



OCTOBER 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	71	44	58	-8	49	53	7	0	RA BR	0		0.0	T	29.70	30.17	1.1	33	2.8	15	35	10	01	01					
02	66	43	55	-10	39	47	10	0		0		0.0	0.00	29.68	30.15	5.2	01	6.3	18	01	14	35	02					
03	65	36	51	-14	38	45	14	0		0		0.0	0.00	29.70	30.17	1.0	04	2.7	16	09	13	09	03					
04	75	48	62	-2	51	56	3	0	BR	0		0.0	0.00	29.50	29.97	5.8	23	6.1	24	23	21	22	04					
05	73	49	61	-3	50	55	4	0	BR	0		0.0	0.00	29.57	30.04	0.9	04	2.0	15	03	12	03	05					
06	76	48	62	-1	54	57	3	0	RA BR	0		0.0	T	29.61	30.08	2.7	24	2.7	13	22	12	23	06					
07	77	57	67	4	59	62	0	2	RA BR HZ	0		0.0	T	29.68	30.15	1.6	16	2.4	13	14	10	16	07					
08	67	57	62	-1	62	63	3	0	RA BR	0		0.0	0.36	29.73	30.20	4.6	06	5.1	14	08	12	10	08					
09	76	63	70	8	65	66	0	5	RA BR	0		0.0	0.11	29.66	30.12	6.4	05	6.8	24	12	20	12	09					
10	65	60	63	1	62	62	2	0	RA BR	0		0.0	0.22	29.56	30.02	7.8	02	8.4	20	02	14	05	10					
11	66	61	64	2	61	62	1	0	RA BR	0		0.0	0.02	29.59	30.05	5.6	02	6.0	16	02	13	03	11					
12	80*	59	70*	8	62	64	0	5	BR	0		0.0	0.00	29.50	29.97	1.0	31	2.1	14	23	12	23	12					
13	78	56	67	6	59	61	0	2	FG+ MIFG BR	0		0.0	0.00	29.51	29.98	2.6	07	3.2	17	08	14	08	13					
14	69	55	62	2	64	64	3	0	RA BR	0		0.0	0.48	29.28	29.74	6.0	18	8.0	33*	29	21	30	14					
15	69	43	56	-4	43	50	9	0		0		0.0	0.00	29.41	29.87	5.8	28	6.4	29	28	20	28	15					
16	72	40	56	-4	44	49	9	0	MIFG	0		0.0	0.00	29.70	30.17	2.5	21	3.1	18	20	14	22	16					
17	75	45	60	1	51	55	5	0	RA	0		0.0	0.01	29.63	30.10	3.8	24	5.9	20	23	16	23	17					
18	64	42	53	-6	47	51	12	0	BR	0		0.0	0.00	29.60	30.07	5.9	02	6.3	21	04	17	03	18					
19	74	40	57	-2	47	51	8	0	BR	0		0.0	0.00	29.60	30.07	2.2	24	2.8	16	22	13	23	19					
20	77	46	62	3	50	54	3	0	MIFG BR	0		0.0	0.00	29.68	30.15	1.8	24	3.1	14	25	10	24	20					
21	79	54	67	8	56	60	0	2		0		0.0	0.00	29.34	29.80	10.2	23	10.4	26	23	22*	24	21					
22	68	48	58	0	38	49	7	0		0		0.0	0.00	29.21	29.67	5.9	32	6.9	26	28	18	30	22					
23	61	40	51	-6	36	44	14	0		0		0.0	0.00	29.36	29.83	2.0	31	4.1	17	26	14	28	23					
24	60	34*	47*	-10	35	43	18	0		0		0.0	0.00	29.74	30.22	4.9	08	5.2	20	08	16	09	24					
25	68	48	58	1	51	54	7	0	BR	0		0.0	0.00	29.88	30.36	3.9	08	5.0	14	13	9	11	25					
26	69	59	64	7	62	63	1	0	RA FG BR HZ	0		0.0	0.12	29.70	30.17	3.8	17	4.6	17	19	14	21	26					
27	73	55	64	8	61	63	1	0	RA	0		0.0	0.01	29.37	29.83	6.0	22	10.0	24	24	21	23	27					
28	55	49	52	-4	48	50	13	0	RA BR	0		0.0	0.63	29.37	29.84	6.0	03	6.4	16	03	14	03	28					
29	68	44	56	0	48	50	9	0	RA BR	0		0.0	0.66	29.40	29.87	4.4	26	6.1	23	27	17	25	29					
30	73	40	57	2	45	50	8	0	BR	0		0.0	0.00	29.78	30.25	2.5	14	3.2	12	11	10	11	30					
31	78	43	61	6	49	53	4	0	BR	0		0.0	0.00	29.84	30.32	1.3	22	2.1	12	24	9	25	31					
70.5		48.6	59.6	■ ■	51.2	55.0	5.7	0.5	< MONTHLY AVERAGES		TOTALS->			0.0	2.62	29.58	30.05	0.4	32	5.0	<- MONTHLY AVERAGES							
-1.3		0.4	-.4	■ ■	<-----DEPARTURE FROM NORMAL----->							-.56		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.29 DATE: 28-29					SEA LEVEL PRESSURE					DATE TIME									
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE:					MAXIMUM					: 30.40 25 0851									
TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:					MINIMUM					: 29.48 14 2051									
HEATING: 178 -16									NUMBER OF DAYS WITH →					MAXIMUM TEMP ≥ 90: 0					MINIMUM TEMP ≤ 32: 0					PRECIPITATION ≥ 0.01 INCH : 10				
COOLING: 16 -23														MAXIMUM TEMP ≤ 32: 0					MINIMUM TEMP ≤ 0: 0					PRECIPITATION ≥ 0.10 INCH : 7				
														THUNDERSTORMS: 0					HEAVY FOG: 1					SNOWFALL ≥ 1.0 INCH : 0				

OCTOBER 2003
RALEIGH/DURHAM, NC

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

RALEIGH/DURHAM, NC

OCTOBER 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									T	T			01														01		T																			
02																														02																	02	0.00
03																																		03													03	0.00
04																																		04													04	0.00
05																																		05													05	0.00
06																															T				06												06	T
07																																T			07							T					07	T
08																																	T	T	08	0.03	0.05	0.07	0.07	0.05	0.03	0.01	0.03	0.01	0.01	T	08	0.36
09																																			09			0.05	0.06								09	0.11
10																																	T	T	10	0.01	0.09	T			0.02	0.03	0.01	0.02	0.02	0.02	T	10
11	0.01	T		0.01	T								11													11	0.02																					
12													12													12	0.00																					
13													13													13	0.00																					
14											T	T	14	0.05	0.05	0.07	0.02	0.02					0.23	T	14	0.48																						
15												0.04	15													15	0.00																					
16													16													16	0.00																					
17													17								T	0.01	T	T	17	0.01																						
18													18													18	0.00																					
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													24													24	0.00																					
25													25													25	0.00																					
26													26													26	0.12																					
27				T	T	T	0.01					T	27	0.11	0.01											27	0.01																					
28					T								28	0.03	0.02	0.04	0.06	0.09	0.05	0.04	.08	0.08	0.06	0.04	0.03	28	0.63																					
29	0.03	0.04	0.06	.19	0.10	0.13	0.11						29													29	0.66																					
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
OCTOBER 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							6.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							6.00	10.00	
05							1.50	10.00	
06							5.00	10.00	
07							3.00	10.00	
08							2.50	9.00	
09							1.75	10.00	
10							1.25	7.00	
11							2.50	5.00	
12							1.75	10.00	
13							2.50	10.00	
14							1.00	10.00	
15							10.00	10.00	
16							7.00	10.00	
17							9.00	10.00	
18							6.00	10.00	
19							.00	10.00	
20							4.00	10.00	
21							7.00	10.00	
22							10.00	10.00	
23							8.00	10.00	
24							7.00	10.00	
25							6.00	10.00	
26							.50	10.00	
27							7.00	10.00	
28							1.75	10.00	
29							2.00	10.00	
30							3.00	10.00	
31							4.00	10.00	
MONTHLY AVGS							4.95	9.71	

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 14 10

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

OCTOBER 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: 0610					OCT 01	SUNSET: 1759					SUNRISE: 0615					OCT 07	SUNSET: 1751												
01	CLR	NC			10.00	49	47	48	93	0	00	29.76	30.23	01	BKN	090			5.00	BR	57	56	56	96	0	00	29.63	30.09	
04	CLR	NC			7.00	47	46	46	97	0	00	29.75	30.22	04	BKN	150			7.00		57	57	57	100	0	00	29.64	30.10	
07	BKN	130			7.00	50	49	49	96	0	00	29.75	30.22	07	BKN	130			6.00	BR	59	58	58	96	5	18	29.69	30.16	
10	OVC	095			8.00	58	52	55	81	3	30	29.75	30.22	10	BKN	090			7.00		67	59	62	76	3	03	29.72	30.19	
13	BKN	100			10.00	67	46	56	47	3	VR	29.69	30.16	13	BKN	080			10.00		75	55	63	50	3	16	29.69	30.15	
16	BKN	080			10.00	68	48	57	49	0	00	29.63	30.10	16	BKN	100			10.00		75	59	65	58	6	16	29.66	30.13	
19	BKN	075			10.00	60	52	56	75	0	00	29.65	30.12	19	BKN	075			10.00		69	60	64	73	5	10	29.69	30.15	
22	BKN	050			10.00	58	49	53	72	8	01	29.68	30.14	22	CLR	NC			10.00		64	61	62	90	3	17	29.72	30.18	
SUNRISE: 0611					OCT 02	SUNSET: 1758					SUNRISE: 0616					OCT 08	SUNSET: 1749												
01	FEW	NC			10.00	52	42	47	69	6	02	29.66	30.13	01	FEW	NC			6.00	BR	57	57	57	100	3	01	29.72	30.18	
04	OVC	050			10.00	51	40	46	66	6	VR	29.66	30.13	04	BKN	042			6.00	BR	61	61	61	100	5	03	29.72	30.18	
07	BKN	050			10.00	50	42	46	74	3	VR	29.67	30.14	07	OVC	130			7.00		62	61	61	96	5	04	29.75	30.22	
10	SCT	NC			10.00	59	41	50	51	8	36	29.70	30.16	10	OVC	050			8.00		65	61	63	87	5	08	29.79	30.25	
13	FEW	NC			10.00	64	37	51	37	7	36	29.65	30.12	13	OVC	039			3.00	-RA BR	66	64	65	93	3	07	29.75	30.22	
16	FEW	NC			10.00	63	38	51	40	9	03	29.65	30.12	16	OVC	022			2.50	-RA BR	64	64	64	100	5	03	29.72	30.19	
19	CLR	NC			10.00	53	39	46	59	5	36	29.69	30.16	19	OVC	025			3.00	-RA BR	64	64	64	100	6	05	29.71	30.17	
22	CLR	NC			10.00	48	37	43	66	7	01	29.73	30.21	22	OVC	060			6.00	-RA BR	64	64	64	100	6	07	29.71	30.18	
SUNRISE: 0611					OCT 03	SUNSET: 1756					SUNRISE: 0616					OCT 09	SUNSET: 1748												
01	CLR	NC			10.00	43	36	40	76	3	02	29.75	30.22	01	OVC	005			4.00	BR	64	64	64	100	6	06	29.70	30.16	
04	CLR	NC			10.00	38	36	37	93	0	00	29.76	30.23	04	BKN	007			4.00	BR	63	63	63	100	5	03	29.66	30.12	
07	CLR	NC			10.00	39	35	37	86	3	02	29.79	30.26	07	OVC	130			5.00	BR	63	63	63	100	7	07	29.68	30.14	
10	FEW	NC			10.00	53	34	44	49	7	07	29.80	30.27	10	OVC	009			5.00	BR	67	65	66	93	6	07	29.72	30.18	
13	SCT	NC			10.00	61	34	48	36	5	VR	29.71	30.19	13	OVC	070			10.00		74	67	69	79	10	07	29.65	30.11	
16	BKN	250			10.00	63	37	50	38	0	00	29.63	30.10	16	OVC	065			3.00	BR	70	69	69	97	5	02	29.62	30.09	
19	SCT	NC			10.00	52	46	49	80	0	00	29.61	30.09	19	BKN	130			8.00		67	65	66	93	5	03	29.62	30.09	
22	SCT	NC			10.00	49	46	47	90	0	00	29.60	30.08	22	BKN	130			6.00	BR	65	64	64	97	5	02	29.63	30.09	
SUNRISE: 0612					OCT 04	SUNSET: 1755					SUNRISE: 0617					OCT 10	SUNSET: 1747												
01	BKN	130			10.00	52	46	49	80	0	00	29.56	30.03	01	BKN	130			7.00		63	61	62	93	9	02	29.59	30.05	
04	BKN	120			10.00	50	47	48	89	0	00	29.53	30.00	04	FEW	NC			5.00	BR	60	60	60	100	8	02	29.55	30.01	
07	SCT	NC			10.00	49	47	48	93	5	23	29.53	30.00	07	BKN	070			4.00	BR	61	59	60	93	9	03	29.57	30.04	
10	BKN	250			10.00	65	48	56	54	12	23	29.54	30.01	10	OVC	036			6.00	BR	64	60	62	87	9	02	29.58	30.04	
13	BKN	250			10.00	74	52	61	46	14	23	29.47	29.93	13	OVC	015			4.00	-RA BR	64	62	63	93	5	VR	29.55	30.01	
16	BKN	250			10.00	74	54	62	50	14	23	29.43	29.90	16	OVC	011			4.00	BR	65	63	64	93	10	02	29.53	29.99	
19	BKN	075			10.00	65	56	60	73	0	00	29.47	29.94	19	OVC	009			4.00	-RA BR	64	63	63	96	13	03	29.53	30.00	
22	SCT	NC			6.00 BR	57	56	56	96	0	00	29.50	29.97	22	OVC	009			4.00	-RA BR	64	63	63	96	10	04	29.57	30.03	
SUNRISE: 0613					OCT 05	SUNSET: 1754					SUNRISE: 0618					OCT 11	SUNSET: 1745												
01	SCT	NC			5.00 BR	57	55	56	93	0	00	29.50	29.96	01	OVC	009			4.00	-RA BR	63	62	62	97	9	04	29.57	30.03	
04	CLR	NC			5.00 BR	52	52	52	100	3	01	29.52	29.99	04	OVC	009			4.00	-RA BR	62	61	61	96	8	03	29.57	30.03	
07	FEW	NC			3.00 BR	49	49	49	100	0	00	29.57	30.04	07	OVC	009			2.50	BR	61	60	60	97	10	03	29.61	30.07	
10	CLR	NC			10.00	65	49	56	56	7	02	29.62	30.09	10	OVC	011			3.00	BR	63	60	61	90	9	02	29.63	30.09	
13	BKN	250			10.00	71	45	57	39	9	04	29.58	30.05	13	OVC	011			5.00	BR	65	61	63	87	6	03	29.59	30.05	
16	BKN	250			10.00	71	45	57	39	0	00	29.56	30.02	16	OVC	012			4.00	BR	64	61	62	90	5	VR	29.57	30.03	
19	BKN	250			10.00	59	53	56	81	0	00	29.58	30.05	19	OVC	012			5.00	BR	63	61	62	93	0	00	29.57	30.04	
22	SCT	NC			10.00	55	50	52	83	0	00	29.61	30.08	22	BKN	025			4.00	BR	63	61	62	93	0	00	29.58	30.05	
SUNRISE: 0614					OCT 06	SUNSET: 1752					SUNRISE: 0619					OCT 12	SUNSET: 1744												
01	SCT	NC			10.00	52	51	52	97	0	00	29.59	30.06	01	FEW	NC			4.00	BR	60	60	60	100	3	31	29.55	30.02	
04	FEW	NC			9.00	50	49	49	96	0	00	29.60	30.06	04	OVC	016			3.00	BR	61	61	61	100	0	00	29.52	29.99	
07	BKN	130			9.00	52	51	52	97	0	00	29.64	30.11	07	SCT	NC			2.50	BR	60	60	60	100	0	00	29.55	30.01	
10	BKN	095			10.00	64	55	59	73	6	24	29.66	30.12	10	SCT	NC			9.00		70	61	64	73	6	VR	29.54	30.00	
13	BKN	150			10.00	71	55	62	57	9	23	29.62	30.08	13	SCT	NC			10.00		75	61	66	62	6	27	29.48	29.94	
16	SCT	NC			10.00	76	57	64	52																				

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

OCTOBER 2003

RDU

WBAN # 13722

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																
				VISIBILITY (MILES)																																							
SUNRISE: 0620						OCT 13						SUNSET: 1743						SUNRISE: 0625						OCT 19						SUNSET: 1735													
01	CLR	NC			5.00 BR	60	60	60	100	0	00	29.49	29.96	01	CLR	NC				6.00 BR	44	43	44	96	0	00	29.59	30.06	01	CLR	NC				6.00 BR	44	43	44	96	0	00	29.59	30.06
04	CLR	NC			2.50 MIFG	58	58	58	100	0	00	29.49	29.95	04	CLR	NC				6.00 BR	42	41	42	96	0	00	29.59	30.06	04	CLR	NC				6.00 BR	42	41	42	96	0	00	29.59	30.06
07	CLR	NC			6.00 BR	56	56	56	100	0	00	29.53	30.00	07	FEW	NC				4.00 BR	42	42	42	100	0	00	29.62	30.09	07	FEW	NC				4.00 BR	42	42	42	100	0	00	29.62	30.09
10	CLR	NC			10.00	71	55	62	57	10	07	29.57	30.03	10	CLR	NC				10.00	60	47	53	62	9	23	29.64	30.11	10	CLR	NC				10.00	60	47	53	62	9	23	29.64	30.11
13	CLR	NC			10.00	75	56	64	52	9	09	29.53	29.99	13	CLR	NC				10.00	70	47	57	44	7	VR	29.58	30.05	13	CLR	NC				10.00	70	47	57	44	7	VR	29.58	30.05
16	BKN	250			10.00	76	57	64	52	5	05	29.48	29.95	16	CLR	NC				10.00	73	49	59	43	9	23	29.54	30.01	16	CLR	NC				10.00	73	49	59	43	9	23	29.54	30.01
19	SCT	NC			8.00	65	62	63	90	0	00	29.50	29.97	19	CLR	NC				10.00	59	53	56	81	0	00	29.60	30.07	19	CLR	NC				10.00	59	53	56	81	0	00	29.60	30.07
22	BKN	150			8.00	63	60	61	90	0	00	29.52	29.98	22	CLR	NC				10.00	53	51	52	93	0	00	29.63	30.10	22	CLR	NC				10.00	53	51	52	93	0	00	29.63	30.10
SUNRISE: 0621						OCT 14						SUNSET: 1741						SUNRISE: 0626						OCT 20						SUNSET: 1734													
01	OVC	080			7.00	64	60	62	87	0	00	29.50	29.96	01	CLR	NC				7.00	49	49	49	100	0	00	29.64	30.11	01	CLR	NC				7.00	49	49	49	100	0	00	29.64	30.11
04	OVC	001			1.75 BR	65	65	65	100	5	15	29.44	29.90	04	CLR	NC				6.00 MIFG	47	47	47	100	0	00	29.66	30.13	04	CLR	NC				6.00 MIFG	47	47	47	100	0	00	29.66	30.13
07	OVC	005			2.50 BR	66	65	65	96	6	17	29.43	29.89	07	CLR	NC				4.00 BR	46	46	46	100	0	00	29.72	30.19	07	CLR	NC				4.00 BR	46	46	46	100	0	00	29.72	30.19
10	OVC	008			3.00 BR	68	65	66	90	9	20	29.41	29.87	10	FEW	NC				10.00	60	52	56	75	3	VR	29.76	30.23	10	FEW	NC				10.00	60	52	56	75	3	VR	29.76	30.23
13	OVC	010			6.00 -RA BR	66	65	65	96	9	15	29.28	29.75	13	BKN	250				10.00	72	50	60	46	3	VR	29.72	30.19	13	BKN	250				10.00	72	50	60	46	3	VR	29.72	30.19
16	OVC	006			2.00 -RA BR	66	65	65	96	8	17	29.14	29.61	16	SCT	NC				10.00	75	49	60	40	9	24	29.66	30.13	16	SCT	NC				10.00	75	49	60	40	9	24	29.66	30.13
19	OVC	010			3.00 BR	67	67	67	100	13	21	29.07	29.52	19	CLR	NC				10.00	61	53	57	75	0	00	29.64	30.11	19	CLR	NC				10.00	61	53	57	75	0	00	29.64	30.11
22	OVC	048			10.00 -RA	61	58	59	90	10	29	29.09	29.56	22	CLR	NC				10.00	58	52	55	81	5	20	29.64	30.11	22	CLR	NC				10.00	58	52	55	81	5	20	29.64	30.11
SUNRISE: 0622						OCT 15						SUNSET: 1740						SUNRISE: 0627						OCT 21						SUNSET: 1732													
01	CLR	NC			10.00	55	49	52	80	8	26	29.17	29.63	01	CLR	NC				10.00	58	53	55	84	8	22	29.57	30.04	01	CLR	NC				10.00	58	53	55	84	8	22	29.57	30.04
04	CLR	NC			10.00	54	45	49	72	7	26	29.21	29.67	04	CLR	NC				7.00	55	53	54	93	7	20	29.53	29.99	04	CLR	NC				7.00	55	53	54	93	7	20	29.53	29.99
07	CLR	NC			10.00	52	44	48	75	6	26	29.30	29.77	07	SCT	NC				7.00	57	54	55	90	10	23	29.47	29.94	07	SCT	NC				7.00	57	54	55	90	10	23	29.47	29.94
10	FEW	NC			10.00	62	41	51	46	14	29	29.40	29.87	10	BKN	250				9.00	68	57	62	68	17	23	29.41	29.87	10	BKN	250				9.00	68	57	62	68	17	23	29.41	29.87
13	CLR	NC			10.00	67	38	52	35	12	28	29.43	29.90	13	BKN	250				10.00	77	55	64	47	18	23	29.28	29.75	13	BKN	250				10.00	77	55	64	47	18	23	29.28	29.75
16	CLR	NC			10.00	67	38	52	35	8	29	29.44	29.91	16	BKN	150				10.00	77	57	65	50	16	22	29.20	29.67	16	BKN	150				10.00	77	57	65	50	16	22	29.20	29.67
19	CLR	NC			10.00	53	44	49	72	0	00	29.52	29.99	19	OVC	150				10.00	67	59	62	76	5	24	29.20	29.67	19	OVC	150				10.00	67	59	62	76	5	24	29.20	29.67
22	CLR	NC			10.00	46	44	45	93	0	00	29.59	30.06	22	BKN	150				10.00	66	60	62	81	5	27	29.19	29.65	22	BKN	150				10.00	66	60	62	81	5	27	29.19	29.65
SUNRISE: 0622						OCT 16						SUNSET: 1739						SUNRISE: 0628						OCT 22						SUNSET: 1731													
01	CLR	NC			10.00	43	42	43	97	0	00	29.64	30.11	01	SCT	NC				10.00	63	57	60	81	3	29	29.16	29.62	01	SCT	NC				10.00	63	57	60	81	3	29	29.16	29.62
04	CLR	NC			10.00	41	41	41	100	0	00	29.69	30.16	04	CLR	NC				10.00	62	45	53	54	5	VR	29.17	29.63	04	CLR	NC				10.00	62	45	53	54	5	VR	29.17	29.63
07	CLR	NC			7.00 MIFG	41	41	41	100	0	00	29.74	30.21	07	CLR	NC				10.00	55	45	50	69	0	00	29.21	29.68	07	CLR	NC				10.00	55	45	50	69	0	00	29.21	29.68
10	CLR	NC			10.00	62	46	54	56	5	22	29.76	30.23	10	FEW	NC				10.00	64	37	51	37	12	33	29.21	29.68	10	FEW	NC				10.00	64	37	51	37	12	33	29.21	29.68
13	CLR	NC			10.00	71	43	56	36	5	VR	29.71	30.18	13	FEW	NC				10.00	67	34	51	30	13	33	29.16	29.63	13	FEW	NC				10.00	67	34	51	30	13	33	29.16	29.63
16	CLR	NC			10.00	70	43	56	38	12	23	29.67	30.14	16	FEW	NC				10.00	66	33	50	29	9	32	29.15	29.62	16	FEW	NC				10.00	66	33	50	29	9	32	29.15	29.62
19	CLR	NC			10.00	58	46	52	65	0	00	29.69	30.16	19	CLR	NC				10.00	56	35	46	46	3																		

OBSERVATIONS AT 3-HOURLY INTERVALS

RALEIGH/DURHAM, NC

OCTOBER 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: 0631	OCT 25		SUNSET: 1728										SUNRISE: 0636	OCT 31		SUNSET: 1721																				
01	BKN	060			10.00		49	38	44	66	5	10	29.89	30.38	01	CLR	NC			10.00		49	46	47	90	0	00	29.85	30.32												
04	BKN	040			10.00		49	41	45	74	5	06	29.90	30.38	04	CLR	NC			8.00	BR	45	45	45	100	0	00	29.85	30.32												
07	OVC	035			10.00		50	44	47	80	6	04	29.90	30.38	07	SCT	NC			5.00		45	44	45	97	0	00	29.87	30.35												
10	BKN	030			10.00		56	48	52	75	7	03	29.92	30.40	10	SCT	NC			10.00		66	50	57	56	6	26	29.89	30.37												
13	BKN	020			10.00		67	55	60	66	5	VR	29.88	30.36	13	BKN	250			10.00		76	53	63	45	6	20	29.85	30.32												
16	OVC	021			10.00		65	57	60	76	7	14	29.85	30.33	16	BKN	250			10.00		75	51	61	43	5	22	29.81	30.28												
19	SCT	NC			10.00		60	57	58	90	5	10	29.85	30.33	19	CLR	NC			10.00		63	52	57	68	6	VR	29.82	30.29												
22	BKN	021			6.00	BR	60	58	59	93	7	10	29.85	30.32	22	CLR	NC			10.00		51	50	51	96	0	00	29.82	30.29												
					SUNRISE: 0632	OCT 26		SUNSET: 1727										3-HOURLY OBSERVATION NOTES																							
01	OVC	020			5.00	BR	61	59	60	93	0	00	29.85	30.31	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.																										
04	OVC	008			5.00	BR	61	60	60	97	3	14	29.82	30.28																											
07	VV	001			0.50	FG	62	61	61	96	0	00	29.80	30.27																											
10	OVC	005			2.00	BR	67	64	65	91	9	20	29.78	30.24																											
13	OVC	005			2.00	RA BR	65	65	65	100	7	19	29.71	30.18																											
16	OVC	050			10.00		67	64	65	91	3	16	29.64	30.10																											
19	BKN	110			9.00		66	64	65	93	6	12	29.60	30.06	SUMMARY BY HOUR																										
22	BKN	250			10.00		65	61	63	87	9	16	29.57	30.03																											
					SUNRISE: 0632	OCT 27		SUNSET: 1725																																	
01	OVC	110			10.00		65	60	62	84	8	17	29.50	29.96																											
04	BKN	050			10.00	-RA	64	62	63	93	6	18	29.44	29.91																											
07	OVC	009			8.00		66	65	65	96	10	21	29.38	29.85																											
10	OVC	014			9.00		69	65	66	87	12	20	29.34	29.80																											
13	OVC	022			10.00		71	63	66	76	16	23	29.30	29.76																											
16	OVC	070			10.00		70	63	66	79	9	23	29.27	29.74																											
19	OVC	038			10.00		62	56	59	81	5	34	29.33	29.79																											
22	OVC	028			10.00		60	55	57	84	6	03	29.37	29.83																											
					SUNRISE: 0633	OCT 28		SUNSET: 1724																																	
01	OVC	029			10.00		54	42	48	64	8	02	29.40	29.87																											
04	OVC	029			10.00		53	44	49	72	5	01	29.40	29.86																											
07	OVC	011			10.00		52	49	50	89	7	03	29.42	29.88																											
10	OVC	005			3.00	BR	50	49	49	96	7	04	29.44	29.91																											
13	OVC	005			2.50	-RA BR	51	50	51	96	7	03	29.38	29.85																											
16	OVC	005			3.00	RA BR	51	50	51	96	5	02	29.37	29.84																											
19	OVC	007			3.00	RA BR	50	50	50	100	8	04	29.33	29.80																											
22	OVC	005			10.00	-RA	50	50	50	100	3	VR	29.29	29.76																											
					SUNRISE: 0634	OCT 29		SUNSET: 1723																																	
01	OVC	001			2.00	+RA BR	49	48	48	97	7	35	29.21	29.69																											
04	OVC	003			7.00	-RA	48	47	47	96	3	VR	29.25	29.72																											
07	OVC	003			2.00	BR	48	48	48	100	8	29	29.29	29.76																											
10	OVC	005			10.00		53	51	52	93	10	23	29.37	29.84																											
13	SCT	NC			10.00		64	54	58	70	12	23	29.38	29.85																											
16	BKN	100			10.00		65	47	55	52	9	26	29.44	29.91																											
19	CLR	NC			10.00		50	48	49	93	0	00	29.52	29.99																											
22	CLR	NC			10.00		46	45	46	96	0	00	29.57	30.04																											
					SUNRISE: 0635	OCT 30		SUNSET: 1722																																	
01	CLR	NC			10.00		46	45	46	96	0	00	29.62	30.09																											
04	CLR	NC			4.00	BR	42	42	42	100	0	00	29.68	30.15																											
07	CLR	NC			3.00	BR	41	41	41	100	0	00	29.77	30.24																											
10	CLR	NC			10.00		63	50	56	63	0	00	29.84	30.31																											
13	FEW	NC			10.00		70	44	56	39	7	13	29.81	30.29																											
16	SCT	NC			10.00		72	45	57	38	6	15	29.80	30.27																											
19	CLR	NC			10.00		60	48	54	65	6	VR	29.83	30.30																											
22	CLR	NC			10.00		54	47	50	77	5	15	29.84	30.31																											

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.

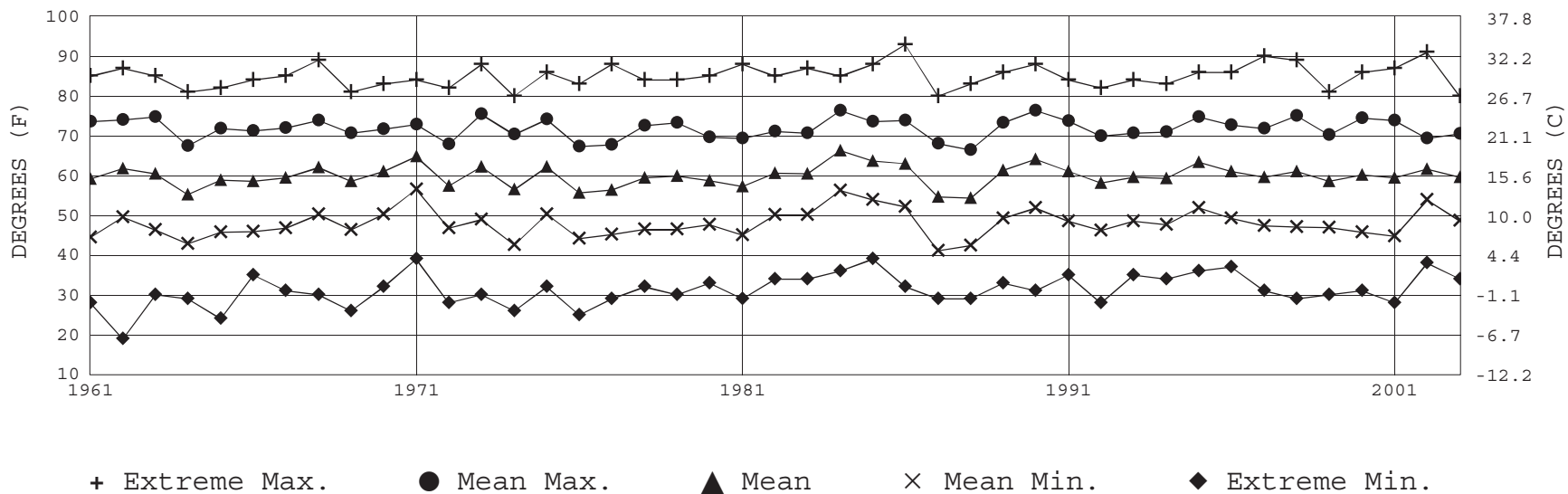
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

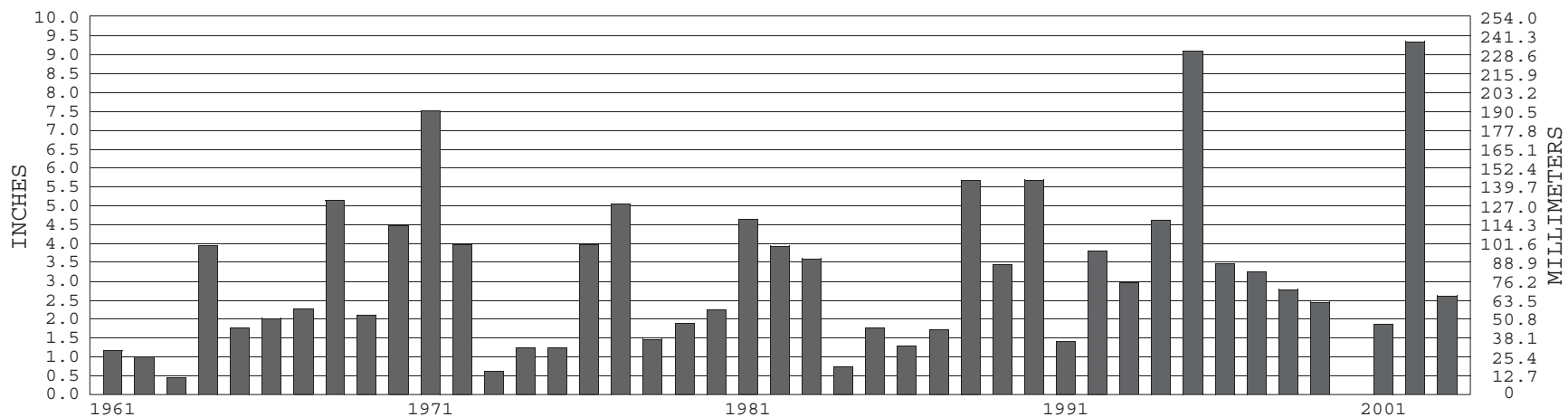
HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			54	50	52	89	29.57	30.04	7.87	3	1	1
02			53	50	52	90	29.57	30.04	7.84	3	1	4
03			53	50	51	90	29.57	30.03	7.53	3	1	3
04			52	49	51	91	29.57	30.04	7.30	3	1	3
05			52	49	51	92	29.58	30.05	7.23	3	1	3
06			52	49	51	92	29.59	30.06	7.02	3	1	35
07			52	50	51	92	29.60	30.07	6.48	4	0	0
08			55	51	53	87	29.61	30.08	6.97	5	1	35
09			59	52	55	78	29.62	30.09	7.87	7	0	0
10			62	51	56	69	29.62	30.09	8.45	8	1	29
11			65	51	57	63	29.61	30.08	9.05	8	2	26
12			67	51	58	59	29.60	30.07	8.87	7	1	26
13			68	51	59	58	29.57	30.04	8.79	7	2	24
14			69	51	59	56	29.55	30.02	8.71	7	3	25
15			69	51	59	56	29.54	30.01	8.71	7	3	26
16			68	51	59	58	29.54	30.01	8.66	6	2	24
17			66	52	59	63	29.54	30.01	8.84	5	1	24
18			62	53	57	74	29.55	30.02	8.77	4	0	0
19			60	54	57	81	29.56	30.03	8.81	3	1	5
20			58	53	56	85	29.57	30.03	8.71	3	1	4
21			57	53	55	86	29.57	30.04	8.77	4	1	7
22			56	52	54	87	29.58	30.05	8.74	3	1	4
23			56	51	53	87	29.58	30.05	8.45	3	1	4
24			54	51	53	89	29.58	30.04	8.03	3	1	6

RALEIGH/DURHAM, NC OCTOBER TEMPERATURES



Long-Term (1961-2003) Mean: 59.9 1961-1990 Normal: 60.0

RALEIGH/DURHAM, NC OCTOBER PRECIPITATION



Long-Term (1961-2003) Mean Monthly Total: 3.11

1961-1990 Normal: 3.18



OCTOBER 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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