

On June 26 to 28 a new and longer vibracoring system of tested and used to sample along a 130 long transect within the axis of upper Monterey Canyon. This transect was positioned within a wave field based on AUV multibeam data that was collected on June 18<sup>th</sup>. the cores were all located with respect to a Homer Beacon that was placed during the first dive and removed at the end of the third day. The core sites within 60 m of the beacon were selected by diving to the beacon, then moving off on a course of 290° or 110° to a pre-selected distance. Core sites further away were approached using ROV navigation to locate the general area (~10 m), then the beacon to record the range. Eighteen cores were collected along this transect.

One additional test core was taken at a site where the bottom was suspected to be softer (V-3047, core tube S).

#### Wave field core data

Ventana dive #	Core tube	Range from beacon (m)	Bearing from beacon	Water depth (m)	Time (PDST)	Core length (cm)**
26 June 2007 MBARI Cruise ID 3676						
V-3029	A	0	-	285.3	9:10	97 ****
V-3030	B	-7	ESE	285.0	10:56	66
V-3031	C	8.3	WNW	286.5	12:25	73
V-3032	D	17.3	WNW	286.5	13:45	160
V-3033	E	30.6	WNW	286.1	15:00	176
27 June 2007 MBARI Cruise ID 3677						
V-3034	F	38.8	WNW	286.4	08:15	111
V-3035	G	53.0	WNW	288.7	09:15	95
V-3036	H	60.6	WNW	288.5	10:15	149
V-3037	I	66.7	WNW	288.4	11:25	138
V-3038	J	75.5	WNW	288.2	12:30	49
V-3039	K	76.1	WNW	288.1	13:30	101
V-3040	L	84.2	WNW	288.5	14:40	99
28 June 2007 MBARI Cruise ID 3678						
V-3041	M	43.1	WNW	286.7	08:10	150
V-3042	N	-16.1	ENE	284.5	09:15	110
V-3043	O	-30.4	ENE	283.9	10:12	157
V-3044	P	-40.2	ENE	284.1	11:15	200
V-3045	Q	94.1	WNW	290.0	12:25	64
V-3046	R	0	*	285.0	13:25	61
V-3047***	S			381.0	14:55	307

\* - 3 m south of beacon

\*\* length of actual core may be less.

\*\*\* test core not part of transect (36° 47.59' N, 121° 53.16' W)

\*\*\*\* (length with piston still inside?)