

# Heat flow distribution around the Hatsushima cold seep community using Navigable Sampling System

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During the KY04-11 cruise, detailed heat flow distribution was obtained using Navigable Sampling System (NSS) around the Hatsushima cold seep community in the western Sagami Bay. Biological communities are basically aligned along the NNE-SSW trending escarpment. Heat flow is higher than  $1\text{W/m}^2$  within 200m from the cold seep communities. Along the escarpment heat flow is higher than  $1\text{W/m}^2$  even where we see no active colonies. On the other hand, we found some relatively low heat flow zone next to the colonies, which may be indicative of a supply of seawater into the sediment.