

T3.3-P39. iLoc: new developments on the ISC locator

The new location algorithm developed for the International Seismological Centre (ISC) has been operational since January 2011. By providing improved hypocentre and magnitude estimates, the ISC locator has increased the efficiency and productivity of the ISC review process to generate the reviewed ISC bulletin. A new development branch has spun off the ISC locator in 2014, the iLoc locator. iLoc by default supports local and regional travel-time predictions provided by the Regional Seismic Travel Time (RSTT) software package developed by the US DoE National Laboratories. Albeit not fully integrated with SeisComp3, iLoc can communicate with the SeisComp3 database. It also supports the new International Seismic Format (ISF2) as well as the new standards for the International Registry of Seismographic Stations. Further development plans include support for full 3D velocity models, such as LLNL-G3D, as well as for local velocity models. The performance of iLoc is demonstrated by relocating recent, globally distributed events from the PDE bulletin. The iLoc locator can be downloaded from the ORFEUS software depository.

Primary author: BONDAR, Istvan (ELKH Research Centre for Astronomy and Earth Sciences)

Presenter: BONDAR, Istvan (ELKH Research Centre for Astronomy and Earth Sciences)

Track Classification: 3. Advances in sensors, networks and processing