



Recent and future ISC products: chances for international collaboration

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Abstract

The International Seismological Centre (ISC) was set up in 1964 with the assistance of UNESCO as a successor to the International Seismological Summary (ISS) in collecting, archiving and processing seismic station and network bulletins and preparing and distributing the definitive summary of world seismicity. The Centre is now not only the repository of past data but is becoming more involved in international seismological projects and contributing to the development of seismology at all levels. The ISC provides tools for efficient research, in the form of a definitive, global, and long-term summaries of Earth's seismicity. These tools consist of a catalog of homogeneous events for seismic hazard and risk assessment, a reference list of events which are located with high accuracy, a catalog of relocated, well-constrained events for seismic tomography purposes. Also, the ISC is one of the main responsible for setting international standards for nomenclature, phase lists, and magnitudes. The aim of the ISC for the next years is to extend its bulletin, including additional data of permanent and temporary networks to build a more complete, and better-constrained catalog. Thus, the cooperation between Brazil and the ISC is fundamental to this aim. This cooperation has increased in the last years owing to the deployment of the Brazilian Seismographic Network (RSBR), a new permanent array of stations, which has allowed to fill a gap in the previous station distribution in South America and enhance the data available to monitor the seismicity in Brazil and neighboring countries. In this talk, I will update the current status of this cooperation showing how the data recorded by the RSBR improved the ISC tools in this part of the globe.

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