

Limitation of information-availability on ocean floor and develop a project on accretionary deposits for new global science

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The oldest ocean floor was spread at 190 Ma in Jurassic, because of ocean floor recycling by spreading and subduction. Oceanic plate slabs along trenches would be pulled out before 15 Ma with the plate motion. The detailed calculations on the Euler rotation can be traced back 30 Ma based on magnetic lineation along mid-oceanic ridges. The magnetic lineation can not be recognized for 80-120 Ma of magnetic quiet zone. Because availability of the information on the Earth decreases rapidly with geologic age, we should recognize the difference in the quality of information with geologic age and make effort to find out natural law based on the information in younger age, which could be applied for older ages. Also we should recognize that there is no other information source than the accretionary deposits, and we should develop a project on accretionary deposits for new global science in the age of IODP.