



JANUARY 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	65	27	46	6	25	37	19	0		0		0.0	0.00	29.88	30.36	0.6	35	1.7	10	35	8	02	01	
02	65	41	53	13	35	44	12	0	RA	0		0.0	T	29.75	30.22	7.3	22	7.7	16	23	15	23	02	
03	73	42	58	18	49	53	7	0	BR	0		0.0	0.00	29.65	30.12	8.2	22	8.7	20	22	16	21	03	
04	70	55	63	23	57	60	2	0	RA BR	0		0.0	T	29.55	30.02	13.2	23	13.2	29	22	26	22	04	
05	73*	52	63*	23	59	61	2	0	RA BR	0		0.0	0.27	29.44	29.90	12.2	23	14.2	35*	23	29*	23	05	
06	52	28	40	0	22	34	25	0		0		0.0	0.00	29.74	30.23	5.1	31	7.7	22	34	16	33	06	
07	36	21	29	-11	5	22	36	0		0		0.0	0.00	29.95	30.44	4.7	31	5.7	18	25	14	25	07	
08	40	22	31	-9	10	26	34	0		0		0.0	0.00	29.89	30.38	0.5	11	2.0	9	10	8	10	08	
09	35	30	33	-7	26	30	32	0	SN FG+ FZFG BR	0		3.0	0.20	29.70	30.18	5.7	05	6.4	21	04	17	04	09	
10	30	16	23	-17	15	22	42	0		2		0.0	0.00	29.85	30.35	7.5	03	8.5	22	04	17	04	10	
11	35	11*	23	-16	11	20	42	0		1		0.0	0.00	29.95	30.44	4.4	22	4.9	16	21	13	22	11	
12	59	29	44	5	28	36	21	0		0		0.0	0.00	29.68	30.16	9.0	23	9.1	21	23	18	23	12	
13	61	32	47	8	29	40	18	0		0		0.0	0.00	29.63	30.10	5.4	27	6.4	26	27	21	27	13	
14	49	29	39	0	28	35	26	0		0		0.0	0.00	29.53	30.01	3.7	16	6.2	17	20	14	18	14	
15	50	36	43	4	23	36	22	0		0		0.0	0.00	29.38	29.86	6.4	30	8.1	28	32	17	31	15	
16	41	27	34	-5	11	26	31	0		0		0.0	0.00	29.67	30.15	2.8	31	4.3	17	30	13	29	16	
17	51	22	37	-2	19	31	28	0	RA	0		0.0	0.06	29.65	30.13	4.1	19	4.7	16	21	14	23	17	
18	56	39	48	9	43	44	17	0	RA FG+ BR	0		0.0	0.28	29.15	29.62	4.2	25	6.0	23	28	20	23	18	
19	42	27	35	-4	18	29	30	0		0		0.0	0.00	29.39	29.87	2.3	34	4.8	20	32	14	33	19	
20	36	21	29	-11	10	22	36	0		0		0.0	0.00	29.67	30.16	2.8	33	3.6	18	34	13	35	20	
21	43	19	31	-9	14	25	34	0		0		0.0	0.00	29.72	30.21	2.1	23	2.9	15	24	12	23	21	
22	57	23	40	0	22	34	25	0		0		0.0	0.00	29.49	29.97	6.9	25	7.2	29	24	22	24	22	
23	43	28	36	-4	7	27	29	0		0		0.0	0.00	29.55	30.03	4.6	29	7.3	20	32	14	29	23	
24	60	28	44	4	23	36	21	0		0		0.0	0.00	29.43	29.91	4.9	26	10.2	24	04	20	04	24	
25	29	20	25	-15	15	20	40	0	RA FZRA SN PL FG+ FZFG BR	0		2.7	0.42	29.75	30.24	10.1	06	10.6	22	09	18	08	25	
26	25	19	22*	-18	21	21	43	0	RA FZRA FZDZ SN PL BR	2		T	T	29.62	30.11	6.4	02	7.5	20	01	13	01	26	
27	33	24	29	-11	28	28	36	0	FZDZ FG+ FZFG BR	2		0.0	T	29.39	29.87	2.8	30	5.8	17	28	12	28	27	
28	39	24	32	-8	15	26	33	0		2		0.0	0.00	29.55	30.04	7.5	28	8.2	24	26	17	28	28	
29	50	22	36	-4	18	30	29	0		0		0.0	0.00	29.54	30.02	5.8	26	7.1	24	32	17	30	29	
30	53	30	42	2	23	34	23	0		0		0.0	0.00	29.31	29.79	5.7	27	8.3	25	24	18	29	30	
31	39	21	30	-10	8	23	35	0		0		0.0	0.00	29.62	30.11	3.6	35	5.4	18	33	14	34	31	
48.1		27.9	38.0	■ ■	23.1	32.7	26.8	0.0	< MONTHLY AVERAGES	TOTALS->			5.7	1.23	29.62	30.10	2.7	27	6.9	<- MONTHLY AVERAGES				
-1.7		-1.7	-1.7	■ ■	<-----DEPARTURE FROM NORMAL----->							-2.79		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.42 DATE :25				GREATEST 24-HR SNOWFALL: 3.0 DATE :09				GREATEST SNOW DEPTH: 2 DATE :28+				SEA LEVEL PRESSURE DATE TIME			
MONTHLY TOTAL DEPARTURE									830 47				2037 -65				MAXIMUM MINIMUM : 30.54 11 0951				: 29.41 18 1451			
SEASON TO DATE TOTAL DEPARTURE									HEATING: 830 47				COOLING: 0 0				2037 -65				0 0			
									NUMBER OF DAYS WITH ➡		MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 25				PRECIPITATION ≥ 0.01 INCH : 5					
											MAXIMUM TEMP ≤ 32 : 3				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 4					
											THUNDERSTORMS : 0				HEAVY FOG : 4				SNOWFALL ≥ 1.0 INCH : 2					

JANUARY 2004
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

JANUARY 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		T		01												01	0.24	0.00	
02													02												02		T	
03													03												03		0.00	
04								T					04												04		T	
05											T		05		T	T	T	0.08	0.15	T	T	0.01			05		0.27	
06													06												06		0.00	
07													07												07		0.00	
08													08												08		0.00	
09							T	0.05	0.05	0.05	0.01	0.03	09	0.01	T	T	T	T							09		0.20	
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													15												15		0.00	
16													16												16		0.00	
17													17								T	0.01	0.03	0.02	17		0.06	
18	T	0.02	0.05	0.08	0.05	0.06	0.01	T	T	0.01	T		18												18		0.28	
19													19												19		0.00	
20													20												20		0.00	
21													21												21		0.00	
22													22												22		0.00	
23													23												23		0.00	
24										T	T	0.01	24												24		0.00	
25													25	0.02	0.05	0.03	0.05	0.04	0.02	0.04	0.01	0.10	0.03	0.01	0.01		25	0.42
26	T			T	T	T	T	T	T	T	T	T	26	T	T	T	T	T	T	T	T	T	T	T	26		T	
27													27												27		T	
28													28												28		0.00	
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)												
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
JANUARY 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							10.00	10.00	
03							6.00	10.00	
04							6.00	10.00	
05							2.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							.25	10.00	
10							8.00	10.00	
11							10.00	10.00	
12							9.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							6.00	10.00	
18							<.25	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							7.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							.25	10.00	
26							1.00	10.00	
27							.25	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							7.61	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

4 6 22

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JANUARY 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 OFFT	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 OFFT	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: 0725					JAN 01	SUNSET: 1712					SUNRISE: 0726					JAN 07	SUNSET: 1717												
01	CLR	NC			10.00	37	25	33	62	3	22	29.84	30.31	01	CLR	NC			10.00	28	5	22	37	7	32	29.90	30.39		
04	SCT	NC			10.00	31	25	29	79	0	00	29.85	30.32	04	CLR	NC			10.00	24	3	19	40	7	32	29.92	30.42		
07	SCT	NC			10.00	28	24	27	85	0	00	29.88	30.37	07	CLR	NC			10.00	21	4	17	47	3	30	29.96	30.45		
10	BKN	250			10.00	50	25	40	38	5	35	29.97	30.46	10	FEW	NC			10.00	26	2	20	35	9	33	30.02	30.51		
13	OVC	200			10.00	64	23	46	21	6	VR	29.89	30.38	13	FEW	NC			10.00	34	4	26	28	9	29	29.96	30.45		
16	OVC	200			10.00	64	22	46	20	3	VR	29.86	30.34	16															
19	BKN	250			10.00	48	29	40	48	0	00	29.87	30.36	19	OVC	150			10.00	31	6	24	35	0	00	29.95	30.44		
22	FEW	NC			10.00	43	29	37	58	0	00	29.87	30.36	22	BKN	250			10.00	27	10	22	49	3	23	29.94	30.43		
SUNRISE: 0725					JAN 02	SUNSET: 1713					SUNRISE: 0726					JAN 08	SUNSET: 1718												
01	OVC	100			10.00	47	30	40	52	6	18	29.83	30.30	01	BKN	250			10.00	24	16	22	71	0	00	29.93	30.42		
04	OVC	120			10.00	49	31	41	50	6	20	29.79	30.26	04	BKN	250			10.00	27	13	23	55	0	00	29.92	30.42		
07	BKN	120			10.00	49	32	42	52	8	22	29.76	30.23	07	BKN	250			10.00	23	13	20	65	0	00	29.93	30.43		
10	OVC	080			10.00	51	35	44	54	3	20	29.83	30.31	10	OVC	110			10.00	32	8	25	36	3	VR	29.97	30.46		
13	OVC	080			10.00	63	35	50	35	10	22	29.75	30.22	13	OVC	100			10.00	37	7	28	28	0	00	29.90	30.39		
16	OVC	100			10.00	62	38	50	41	9	21	29.69	30.16	16	OVC	095			10.00	38	3	28	23	0	00	29.85	30.34		
19	SCT	NC			10.00	51	37	45	59	9	22	29.70	30.18	19	OVC	070			10.00	37	9	28	31	3	02	29.85	30.33		
22	CLR	NC			10.00	50	38	44	63	7	22	29.71	30.18	22	OVC	060			10.00	36	11	28	35	5	07	29.82	30.31		
SUNRISE: 0726					JAN 03	SUNSET: 1714					SUNRISE: 0726					JAN 09	SUNSET: 1719												
01	CLR	NC			10.00	45	38	42	77	6	23	29.67	30.14	01	OVC	070			10.00	34	14	28	44	3	14	29.77	30.25		
04	FEW	NC			9.00	45	41	43	86	8	23	29.65	30.12	04	OVC	060			10.00	35	17	29	48	0	00	29.71	30.19		
07	FEW	NC			8.00	46	43	45	89	0	00	29.68	30.15	07	OVC	010			1.00	-SN	31	25	29	79	6	05	29.71	30.19	
10	SCT	NC			9.00	57	50	53	78	10	22	29.73	30.20	10	VV	004			0.75	-SN BR	30	29	30	96	6	10	29.70	30.18	
13	FEW	NC			10.00	67	52	58	59	7	VR	29.65	30.12	13	OVC	010			2.50	-SN BR	32	30	31	92	5	05	29.67	30.15	
16	FEW	NC			10.00	72	54	61	53	12	20	29.59	30.05	16	OVC	009			3.00	-SN BR	33	31	32	92	8	04	29.66	30.14	
19	CLR	NC			10.00	63	55	58	76	8	22	29.60	30.07	19	OVC	025			10.00	32	30	31	92	8	04	29.68	30.16		
22	CLR	NC			10.00	60	56	58	86	12	23	29.63	30.10	22	OVC	012			10.00	31	28	30	89	9	03	29.71	30.19		
SUNRISE: 0726					JAN 04	SUNSET: 1714					SUNRISE: 0726					JAN 10	SUNSET: 1720												
01	BKN	150			10.00	60	57	58	90	10	24	29.61	30.08	01	OVC	070			10.00	30	25	28	82	9	03	29.75	30.24		
04	CLR	NC			8.00	57	56	56	96	8	23	29.60	30.06	04	OVC	015			9.00	28	24	27	85	10	02	29.78	30.26		
07	BKN	150			10.00	61	57	59	87	13	23	29.58	30.05	07	BKN	110			10.00	24	17	22	75	14	05	29.81	30.30		
10	BKN	080			10.00	65	58	61	78	17	23	29.62	30.09	10	BKN	035			10.00	23	13	20	65	12	04	29.88	30.37		
13	OVC	090			10.00	68	58	62	70	16	22	29.54	30.01	13	FEW	NC			10.00	26	13	22	57	7	VR	29.86	30.36		
16	BKN	090			10.00	69	56	61	63	20	23	29.51	29.98	16	CLR	NC			10.00	27	12	23	53	10	03	29.85	30.35		
19	BKN	090			10.00	67	56	61	68	15	22	29.52	29.98	19	CLR	NC			10.00	23	12	20	63	5	03	29.88	30.38		
22	OVC	250			10.00	65	58	61	78	14	22	29.50	29.96	22	CLR	NC			10.00	20	7	17	57	3	04	29.93	30.43		
SUNRISE: 0726					JAN 05	SUNSET: 1715					SUNRISE: 0726					JAN 11	SUNSET: 1721												
01	BKN	250			10.00	63	59	61	87	13	22	29.47	29.93	01	CLR	NC			10.00	16	2	13	54	5	03	29.95	30.45		
04	BKN	250			10.00	63	60	61	90	13	21	29.45	29.92	04	CLR	NC			10.00	13	5	11	70	0	00	29.97	30.47		
07	OVC	020			10.00	63	60	61	90	14	21	29.44	29.90	07	CLR	NC			10.00	12	7	11	80	0	00	30.00	30.50		
10	OVC	020			10.00	68	61	64	78	22	23	29.45	29.91	10	CLR	NC			10.00	20	0	15	41	0	00	30.04	30.54		
13	OVC	030			10.00	71	60	64	68	22	23	29.38	29.84	13	CLR	NC			10.00	29	9	23	43	6	21	29.97	30.47		
16	OVC	031			10.00	69	62	65	78	17	22	29.37	29.83	16	CLR	NC			10.00	34	16	28	48	7	22	29.92	30.42		
19	OVC	019			8.00	63	61	62	93	12	23	29.43	29.89	19	CLR	NC			10.00	30	17	26	59	7	19	29.89	30.39		
22	OVC	034			10.00	60	57	58	90	7	VR	29.47	29.93	22	CLR	NC			10.00	30	19	26	64	12	21	29.85	30.34		
SUNRISE: 0726					JAN 06	SUNSET: 1716					SUNRISE: 0725					JAN 12	SUNSET: 1721												
01	BKN	048			10.00	50	38	44	63	5	VR	29.57	30.04	01	CLR	NC			10.00	30	20	27	66	13	23	29.78	30.27		
04	BKN	045			10.00	44	31	39	60	10	33	29.65	30.11	04	CLR	NC			10.00	29	23	27	78	7	24	29.73	30.21		
07	BKN	150			10.00	39	28	35	65	5	VR	29.71	30.19	07	FEW	NC			9.00	31	26	29	82	12	23	29.71	30.19		
10	BKN	250			10.00	40	25	34	55	9	32	29.80	30.27	10	BKN	200			10.00	40	28	35	63	13	23	29.71	30.20		
13	SCT	NC			10.00	44	22	36	41	7	VR	29.75	30.23	13	BKN	200			10.00	54	31	44	42	12	23	29.64	30.12		
16	BKN	250			10.00	46	20	36	35	8	29	29.72	30.19	16	BKN	200			10.00	59	31	46	35	9	24	29.60	30.08		
19	FEW	NC			10.00	40	16	32	38	7	31	29.80	30.27	19	CLR	NC			10.00	49	31	41	50	7	25	29.63	30.11		
22	CLR	NC			10.00	32	9	25	38	9	32	29.87	30.37	22	CLR	NC			10.00	47	31	40	54	0	00	29.67	30.14		

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JANUARY 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: 0725	JAN 13			SUNSET: 1722										SUNRISE: 0723	JAN 19									
01	CLR	NC			10.00		35	29	33	78	0	00	29.68	30.16	01	BKN	065			10.00		39	25	34	57	5	34	29.27	29.74
04	FEW	NC			10.00		44	31	39	60	5	VR	29.67	30.14	04	FEW	NC			10.00		33	22	29	64	0	00	29.31	29.79
07	BKN	180			10.00		35	30	33	82	3	23	29.67	30.15	07	BKN	110			10.00		32	21	28	64	0	00	29.35	29.83
10	BKN	250			10.00		47	32	41	56	8	27	29.71	30.19	10	BKN	200			10.00		34	21	29	59	7	VR	29.41	29.88
13	FEW	NC			10.00		59	29	46	32	13	26	29.59	30.06	13	BKN	200			10.00		38	18	31	44	3	VR	29.38	29.86
16	FEW	NC			10.00		60	26	45	27	12	28	29.55	30.02	16	FEW	NC			10.00		40	11	30	30	7	36	29.37	29.85
19	CLR	NC			10.00		50	27	40	41	6	25	29.57	30.05	19	CLR	NC			10.00		34	13	27	42	6	VR	29.44	29.92
22	CLR	NC			10.00		51	25	40	36	5	30	29.61	30.09	22	CLR	NC			10.00		30	12	25	47	5	VR	29.51	29.99
					SUNRISE: 0725	JAN 14			SUNSET: 1723										SUNRISE: 0723	JAN 20									
01	CLR	NC			10.00		42	27	36	55	5	01	29.64	30.11	01	CLR	NC			10.00		25	9	21	50	6	VR	29.58	30.07
04	CLR	NC			10.00		33	26	30	75	0	00	29.69	30.16	04	CLR	NC			10.00		22	10	19	60	3	34	29.62	30.10
07	CLR	NC			10.00		31	24	28	76	6	07	29.70	30.18	07	CLR	NC			10.00		22	9	18	57	0	00	29.66	30.15
10	CLR	NC			10.00		37	27	33	67	12	12	29.69	30.16	10	CLR	NC			10.00		27	9	22	47	3	VR	29.71	30.20
13	FEW	NC			10.00		45	28	38	52	8	19	29.59	30.06	13	SCT	NC			10.00		33	7	25	33	9	31	29.67	30.15
16	FEW	NC			10.00		48	30	40	50	9	19	29.47	29.94	16	BKN	250			10.00		36	8	27	31	6	33	29.66	30.15
19	FEW	NC			10.00		41	30	37	65	6	16	29.38	29.86	19	CLR	NC			10.00		30	11	24	45	0	00	29.69	30.18
22	CLR	NC			10.00		44	31	39	60	8	19	29.27	29.75	22	CLR	NC			10.00		25	14	22	63	0	00	29.73	30.22
					SUNRISE: 0725	JAN 15			SUNSET: 1724										SUNRISE: 0723	JAN 21									
01	OVC	150			10.00		44	32	39	63	9	24	29.20	29.67	01	CLR	NC			10.00		26	10	22	51	3	36	29.76	30.25
04	OVC	075			10.00		41	34	38	76	7	24	29.16	29.63	04	CLR	NC			10.00		21	12	19	68	0	00	29.79	30.27
07	SCT	NC			10.00		42	32	38	68	6	VR	29.25	29.73	07	FEW	NC			10.00		19	12	17	74	0	00	29.77	30.26
10	SCT	NC			10.00		47	24	38	41	12	32	29.41	29.88	10	SCT	NC			10.00		29	13	24	51	0	00	29.81	30.29
13	FEW	NC			10.00		47	22	37	37	10	31	29.42	29.90	13	BKN	200			10.00		38	16	30	41	9	22	29.73	30.21
16	FEW	NC			10.00		49	21	38	33	8	32	29.44	29.91	16	BKN	250			10.00		42	15	33	33	8	24	29.68	30.16
19	CLR	NC			10.00		43	14	33	31	7	32	29.51	29.98	19	OVC	070			10.00		37	18	30	46	5	24	29.67	30.15
22	CLR	NC			10.00		39	13	30	34	6	31	29.55	30.03	22	CLR	NC			10.00		31	19	27	61	0	00	29.64	30.13
					SUNRISE: 0724	JAN 16			SUNSET: 1725										SUNRISE: 0722	JAN 22									
01	CLR	NC			10.00		34	14	28	44	6	VR	29.59	30.07	01	CLR	NC			10.00		31	19	27	61	3	24	29.63	30.11
04	CLR	NC			10.00		32	8	25	36	6	34	29.61	30.09	04	CLR	NC			10.00		29	19	26	66	3	22	29.59	30.07
07	FEW	NC			10.00		29	7	23	39	3	VR	29.66	30.14	07	CLR	NC			9.00		24	19	22	81	0	00	29.56	30.05
10	BKN	250			10.00		33	6	25	32	10	32	29.71	30.19	10	CLR	NC			10.00		40	23	34	51	7	23	29.56	30.04
13	OVC	250			10.00		38	8	29	29	9	30	29.66	30.14	13	CLR	NC			10.00		53	26	42	35	7	25	29.46	29.94
16	SCT	NC			10.00		40	11	31	30	6	34	29.67	30.15	16	SCT	NC			10.00		54	23	41	30	14	27	29.38	29.85
19	CLR	NC			10.00		31	14	26	49	0	00	29.71	30.19	19	FEW	NC			10.00		44	25	37	47	9	24	29.39	29.87
22	CLR	NC			10.00		28	16	24	61	0	00	29.71	30.20	22	SCT	NC			10.00		47	23	38	39	10	27	29.40	29.88
					SUNRISE: 0724	JAN 17			SUNSET: 1726										SUNRISE: 0722	JAN 23									
01	CLR	NC			10.00		27	18	24	69	0	00	29.73	30.22	01	SCT	NC			10.00		41	16	32	36	8	31	29.44	29.92
04	CLR	NC			10.00		24	18	22	77	0	00	29.72	30.20	04	CLR	NC			10.00		35	-2	25	20	5	30	29.49	29.97
07	CLR	NC			10.00		24	21	23	88	0	00	29.75	30.23	07	FEW	NC			10.00		28	9	23	45	3	36	29.58	30.06
10	SCT	NC			10.00		36	6	27	28	0	00	29.76	30.24	10	CLR	NC			10.00		32	6	25	33	10	33	29.64	30.12
13	BKN	100			10.00		48	14	36	25	9	22	29.69	30.17	13	CLR	NC			10.00		39	6	29	25	10	29	29.61	30.09
16	OVC	100			10.00		49	20	38	32	13	23	29.61	30.09	16	FEW	NC			10.00		41	5	30	22	7	28	29.57	30.05
19	OVC	045			10.00		46	21	36	37	8	17	29.56	30.05	19	CLR	NC			10.00		34	11	27	38	0	00	29.54	30.02
22	OVC	037			9.00 -RA		42	32	38	68	9	20	29.52	30.00	22	BKN	250			10.00		36	12	28	37	5	20	29.50	29.98
					SUNRISE: 0724	JAN 18			SUNSET: 1727										SUNRISE: 0721	JAN 24									
01	OVC	020			6.00 -RA		40	32	37	73	6	20	29.44	29.91	01	BKN	110			10.00		39	15	31	38	13	23	29.43	29.91
04	OVC	015			2.50 RA BR		40	39	40	97	5	19	29.34	29.81	04	BKN	110			10.00		39	17	31	41	10	24	29.40	29.88
07	OVC	002			1.00 -RA BR		41	41	41	100	0	00	29.20	29.67	07	CLR	NC			10.00		32	18	27	56	6	23	29.38	29.86
10	VV	001			<.25 -RA FG		43	43	43	100	0	00	29.10	29.58	10	FEW	NC												

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

JANUARY 2004

RDU

WBAN # 13722

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
				DRY BULB	DEW POINT					WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL		
SUNRISE: 0721 JAN 25 SUNSET: 1734																	
01	CLR	NC						10.00		28	18	25	66	15	08	29.70	30.18
04	CLR	NC						10.00		26	13	22	57	13	06	29.74	30.22
07	BKN	090						10.00		25	8	20	48	13	06	29.77	30.25
10	OVC	025						3.00	-SN BR	23	8	19	53	15	04	29.86	30.36
13	VV	005						0.50	SN FZFG	20	17	19	89	8	07	29.82	30.31
16	OVC	029						1.50	PL BR	20	17	19	89	9	06	29.73	30.22
19	OVC	016						3.00	PL BR	20	19	20	96	10	05	29.67	30.16
22	OVC	014						3.00	PL BR	21	19	20	92	8	03	29.66	30.15
SUNRISE: 0720 JAN 26 SUNSET: 1735																	
01	OVC	013						3.00		20	17	19	89	9	03	29.64	30.14
04	OVC	011						5.00	-FZDZ BR	19	17	18	92	9	01	29.63	30.12
07	OVC	005						5.00	BR	19	18	19	96	7	02	29.65	30.14
10	OVC	005						2.50	BR	21	20	21	96	13	01	29.67	30.16
13	OVC	005						2.00	-SN BR	22	21	22	96	5	VR	29.64	30.13
16	OVC	004						1.00	BR	23	23	23	100	8	05	29.56	30.05
19	OVC	004						1.50	-FZRA BR	25	23	24	92	7	01	29.60	30.09
22	OVC	004						1.50	-FZDZ BR	24	23	24	96	7	36	29.61	30.09
SUNRISE: 0719 JAN 27 SUNSET: 1737																	
01	OVC	004						1.50	BR	25	23	24	92	7	35	29.55	30.03
04	OVC	002						0.75	BR	25	24	25	96	6	VR	29.48	29.97
07	OVC	004						0.50	FZDZ FZFG	25	25	25	100	3	01	29.46	29.95
10	OVC	003						0.75	-FZDZ BR	27	27	27	100	6	VR	29.43	29.92
13	OVC	004						0.75	BR	30	30	30	100	5	26	29.34	29.83
16	VV	002						0.25	FZFG	31	31	31	100	6	26	29.27	29.75
19	OVC	003						0.25	BR	32	32	32	100	9	24	29.31	29.80
22	CLR	NC						6.00	BR	32	31	32	96	7	26	29.35	29.83
SUNRISE: 0719 JAN 28 SUNSET: 1738																	
01	FEW	NC						10.00		29	24	27	82	5	27	29.39	29.88
04	CLR	NC						10.00		27	17	24	66	9	29	29.45	29.93
07	FEW	NC						10.00		25	15	22	66	6	29	29.50	29.98
10	FEW	NC						10.00		29	15	25	56	8	30	29.58	30.06
13	FEW	NC						10.00		34	13	27	42	12	28	29.57	30.05
16	CLR	NC						10.00		38	13	30	36	14	28	29.57	30.05
19	CLR	NC						10.00		34	14	28	44	6	25	29.64	30.13
22	CLR	NC						10.00		30	14	25	51	9	24	29.63	30.12
SUNRISE: 0718 JAN 29 SUNSET: 1739																	
01	CLR	NC						10.00		28	14	24	56	7	23	29.63	30.11
04	CLR	NC						10.00		24	15	21	68	7	24	29.58	30.07
07	CLR	NC						10.00		26	14	22	60	3	24	29.60	30.09
10	CLR	NC						10.00		39	15	31	38	9	30	29.61	30.09
13	FEW	NC						10.00		47	18	36	31	15	29	29.56	30.04
16	SCT	NC						10.00		50	20	38	31	8	26	29.50	29.98
19	SCT	NC						10.00		41	22	34	47	5	22	29.48	29.96
22	BKN	250						10.00		39	20	32	46	3	23	29.43	29.91
SUNRISE: 0717 JAN 30 SUNSET: 1740																	
01	BKN	250						10.00		33	22	29	64	7	22	29.39	29.87
04	OVC	200						10.00		37	21	31	52	10	24	29.33	29.80
07	OVC	120						10.00		35	22	30	59	6	24	29.33	29.81
10	BKN	200						10.00		42	23	35	47	8	28	29.32	29.80
13	BKN	200						10.00		50	28	41	43	14	28	29.24	29.72
16	BKN	250						10.00		52	27	41	38	12	28	29.20	29.68
19	SCT	NC						10.00		43	23	35	45	8	01	29.29	29.77
22	CLR	NC						10.00		33	16	27	49	7	01	29.35	29.83

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
								DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0717 JAN 31 SUNSET: 1741																	
01	CLR	NC						10.00		29	11	24	47	8	35	29.44	29.92
04	CLR	NC						10.00		26	9	21	48	7	VR	29.50	29.98
07	CLR	NC						10.00		22	-1	17	36	8	34	29.58	30.07
10	FEW	NC						10.00		25	-1	19	32	9	34	29.65	30.13
13	FEW	NC						10.00		33	6	25	32	6	02	29.63	30.11
16	FEW	NC						10.00		39	9	30	29	7	03	29.62	30.10
19	CLR	NC						10.00		31	11	25	43	3	02	29.69	30.17
22	CLR	NC						10.00		27	12	23	53	0	00	29.74	30.23

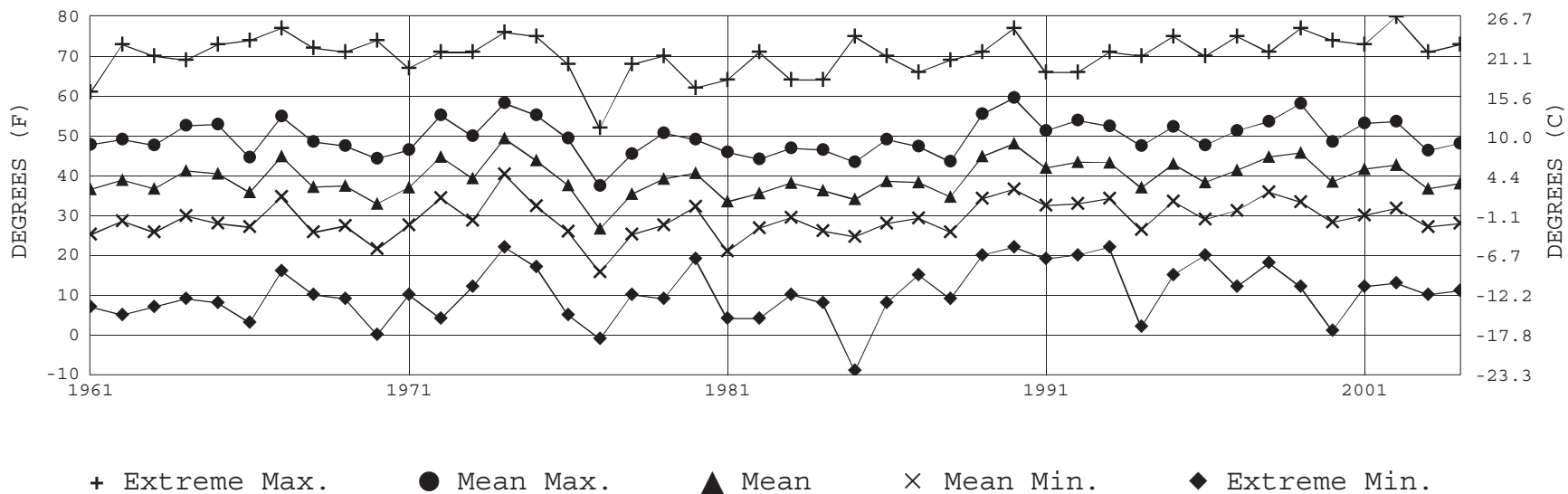
3-HOURLY OBSERVATION NOTES

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.
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

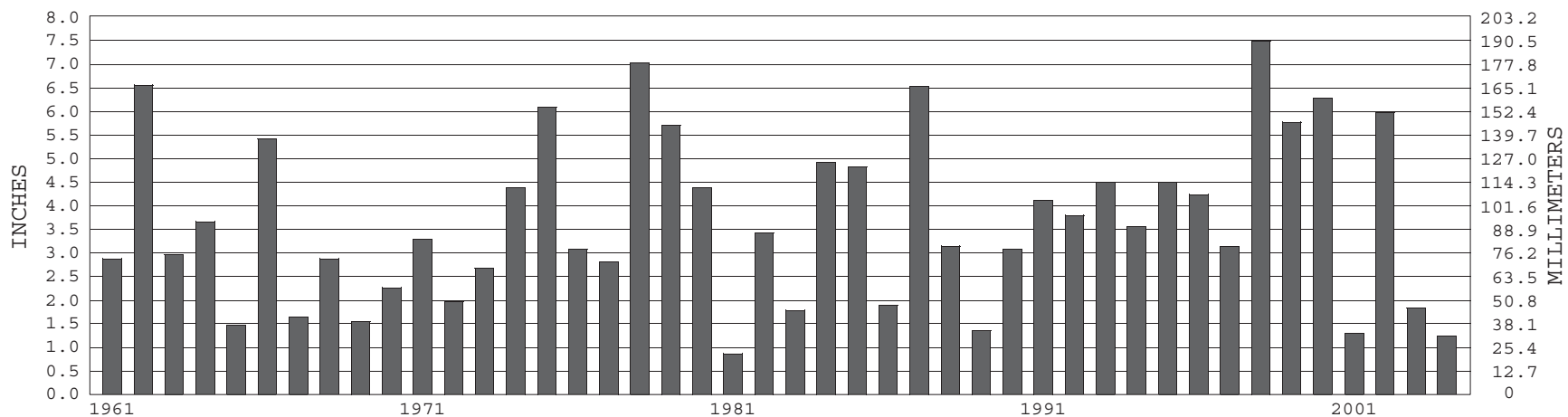
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)				VISIBILITY (MILES)	WIND SPEED (MPH)
							STATION	SEA LEVEL				
01			35	23	31	63	29.62	30.10	9.37	6	2	26
02			34	22	30	64	29.62	30.10	9.32	6	2	25
03			34	22	30	66	29.62	30.09	9.48	4	3	24
04			33	22	29	66	29.62	30.10	9.17	5	2	27
05			32	22	29	67	29.61	30.09	9.05	5	2	28
06			32	22	28	69	29.62	30.10	9.16	5	1	28
07			31	22	28	71	29.63	30.11	8.82	4	1	27
08			31	22	28	72	29.64	30.13	8.66	4	1	25
09			34	22	30	64	29.66	30.14	8.62	6	2	27
10			37	22	32	56	29.67	30.15	8.58	8	3	29
11			40	22	34	53	29.66	30.14	8.56	9	4	28
12			42	23	35	50	29.64	30.12	8.54	9	5	27
13			44	24	36	48	29.61	30.09	8.61	8	6	26
14			46	24	37	47	29.59	30.07	8.56	9	6	26
15			46	24	38	47	29.58	30.06	9.07	10	6	27
16			47	25	38	47	29.56	30.04	8.86	9	5	26
17			45	24	37	49	29.58	30.06	8.76	8	4	26
18			42	25	36	54	29.58	30.07	9.11	6	3	24
19			40	25	35	57	29.60	30.08	9.12	6	2	25
20			39	24	34	58	29.60	30.08	9.28	6	2	26
21			38	24	33	60	29.61	30.09	9.17	6	2	27
22			37	24	33	60	29.61	30.09	9.34	5	2	26
23			36	23	32	62	29.62	30.10	9.31	5	1	26
24			35	23	31	64	29.61	30.10	9.34	6	2	26

RALEIGH/DURHAM, NC JANUARY TEMPERATURES



Long-Term (1961-2004) Mean: 39.4 1971-2000 Normal: 39.7

RALEIGH/DURHAM, NC JANUARY PRECIPITATION



Long-Term (1961-2004) Mean Monthly Total: 3.69

1971-2000 Normal: 4.02



JANUARY 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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