

Overall Performance Evaluation of Earthquake Early Warning Algorithm

Masahiro KORENAGA Shunroku YAMAMOTO Shunta NODA

In order to verify the effects of the new earthquake early warning algorithm developed by RTRI, we conducted an overall performance evaluation on the accuracy and promptness of the alarm output during earthquakes. We compared the result of the new earthquake early warning algorithm and that of the current algorithm with respect to the correct answer rate of the area that alarm outputs cover and the ratio of the unnecessary alarms. We also compared the result of the current algorithm and that of the new algorithm on the alarm output timing for each seismic event. As a result, we showed that the accuracy and quickness of the alarm output are improved.