

Studies of the Earth's Interior and Geochemistry

IWAMORI, Hikaru^{1*}

¹Japan Agency for Marine-Earth Science and Technology, ²Tokyo Institute of Technology

In this presentation, I would like to discuss the following points, in terms of the relationship between studies of the Earth's interior and geochemistry, referring to several examples from the combined studies. First, geochemistry concerns both geoscience and chemistry. How we balance the two does matter for both geochemists and the others. Second, how we relate mechanisms and processes of an elemental scale to global scale-phenomena requires some concrete methods which lie often outside geochemistry. An approach bridging the two scales may play an important role. Third, since the Earth (and the planetary) system is highly complex, there is no doubt that combining information available from all geoscience fields (including geochemistry) is crucial. As an example, 'Geofluid Map' in the crust and mantle is discussed.