

1.2-O5. Improving the Regional Seismic Travel Time (RSTT) Model Through International Outreach

The Regional Seismic Travel Time (RSTT) model and method have proven to be effective for reducing event location errors. RSTT is openly available and is integrated into the location code used by the International Seismological Centre (ISC). Because the RSTT model is global in extent and travel times can be computed in real time, RSTT is applicable to the whole International Monitoring System (IMS) and any regional networks that might be available. This enables a consistent location to be determined at the International Data Centre and at national data centers, where additional data may be used. The United States and the Comprehensive Nuclear-Test-Ban Treaty Organization are teaming to sponsor international cooperation activities that introduce RSTT at regional workshops around the globe. To date, representatives from over 65 countries have participated in RSTT workshops. After a brief introduction to the method, workshop participants are introduced to the software and they are shown how to compute travel times, use RSTT with the ISC locator, visualize the RSTT model, and edit the model. RSTT workshop participants have contributed regional models and ground-truth location data, all of which have improved the global RSTT model.

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