



National Data Buoy Center

Center of Excellence in Marine Technology



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Station 46042 - MONTEREY - 27NM West of Monterey Bay, CA.

Owned and maintained by National Data Buoy Center

3-meter discus buoy

DACT payload

36.75 N 122.42 W (36°45'11" N 122° 25'21"W)

Site elevation: sea level

Air temp height: 4 m above site elevation

Anemometer height: 5 m above site elevation

Barometer elevation: sea level

Sea temp depth: 0.6 m below site elevation

Water depth: 1,920.0 m

Watch circle radius: 2,175 yards

["Potential Explosion Hazard Exists for this Buoy"](#)

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NEW! [Latest Satellite Wind Map for this Area](#)



Click on the graph icon in the table below to see a time series plot of the last five days of that observation.

Unit of Measure: Time Zone:

Conditions at 46042 as of
(11:00 am PDT)
1800 GMT on 07/16/2003:

	Wind Direction (WDIR):	NW (320 deg true)
	Wind Speed (WSPD):	17.5 kts
	Wind Gust (GST):	19.4 kts
	Wave Height (WVHT):	6.2 ft
	Dominant Wave Period (DPD):	8 sec
	Atmospheric Pressure (PRES):	29.95 in
	Pressure Tendency (PTDY):	+0.02 in (Rising)
	Air Temperature (ATMP):	55.2 °F
	Water Temperature (WTMP):	54.0 °F

Continuous Winds

TIME (PDT)	 WDIR	 WSPD
10:50 am	NW (317 deg)	16.9 kts
10:40 am	NW (317 deg)	17.7 kts
10:30 am	NW (316 deg)	18.1 kts
10:20 am	NW (318 deg)	18.1 kts
10:10 am	NW (312 deg)	18.8 kts
10:00 am	NW (314 deg)	17.1 kts

Previous 24 observations

MM	DD	HH	WDIR	WSPD	GST	WVHT	DPD	APD	MWD	PRES	PTDY	ATMP	WTMP	DEWP	SAL	VIS	TIDE
		PDT		kts	kts	ft	sec	sec		in	in	°F	°F	°F		mi	ft
07	16	10 am	NW	15.5	19.4	5.9	8	5.6	NW	29.93	+0.01	55.2	53.8	-	-	-	-
07	16	9 am	NW	15.5	17.5	5.9	8	5.6	NW	29.93	+0.03	55.0	53.8	-	-	-	-
07	16	8 am	NW	17.5	21.4	6.2	7	5.6	NW	29.93	+0.03	55.0	53.8	-	-	-	-
07	16	7 am	NNW	19.4	23.3	6.9	8	5.6	NW	29.93	+0.03	55.0	53.8	-	-	-	-
07	16	6 am	NW	19.4	23.3	6.9	8	5.8	NW	29.90	-0.00	55.0	54.0	-	-	-	-
07	16	5 am	NW	19.4	23.3	6.6	8	5.7	NNW	29.90	-0.01	55.2	54.0	-	-	-	-
07	16	4 am	NW	19.4	23.3	6.6	7	5.8	NW	29.90	-0.02	55.9	54.5	-	-	-	-

07	16	3 am	NW	13.6	17.5	6.2	7	5.8	NW	29.91	-0.02	55.2	54.5	-	-	-	-
07	16	2 am	NW	17.5	21.4	6.9	8	6.1	NW	29.91	-0.02	56.1	54.7	-	-	-	-
07	16	1 am	NW	15.5	17.5	6.6	8	5.8	NW	29.91	+0.00	56.1	54.7	-	-	-	-
07	16	12 am	NW	15.5	19.4	6.9	8	5.9	NW	29.92	+0.02	56.1	54.9	-	-	-	-
07	15	11 pm	NW	17.5	19.4	6.9	8	5.9	NW	29.93	+0.02	56.1	55.0	-	-	-	-
07	15	10 pm	NW	17.5	19.4	6.6	8	5.7	NW	29.91	-0.00	56.5	55.0	-	-	-	-
07	15	9 pm	NW	17.5	21.4	6.6	8	5.5	NW	29.90	-0.02	56.5	55.0	-	-	-	-
07	15	8 pm	NW	19.4	21.4	6.6	8	5.8	NW	29.91	-0.02	56.5	55.2	-	-	-	-
07	15	7 pm	NW	17.5	23.3	6.2	8	5.8	NW	29.91	-0.02	56.7	55.2	-	-	-	-
07	15	6 pm	NW	17.5	19.4	6.6	8	6.0	NW	29.92	-0.03	56.7	55.2	-	-	-	-
07	15	5 pm	WNW	19.4	23.3	6.6	8	6.0	NW	29.93	-0.03	56.7	55.2	-	-	-	-
07	15	4 pm	WNW	17.5	19.4	6.9	8	6.0	NW	29.94	-0.03	56.5	55.2	-	-	-	-
07	15	3 pm	WNW	13.6	15.5	6.9	8	6.0	NW	29.95	-0.01	56.1	54.9	-	-	-	-
07	15	2 pm	NW	15.5	19.4	7.2	8	5.8	NW	29.96	+0.00	55.9	54.7	-	-	-	-
07	15	1 pm	NW	19.4	23.3	7.9	8	5.8	NW	29.97	+0.02	55.8	54.5	-	-	-	-
07	15	12 pm	NW	19.4	21.4	7.9	8	6.0	NW	29.96	+0.02	55.2	54.5	-	-	-	-
07	15	11 am	NW	19.4	23.3	7.9	8	5.9	NW	29.96	+0.03	55.2	54.5	-	-	-	-

Click on the graph icon in the table below to see a time series plot of the last five days of that observation.

Unit of Measure: English Time Zone: Station Local Time Select

[Detailed Wave Summary](#) for 46042 as of (11:00 am PDT) 1800 GMT on 07/16/2003:

	Significant Wave Height (H0):	6.2 ft
	Swell Height (SwH):	3.3 ft
	Swell Period (SwP):	14.3 sec
	Swell Direction (SwD):	S
	Wind Wave Height (WWH):	5.2 ft
	Wind Wave Period (WWP):	7.7 sec
	Wind Wave Direction (WWD):	NW
	Wave Steepness (STEEPNESS):	STEEP



Average Wave Period (AVP):

5.9 sec

Previous 24 observations

MM	DD	HH	H0	SwH	SwP	SwD	WWH	WWP	WWD	STEEPNESS	AVP
		PDT	ft	ft	sec		ft	sec			sec
07	16	10 am	5.9	4.3	7.7	NW	4.3	3.8	NW	STEEP	5.6
07	16	9 am	5.9	3.9	7.7	NW	4.3	4.0	NW	STEEP	5.6
07	16	8 am	6.2	3.6	14.3	S	5.2	7.1	NW	STEEP	5.6
07	16	7 am	6.9	3.6	8.3	NW	5.9	4.8	NW	AVERAGE	5.6
07	16	6 am	6.9	2.3	14.3	SSE	6.6	7.7	NW	STEEP	5.8
07	16	5 am	6.6	2.3	14.3	SSE	6.2	7.7	NNW	STEEP	5.7
07	16	4 am	6.6	2.3	14.3	SW	6.2	7.1	NW	STEEP	5.8
07	16	3 am	6.2	4.3	7.1	NW	4.6	4.3	NW	STEEP	5.8
07	16	2 am	6.9	3.9	8.3	NW	5.9	4.8	NW	AVERAGE	6.1
07	16	1 am	6.6	4.6	7.7	NW	4.6	4.8	NW	STEEP	5.8
07	16	12 am	6.9	4.9	8.3	NW	4.9	4.8	NW	AVERAGE	5.9
07	15	11 pm	6.9	-	-	-	6.9	7.7	NW	STEEP	5.9
07	15	10 pm	6.6	4.9	8.3	NW	4.3	5.0	NW	AVERAGE	5.7
07	15	9 pm	6.6	4.6	7.7	NW	4.3	4.2	NNW	STEEP	5.5
07	15	8 pm	6.6	4.6	8.3	NW	4.9	6.2	NW	AVERAGE	5.8
07	15	7 pm	6.2	3.9	7.7	NW	4.9	4.3	NW	STEEP	5.8
07	15	6 pm	6.6	4.6	8.3	NW	4.6	3.4	NW	AVERAGE	6.0
07	15	5 pm	6.6	4.6	8.3	NW	4.6	3.6	NNW	AVERAGE	6.0
07	15	4 pm	6.9	3.9	8.3	NW	5.6	4.5	NW	AVERAGE	6.0
07	15	3 pm	6.9	5.2	8.3	NW	4.6	4.5	NW	AVERAGE	6.0
07	15	2 pm	7.2	4.3	8.3	NW	5.9	5.0	NNW	STEEP	5.8
07	15	1 pm	7.9	4.6	8.3	NW	6.2	5.0	NNW	STEEP	5.8
07	15	12 pm	7.9	-	-	-	7.9	8.3	NW	STEEP	6.0
07	15	11 am	7.9	3.3	16.7	SSW	7.2	8.3	NW	STEEP	5.9

[Plot of wave energy versus frequency \(and period\)](#)

[Description of Measurements](#)

Links which are specific to this station are listed below:

[Real Time Data](#) in tabular form for the last forty-five days.

[Historical Data & Climatic Summaries](#) for quality controlled data for the current month, previous months, and previous years.

The [weekly status report](#) and the [weekly maintenance report](#) also provide valuable station information.

Note that the [payload types](#) and the station locations occasionally change. Please refer to the [NDBC data inventory](#) for the data history of each station.