

Dive No.	K 204		Date	2001/08/28	
PI	Name		Affiliation		
Japanese	中川 光弘		北海道大学地球科学科		
English	Mitsuhiro Nakagawa		Department of Earth & Planetary Sciences, Hokkaido University		
Specialty	Petrology, Volcanology and Geochemistry				
Purpose	Geological mapping and rock sampling				
Area	Alkaline (?) volcanic field, located 80 km west of Oahu island				
Site	Gently sloped cone at southwestern part of the volcanic field				
	Latitude	Longitude	Time	Depth	
Landing	21° 30.20' N	159° 6.1' W	09:45	4211 m	
Leaving	21° 31.27' N	159° 6.32' W	14:41	4025 m	
Dive Distance	2815 m		Deepest point	4213 m	
Dive summary	<p>Dive K-204 focused on one of the lava cones in the area at west of Oahu island. The cone has a flat top (500 m in a diameter) with a gentle slope (2 km in a diameter and 150 m of elevation), and is composed mainly of pillows accompanied with small amount of sheet flows. The top of the cone is covered by thick sediments, and did not show crater, suggesting that the cone had tapped lava at the top to form a lava lake. Most of the collected samples are nearly non-altered, dense pillows of Ol-(Pl) phyric basalt, with relatively thick quench glass rinds (5 ~ 15 mm in thick). One vesiculated sample is also collected at the flank of the cone. Mn-coating and paragonite layer are thinner than 1 mm in thick, indicating that these samples are possibly younger than 1~0.5 Ma.</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: 16, Cores: 2				
Video highlights	(1) 13:06 - 13:12 (2) 13:24 – 13:45 (3)				
Key words	West Ohahu, Flat cone, Pillow lavas, Arch lavas				