

Dive No.	K 206		Date	2001/08/30	
PI	Name		Affiliation		
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Specialty	Geology				
Purpose	Examine structure related flat top and steep cone				
Area	Southwest Oahu				
Site	One of the flat top cone and steep cone				
	Latitude	Longitude	Time	Depth	
Landing	20° 38.83' N	158°48.08' W	9:40	3999 m	
Leaving	20° 39.04' N	158°46.82' W	14:17	3610 m	
Dive Distance	2200 m		Deepest point	4002 m	
Dive summary	<p>In order to understand geological relationship between flat-topped cone and steep pointed volcanic cone, dive K206 was conducted one of the flat-topped cone and steep pointed cone complex in the area of southwest Oahu on August 30, 2001. K206 traversed 2.2 km east from the base of the western slope of the flat-topped cone and up to the highest place of the steep pointed cone.</p> <p>The outcrops of the flat-topped cone are composed mainly elongated pillow lavas, but of the steep pointed cone are rubble slope with bulbous pillow, which are cemented together by thick ferromanganese crust. We could not observe the contact of the cones due to covering of thick soft sediment. The rock collected from the flat-topped cone and from the steep pointed cone is also different. The former is dense aphyric basalt and the later is highly vesicular aphyric basalt. This may suggest that geographical difference between the cones correspond to volatile content of the magma.</p>				
Payload	Sample basket, sample box, 4 push core samplers				
Visual Records	VTR1, Still Camera				
Sample	18 rocks (lost 2 during recovery), 4 push core				
Video highlights	(1) 9:42-9:50 muddy bottom with rock fragments (2) 10:42 -10: 58: elongated pillow and sheet flow (3) 13:51-1354: cemented lava rubble				
Key words	Flat top cone, pillow lava, steep pointed cone				