Seismic Data: Linking Waveforms, Phase Readings & Source Parameters

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Digital recording of broadband seismic data has fundamentally changed seismology. The ISC Bulletin is evolving to facilitate seismological research using sophisticated signal processing and statistical analysis of many data.

Links to Event-Based Products

Moment Tensors:
- Harvard, Berkeley, ERI, BATS, MedNet

Source Parameters:
- Source Time Funcs.
- Mom. Tens. Rate Funcs.

Waveform Data:
- IRIS FARM, SPYDER
- ODC Vols., SPYDER
- GFZ SPYDER

New Types of Locations

The ISC plans to continue publishing locations based on initial arrival times and J.-B. travel times.

As well, however, we are trying out locations using later phase arrivals and travel times from 3-D models.

Links to Contributed Reports

Recently collected data are available in the original format from the ISC home page, and our new database schema will link each datum to its source. We plan to post provisionally processed data in ISF format within the year.

Unassociated Readings

A review of one month from each of the last 17 years of our data archive found that 28% of all contributed readings were not associated with a locatable event, and thus went unpublished. We are re-reading old binary-format files, and plan to post recovered readings as ISF unassociated phases.