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The attempt of re-making Japan earthquake catalog based on Japan seismic networks

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Japan Meteorological Agency is making catalog of earthquake which occurred in and around Japan since August, 1923.

Since October 1997, we calculate hypocenter location and magnitude based on seismic data of related organization (JMA, universities, NIED and so on). But, until September 1997, we calculated hypocenter location and magnitude with only JMA seismic data. Therefore, the difference of the detectability of the earthquakes is remarkable on the boundary of October, 1997. Moreover, the detection accuracy of hypocenter location is different every age, because hypocenter determination method is different every age.

Then, we assumed that we re-calculated location of earthquake which occurred before September 1997, based on seismic data of "Earthquake Database of Japan University Seismic Observatory Networks (Umino et al., 2007)", NIED and JMA.

In this time, we will introduce a part of the recalculation result.

Finally, we have a plan to publish final result by the Headquarters for Earthquake Research Promotion.

Reference

Umino, N., S. Hirahara, J. Nakajima, K. Katsumata, M. Kosuga, N. Hirata, T. Kanazawa, S. Sakai, F. Yamazaki, K. Matsumura, S. Kimura, K. Uehira, K. Goto, R. Matsu'ura and K. Tsumura, 2007, Earthquake Database of Japan University Seismic Observatory Networks, abstract of Japan Geoscience Union Meeting 2007, S144-003.

Keywords: Earthquake Catalog, Database of Japan University Seismic networks