The attempt of re-making Japan earthquake catalog based on Japan seismic networks (Part 2)

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Japan Meteorological Agency has been making catalog of earthquake which occurred in and around Japan since August, 1923. Since October 1997, we calculate hypocenter locations and magnitudes based on seismic data of related organizations(JMA, universities, NIED and so on). But, until September 1997, they had been calculated 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 expect improvement of earthquake catalog if we re-calculate 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.

Last year, we got seismic data of NIED(from January 1979 to September 1997) and Japan University Seismic Observatory Networks(from January 1994 to September 1997). And we recalculated seismic events from January 1994 to September 1997 with JMA and these data.

We introduced our recalculation plan at JpGU Meeting 2011.
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


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