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RSTT validation studies in the Middle East, Central Asia and the Caucasus

Travel-time predictions from RSTT, a global three-dimensional velocity model of the crust and upper mantle are tested and validated in the Middle East, Central Asia and Caucasus regions. In cooperation with the CTBTO, we organized workshops (e.g. Kazakhstan) to conduct training on RSTT. Using the iLoc location algorithm and ground truth events as benchmark locations we relocated events both with ak135 and with RSTT predictions and compared the accuracy of the locations with respect to the ground truth. We demonstrate that RSTT brings an overall improvement in location accuracy.

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