



DECEMBER 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	63	38	51	4	41	48	14	0	RA BR	0		0.0	0.04	29.53	29.99	8.2	24	11.6	36*	21	28*	22	01						
02	60	29	45	-2	27	37	20	0		0		0.0	0.00	29.62	30.10	2.3	22	3.8	15	21	13	21	02						
03	57	33	45	-1	28	37	20	0		0		0.0	0.00	29.55	30.02	2.6	28	3.3	17	27	14	27	03						
04	59	29	44	-2	29	37	21	0		0		0.0	0.00	29.62	30.10	0.5	29	2.6	14	24	9	25	04						
05	65	30	48	3	31	40	17	0		0		0.0	0.00	29.73	30.21	0.8	21	1.2	9	23	8	24	05						
06	57	45	51	6	44	48	14	0	RA BR	0		0.0	0.05	29.71	30.18	3.9	22	4.4	18	22	16	23	06						
07	73	53	63*	18	59	61	2	0	FG+ BR	0		0.0	0.00	29.48	29.95	12.3	22	12.5	33	22	25	22	07						
08	71	46	59	15	44	52	6	0		0		0.0	0.00	29.61	30.07	2.7	28	3.7	20	23	17	23	08						
09	55	42	49	5	46	48	16	0	RA FG+ BR	0		0.0	0.17	29.51	29.98	1.6	04	3.0	24	30	17	30	09						
10	74*	50	62	18	54	57	3	0	TSRA RA FG+ BR	0		0.0	0.96	29.12	29.58	6.8	23	8.7	33	22	25	23	10						
11	54	42	48	4	40	45	17	0	RA	0		0.0	T	29.16	29.62	8.4	25	8.6	22	27	17	26	11						
12	56	36	46	2	31	40	19	0		0		0.0	0.00	29.38	29.85	9.3	24	10.2	23	22	18	22	12						
13	58	37	48	5	27	39	17	0		0		0.0	0.00	29.39	29.86	8.4	27	10.2	29	27	22	30	13						
14	43	29	36	-7	16	29	29	0		0		0.0	0.00	29.75	30.23	5.3	32	7.4	21	34	15	33	14						
15	39	23	31	-12	12	25	34	0		0		0.0	0.00	30.01	30.50	2.0	01	3.3	21	04	16	03	15						
16	51	20	36	-7	19	29	29	0		0		0.0	0.00	29.98	30.47	5.5	22	5.5	16	22	15	22	16						
17	58	27	43	1	21	33	22	0		0		0.0	0.00	29.80	30.28	2.1	23	2.9	14	29	12	22	17						
18	56	29	43	1	26	34	22	0		0		0.0	0.00	29.59	30.07	0.8	33	1.6	9	01	8	02	18						
19	49	27	38	-4	28	33	27	0	RA SN BR	0		T	0.02	29.33	29.81	4.2	31	4.8	26	34	18	32	19						
20	28	13*	21*	-21	-4	15	44	0		0		0.0	0.00	29.66	30.15	6.8	30	9.2	30	31	20	31	20						
21	56	22	39	-3	11	30	26	0		0		0.0	0.00	29.75	30.23	10.6	22	10.9	30	23	22	23	21						
22	66	28	47	5	35	43	18	0		0		0.0	0.00	29.75	30.23	6.0	16	6.9	24	18	21	18	22						
23	68	37	53	12	50	53	12	0	RA BR	0		0.0	0.23	29.43	29.90	6.6	19	12.4	35	21	25	20	23						
24	37	31	34	-7	21	30	31	0		0		0.0	0.00	29.69	30.17	5.9	03	7.1	18	02	15	03	24						
25	35	28	32	-9	15	26	33	0		0		0.0	0.00	29.74	30.22	8.6	03	8.7	18	04	16	05	25						
26	38	25	32	-9	13	25	33	0	SN PL BR	0		T	0.01	29.64	30.13	6.8	02	7.3	20	36	15	02	26						
27	40	21	31	-10	13	26	34	0		0		0.0	0.00	30.00	30.49	1.9	34	4.7	17	01	14	02	27						
28	43	20	32	-9	12	25	33	0		0		0.0	0.00	30.10	30.60	3.5	20	5.5	16	23	13	22	28						
29	59	28	44	3	26	36	21	0		0		0.0	0.00	29.90	30.38	7.8	23	8.0	17	24	14	22	29						
30	62	44	53	13	37	45	12	0		0		0.0	0.00	29.94	30.41	3.0	13	4.2	14	11	12	11	30						
31	65	37	51	11	40	46	14	0	BR	0		0.0	0.00	29.94	30.42	5.0	22	5.8	21	23	16	21	31						
54.7 32.2 43.5 ■■										< MONTHLY AVERAGES TOTALS->			T	1.48	29.66	30.14	2.7	25	6.5	<- MONTHLY AVERAGES									
1.4 -.4 0.5 ■■										<-----DEPARTURE FROM NORMAL----->										-1.56					SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3				
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.13 DATE :09-10				SEA LEVEL PRESSURE DATE TIME																
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: T DATE :26+				MAXIMUM : 30.70 28 0951																
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.47 10 1451																
HEATING: 660 -19 1141 -178									NUMBER OF DAYS WITH ➔				MAXIMUM TEMP ≥ 90: 0				PRECIPITATION ≥ 0.01 INCH : 7												
COOLING: 0 -2 1747 226													MAXIMUM TEMP ≤ 32 : 1				PRECIPITATION ≥ 0.10 INCH : 3												
													THUNDERSTORMS : 1				HEAVY FOG : 3				SNOWFALL ≥ 1.0 INCH : 0								

DECEMBER 2004
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

DECEMBER 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	T	0.01	0.02		0.01			01													01			0.04																					
02					0.00																																													
03					0.00																																													
04					0.00																																													
05					0.00																																													
06								T		T																				T			06																06	0.05
07								0.00																																										
08								0.00																																										
09								0.00																																										
10								0.17																																										
11								0.96																																										
12								T		0.00																																								
13								0.00																																										
14								0.00																																										
15								0.00																																										
16								0.00																																										
17								0.00																																										
18								0.00																																										
19								0.02																																										
20								0.00																																										
21								0.00																																										
22								0.00																																										
23								0.23																																										
24								0.00																																										
25								0.00																																										
26								0.01																																										
27								0.00																																										
28								0.00																																										
29								0.00																																										
30								0.00																																										
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)	.27	.32	.42	.49	.53	.70	.86	.90	.91	.92	.93	.96
Ending Date	10	10	10	10	10	10	10	10	10	10	10	10
Ending Time (Hour/Min)	0543	0542	0543	0544	0548	0543	0548	0603	0603	0603	0548	0603

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 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							4.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							8.00	10.00	
05							9.00	10.00	
06							1.50	10.00	
07							.06	10.00	
08							9.00	10.00	
09							.06	10.00	
10							.06	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							9.00	10.00	
19							6.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							1.50	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							3.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							7.89	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
 3 5 23

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

DECEMBER 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: 0707			DEC 01	SUNSET: 1702									SUNRISE: 0712			DEC 07	SUNSET: 1701									
01	OVC	150			10.00	-RA BR	56	48	52	75	14	17	29.54	30.01	01	OVC	029			1.50	BR	54	53	53	97	0	00	29.63	30.10
04	OVC	045			10.00		59	53	56	81	16	19	29.44	29.90	04	OVC	004			0.50	BR	54	53	53	97	0	00	29.58	30.05
07	OVC	020			5.00		61	58	59	90	20	21	29.34	29.81	07	OVC	001			0.06	FG	57	57	57	100	10	21	29.54	30.01
10	BKN	040			10.00		56	48	52	75	14	28	29.46	29.93	10	OVC	008			3.00	BR	62	60	61	93	13	22	29.57	30.04
13	FEW	NC			10.00		60	29	46	31	10	33	29.51	29.98	13	BKN	100			10.00		72	62	66	71	17	21	29.46	29.93
16	FEW	NC			10.00		58	31	46	36	12	29	29.56	30.03	16	OVC	030			10.00		70	61	64	73	22	22	29.40	29.87
19	CLR	NC			10.00		48	31	41	52	3	30	29.64	30.11	19	BKN	070			10.00		70	61	64	73	18	22	29.38	29.84
22	CLR	NC			10.00		39	31	36	73	0	00	29.68	30.16	22	BKN	035			10.00		69	62	65	78	20	22	29.39	29.86
			SUNRISE: 0708			DEC 02	SUNSET: 1701									SUNRISE: 0713			DEC 08	SUNSET: 1701									
01	CLR	NC			10.00		38	29	34	70	5	29	29.69	30.16	01	FEW	NC			10.00		66	62	64	87	9	24	29.43	29.89
04	CLR	NC			10.00		32	29	31	88	0	00	29.69	30.17	04	SCT	NC			10.00		64	58	60	81	5	31	29.50	29.97
07	FEW	NC			10.00		32	26	30	79	0	00	29.70	30.18	07	CLR	NC			10.00		56	46	51	70	3	27	29.59	30.06
10	FEW	NC			10.00		47	25	38	42	3	VR	29.72	30.20	10	FEW	NC			10.00		63	41	52	45	8	32	29.66	30.12
13	FEW	NC			10.00		58	24	44	27	5	21	29.64	30.11	13	BKN	250			10.00		68	37	53	32	0	00	29.62	30.08
16	FEW	NC			10.00		57	24	43	28	10	21	29.56	30.04	16	OVC	250			10.00		67	33	51	29	3	28	29.63	30.09
19	CLR	NC			10.00		46	29	39	51	0	00	29.54	30.02	19	SCT	NC			10.00		53	38	46	57	5	06	29.67	30.14
22	CLR	NC			10.00		42	29	37	60	6	24	29.52	29.99	22	CLR	NC			10.00		49	40	45	71	0	00	29.69	30.16
			SUNRISE: 0709			DEC 03	SUNSET: 1701									SUNRISE: 0714			DEC 09	SUNSET: 1702									
01	CLR	NC			10.00		37	30	34	76	3	26	29.48	29.95	01	BKN	200			10.00		46	40	43	79	0	00	29.67	30.14
04	CLR	NC			10.00		35	29	33	78	0	00	29.49	29.96	04	FEW	NC			10.00		43	40	42	89	0	00	29.63	30.10
07	CLR	NC			10.00		34	27	31	76	3	26	29.53	30.01	07	SCT	NC			10.00		50	41	46	71	6	12	29.60	30.07
10	CLR	NC			10.00		48	29	40	48	8	26	29.58	30.05	10	OVC	008			10.00	-RA	52	45	48	77	5	35	29.58	30.05
13	SCT	NC			10.00		55	25	42	31	8	30	29.55	30.02	13	OVC	003			2.00	-RA BR	49	48	48	97	7	02	29.52	30.00
16	SCT	NC			10.00		56	27	43	33	7	27	29.54	30.01	16	OVC	002			0.25	FG	52	51	52	97	3	35	29.47	29.94
19	CLR	NC			10.00		43	29	37	58	0	00	29.57	30.05	19	OVC	002			0.06	FG	51	51	51	100	6	33	29.36	29.84
22	CLR	NC			10.00		38	29	34	70	0	00	29.60	30.07	22	OVC	002			0.06	FG	50	49	49	96	3	02	29.36	29.83
			SUNRISE: 0710			DEC 04	SUNSET: 1701									SUNRISE: 0715			DEC 10	SUNSET: 1702									
01	CLR	NC			10.00		34	30	32	85	3	05	29.60	30.07	01	VV	001			0.06	FG	53	52	52	96	6	14	29.27	29.74
04	FEW	NC			10.00		31	29	30	92	3	22	29.60	30.08	04	OVC	001			0.06	FG	53	53	53	100	0	00	29.19	29.66
07	FEW	NC			9.00		30	28	29	92	0	00	29.63	30.11	07	BKN	060			10.00		59	58	58	96	8	16	29.18	29.64
10	FEW	NC			10.00		46	32	40	58	0	00	29.67	30.15	10	OVC	030			10.00		66	64	65	93	12	21	29.13	29.60
13	FEW	NC			10.00		57	26	44	30	5	27	29.60	30.08	13	SCT	NC			10.00		71	59	64	66	14	23	29.04	29.50
16	FEW	NC			10.00		57	29	45	34	9	24	29.59	30.06	16	SCT	NC			10.00		67	50	57	55	15	27	29.04	29.49
19	CLR	NC			10.00		46	32	40	58	0	00	29.62	30.10	19	OVC	080			10.00		61	45	53	56	7	26	29.07	29.52
22	CLR	NC			10.00		42	32	38	68	0	00	29.66	30.14	22	BKN	060			10.00		54	47	50	77	0	00	29.09	29.55
			SUNRISE: 0711			DEC 05	SUNSET: 1701									SUNRISE: 0716			DEC 11	SUNSET: 1702									
01	CLR	NC			10.00		35	31	33	85	0	00	29.66	30.13	01	FEW	NC			10.00		51	46	49	83	3	25	29.06	29.52
04	CLR	NC			10.00		35	30	33	82	3	22	29.67	30.15	04	BKN	042			10.00		49	46	47	90	6	23	29.06	29.52
07	FEW	NC			9.00		31	29	30	92	0	00	29.74	30.22	07	BKN	040			10.00		48	45	47	89	12	24	29.08	29.54
10	BKN	250			10.00		46	38	42	73	0	00	29.78	30.26	10	OVC	020			10.00		49	42	46	77	10	26	29.13	29.61
13	FEW	NC			10.00		61	26	46	26	6	19	29.74	30.21	13	BKN	060			10.00		54	40	47	59	13	26	29.13	29.60
16	BKN	250			10.00		63	29	48	28	6	22	29.72	30.19	16	BKN	080			10.00		52	38	45	59	13	25	29.16	29.63
19	OVC	200			10.00		50	32	42	50	0	00	29.76	30.24	19	CLR	NC			10.00		48	34	42	58	6	28	29.22	29.69
22	OVC	140			10.00		46	33	40	61	0	00	29.76	30.24	22	SCT	NC			10.00		43	33	39	68	6	26	29.29	29.76
			SUNRISE: 0712			DEC 06	SUNSET: 1701									SUNRISE: 0716			DEC 12	SUNSET: 1702									
01	OVC	140			10.00	-RA	46	37	42	71	3	15	29.75	30.22	01	FEW	NC			10.00		43	31	38	63	9	28	29.32	29.79
04	OVC	085			10.00		47	41	44	80	0	00	29.74	30.22	04	CLR	NC			10.00		38	30	35	73	5	24	29.36	29.83
07	OVC	060			10.00		48	43	46	83	5	25	29.75	30.22	07	CLR	NC			10.00		36	29	33	76	6	26	29.41	29.89
10	OVC	050			10.00		52	42	47	69	0	00	29.77	30.24	10	SCT	NC			10.00		45	29	38	54	9	30	29.47	29.94
13	OVC	030			10.00		56	42	49	60	12	22	29.70	30.17	13	SCT	NC			10.00		53	30	43	41	10	24	29.40	29.87
16																													

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

DECEMBER 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: 0717					DEC 13	SUNSET: 1702					SUNRISE: 0721					DEC 19	SUNSET: 1705												
01	OVC	130			10.00	48	36	43	63	10	23	29.31	29.78	01	FEW	NC			10.00	31	25	29	79	0	00	29.44	29.92		
04	BKN	200			10.00	45	36	41	71	9	23	29.28	29.75	04	FEW	NC			10.00	29	26	28	89	0	00	29.39	29.87		
07	FEW	NC			10.00	42	36	39	79	9	24	29.29	29.76	07	BKN	150			10.00	31	28	30	89	0	00	29.35	29.83		
10	CLR	NC			10.00	52	36	45	55	8	26	29.34	29.81	10	OVC	110			9.00	39	31	36	73	0	00	29.35	29.83		
13	FEW	NC			10.00	58	23	43	26	16	28	29.32	29.79	13	BKN	110			10.00	45	33	40	63	9	33	29.28	29.75		
16	FEW	NC			10.00	54	16	39	22	15	28	29.37	29.85	16	OVC	055		-RA	10.00	40	37	39	89	0	00	29.25	29.73		
19	CLR	NC			10.00	46	17	35	31	13	31	29.50	29.98	19	BKN	100		BR	6.00	35	34	35	96	5	25	29.26	29.74		
22	FEW	NC			10.00	38	20	32	48	5	25	29.60	30.07	22	OVC	042			10.00	31	10	25	42	13	33	29.35	29.83		
SUNRISE: 0718					DEC 14	SUNSET: 1703					SUNRISE: 0721					DEC 20	SUNSET: 1705												
01	FEW	NC			10.00	36	19	30	50	7	28	29.62	30.09	01	OVC	075			10.00	24	2	19	38	12	29	29.40	29.88		
04	CLR	NC			10.00	33	16	27	49	6	VR	29.67	30.14	04	BKN	090			10.00	16	-6	12	37	17	32	29.51	29.99		
07	CLR	NC			10.00	31	18	27	59	7	30	29.70	30.18	07	CLR	NC			10.00	13	-7	9	40	14	31	29.62	30.11		
10	FEW	NC			10.00	37	16	30	42	8	32	29.75	30.23	10	CLR	NC			10.00	17	-8	12	32	8	30	29.71	30.20		
13	SCT	NC			10.00	41	17	33	38	12	01	29.73	30.21	13	CLR	NC			10.00	24	-6	18	26	7	VR	29.68	30.17		
16	OVC	060			10.00	39	17	31	41	10	30	29.75	30.23	16	CLR	NC			10.00	27	-8	19	21	8	29	29.69	30.18		
19	BKN	060			10.00	36	16	29	44	8	33	29.82	30.30	19	CLR	NC			10.00	22	0	17	38	5	25	29.73	30.22		
22	FEW	NC			10.00	31	12	25	45	6	VR	29.88	30.37	22	CLR	NC			10.00	22	1	17	40	6	19	29.79	30.28		
SUNRISE: 0718					DEC 15	SUNSET: 1703					SUNRISE: 0722					DEC 21	SUNSET: 1705												
01	CLR	NC			10.00	29	11	24	47	3	VR	29.91	30.40	01	CLR	NC			10.00	24	-2	18	32	8	20	29.78	30.27		
04	CLR	NC			10.00	27	13	23	55	3	VR	29.94	30.43	04	CLR	NC			10.00	24	2	19	38	7	23	29.76	30.24		
07	CLR	NC			10.00	26	12	22	55	0	00	29.99	30.49	07	CLR	NC			10.00	26	5	20	40	10	22	29.75	30.24		
10	CLR	NC			10.00	31	11	25	43	12	02	30.07	30.57	10	FEW	NC			10.00	36	9	28	32	15	23	29.77	30.26		
13	CLR	NC			10.00	37	11	29	34	9	02	30.02	30.52	13	FEW	NC			10.00	51	14	38	23	17	23	29.71	30.19		
16	CLR	NC			10.00	38	10	29	31	7	31	30.00	30.50	16	FEW	NC			10.00	55	18	41	23	13	22	29.69	30.16		
19	CLR	NC			10.00	29	13	24	51	0	00	30.03	30.53	19	CLR	NC			10.00	47	16	36	29	10	21	29.75	30.23		
22	CLR	NC			10.00	25	15	22	66	0	00	30.03	30.53	22	CLR	NC			10.00	42	17	33	36	6	21	29.80	30.27		
SUNRISE: 0719					DEC 16	SUNSET: 1703					SUNRISE: 0722					DEC 22	SUNSET: 1706												
01	CLR	NC			10.00	22	16	20	78	0	00	30.02	30.52	01	CLR	NC			10.00	40	16	32	38	3	19	29.80	30.28		
04	CLR	NC			10.00	21	16	20	81	0	00	30.03	30.53	04	CLR	NC			10.00	32	20	28	61	3	13	29.81	30.29		
07	CLR	NC			10.00	20	17	19	89	0	00	30.06	30.55	07	CLR	NC			10.00	31	20	27	64	0	00	29.81	30.29		
10	FEW	NC			10.00	36	22	31	57	7	22	30.06	30.56	10	CLR	NC			10.00	47	26	39	44	5	17	29.83	30.31		
13	SCT	NC			10.00	50	20	38	31	9	22	29.99	30.48	13	SCT	NC			10.00	64	43	53	46	13	20	29.75	30.22		
16	FEW	NC			10.00	50	18	38	28	12	23	29.94	30.43	16	BKN	065			10.00	62	45	53	54	13	18	29.72	30.19		
19	CLR	NC			10.00	39	18	32	43	6	21	29.91	30.40	19	BKN	250			10.00	59	46	52	62	10	14	29.68	30.16		
22	CLR	NC			10.00	35	19	30	52	6	21	29.87	30.36	22	OVC	130			10.00	55	47	51	74	10	12	29.65	30.12		
SUNRISE: 0720					DEC 17	SUNSET: 1704					SUNRISE: 0723					DEC 23	SUNSET: 1707												
01	SCT	NC			10.00	30	20	27	66	7	23	29.87	30.36	01	OVC	080			10.00	55	49	52	80	9	13	29.58	30.05		
04	SCT	NC			10.00	29	20	26	69	6	24	29.84	30.32	04	OVC	080			10.00	56	53	54	90	12	15	29.50	29.97		
07	BKN	200			10.00	29	19	26	66	7	23	29.83	30.32	07	OVC	060			8.00	56	55	55	97	12	15	29.40	29.87		
10	BKN	130			10.00	42	22	35	45	0	00	29.85	30.34	10	OVC	012		-RA	6.00	62	60	61	93	15	18	29.37	29.84		
13	SCT	NC			10.00	55	18	41	23	5	VR	29.79	30.27	13	OVC	019		-RA	10.00	66	63	64	90	22	21	29.29	29.75		
16	SCT	NC			10.00	56	16	41	21	0	00	29.74	30.22	16	OVC	020		+RA	3.00	64	61	62	90	15	24	29.31	29.78		
19	BKN	130			10.00	43	24	36	47	0	00	29.76	30.24	19	OVC	036			10.00	53	43	48	69	9	33	29.45	29.92		
22	BKN	130			10.00	39	27	34	62	0	00	29.77	30.25	22	BKN	046			10.00	41	27	35	57	7	VR	29.54	30.02		
SUNRISE: 0720					DEC 18	SUNSET: 1704					SUNRISE: 0723					DEC 24	SUNSET: 1707												
01	FEW	NC			9.00	32	26	30	79	0	00	29.71	30.19	01	BKN	250			10.00	36	24	32	62	6	VR	29.59	30.06		
04	FEW	NC			9.00	29	24	27	82	0	00	29.68	30.15	04	BKN	250			10.00	34	23	30	64	9	02	29.66	30.13		
07	FEW	NC			10.00	31	24	28	76	3	04	29.67	30.15	07	BKN	250			10.00	32	24	29	73	7	02	29.69	30.17		
10	SCT	NC			10.00	39	29	35	67	5	32	29.67	30.15	10	OVC	250			10.00	35	24	31	64	13	05	29.76	30.24		
13	CLR	NC			10.00	52	25	41	35	5	VR	29.57	30.05	13	OVC	043			10.00	36	17	30	46	10	04	29.71	30.19		
16	CLR	NC			10.00	55	23	42	29	3	VR	29.51	29.99	16	OVC	049			10.00	36	18	30	48	7	03	29.66	30.14		
19	CLR	NC			10.00	40	25	34	55	0	00	29.51	29.99	19	OVC	250			10.00	34	19	29	54	5	VR	29.70	30.18		
22	CLR	NC			10.00	35	26	32	70	0	00	29.49	29.97	22	OVC	250			10.00	33	19	28	56	5	03	29.71	30.19		

OBSERVATIONS AT 3-HOURLY INTERVALS

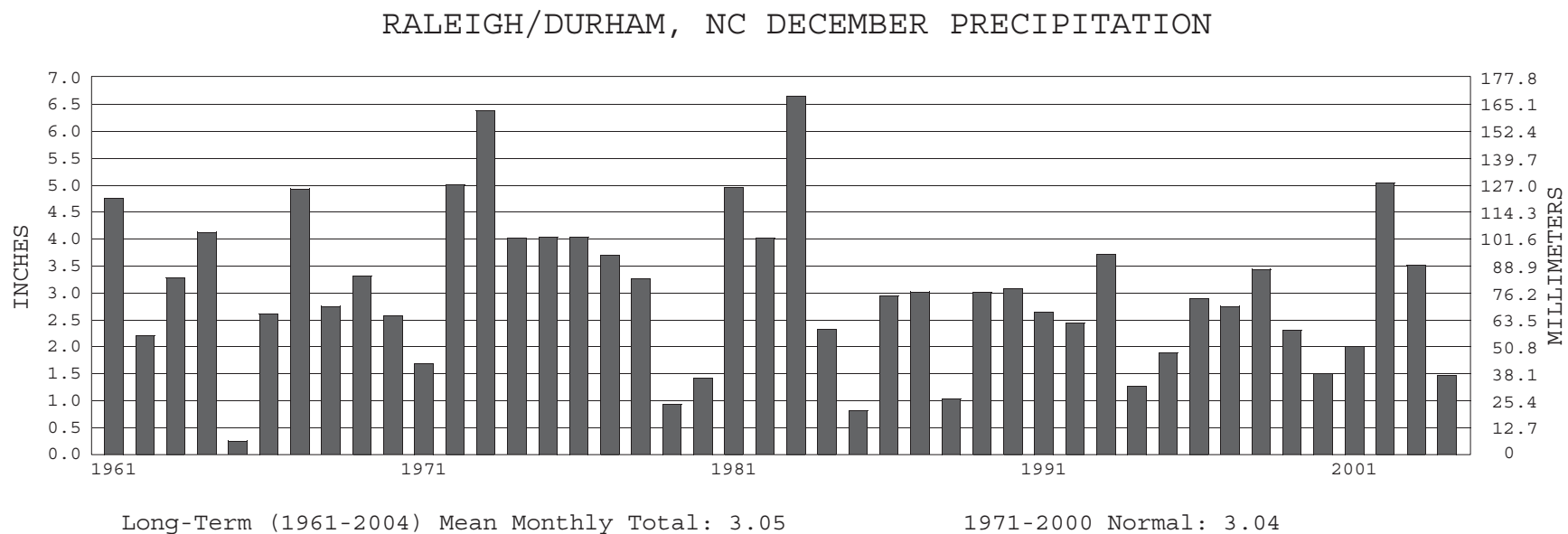
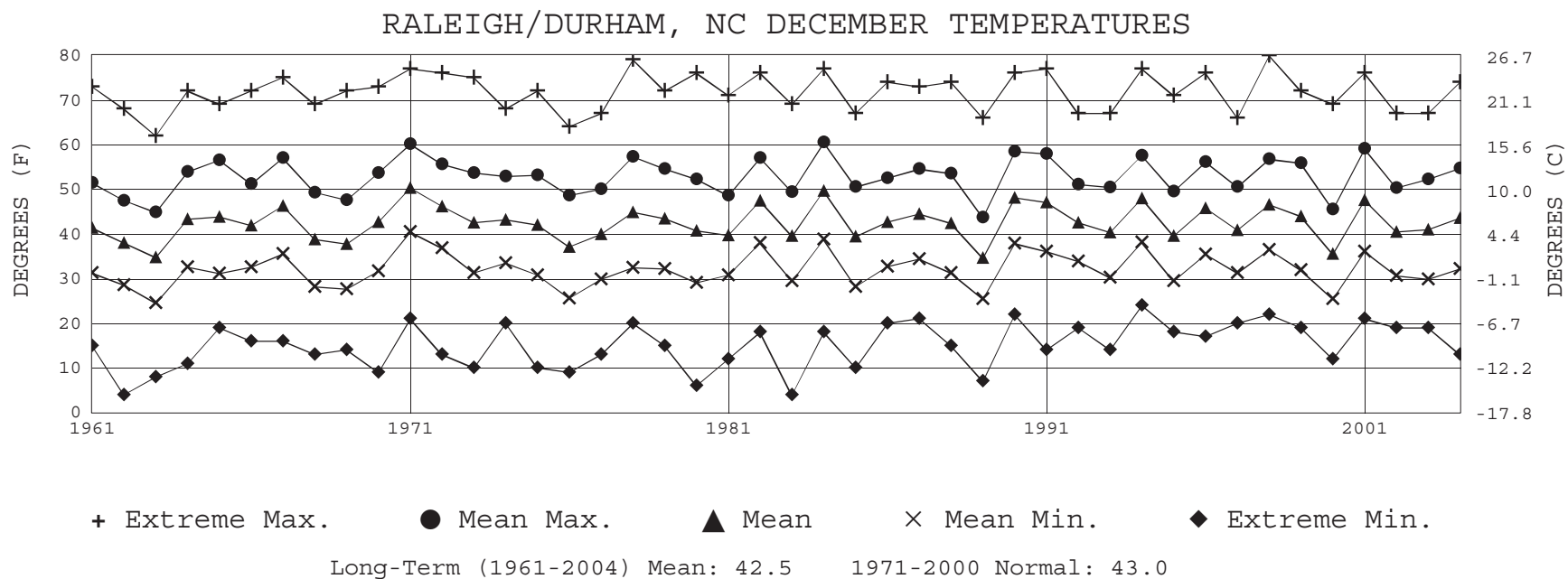
RALEIGH/DURHAM, NC

DECEMBER 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: 0723 DEC 25 SUNSET: 1708																												SUNRISE: 0725 DEC 31 SUNSET: 1712																											
01	OVC	250			10.00	30	18	26	61	5	03	29.70	30.19	01	BKN	250			10.00		46	37	42	71	7	13	29.97	30.45																											
04	OVC	250			10.00	30	14	25	51	9	02	29.69	30.17	04	BKN	250			9.00		44	37	41	76	5	VR	29.95	30.44																											
07	OVC	250			10.00	29	15	25	56	9	04	29.71	30.19	07	BKN	250			8.00		41	36	39	82	0	00	29.97	30.45																											
10	BKN	200			10.00	30	14	25	51	10	03	29.80	30.28	10	BKN	250			10.00		52	39	46	61	3	18	29.99	30.47																											
13	BKN	150			10.00	34	14	28	44	7	01	29.76	30.24	13	BKN	250			10.00		65	41	53	42	13	22	29.92	30.40																											
16	BKN	150			10.00	34	15	28	46	7	04	29.73	30.21	16	OVC	250			10.00		61	43	52	52	12	21	29.89	30.38																											
19	OVC	150			10.00	30	16	26	56	7	03	29.72	30.20	19	BKN	250			10.00		52	42	47	69	7	22	29.90	30.39																											
22	OVC	150			10.00	30	14	25	51	9	04	29.76	30.25	22	SCT	NC			10.00		48	41	45	77	5	23	29.92	30.40																											
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 Visibilty = 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			39	29	35	69	29.65	30.13	9.37	5	2	22																																											
02			38	29	35	69	29.65	30.13	9.39	5	2	24																																											
03			38	29	35	71	29.65	30.13	9.36	5	2	23																																											
04			37	28	34	72	29.65	30.13	9.31	4	1	24																																											
05			37	28	34	73	29.65	30.12	9.31	5	2	26																																											
06			37	28	34	72	29.65	30.13	9.24	5	2	24																																											
07			37	29	34	74	29.66	30.14	9.32	6	2	24																																											
08			37	29	34	74	29.67	30.15	9.36	5	2	23																																											
09			41	30	37	67	29.69	30.17	9.52	6	2	24																																											
10			44	30	39	58	29.70	30.18	9.61	7	3	27																																											
11			48	29	40	50	29.69	30.17	9.94	8	3	27																																											
12			50	28	42	45	29.67	30.15	9.52	9	4	26																																											
13			52	28	42	42	29.64	30.12	9.74	9	4	25																																											
14			53	28	43	41	29.62	30.10	9.72	9	6	25																																											
15			53	28	43	41	29.62	30.10	9.70	9	6	25																																											
16			52	28	42	43	29.63	30.10	9.46	9	6	25																																											
17			49	28	41	48	29.63	30.11	9.65	5	4	23																																											
18			46	29	39	53	29.64	30.12	9.62	5	3	22																																											
19			44	29	38	56	29.65	30.13	9.55	5	2	24																																											
20			43	29	38	59	29.66	30.14	9.55	5	2	25																																											
21			42	29	37	61	29.67	30.15	9.61	5	1	24																																											
22			41	29	36	63	29.67	30.15	9.45	4	2	22																																											
23			40	29	36	66	29.67	30.15	9.39	5	2	23																																											
24			39	29	35	68	29.67	30.15	9.37	5	2	23																																											





DECEMBER 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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