



DECEMBER 2003

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

RALEIGH/DURHAM, NC

RALEIGH-DURHAM INTL ARPT (RDU)

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

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

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE				
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM									
																			5-SEC 2-MIN									
																			SPEED	DIR	SPEED	DIR						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
01	67*	35	51	4	23	39	14	0	RA RA SN PL BR RA DZ BR	0		0.0	0.00	29.65	30.13	6.0	28	7.4	26	30	18	31	01					
02	51	31	41	-6	14	32	24	0		0		0.0	0.00	29.89	30.38	3.6	31	4.9	17	29	13	31	02					
03	39	27	33	-13	18	29	32	0		0		0.0	T	30.06	30.55	4.3	05	4.7	18	09	15	07	03					
04	37	32	35	-11	28	32	30	0		0		T	0.84	29.87	30.35	5.6	05	6.9	18	10	14	05	04					
05	38	34	36	-9	35	36	29	0		0		0.0	0.02	29.49	29.97	2.6	33	4.9	18	36	10	35	05					
06	47	33	40	-5	30	36	25	0	RA BR	0		0.0	T	29.52	30.00	6.0	32	7.2	23	34	16	35	06					
07	48	24	36	-9	23	31	29	0		0		0.0	0.00	29.61	30.09	3.2	30	4.1	21	30	16	30	07					
08	51	24	38	-6	25	32	27	0		0		0.0	0.00	29.71	30.19	1.2	18	1.9	12	23	9	23	08					
09	59	27	43	-1	32	38	22	0		0		0.0	0.00	29.71	30.20	3.0	17	3.9	16	13	13	13	09					
10	62	42	52	8	46	48	13	0	RA BR	0		0.0	1.13	29.33	29.80	6.0	14	9.1	26	13	22	23	10					
11	56	34	45	1	35	42	20	0		0		0.0	0.00	29.25	29.72	9.3	27	9.7	28	31	18	27	11					
12	51	28	40	-4	27	34	25	0	HZ	0		0.0	0.00	29.66	30.14	1.2	32	2.5	14	01	10	36	12					
13	42	30	36	-7	26	32	29	0	RA BR	0		0.0	0.12	29.82	30.31	9.3	05	9.7	23	06	17	04	13					
14	36	30	33*	-10	32	33	32	0	RA FG BR	0		0.0	0.86	29.43	29.91	3.9	36	7.0	20	03	17	05	14					
15	53	31	42	-1	31	36	23	0		0		0.0	0.00	29.62	30.10	4.7	27	5.2	21	28	16	28	15					
16	56	29	43	0	33	39	22	0	RA BR	0		0.0	T	29.69	30.17	3.3	20	3.8	17	23	15	23	16					
17	56	30	43	1	39	43	22	0	RA BR	0		0.0	0.38	29.32	29.79	5.4	27	8.6	24	21	18	21	17					
18	48	27	38	-4	26	33	27	0		0		0.0	0.00	29.40	29.88	3.3	24	4.0	14	23	13	23	18					
19	42	32	37	-5	25	33	28	0	SN	0		T	T	29.40	29.88	3.1	29	4.2	22	28	16	30	19					
20	41	28	35	-7	17	28	30	0		0		0.0	0.00	29.67	30.16	6.7	30	7.8	23	32	17	28	20					
21	48	19*	34	-8	17	28	31	0		0		0.0	0.00	29.94	30.43	5.3	23	5.7	17	22	15	23	21					
22	60	30	45	3	21	35	20	0		0		0.0	0.00	29.82	30.30	10.1	23	10.2	21	24	17	23	22					
23	66	36	51	10	40	47	14	0	RA BR	0		0.0	0.01	29.63	30.10	7.9	20	8.7	22	20	20	21	23					
24	65	38	52*	11	46	50	13	0	RA BR	0		0.0	0.15	29.37	29.84	5.4	23	9.7	30*	22	23*	23	24					
25	45	28	37	-4	20	30	28	0		0		0.0	0.00	29.65	30.13	2.8	30	4.6	17	27	13	27	25					
26	50	23	37	-4	21	30	28	0		0		0.0	0.00	29.81	30.30	2.2	30	3.3	18	27	14	28	26					
27	61	24	43	2	24	33	22	0		0		0.0	0.00	29.80	30.29	0.2	06	.9	7	14	6	36	27					
28	59	25	42	1	27	35	23	0		0		0.0	0.00	29.87	30.35	0.5	10	.7	9	14	7	26	28					
29	65	30	48	7	37	43	17	0		0		0.0	0.00	29.73	30.21	5.5	21	6.0	20	22	16	23	29					
30	58	36	47	7	34	45	18	0	RA BR	0		0.0	0.01	29.67	30.14	6.0	27	9.2	25	21	21	23	30					
31	60	26	43	3	23	35	22	0		0		0.0	0.00	29.88	30.36	2.4	23	3.4	15	23	13	23	31					
52.2		29.8	41.0	■ ■	28.2	36.0	23.8	0.0	< MONTHLY AVERAGES	TOTALS->			T	3.52	29.65	30.13	2.0	27	5.8	<- MONTHLY AVERAGES								
-1.1		-2.8	-2.0	■ ■	<-----DEPARTURE FROM NORMAL----->						0.48		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.13 DATE :10					SEA LEVEL PRESSURE DATE TIME														
MONTHLY									GREATEST 24-HR SNOWFALL: T DATE :19+					MAXIMUM														
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :					MINIMUM														
HEATING: 739 60 1207 -112									NUMBER OF DAYS WITH →					MAXIMUM TEMP ≥ 90: 0					PRECIPITATION ≥ 0.01 INCH : 9									
COOLING: 0 -2 1467 -54														MAXIMUM TEMP ≤ 32 : 0					PRECIPITATION ≥ 0.10 INCH : 6									
														THUNDERSTORMS : 0					HEAVY FOG : 0					SNOWFALL ≥ 1.0 INCH : 0				

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

DECEMBER 2003

RDU

WBAN # 13722

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.	
01													01												01			0.00	
02													02												02			0.00	
03													03						T						03			T	
04													04	T	0.03	0.01	0.01	0.01	0.03	0.02	0.13	0.15	0.20	0.15	0.07	04			0.84
05	0.01	T	T	0.01	T	T	0.01	0.01	0.01	T	T	T	05												05			0.02	
06		T	T										06												06			T	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10								0.01	0.03	0.01	T		10	T	0.01	0.05	0.16	0.23	0.23	0.13	0.01	0.23	0.03		10			1.13	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.12	
14	0.12	0.25	0.10	0.06	0.11	0.09	0.01	0.01	0.01	0.01	T	0.01	14	0.01	0.05	T	0.01	0.01	T		T	T	0.04	0.04	0.04	14			0.86
15													15												15			0.00	
16													16												16			T	
17		0.08	0.07	0.05		0.01				T	0.17	T	17	T											17			0.38	
18													18												18			0.00	
19													19	T	T	T									19			T	
20													20												20			0.00	
21													21												21			0.00	
22													22												22			0.00	
23													23							T	T	0.01			23			0.01	
24	T	T	T	T	0.01	T	0.14	T	T				24												24			0.15	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30						T	0.01	T					30												30			0.01	
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)	.09	.12	.13	.13	.18	.22	.26	.34	.40	.49	.59	.66
Ending Date	24	24	24	24	10	14	14	10	10	10	10	10
Ending Time (Hour/Min)	0604	0604	0607	0607	2047	0142	0154	1722	1750	1722	1750	1822

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
DECEMBER 2003**

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

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

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

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

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

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							2.00	10.00	
05							.50	10.00	
06							2.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							1.25	10.00	
11							10.00	10.00	
12							6.00	10.00	
13							5.00	10.00	
14							.50	10.00	
15							7.00	10.00	
16							5.00	10.00	
17							1.00	10.00	
18							10.00	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							5.00	10.00	
24							1.75	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							7.44	10.00	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p align="center">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">0 6 21</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

DECEMBER 2003

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		
			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	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)			DRY BULB	DEW POINT	WET BULB
			SUNRISE: 0707			DEC 01	SUNSET: 1702									SUNRISE: 0712			DEC 07	SUNSET: 1701								
01	CLR	NC			10.00	40	26	35	58	7	24	29.60	30.07	01	CLR	NC				10.00	30	25	28	82	3	26	29.60	30.08
04	CLR	NC			10.00	38	26	33	62	3	24	29.60	30.07	04	CLR	NC				10.00	30	24	28	79	3	27	29.60	30.07
07	SCT	NC			10.00	37	25	33	62	0	00	29.61	30.09	07	CLR	NC				10.00	26	23	25	88	0	00	29.62	30.10
10	SCT	NC			10.00	56	31	45	39	10	24	29.63	30.10	10	FEW	NC				10.00	39	22	33	50	10	33	29.64	30.11
13	SCT	NC			10.00	65	30	49	27	10	28	29.59	30.06	13	FEW	NC				10.00	45	21	36	39	9	30	29.59	30.06
16	BKN	200			10.00	61	21	44	21	13	29	29.62	30.09	16	FEW	NC				10.00	47	22	37	37	8	29	29.57	30.05
19	CLR	NC			10.00	55	14	40	20	12	30	29.70	30.18	19	CLR	NC				10.00	37	23	32	57	0	00	29.62	30.10
22	CLR	NC			10.00	47	16	36	29	7	VR	29.82	30.29	22	CLR	NC				10.00	30	25	28	82	3	30	29.66	30.14
			SUNRISE: 0708			DEC 02	SUNSET: 1702									SUNRISE: 0713			DEC 08	SUNSET: 1701								
01	CLR	NC			10.00	41	14	32	33	5	30	29.85	30.34	01	FEW	NC				10.00	28	24	27	85	0	00	29.67	30.15
04	CLR	NC			10.00	35	14	28	42	5	26	29.86	30.35	04	FEW	NC				10.00	25	23	24	92	0	00	29.68	30.16
07	CLR	NC			10.00	32	16	27	52	5	28	29.90	30.39	07	FEW	NC				10.00	24	23	24	96	0	00	29.73	30.22
10	CLR	NC			10.00	43	13	33	29	6	VR	29.93	30.42	10	SCT	NC				10.00	39	25	34	57	8	13	29.77	30.25
13	FEW	NC			10.00	49	12	36	23	8	34	29.87	30.36	13	BKN	250				10.00	47	24	38	41	3	VR	29.71	30.19
16	FEW	NC			10.00	50	11	36	21	7	VR	29.85	30.33	16	BKN	250				10.00	50	23	39	35	5	27	29.68	30.16
19	CLR	NC			10.00	37	18	30	46	0	00	29.88	30.37	19	FEW	NC				10.00	38	26	33	62	0	00	29.71	30.20
22	FEW	NC			10.00	37	15	30	41	0	00	29.93	30.42	22	FEW	NC				10.00	36	26	32	67	0	00	29.73	30.21
			SUNRISE: 0708			DEC 03	SUNSET: 1701									SUNRISE: 0713			DEC 09	SUNSET: 1701								
01	CLR	NC			10.00	33	16	28	49	8	06	29.96	30.45	01	FEW	NC				10.00	33	25	30	72	0	00	29.72	30.20
04	BKN	150			10.00	30	19	26	64	0	00	30.02	30.51	04	FEW	NC				10.00	30	26	29	85	0	00	29.73	30.21
07	BKN	150			10.00	31	18	27	59	0	00	30.06	30.55	07	FEW	NC				10.00	30	25	28	82	0	00	29.75	30.24
10	OVC	150			10.00	35	17	29	48	10	07	30.12	30.61	10	BKN	250				10.00	43	33	39	68	0	00	29.78	30.26
13	OVC	150			10.00	39	18	32	43	5	06	30.09	30.58	13	SCT	NC				10.00	57	37	48	47	7	23	29.71	30.19
16	OVC	070			10.00	38	18	31	44	8	05	30.04	30.53	16	OVC	200				10.00	56	35	46	46	7	19	29.69	30.17
19	OVC	130			10.00	37	18	30	46	0	00	30.04	30.53	19	OVC	150				10.00	49	35	43	59	5	15	29.70	30.18
22	OVC	130			10.00	34	21	29	59	3	03	30.05	30.54	22	OVC	250				10.00	44	37	41	76	6	12	29.67	30.15
			SUNRISE: 0709			DEC 04	SUNSET: 1701									SUNRISE: 0714			DEC 10	SUNSET: 1702								
01	OVC	100			10.00	35	21	30	57	8	06	30.02	30.51	01	OVC	250				10.00	43	34	39	71	6	14	29.66	30.13
04	OVC	075			10.00	35	18	29	50	7	10	30.00	30.49	04	BKN	060				10.00	43	31	38	63	7	12	29.60	30.07
07	OVC	043			10.00	32	29	31	88	0	00	29.97	30.47	07	OVC	050				10.00	45	33	40	63	9	11	29.55	30.03
10	OVC	026			10.00	33	29	32	85	5	01	29.97	30.46	10	OVC	025				10.00	45	43	44	93	8	09	29.48	29.96
13	OVC	050			10.00	36	31	34	82	8	07	29.86	30.36	13	OVC	004				10.00	50	49	49	96	8	11	29.32	29.80
16	OVC	015			10.00	35	31	33	85	10	06	29.80	30.28	16	OVC	016				10.00	57	56	56	96	10	13	29.17	29.65
19	OVC	006			6.00	36	32	34	86	9	06	29.74	30.22	19	OVC	017				10.00	61	60	60	97	12	16	29.07	29.53
22	OVC	005			6.00	36	32	34	86	7	04	29.67	30.15	22	OVC	036				10.00	55	52	53	90	9	24	29.01	29.47
			SUNRISE: 0710			DEC 05	SUNSET: 1701									SUNRISE: 0715			DEC 11	SUNSET: 1702								
01	OVC	003			4.00	36	35	36	97	8	02	29.59	30.07	01	OVC	025				10.00	50	48	49	93	12	24	28.98	29.44
04	OVC	003			4.00	34	33	34	97	7	VR	29.54	30.02	04	OVC	015				10.00	50	45	47	83	8	27	29.05	29.51
07	OVC	003			3.00	34	34	34	100	6	36	29.52	30.00	07	FEW	NC				10.00	45	34	40	66	8	27	29.12	29.59
10	OVC	004			10.00	36	34	35	93	8	34	29.52	30.00	10	FEW	NC				10.00	47	32	40	56	10	28	29.20	29.67
13	OVC	005			3.00	37	36	37	96	5	31	29.47	29.95	13	FEW	NC				10.00	52	33	43	49	13	27	29.23	29.70
16	OVC	005			3.00	37	36	37	96	3	36	29.43	29.91	16	FEW	NC				10.00	53	33	44	47	9	27	29.33	29.80
19	OVC	005			3.00	36	36	36	100	3	29	29.45	29.93	19	CLR	NC				10.00	45	30	39	56	7	29	29.43	29.90
22	OVC	003			1.00	36	36	36	100	0	00	29.45	29.93	22	CLR	NC				10.00	40	28	35	63	5	30	29.50	29.97
			SUNRISE: 0711			DEC 06	SUNSET: 1701									SUNRISE: 0716			DEC 12	SUNSET: 1702								
01	OVC	004			2.00	36	35	36	97	5	32	29.43	29.91	01	CLR	NC				10.00	36	27	33	70	6	VR	29.52	29.99
04	OVC	007			10.00	36	35	36	97	7	33	29.45	29.93	04	CLR	NC				10.00	31	27	29	85	3	28	29.57	30.05
07	BKN	012			10.00	36	33	35	89	5	30	29.47	29.95	07	CLR	NC				10.00	29	26	28	89	3	29	29.63	30.11
10	SCT	NC			10.00	42	36	39	79	7	30	29.52	30.00	10	SCT	NC				10.00	42	25	35	51	6	VR	29.68	30.16
13	BKN	035			10.00	44	32	39	63	9	33	29.50	29.97	13	BKN	250				10.00	49	25	39	39	3	VR	29.66	30.13
16	SCT	NC			10.00	46	25</																					

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

DECEMBER 2003

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
			SUNRISE: 0716			DEC 13	SUNSET: 1702									SUNRISE: 0720			DEC 19	SUNSET: 1704									
01	FEW	NC			10.00		33	27	31	78	3	01	29.78	30.26	01	OVC	080			10.00		38	30	35	73	0	00	29.34	29.82
04	CLR	NC			10.00		34	24	30	67	5	02	29.81	30.29	04	OVC	100			10.00		37	31	35	79	3	27	29.31	29.79
07	BKN	250			10.00		31	27	29	85	6	03	29.86	30.35	07	OVC	080			10.00		38	30	35	73	3	VR	29.34	29.82
10	BKN	250			10.00		36	24	32	62	13	05	29.94	30.43	10	OVC	060			10.00		40	27	35	60	7	29	29.42	29.90
13	OVC	200			10.00		40	24	34	53	9	05	29.85	30.35	13	OVC	065			10.00	-SN	39	18	32	43	8	31	29.39	29.87
16	OVC	200			10.00		40	25	34	55	9	05	29.84	30.32	16	SCT	NC			10.00		41	18	33	39	12	30	29.41	29.89
19	OVC	050			10.00		39	23	33	53	13	06	29.81	30.29	19	BKN	095			10.00		33	22	29	64	3	24	29.45	29.93
22	OVC	031			7.00	RA	34	30	32	85	13	05	29.75	30.23	22	OVC	090			10.00		34	23	30	64	0	00	29.47	29.95
			SUNRISE: 0717			DEC 14	SUNSET: 1702										SUNRISE: 0721			DEC 20	SUNSET: 1705								
01	OVC	008			3.00	RA BR	33	32	33	96	13	06	29.64	30.12	01	OVC	075			10.00		33	25	30	72	6	26	29.47	29.95
04	OVC	007			10.00	-RA	33	28	31	82	8	02	29.56	30.04	04	OVC	075			10.00		34	18	29	52	8	29	29.50	29.97
07	OVC	007			10.00	-RA	34	32	33	92	8	35	29.51	29.99	07	BKN	070			10.00		31	19	27	61	6	29	29.56	30.04
10	OVC	004			10.00		35	32	34	89	8	04	29.39	29.87	10	FEW	NC			10.00		36	19	30	50	12	30	29.66	30.14
13	OVC	002			0.50	RA FG	35	32	34	89	6	32	29.36	29.84	13	BKN	060			10.00		40	15	31	36	12	35	29.65	30.13
16	OVC	006			6.00	-RA BR	35	32	34	89	3	VR	29.33	29.81	16	BKN	065			10.00		38	14	30	37	10	29	29.72	30.20
19	OVC	010			8.00		35	32	34	89	5	29	29.35	29.83	19	CLR	NC			10.00		33	13	27	43	7	29	29.81	30.29
22	CLR	NC			4.00	BR	31	31	31	100	6	24	29.37	29.85	22	CLR	NC			10.00		30	15	25	54	3	VR	29.87	30.36
			SUNRISE: 0718			DEC 15	SUNSET: 1703										SUNRISE: 0721			DEC 21	SUNSET: 1705								
01	CLR	NC			7.00		33	32	33	96	7	27	29.38	29.86	01	CLR	NC			10.00		27	16	24	63	3	29	29.90	30.39
04	CLR	NC			10.00		34	32	33	92	8	25	29.46	29.95	04	CLR	NC			10.00		23	17	21	78	0	00	29.93	30.42
07	CLR	NC			10.00		33	31	32	92	5	27	29.55	30.03	07	CLR	NC			10.00		21	17	20	85	0	00	29.98	30.47
10	CLR	NC			10.00		42	32	38	68	9	28	29.65	30.13	10	FEW	NC			10.00		33	20	29	59	0	00	30.03	30.53
13	CLR	NC			10.00		49	31	41	50	10	27	29.68	30.16	13	FEW	NC			10.00		44	14	34	30	13	22	29.95	30.44
16	FEW	NC			10.00		52	30	42	43	5	VR	29.68	30.16	16	FEW	NC			10.00		47	14	35	26	9	24	29.91	30.40
19	CLR	NC			10.00		39	32	36	76	0	00	29.71	30.19	19	CLR	NC			10.00		37	16	30	42	5	21	29.90	30.40
22	CLR	NC			10.00		34	31	33	89	0	00	29.74	30.22	22	CLR	NC			10.00		33	18	28	54	8	23	29.88	30.38
			SUNRISE: 0718			DEC 16	SUNSET: 1703										SUNRISE: 0722			DEC 22	SUNSET: 1706								
01	CLR	NC			10.00		30	30	30	100	0	00	29.75	30.23	01	CLR	NC			10.00		34	19	29	54	12	23	29.87	30.36
04	CLR	NC			10.00		31	30	31	96	0	00	29.75	30.23	04	CLR	NC			10.00		33	19	28	56	12	22	29.87	30.36
07	CLR	NC			5.00	BR	32	31	32	96	0	00	29.78	30.26	07	CLR	NC			10.00		32	20	28	61	10	23	29.86	30.35
10	OVC	250			10.00		48	32	41	54	5	21	29.79	30.27	10	SCT	NC			10.00		43	22	35	43	13	23	29.88	30.37
13	OVC	033			10.00		53	32	44	45	8	21	29.72	30.20	13	SCT	NC			10.00		55	24	42	30	12	22	29.80	30.27
16	OVC	250			10.00		55	31	44	40	7	20	29.67	30.14	16	BKN	250			10.00		58	18	42	21	12	24	29.76	30.24
19	BKN	250			10.00		50	32	42	50	3	17	29.62	30.10	19	SCT	NC			10.00		48	20	37	33	6	20	29.79	30.27
22	OVC	070			10.00		49	34	42	57	0	00	29.54	30.01	22	CLR	NC			10.00		45	22	36	40	8	22	29.77	30.25
			SUNRISE: 0719			DEC 17	SUNSET: 1703										SUNRISE: 0722			DEC 23	SUNSET: 1706								
01	OVC	050			9.00		50	47	48	89	3	VR	29.42	29.89	01	BKN	250			10.00		41	21	34	45	6	23	29.75	30.22
04	OVC	007			7.00		54	54	54	99	14	19	29.32	29.79	04	BKN	250			10.00		41	20	33	43	7	21	29.72	30.19
07	OVC	015			5.00	BR	55	55	55	99	12	21	29.25	29.72	07	BKN	250			10.00		38	28	34	68	8	21	29.71	30.19
10	OVC	008			9.00	-RA	53	51	52	93	9	31	29.22	29.70	10	SCT	NC			10.00		52	38	45	59	9	21	29.72	30.19
13	OVC	017			10.00		46	43	45	89	9	31	29.20	29.67	13	SCT	NC			10.00		64	46	54	52	16	20	29.62	30.10
16	SCT	NC			10.00		46	24	37	42	12	32	29.25	29.72	16	OVC	065			10.00		64	48	55	56	9	20	29.58	30.05
19	CLR	NC			10.00		39	22	33	50	9	29	29.39	29.86	19	OVC	032			10.00	-RA	59	54	56	83	12	16	29.55	30.02
22	CLR	NC			10.00		36	22	31	57	7	29	29.44	29.92	22	OVC	005			7.00		58	57	57	97	10	17	29.50	29.97
			SUNRISE: 0720			DEC 18	SUNSET: 1704										SUNRISE: 0723			DEC 24	SUNSET: 1707								
01	CLR	NC			10.00		28	24	27	85	6	24	29.44	29.92	01	OVC	009			10.00	-RA	58	57	57	97	9	18	29.42	29.89
04	OVC	100			10.00		32	24	29	73	0	00	29.44	29.92	04	OVC	009			10.00		57	56	56	96	8	18	29.36	29.83
07	BKN	110			10.00		31	24	28	76	3	27	29.46	29.94	07	OVC	003			10.00		58	57	57	97	9	17	29.29	29.76
10	BKN	100			10.00		38	21	32	51	7	30	29.47	29.95	10	OVC	011			10.00		58	56	57	93	14	22	29.32	29.79
13	BKN	070			10.00		46	26	38	46	8	23	29.36	29.84	13	BKN	070			10.00		64	50	56</					

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

DECEMBER 2003

RDU

WBAN # 13722

HOUR (LST)	SKY COVER		CEILING 100'S OFF	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OFF	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>	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	DRY BULB	DEW POINT									WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			
				SUNRISE: 0723		DEC 25				SUNSET: 1707																								
01	BKN	070						10.00		37	22	32	54	5	VR	29.50	29.97	01	CLR	NC				10.00		38	20	32	48	0	00	29.85	30.34	
04	BKN	065						10.00		35	21	30	57	9	33	29.53	30.01	04	CLR	NC				10.00		30	23	28	75	0	00	29.88	30.36	
07	CLR	NC						10.00		31	19	27	61	0	00	29.60	30.08	07	CLR	NC				10.00		28	22	26	78	0	00	29.91	30.40	
10	CLR	NC						10.00		38	19	31	47	8	31	29.69	30.17	10	FEW	NC				10.00		44	25	37	47	0	00	29.97	30.45	
13	SCT	NC						10.00		43	19	34	38	8	29	29.65	30.13	13	FEW	NC				10.00		56	25	43	30	7	VR	29.87	30.36	
16	FEW	NC						10.00		43	18	34	37	8	29	29.67	30.15	16	FEW	NC				10.00		58	24	44	27	9	23	29.84	30.32	
19	CLR	NC						10.00		33	23	29	67	5	24	29.70	30.19	19	CLR	NC				10.00		45	25	37	46	0	00	29.85	30.33	
22	CLR	NC						10.00		29	22	27	75	0	00	29.75	30.23	22	CLR	NC				10.00		39	24	33	55	0	00	29.88	30.37	
				SUNRISE: 0724		DEC 26				SUNSET: 1708																								
01	CLR	NC						10.00		30	21	27	69	0	00	29.78	30.26																	
04	CLR	NC						10.00		26	23	25	88	0	00	29.82	30.30																	
07	CLR	NC						10.00		25	19	23	78	0	00	29.84	30.33																	
10	FEW	NC						10.00		37	20	31	50	9	31	29.87	30.36																	
13	CLR	NC						10.00		47	18	36	31	10	32	29.80	30.28																	
16	CLR	NC						10.00		49	21	38	33	6	VR	29.79	30.27																	
19	CLR	NC						10.00		38	21	32	51	0	00	29.80	30.28																	
22	CLR	NC						10.00		31	21	28	67	3	32	29.81	30.29																	
				SUNRISE: 0724		DEC 27				SUNSET: 1708																								
01	CLR	NC						10.00		28	22	26	78	3	07	29.79	30.27																	
04	CLR	NC						10.00		26	22	25	84	3	23	29.80	30.28																	
07	CLR	NC						10.00		25	22	24	88	0	00	29.81	30.29																	
10	CLR	NC						10.00		42	23	35	47	0	00	29.84	30.33																	
13	FEW	NC						10.00		57	22	43	26	3	VR	29.79	30.27																	
16	CLR	NC						10.00		61	20	44	20	0	00	29.79	30.26																	
19	CLR	NC						10.00		44	27	37	51	0	00	29.81	30.29																	
22	CLR	NC						10.00		34	26	31	73	0	00	29.83	30.30																	
				SUNRISE: 0724		DEC 28				SUNSET: 1709																								
01	CLR	NC						10.00		31	25	29	79	0	00	29.82	30.30																	
04	CLR	NC						10.00		28	23	26	81	0	00	29.85	30.33																	
07	CLR	NC						10.00		26	25	26	96	0	00	29.89	30.38																	
10	CLR	NC						10.00		44	31	39	60	0	00	29.93	30.42																	
13	CLR	NC						10.00		55	24	42	30	5	08	29.86	30.35																	
16	FEW	NC						10.00		58	25	44	28	0	00	29.85	30.33																	
19	CLR	NC						10.00		42	30	37	62	3	11	29.86	30.35																	
22	CLR	NC						10.00		36	29	33	76	0	00	29.85	30.33																	
				SUNRISE: 0725		DEC 29				SUNSET: 1710																								
01	SCT	NC						10.00		33	29	32	85	0	00	29.82	30.29																	
04	BKN	250						10.00		32	28	31	85	0	00	29.80	30.27																	
07	BKN	250						10.00		33	29	32	85	3	12	29.80	30.28																	
10	SCT	NC						10.00		48	38	43	68	6	22	29.82	30.30																	
13	SCT	NC						10.00		62	39	51	43	12	22	29.72	30.19																	
16	BKN	250						10.00		64	42	53	45	14	23	29.66	30.14																	
19	FEW	NC						10.00		55	45	50	69	8	17	29.66	30.14																	
22	BKN	060						10.00		53	45	49	74	7	20	29.64	30.11																	
				SUNRISE: 0725		DEC 30				SUNSET: 1711																								
01	OVC	070						10.00		56	50	53	81	12	21	29.56	30.03																	
04	BKN	250						10.00		57	52	54	83	17	21	29.48	29.94																	
07	OVC	025						10.00		56	54	55	93	14	23	29.51	29.98																	
10	BKN	100						10.00		54	39	47	57	9	30	29.67	30.14																	
13	FEW	NC						10.00		56	22	42	27	12	31	29.66	30.13																	
16	FEW	NC						10.00		55	21	41	27	10	33	29.71	30.18																	
19	CLR	NC						10.00		47	20	37	34	5	31	29.79	30.26																	
22	FEW	NC						10.00		43	20	35	40	3	34	29.86	30.35																	

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			37	28	34	74	29.64	30.12	9.19	5	1	24
02			36	28	33	74	29.64	30.12	8.97	4	1	23
03			36	28	33	76	29.65	30.12	8.90	4	2	23
04		</										

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.

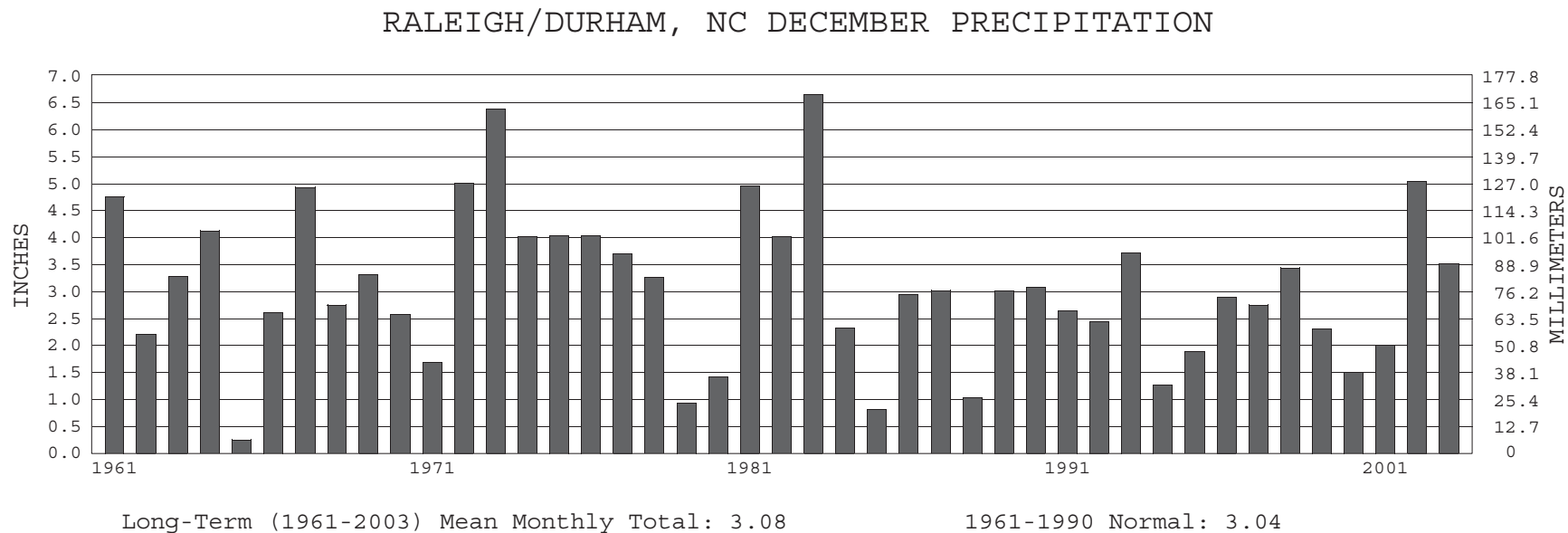
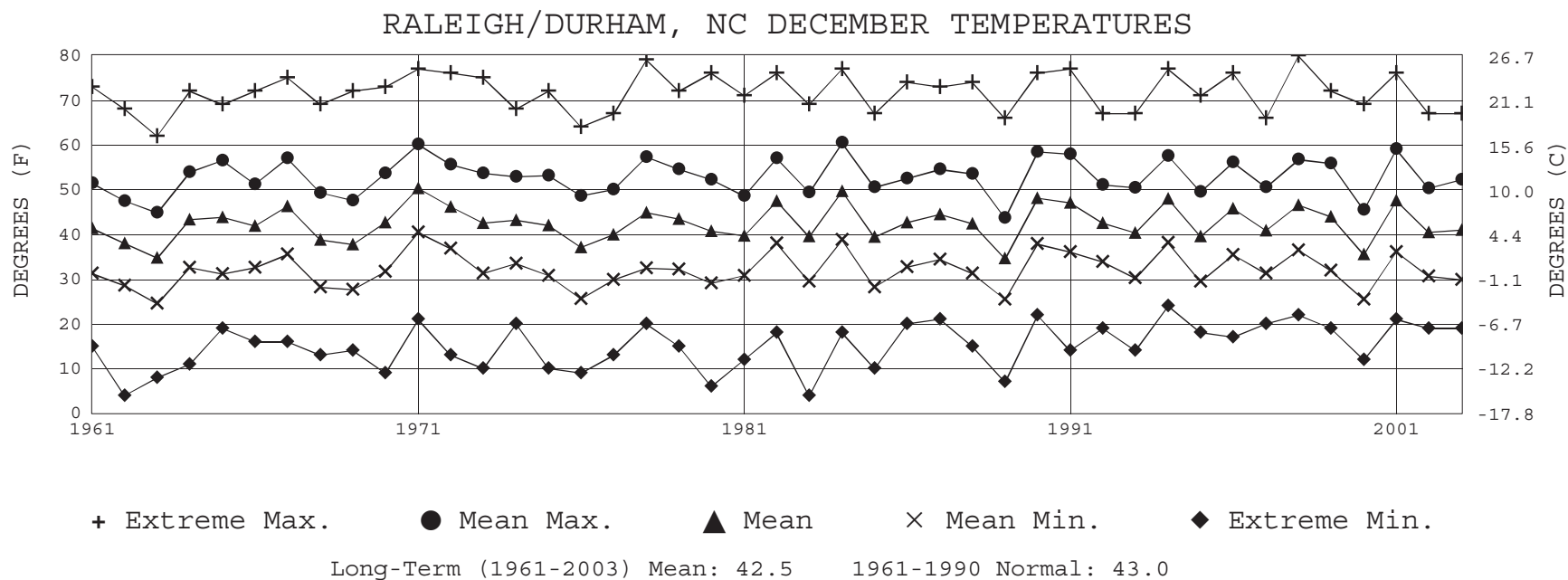
NC= No ceiling detected.

& = 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			37	28	34	74	29.64	30.12	9.19	5	1	24
02			36	28	33	74	29.64	30.12	8.97	4	1	23
03			36	28	33	76	29.65	30.12	8.90	4	2	23
04			35	28	33	76	29.64	30.12	9.71	5	2	24
05			35	28	32	77	29.64	30.12	9.35	4	2	24
06			34	28	32	79	29.65	30.13	9.13	4	2	26
07			34	28	32	81	29.66	30.14	9.45	4	2	25
08			34	29	32	81	29.68	30.16	9.32	4	2	27
09			38	30	35	73	29.69	30.17	9.39	5	2	26
10			43	29	37	61	29.69	30.18	9.74	7	3	29
11			45	29	39	55	29.69	30.17	9.45	7	3	28
12			48	28	40	50	29.66	30.14	9.32	9	4	29
13			49	28	41	48	29.64	30.12	9.18	8	4	28
14			50	28	41	46	29.62	30.10	8.94	9	5	26
15			50	27	41	45	29.62	30.10	9.50	8	4	27
16			50	27	40	45	29.63	30.11	9.42	7	4	28
17			48	27	39	48	29.63	30.11	9.32	5	1	24
18			45	28	38	54	29.65	30.13	9.34	5	1	24
19			43	28	37	59	29.65	30.13	9.55	5	1	24
20			41	28	36	62	29.66	30.14	9.27	4	1	22
21			40	28	35	66	29.66	30.14	9.03	4	2	27
22			38	28	35	69	29.67	30.15	9.19	4	1	27
23			38	28	34	71	29.66	30.14	9.03	4	1	24
24			37	28	34	73	29.66	30.14	9.16	4	2	25





DECEMBER 2003

RALEIGH/DURHAM, NC

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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

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