

Data Format of Ocean Data Buoy Observations

Observation data of each buoy are stored in each file named "yy-nn.txt". Where yy shows the year and nn is the consecutive number assigned in order of deployment in the year.

Table 1: File format of Drifting ocean data buoys.

Element	Start Position	Field Type	Description of Field
Buoy number	1	I5	WMO station index number.
Year	7	I4	
Month	12	I2	
Day	15	I2	
Hour	18	I2	The Coordinated Universal Time.
Latitude			
N or S	21	A1	N:North, S:South.
Degrees	23	I5	Latitude in degrees to thousandths.
Longitude			
E or W	29	A1	E:East, W:West.
Degrees	30	I6	Longitude in degrees to thousandths.
Air pressure	37	I5	Air pressure in hPa to tenths.
Sea surface temp.	43	I3	Sea surface temperature in degrees centigrade to tenths.
Wave height	47	I3	Significant wave height in meters to tenths.
Wave period	51	I2	Significant wave period in seconds.

Data Record Layout

Drifting ocean data buoys

Wave	period		50
	(blank)		
	height		
	(blank)		
Sea surface temp.			45
	(blank)		
Air pressure			40
	(blank)		
Position	Longitude		35
			30
	E/W		
	(blank)		
	Latitude		25
	(blank)		
	N/S		
	(blank)		20
Date/Time(UTC)	Hour		15
	Day		
	Month		10
	Year		
	(blank)		
Buoy number			5