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Title: Current Global Absolute Plate Motion

Abstract: Current Global Absolute Plate Motion(***IWG3B****) Wei Ziqing Xian Research Institute of Surveying and Mapping, Xian 710054,China
Email:ziquingw@public.xa.sn.cn Abstract: A global absolute plate motion model has been developed using a set of recent (0-7.5Ma) hotspot tracks globally distributed on most of major plates, in conjunction with the relative motion model NUVEL-1A. New model shows that the Pacific is moving at a rate of 0.8353 ± 0.0085 o/Ma about a pole at 60.053 oS , 101.491 oE , Africa has a slow motion of 0.1016 ± 0.0081 o/Ma about a pole at 45.275 oN , 40.319 oW , whereas Eurasia has an even slower motion at a rate of 0.0596 ± 0.0105 o/Ma about a pole at 27.030 oN , 173.600 oW . According to the model, the lithosphere has a net rotation(westward) of 0.2013 ± 0.0085 o/Ma about a pole at 49.268 oS , 88.494 oE with respect to the mantle.

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