

"Island Arc Crustal Energy"- Grant-in-Aid for Scientific Research on Innovative Areas in KAKENHI-

*Noriyoshi Tsuchiya¹, Yasuo Ogawa², Hiroshi Asanuma³

1. Graduate School of Environmental Studies, Tohoku University, 2. Volcanic Fluid Research Center, Tokyo Institute of Technology, 3. AIST-FREA

Subduction system of oceanic plate is reconsidered as an energy system, which means inputs of energy and material and outputs of energy and material such as volcano, earthquake, terrestrial heat flow and geofluid flow. We have to estimate energy balance, material balance in subduction system, and then we consider geothermal energy for human beings and social relationship between earth scientific energy and social acceptance. We are planning to apply Grant-in-Aid for Scientific Research on Innovative Areas in Application Procedures for Grants-in-Aid for Scientific Research-KAKENHI after FY 2018.

Structure

General Management

A group

Island Arc Crustal Energy System

A-1: Geomaterial energy system

A-2: Terrestrial measurement energy system

B Group Island Arc material System

B-1: Chemical circulation

B-2: Transport Phenomena

C Group Technology for Island Arc Crustal Energy

C-1: Exploration Technology

C-2: Drilling Technology

C-3: Simulation Technology

D Social Acceptance of Island Arc Crustal Energy

D-1: SLO (Social License to Operate)

D-2: Energy Economics

Keywords: Island Arc Crustal Energy, Grant-in-Aid for Scientific Research on Innovative Areas, Grants-in-Aid for Scientific Research-KAKENHI