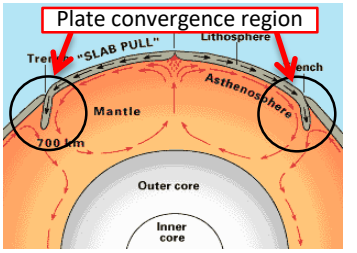


Elucidation of various phenomena in plate convergence regions from the perspective of material sciences

Goals

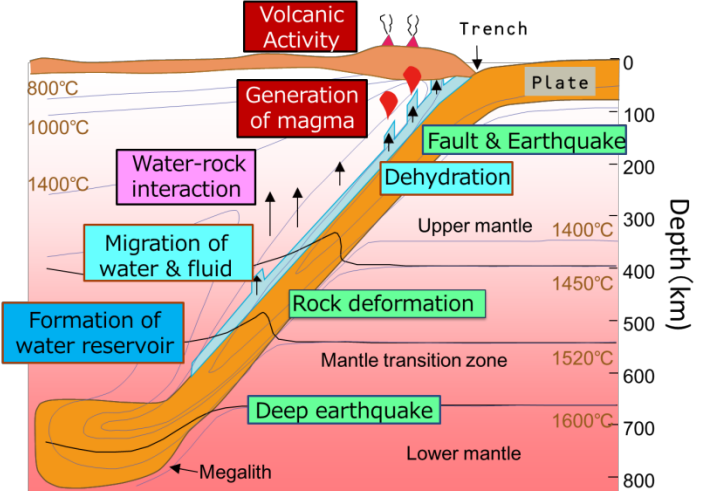
Focusing on the importance of "water-rock interactions" in the plate convergence regions, we aim to elucidate the geoscientific phenomena, especially mechanisms of seismic activity and volcanic activity from the perspective of material sciences.



Mantle convection

Background

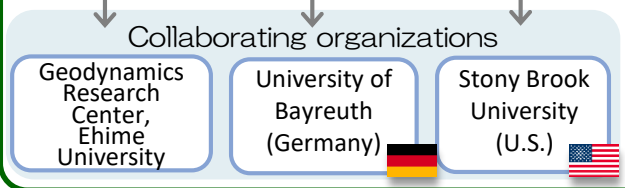
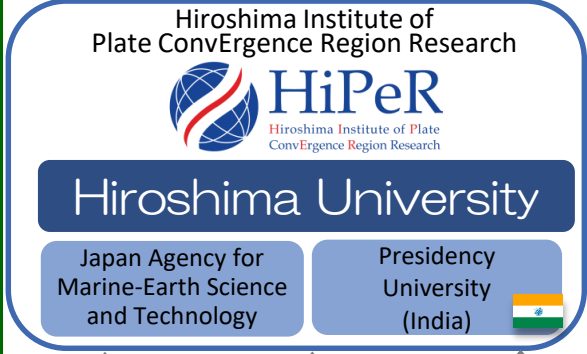
The earth is known as the "water planet", and there is huge amount of water on the surface. This water is brought deep into the earth together with rocks forming the oceanic plate in the plate convergence regions. It is known that this "water" is a trigger for many fluctuation phenomena such as seismic activity and volcanic activity that occur in the regions.



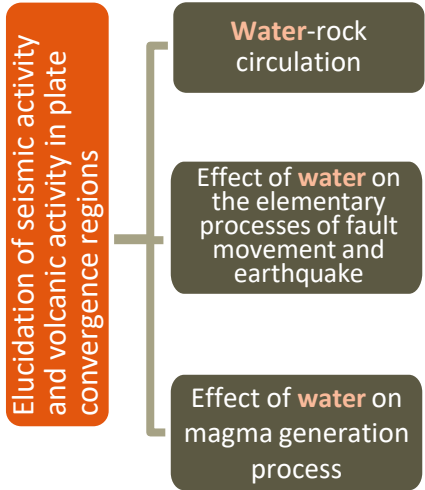
Important phenomena in plate convergence regions

Activities

Collaboration with other institutions



Promotion of research activities



Outcomes

