Relative motions of plates and its uncertainty estimated by Polygonal Finite Rotation Method

Yasushi harada [1]

[1] GSI

Former models for relative motions of plates do not agree well with complicated features of fracture zones, and do not reconstruct precise positions of magnetic lineations on the seafloor.
Applying the Polygonal Finite Rotation Method to the relative motions of plates,
a new method for calculating continuous and precise positions of Euler poles for the relative motions of plates is presented using the positions of fracture zones and magnetic lineations.
The statistical estimation for the errors of
the Euler poles can be done for the first time by this method.