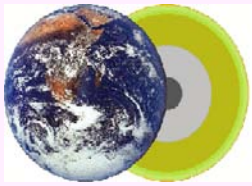
Geodynamics Seminar

第343回ジオダイナミクスセミナー

Deep magma feeding system of Fuji volcano, Japan: High-pressure experimental study using 850MPa HIP apparatus

EiichiTakahashi, Kenta Asano (EPS, Tokyo Institute of Technology)
Toshihiro Suzuki (JAMSTEC)
Junichi Nakajima (Tohoku University)

主催：愛媛大学地球深部ダイナミクス研究センター
日時：11/22（木）午後 4時30分～
場所：総合研究棟 4F 会議室



EHIME UNIVERSITY GRC GEODYNAMICS RESEARCH CENTER

Abstract

Fuji volcano is known for its perfect cone shape and it is the largest among Japanese Quaternary volcanoes. For the last 100kya, Fuji has erupted dominantly basalt magma (>>99 vol%). The origin of the voluminous yet monotonous basalt production in Fuji volcano have been discussed but remain unanswered. Here we report the first high-pressure melting experimental results on Fuji Basalt (Hoei-IV, AD1707) and demonstrate that its main magma chamber is located at ca.25km depth. We also show seismic tomographic images of Fuji volcano for the first time, which reveal the existence of strong upwelling flow in the mantle and its connection to the voluminous lower crustal magma chamber.

詳細は当センターホームページ: http://www.ehime-u.ac.jp/~grc/をご覧ください
問い合わせ先：桑山 靖弘（TEL:089-927-8408,e-mail:kuwayama@sci.ehime-u.ac.jp）