2004 NC/VA Hurricane Evacuation Coordination Meeting

Hurricane Climatology and 2003 Season Review

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National Weather Service, Wakefield VA
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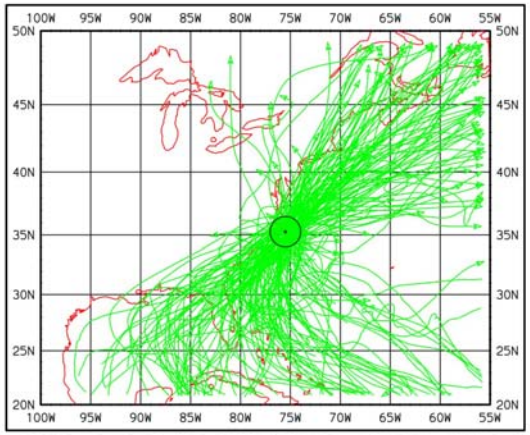
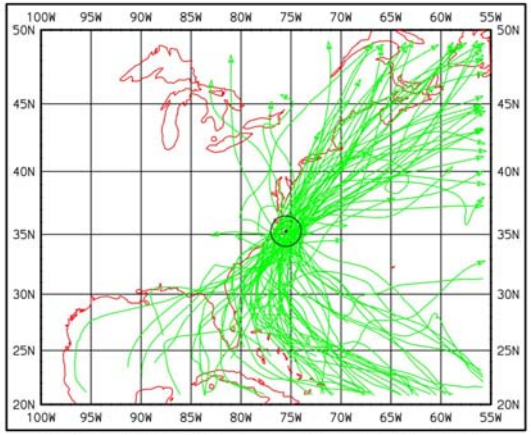
Hurricane Climatology

- HURRisk Maps (NHC)
- NOAA Coastal Services Center (CSC) Hurricane Climatology Page
  - *http://hurricane.csc.noaa.gov/hurricanes/index.htm*
- National Climatic Data Center Storm Information Web Site
  - *http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~Storms*

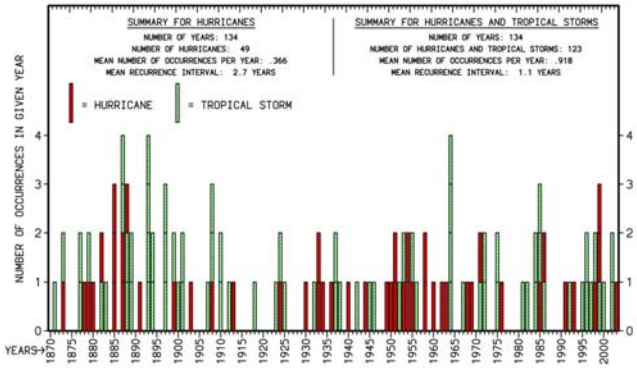
Cape Hatteras Hurricane Climatology



TROPICAL STORMS AND HURRICANES PASSING WITHIN 75 NMi OF CAPE HATTERAS 1870-2003
NUMBER OF STORMS IS 123
CHART 2



HURRICANES PASSING WITHIN 75 NMi OF CAPE HATTERAS 1870-2003
NUMBER OF STORMS IS 55
CHART 3



CHRONOLOGY OF THE 123
TROPICAL STORMS AND HURRICANES PASSING WITHIN 75 NMi OF CAPE HATTERAS 1870-2003

(Note: Designation as tropical storm or hurricane is at time of closest point of approach to site.)

CHART 4

TROPICAL STORMS AND HURRICANES PASSING WITHIN 75 NMi OF CAPE HATTERAS, 1870-2003

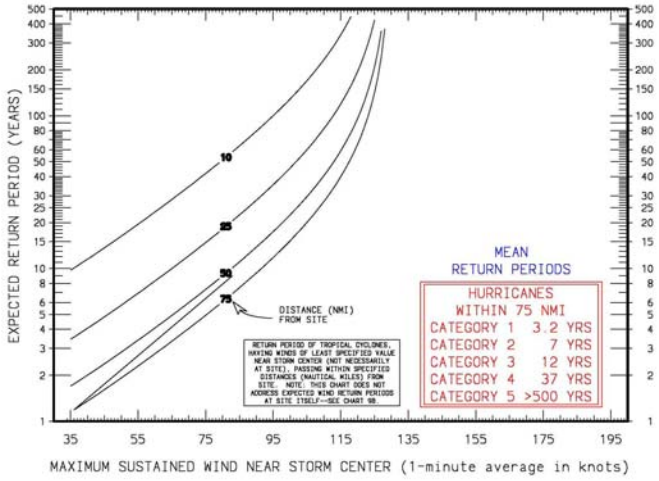
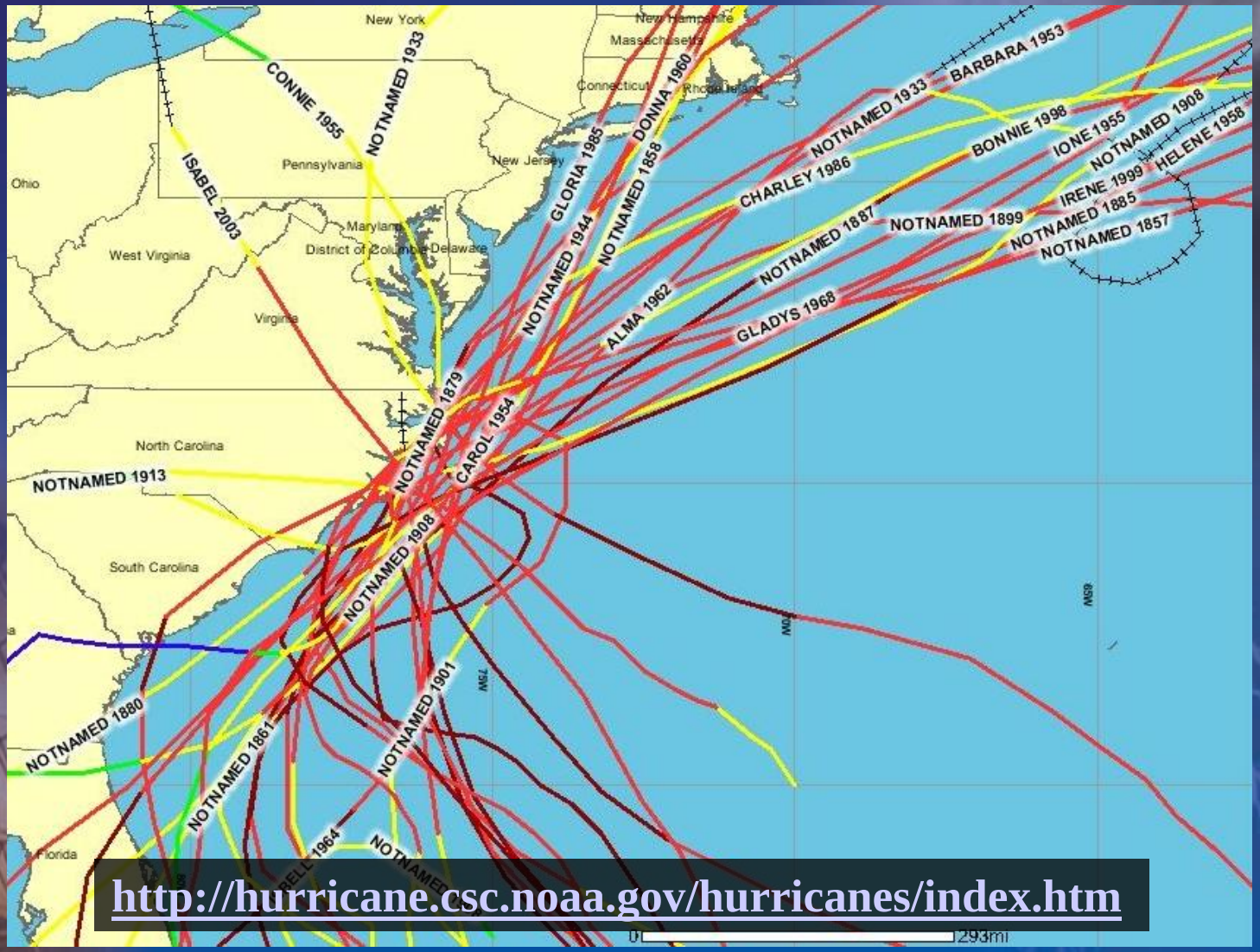


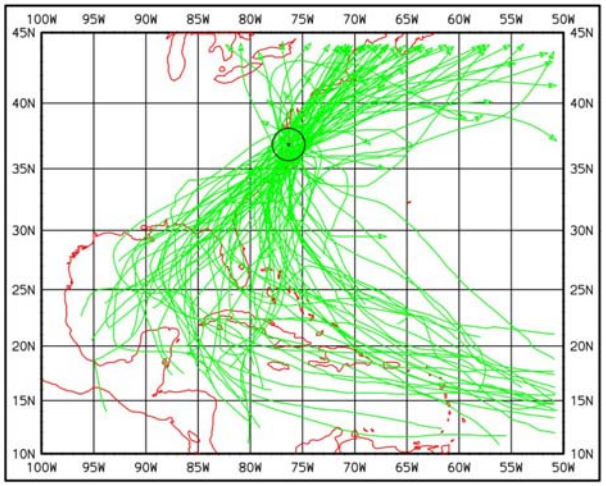
CHART 9A

Cape Hatteras Hurricane Climatology (1850-2003)



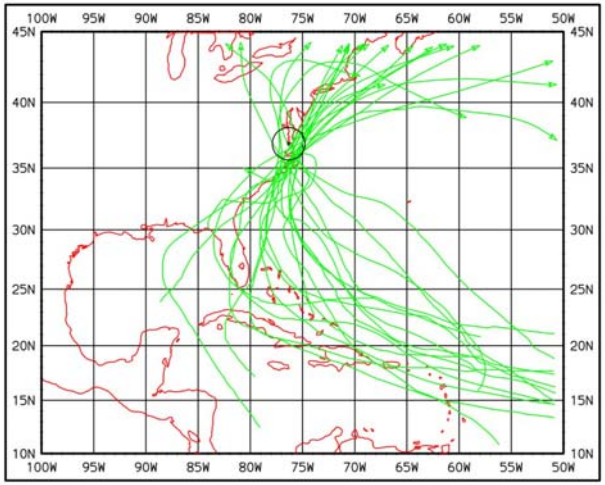
http://hurricane.csc.noaa.gov/hurricanes/index.htm

Norfolk Hurricane Climatology



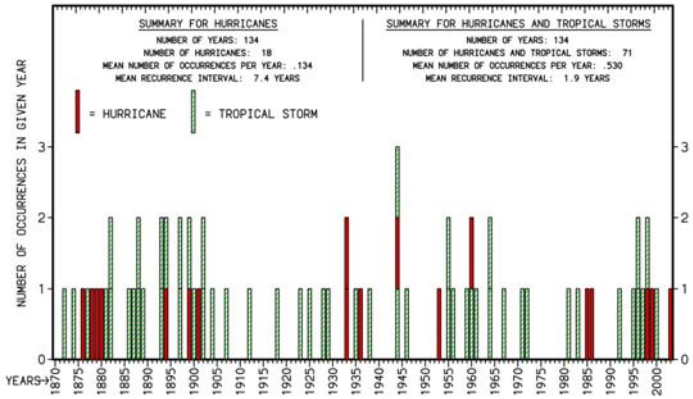
TROPICAL STORMS & HURRICANES PASSING WITHIN 75 NMi OF NORFOLK,VA 1870-2003
NUMBER OF STORMS IS 71

CHART 2



HURRICANES PASSING WITHIN 75 NMi OF NORFOLK,VA 1870-2003
NUMBER OF STORMS IS 21

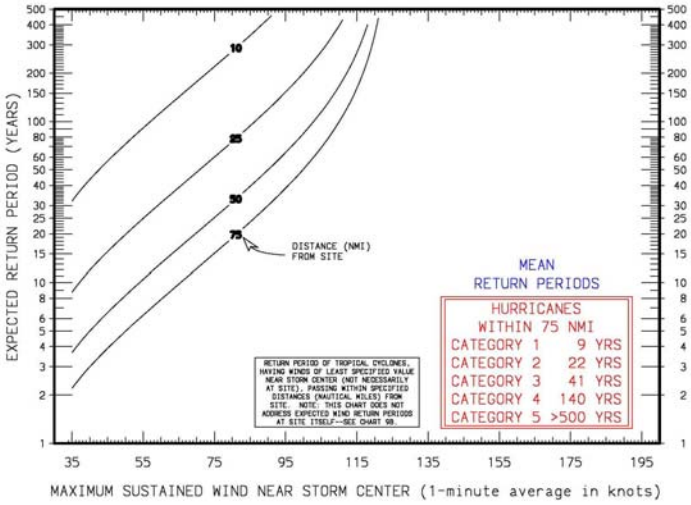
CHART 3



CHRONOLOGY OF THE 71
TROPICAL STORMS & HURRICANES PASSING WITHIN 75 NMi OF NORFOLK,VA 1870-2003

(Note: Designation as tropical storm or hurricane is at time of closest point of approach to site.)

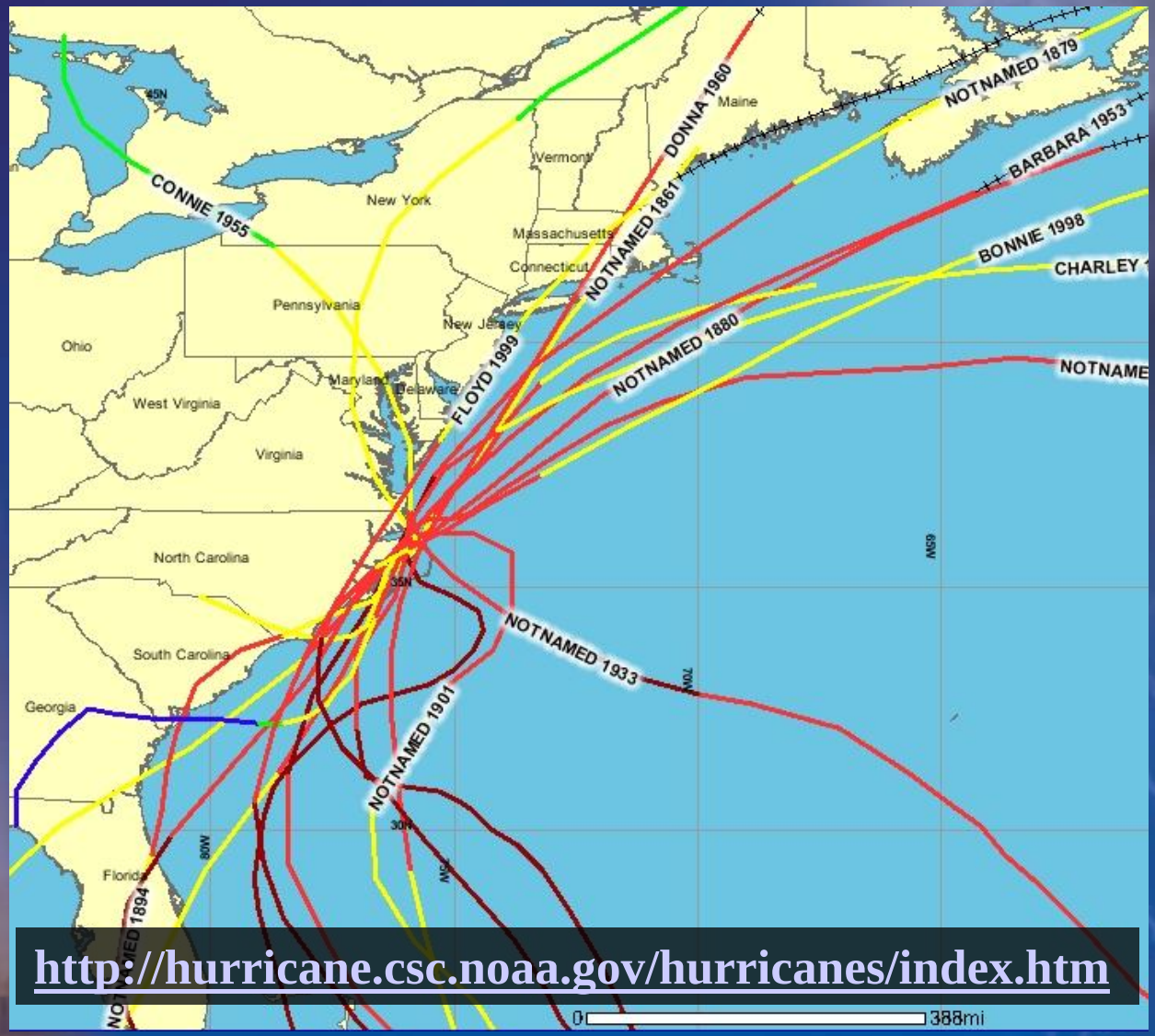
CHART 4



MAXIMUM SUSTAINED WIND NEAR STORM CENTER (1-minute average in knots)

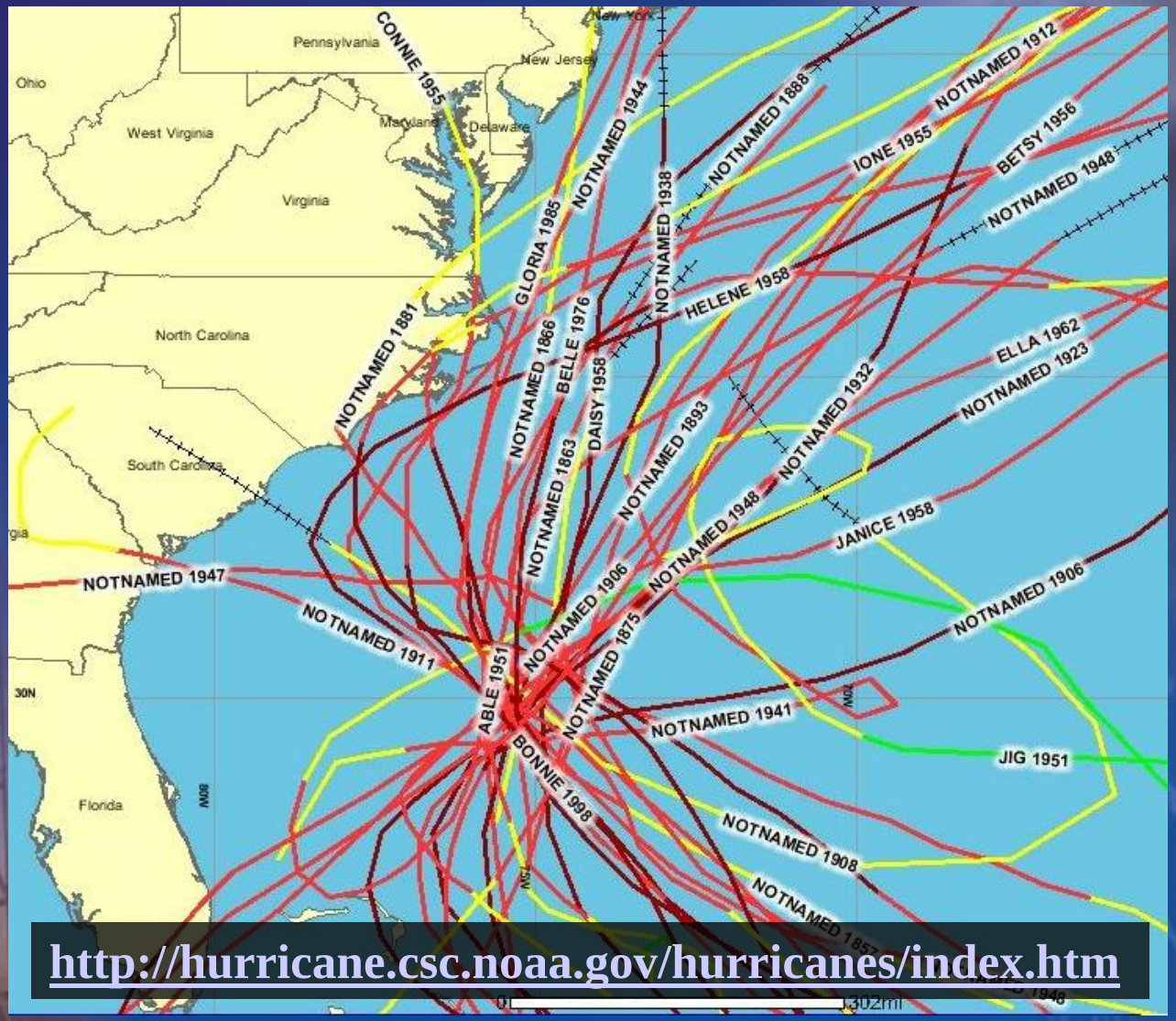
CHART 9A

Norfolk Hurricane Climatology (1850-2003)



http://hurricane.csc.noaa.gov/hurricanes/index.htm

Hurricane Climatology - 30N75W (1850-2003)



http://hurricane.csc.noaa.gov/hurricanes/index.htm

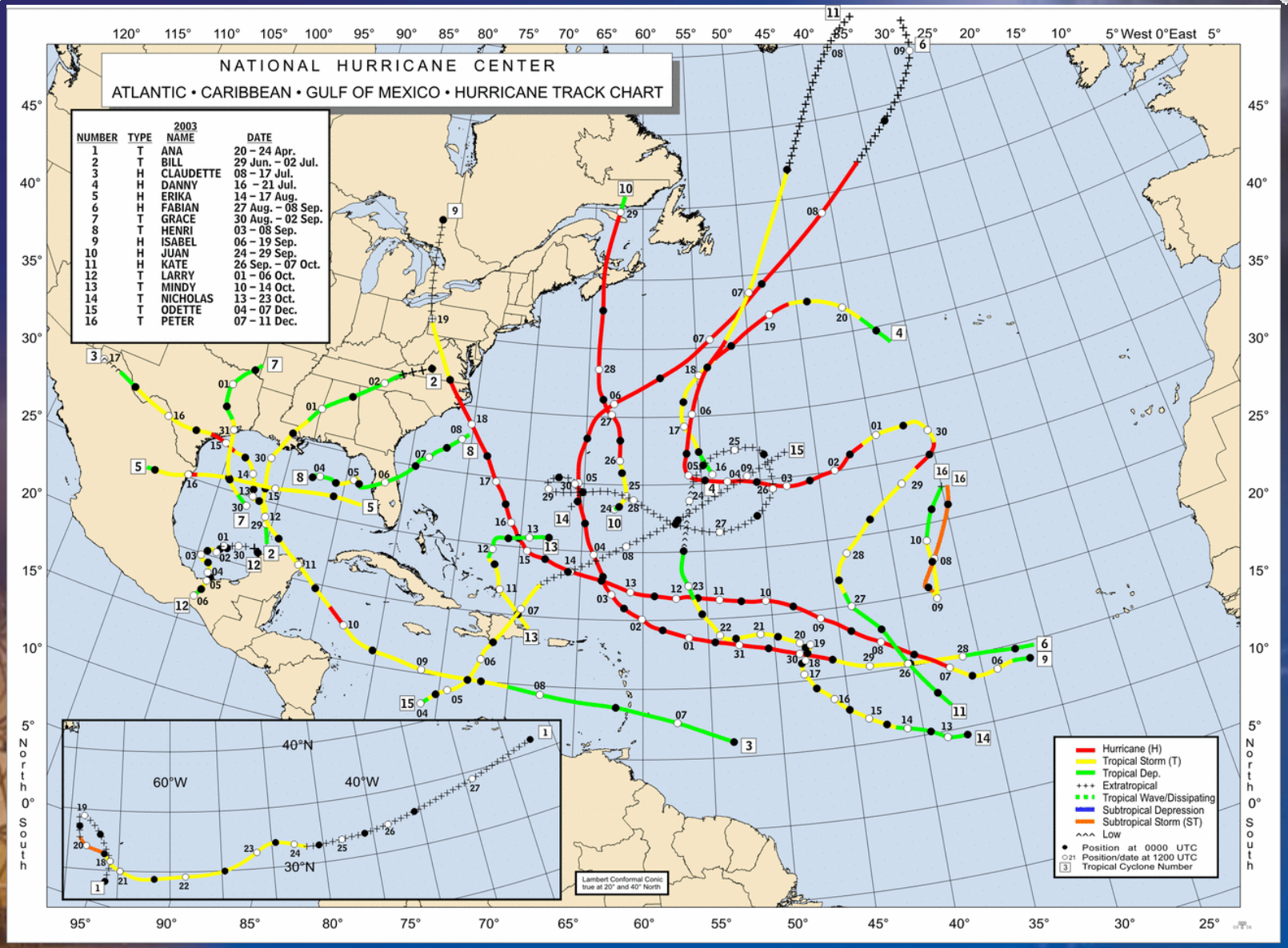
Hurricane Climatology - 30N77.5W (1850-2003)

http://hurricane.csc.noaa.gov/hurricanes/index.htm

Hurricane Climatology - 25N75W (1850-2003)

http://hurricane.csc.noaa.gov/hurricanes/index.htm

2003 Hurricane Season



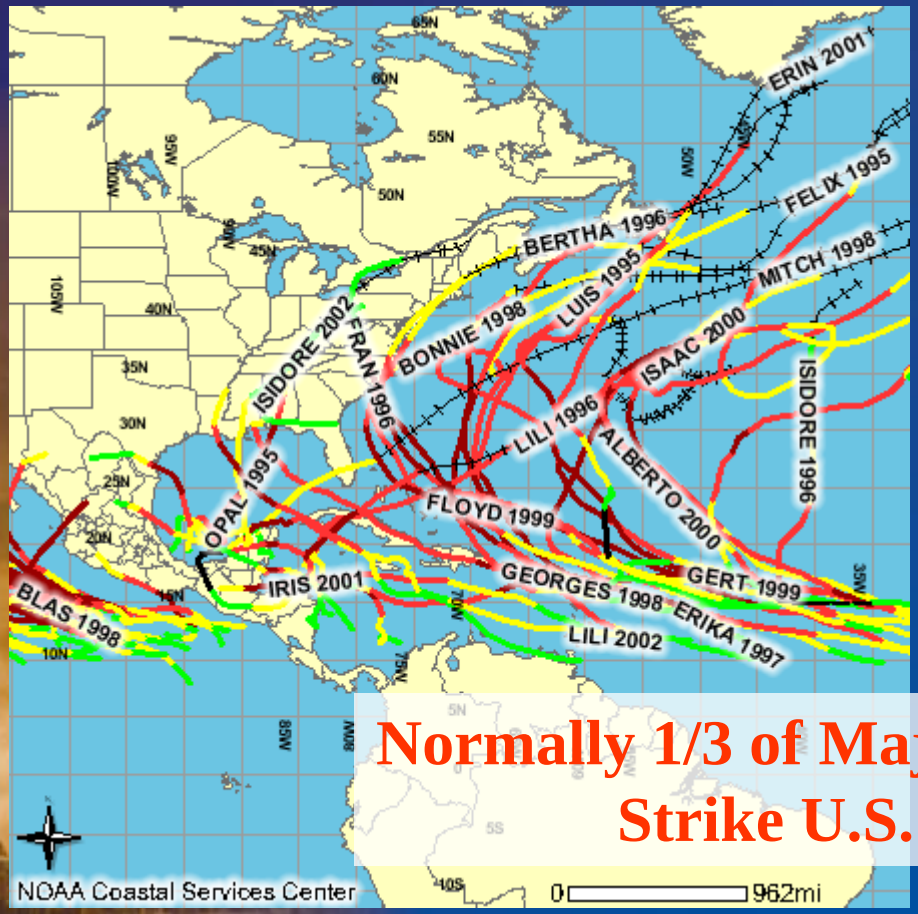
NUMBER	TYPE	2003 NAME	DATE
1	T	ANA	20 – 24 Apr.
2	T	BILL	29 Jun. – 02 Jul.
3	H	CLAUDETTE	08 – 17 Jul.
4	H	DANNY	16 – 21 Jul.
5	H	ERIKA	14 – 17 Aug.
6	H	FABIAN	27 Aug. – 08 Sep.
7	T	GRACE	30 Aug. – 02 Sep.
8	T	HENRI	03 – 08 Sep.
9	H	ISABEL	06 – 19 Sep.
10	H	JUAN	24 – 29 Sep.
11	H	KATE	26 Sep. – 07 Oct.
12	T	LARRY	01 – 06 Oct.
13	T	MINDY	10 – 14 Oct.
14	T	NICHOLAS	13 – 23 Oct.
15	T	ODETTE	04 – 07 Dec.
16	T	PETER	07 – 11 Dec.

2003 ATLANTIC HURRICANE SEASON STATISTICS

NAME	DATES	MIN. PRESS (MB)	MAX. WINDS (MPH)	DEATHS	U.S. DAMAGE
TS ANA	20-24 APR	995	60	2	
TS BILL	29 JUN -2 JUL	997	60	4	50
H CLAUDETTE	8-17 JUL	979	90	1	180
H DANNY	16-21 JUL	1000	75		
H ERIKA	14-17 AUG	986	75	2	
H FABIAN	27 AUG -8 SEP	939	**145**	8	
TS GRACE	30-31 AUG	1007	40		
TS HENRI	3-8 SEP	997	60		
H ISABEL	6-19 SEP	915	**165**	17	$3370 MIL.
H JUAN	24-29 SEP	969	105	2	
H KATE	25 SEP– 7 OCT	952	**125**		
TS LARRY	1-6 OCT	993	65	5	
TS MINDY	10-14 OCT	1002	45		
TS NICHOLAS	13-23 OCT	990	70		
TS ODETTE	4-7 DEC	993	65	8	
TS PETER	7-11 DEC	990	70		

Major Hurricanes 1995-2003

32 Major Hurricanes over Atlantic Basin



3 U.S. Landfalling Major Hurricanes

Normally 1/3 of Major Atlantic Hurricanes Strike U.S. Coastal Areas

2003 Hurricane Season