Rock magnetic property of the volacanic rocks in Huahine Island, French Polynesia

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Rock magnetic properties of the lavas and dikes from Huahine Island, French Polynesia, are investigated to obtain reliable data of paleointensity. The samples from 21 sites consist mainly of titanomagnetites (Shimura et al, 1999) and their K-Ar ages are estimated to be 2.5-3.2 Ma. Alternating field demagnetizations and hysteresis measurements at the room temperature reveal that Mr/Ms is positively correlated with MDF. According to the Day plot, two sites are in the SD area and have high MDF of 41 and 47 mT. Others fall in the PSD area and exibit the mixture of SD and MD size particles under the optical reflection microscope. Those MD grains show oxidation indexes (Wilson and Watkins, 1967) between I-III.

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