

Dive No.	K208		Date	2001/09/04	
PI	Name		Affiliation		
Japanese	木村純一		島根大学		
English	Jun-Ichi Kimura		Shimane University		
Specialty	Volcanology, Geochemistry				
Purpose	Geological observation and rock sampling along the western ridge on the upper slope of the Hilina Bench				
Area	Hilina Bench, SE of the main island				
Site	Upper slope ridge of the Hilina Bench				
	Latitude	Longitude	Time	Depth (m)	
Landing	19°7.81' N	155°6.12' W	0930	2586	
Leaving	19°8.98' N	155°7.72' W	1440	2082	
Dive Distance	2000m		Deepest point		2600m
Dive summary	<p>We landed near the bottom flat at the base of upper slope ridge in the western part of the Hilina Bench. Light colored soft sediment cover of sand grain size occurred at the site. As soon as steeper slope appeared, we observed piles of pillow lavas with rounded pillow structure, radial crack, and sometimes brecciated matrix. Pillow lava structures are very well preserved, and cut section of pillow lava occurred always, suggesting that the cliff was not the lava surface. At the middle of the dive course, layered sediment was exposed and it was relatively consolidated but not hard enough to collect with a manipulator. In the upper half of the cliff, pillow lavas, which are similar with the lower half, occurred and the outcrop continued up the ending point of the dive. All of the pillow lava samples are aphyric basalt, which are not similar to those exposed in the upper slope of the eastern Hilina Bench.</p>				
Payload	One sample basket (divided by 9 boxes), 4 push core samplers				
Visual Records	VTR1, Still camera				
Sample	Rocks: 14 sites with 16 samples Cores: one				
Video highlights	2538: pillow lavas, 2496-2348: pillow lava outcrop, 2443-2082: pillow lava outcrop, 2273: hard layered sediments				
Key words	Hilina Bench, pillow lava				