

Diamond Shoals Light, NC [Hatteras] (DSL7)

Averages for 1991-2000		
	Sep 13-18	Oct 4-9
Wind speed	6.5	8.9
Peak gust speed	7.2	9.9
Significant wave height	1.3	1.7
Dominant wave period	9.1	8.2
Average wave period	5.8	5.6
Air temperature	76.0	71

Data source: National Data Buoy Center.

Buoy Name: Diamond Shoals Light, NC, located just off Cape Hatteras (buoy id=DSL7)

http://www.ndbc.noaa.gov/station_page.phtml?station=dsl7

Historical data was obtained at:

http://www.ndbc.noaa.gov/station_history.phtml?station=dsl7

I extracted the raw hourly buoy data from "Standard Meteorological Data" for years 1991-2000, performed basic data reduction, and calculated the descriptive statistics. The data was not normalized.

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September

WSPD: Wind speed

Mean	6.5
Median	5.7
Mode	4.4
Standard Deviation	4.4
Range	35.9
Minimum	0.0
Maximum	35.9

GST: Peak gust speed

Mean	7.2
Median	6.3
Mode	4.1
Standard Deviation	4.9
Range	40.2
Minimum	0.0
Maximum	40.2

WVHT: Significant wave height

Mean	1.3
Median	1.1
Mode	0.9
Standard Deviation	0.6
Range	4.2
Minimum	0.5
Maximum	4.7

DPD: Dominant wave period (sec)

Mean	9.1
Median	8.3
Mode	10.0
Standard Deviation	2.4
Range	13.1
Minimum	3.6
Maximum	16.7

APD: Average wave period

Mean	5.8
Median	5.5
Mode	5.5
Standard Deviation	1.0
Range	6.1
Minimum	4.0
Maximum	10.1

ATMP: Air temperature

Mean	76
Median	77
Mode	79
Range	49
Minimum	66
Maximum	83

October

WSPD: Wind speed

Mean	8.9
Median	8.3
Mode	8.4
Standard Deviation	4.8
Range	31.6
Minimum	0.0
Maximum	31.6

GST: Peak gust speed

Mean	9.9
Median	9.3
Mode	9.3
Standard Deviation	5.3
Range	35.4
Minimum	0.0
Maximum	35.4

WVHT: Significant wave height

Mean	1.7
Median	1.3
Mode	0.9
Standard Deviation	1.0
Range	5.5
Minimum	0.4
Maximum	5.9

DPD: Dominant wave period (sec)

Mean	8.2
Median	7.7
Mode	10.0
Standard Deviation	1.9
Range	10.6
Minimum	3.7
Maximum	14.3

APD: Average wave period

Mean	5.6
Median	5.5
Mode	5.0
Standard Deviation	0.8
Range	4.2
Minimum	4.0
Maximum	8.2

ATMP: Air temperature

Mean	71
Median	73
Mode	73
Range	63
Minimum	51
Maximum	83