

Dive No.	K 210		Date	2001/09/05	
PI	Name		Affiliation		
Japanese	中川 光弘		北海道大学地球科学		
English	Mitsuhiro Nakagawa		Department of Earth & Planetary Sciences, Hokkaido University		
Specialty	Petrology, Volcanology and Geochemistry				
Purpose	Geological mapping and rock sampling				
Area	South Kona landslide				
Site	Steep slope of bench				
	Latitude	Longitude	Time	Depth	
Landing	18° 53.21' N	156° 3.8' W	09:30	3918 m	
Leaving	18° 54.00' N	156° 2.36' W	14:32	2784 m	
Dive Distance	2900 m		Deepest point	3918 m	
Dive summary	<p>The South Kona landslide from Mauna Loa volcano can be divided into two, the outer and inner areas. The dive K-210 investigated the slope of the bench in the inner area. The slope is mainly composed of debris flow deposits often with massive sandstone and hyaloclastite layers, striking NE and dipping E. These deposits show fractured structure, and jigsaw like crack is commonly observed, suggesting these have been deformed before emplacement. Nearly top of the bench is covered by hyaloclastite dipping nearly flat. Blocks in the debris flow deposits are mainly lavas, showing subrounded shapes with various vesicularity. Oxidized blocks are also found. No pillow lavas are recognized. These suggest that lavas are derived from subaerial eruption. The lavas are aphyric to porphyritic olivine basalt, which must be relatively earlier lavas of Mauna Loa volcano.</p>				
Payload	1 sample basket (large), 1 sample box (small), 4 push core sampler				
Visual Records	VTR (Broadcasting grade), VTR (center, right & left), Still camera: 296				
Sample	Rocks: 24 (two samples were lost during ascending), Cores: 3				
Video highlights	(1) 9:37 – 9:48 (2) 11:01 – 11:44 (3) 12:53 – 12:55 (4) 14:20 – 14:28				
Key words	South Kona, Mauna Loa. landslide, debris flow, jig-saw crack				