

ITACA v 2.2

The accelerometric database **ITACA v 2.2** contains the strong motion data and the relevant metadata acquired by the main strong motion networks operating in Italy from 1972 to December 2016.

The main modification with respect to the release of ITACA 2.1 (January 2016) are listed below.

Metadata revision

1. Location and magnitudes of seismic events are updated from the INGV FDSN event webservice (<http://webservices.rm.ingv.it/fdsnws/event/1/>), in case of events located in the Italian territory.
2. 10 shear wave velocity profiles have been acquired in the framework of the GeoRan Project (CNR-IGAG-DPC Agreement 2015).
3. 140 microtremor measurements relative to 69 stations provided by the Department of Civil Protection are added. In total ITACA 2.2 contains about 400 noise measurements, processed with the same approach implemented by Puglia et al. (2011). Each microtremor measurement is published in the station report under the section "Microtremor H/V spectral ratio".
4. Faults geometries for all events with magnitude larger than or equal to 5.5 are included, including the three main events of the 2016 Central Italy sequence.

Waveforms

1. ITACA 2.2 includes nearly 10,000 waveforms of the 2016 central Italy seismic sequence, recorded by permanent and temporary stations of the Italian Accelerometric Network (IT code), and the Italian seismic network (IV code), relative to the events with equal or larger than 4.0
2. Pulse-like near-source ground motions have been identified and can be selected by means a flag in the waveforms search page. The analysis to recognize the pulse-like behavior of the waveforms is carried out in the framework of ReLUIS-DPC 2014-2018 Agreement, within the Project RS2 Earthquake simulations: near-source effects, by the research unit Università di Napoli - Dipartimento di Ingegneria Strutturale, Università di Napoli Federico II.