

Mapping the Helium isotope ratio of groundwater in Izu Peninsula

Masao Ohno[1], Hirochika Sumino[2], Aya Shimizu[3], Keisuke Nagao[4], Kenji Notsu[5]

[1] Dept. Earth Science, Kyushu Univ., [2] Lab. Earthquake Chem., Univ. Tokyo, [3] Lab. Earthquake Chem., Grad. School Sci., Univ. Tokyo, [4] Lab. Earthquake Chem., Univ. Tokyo, [5] Lab. Earthquake Chem., Univ. Tokyo

We analyzed the isotopic compositions of noble gases in hot spring water to investigate the crustal activity in the Izu Peninsula. $^3\text{He}/^4\text{He}$ ratio was as high as 3 ~ 8 R_{atm} , and its distribution has similar shape as the distribution of Higashi Izu monogenic volcano group.