

Creating future of solid Earth science with high performance computing (HPC): Discussion

HINO, Ryota^{1*} ; HORI, Takane² ; HONKURA, Yoshimori³ ; KANEDA, Yoshiyuki² ; ARIKAWA, Taro⁴ ; ICHIMURA, Tsuyoshi⁵ ; TODORIKI, Masaru⁵

¹Tohoku University, ²JAMSTEC, ³Tokyo Institute of Technology, ⁴Port and Airport Research Institute, ⁵University of Tokyo

How the evolution of High Performance Computing (HPC) contributes to progress in earth sciences? We will develop a perspective in the next 10 to 20 years based on comprehensive discussion provided in the session including invited talks. Especially, we will discuss what is necessary for solving the social issues such as improvement of hazard maps, tsunami warning system, long-term forecast, etc. The aim of the concluding discussion is to integrate the opinions of attendees, both speakers and non-speakers, into a proposal for development of next generation HPC as a solution to important problems in terms of scientific breakthrough and social relevance.