
[JJ] Evening Poster | M (Multidisciplinary and Interdisciplinary) | M-GI General Geosciences, Information Geosciences & Simulations

[M-GI26]Earth and planetary informatics with huge data management

convener:Ken T. Murata(National Institute of Information and Communications Technology), Takeshi Horinouchi(Faculty of Environmental Earth Science, Hokkaido University), Rie Honda(高知大学自然科学系理学部門, 共同), Susumu Nonogaki(Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology)

Mon. May 21, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

Increasingly large and complex data are produced by observations and numerical simulations in earth and planetary sciences. The target of this session is to discuss a broad range of practices and new knowledge of informatics, international standard and modelling, including techniques for large-scale data processing and numerical simulation, data preservation and publication, data transfer and collection and other data technologies with a vision to advance an emerging data-intensive science, namely "geoplanetary informatics".

[MGI26-P02]Real-time data processing from 100,000 water level meters via Torque/Maui.

*Kazuya Muranaga¹, Ken T. Murata², Kazunori Yamamoto², Praphan Pavarangkoon² (1.Systems Engineering Consultants Co., LTD., 2.National Institute of Information and Communications Technology)

Assuming a tremendous increase in the amount of data processed in future river information systems, it is an important technology to speed up the water level and rainfall overrun determination process. In addition, establishing a technology to visualize and distribute river information numerical data such as radar data and telemeter data in real time is an important technology. They contribute to speeding up and advancement of information service for facility management for general residents. In this study, a technology for processing and publishing river information data in real time or near real time on the assumption that 1000 registered users are developed for future multipoint river surveillance (100,000 places) data. As a result of real time scheduling by Torque/Maui, it has become possible to send mails to all users from threshold judgment of dangerous water level within 1 minute by one control server and three processing servers.