

International Outreach and Training on the Regional Seismic Travel Time (RSTT) method

The Regional Seismic Travel Time (RSTT) model reduces travel time prediction errors for phases (Pn, Pg, Sn, and Lg), which are commonly used for seismic event location. Reduction of travel time prediction errors leads directly to reduction of event location errors, which is critical to CTBT verification. The CTBTO-PTS has incorporated RSTT into 8 international training activities since 2012. In addition, RSTT has been the focal point of 10 special sessions at scientific conferences. As a result, NDC personnel and academic researchers from Africa, Asia, Australia, Europe, North America, South America, The Middle East, and Oceania, have been trained in the use of RSTT. Training sessions and professional conferences foster international collaborations that have contributed geophysical information and data that improve the RSTT earth model. These improvements extend the geographic coverage of RSTT tomography and supply important ground-truth data that make travel time calculations more accurate in areas where scientific collaboration has taken place. These data contributions and the RSTT model are openly available to all NDCs and the broader research community. The presentation will review RSTT international training sessions and detail the effort to establish RSTT as a standard for the calculation of regional seismic travel times.

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