

Dive No.	K 213		Date	2001/09/10	
PI	Name		Affiliation		
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Specialty	Marine geology				
Purpose	The documentation of internal structure and rock types in the deep bench of the Laupahoehoe is important to understand the formation process of submarine benches of Hawaiian volcanoes, in comparison with the Hilina slump. These also may provide the information of early stage of Kohala volcano.				
Area	Laupahoehoe, north flank of Kohala				
Site					
	Latitude	Longitude	Time	Depth	
Landing	20 °24.83' N	155°11.90' W	09:43	4467 m	
Leaving	20 °23.30' N	155°13.04' W	14:36	3320 m	
Dive Distance	3150 m		Deepest point	4471m	
Dive summary	We landed at the water depth of 4471 m, in the foot of lower bench of Laupahoehoe slump. Two dominant lithologies were identified during the diving: lower sheets of olivine-rich picritic basalt, and upper finer-grain volcanics. The contact between both lithologies is unclear. The olivine basalt in the lower portion of bench, shows vesicularity of about 10 %. Upper volcanics are characterized by volcanic breccia in sandy matrix.				
Payload	Nine sample baskets, four push cores				
Visual Records	VTR (Broadcasting grade), VTR(center, right & left), still camera				
Sample	Rock:27 samples Push core: 4				
Video highlights	(1)11:35-11:38      (2) 11:50-11:53      (3) 13:48-13:50 Jointed rock      Surface of sheet lava      Volcanic breccia				
Key words	Laupahoehoe bench,, Kohala,, picrite, volcanoclastic rocks				