71	56	62	59	6	25	29.41	29.87															
22	SCT	NC			6.00	BR	62	58	60	86	0	00	29.46	29.93															
				SUNRISE: 0501																									
01	BKN	250			5.00	BR	59	56	57	90	0	00	29.47	29.93															
04	CLR	NC			6.00	BR	53	52	52	96	0	00	29.49	29.96															
07	BKN	250			6.00	BR	58	55	56	90	3	23	29.54	30.01															
10	BKN	250			10.00		76	46	59	35	6	VR	29.55	30.01															
13	BKN	200			10.00		80	42	59	26	7	VR	29.51	29.98															
16	OVC	090			10.00		79	47	61	32	8	26	29.48	29.94															
19	OVC	120			10.00		74	50	60	43	3	26	29.48	29.95															
22	OVC	120			10.00		70	53	60	55	3	22	29.50	29.96															
				SUNRISE: 0501																									
01	OVC	120			10.00		66	54	59	65	0	00	29.47	29.93															
04	OVC	120			10.00		64	55	59	73	8	23	29.49	29.95															
07	OVC	120			10.00		66	55	60	68	6	24	29.54	30.00															
10	OVC	150			10.00		73	55	62	53	12	23	29.55	30.01															
13	BKN	150			10.00		74	58	64	57	7	24	29.52	29.98															
16	BKN	150			10.00		75	58	65	55	8	23	29.49	29.95															
19	BKN	250			10.00		71	57	63	61	5	15	29.47	29.93															
22	CLR	NC			9.00		63	59	61	87	0	00	29.50	29.96															

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.

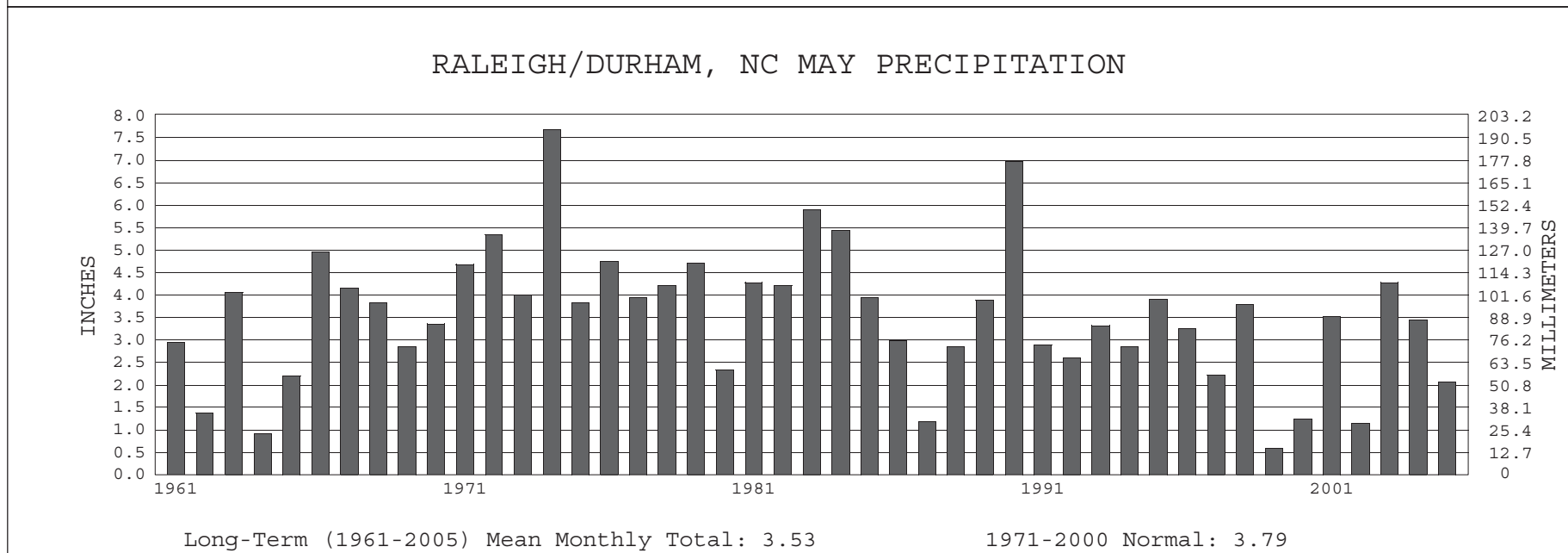
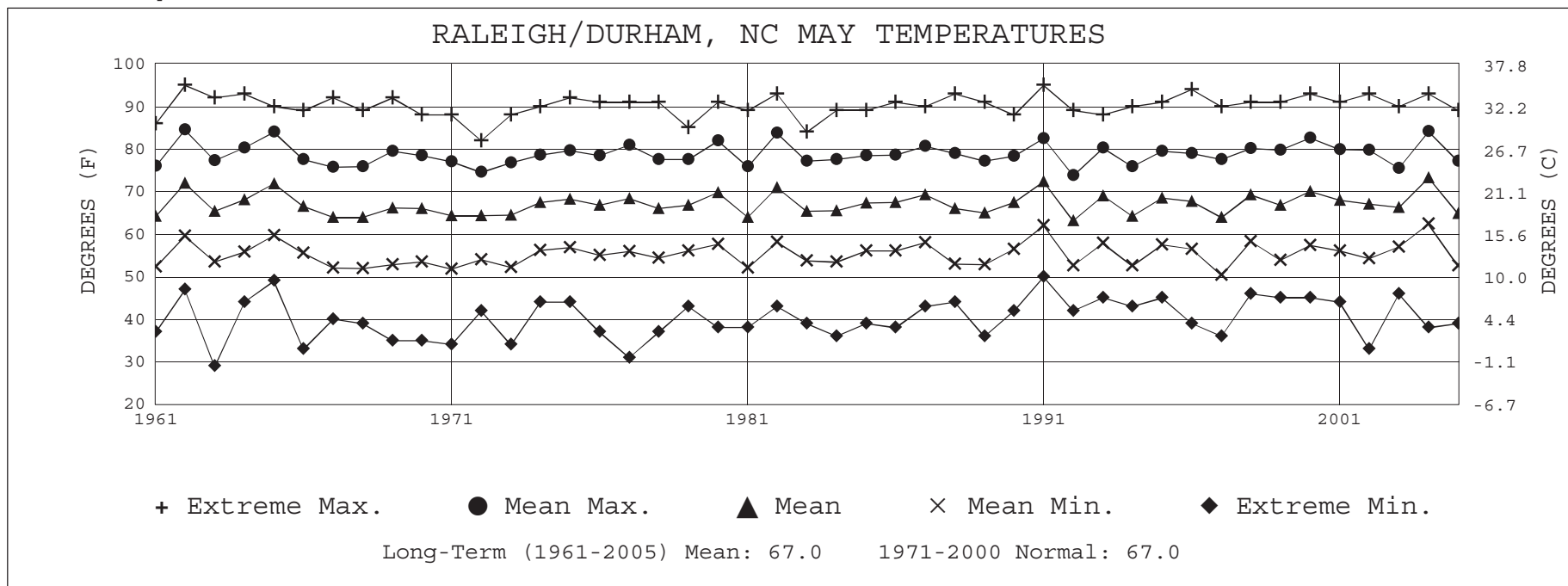
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			58	53	55	83	29.51	29.98	8.23	4	1	17
02			57	52	55	86	29.50	29.97	7.71	4	1	17
03			56	52	54	86	29.50	29.97	7.32	4	1	18
04			56	52	53	88	29.50	29.97	7.15	4	0	0
05			55	51	53	88	29.51	29.98	7.08	3	0	0
06			55	52	53	89	29.53	29.99	6.44	4	1	33
07			59	53	56	82	29.54	30.01	7.50	5	0	0
08			62	52	57	72	29.55	30.02	8.55	6	1	1
09			66	52	58	62	29.55	30.01	9.10	8	1	33
10			69	51	59	55	29.55	30.01	9.42	8	1	32
11			71	51	60	51	29.54	30.01	9.58	8	2	36
12			73	51	60	48	29.53	29.99	9.74	8	2	29
13			74	50	61	45	29.52	29.98	9.74	7	3	28
14			75	51	61	44	29.50	29.96	9.71	7	3	31
15			74	50	61	45	29.49	29.95	9.68	7	2	27
16			74	51	61	47	29.48	29.95	9.45	7	1	26
17			73	50	60	47	29.48	29.94	9.55	6	1	31
18			71	51	60	51	29.48	29.95	9.29	6	1	4
19			68	52	59	59	29.49	29.95	8.77	4	1	7
20			64	53	58	69	29.50	29.97	8.97	3	1	8
21			62	53	57	73	29.52	29.98	8.97	4	1	8
22			61	53	56	76	29.53	29.99	9.13	5	1	8
23			60	53	56	78	29.53	29.99	9.03	5	2	9
24			59	53	55	81	29.53	29.99	8.42	5	1	11





MAY 2005

RALEIGH/DURHAM, NC

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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