The ISC products and services related to Tibetan Plateau region

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Several seismological agencies are tasked with the rapid determination of parameters of recent earthquakes such as the 2015 Gorkha Mw 7.8 earthquake in Nepal. The main mission of the International Seismological Centre (ISC) is to provide the definitive information on past earthquakes with the reviewed ISC Bulletin usually becoming available approximately two years after event occurrence. Nevertheless, the historical information relevant to recent earthquakes such as Gorkha is immediately available through a variety of products and services made available to researchers by the ISC.

The ISC Bulletin is the most long-term source of earthquake information that, among other applications, can be used for retrospective seismicity analysis in the area of a recent large earthquake. The data from the EHB bulletin –a groomed subset of the ISC Bulletin –also provides a high-precision view of seismicity in the region. The ISC also updates and maintains the IASPEI Reference Event List (GT) useful for a variety of calibration tasks. The ISC-GEM Catalogue is a highly homogeneous ISC dataset primarily designed for global and regional studies of seismic hazard and risk. The ISC Event Bibliography is an interactive facility that enables searches for references to scientific articles devoted to specific natural and anthropogenic seismic events that occurred within a region and time period of interest.

In this presentation we show examples of how various ISC datasets can be useful to studies of recent earthquakes and structure beneath the Tibetan Plateau region.

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