

**Hai Sentito Il Terremoto (HSIT) - Macroseismic intensity database 2007-2018, version 1,**  
**doi:**[10.13127/HSIT/I.1](https://doi.org/10.13127/HSIT/I.1)

**File description**

Database of the macroseismic intensities assessed in the Italian municipalities using the questionnaires collected for earthquakes occurred from 15-06-2007 to 31-12-2018 by “*Hai Sentito Il Terremoto*” system (HSIT, <https://doi.org/10.13127/HSIT>). Intensities have been estimated through an automatic procedure following the method described in “Tosi P., Sbarra P., De Rubeis V., and Ferrari C. (2015), Macroseismic intensity assessment method for web-questionnaires, *Seismological Research Letters*, 86, 985-990, doi: 10.1785/0220140229”. Intensity values are estimated by using reports, voluntarily given by people, that were not revised by scientists. Thus in this database, there may be errors due to a wrong attribution of responses, in particular for the events immediately following or just preceding a strong earthquake.

The municipality data (columns from 5 to 8) were obtained from the National Institute of Statistics (ISTAT 2011). Earthquake parameters (columns from 9 to 15) were obtained from ISIDe Working Group (2007), Italian Seismological Instrumental and Parametric Database (ISIDe) <https://doi.org/10.13127/ISIDE>.

Data of this file, created by Istituto Nazionale di Geofisica e Vulcanologia, are licensed under a Creative Commons Attribution 4.0 International License. For reference: **De Rubeis, V., Sbarra, P., Tosi, P., and Sorrentino, D. (2019). Hai Sentito Il Terremoto (HSIT) - Macroseismic intensity database 2007-2018, version 1, <https://doi.org/10.13127/HSIT/I.1>**

Table 1. Column number and field explanation of the file.

Column number	Field Name	Field Explanation
1	IntensityMCS*	macroseismic intensity in Mercalli-Cancani-Sieberg scale
2	QuestsNumberMCS	number of questionnaires used for municipality MCS intensity estimation
3	IntensityEMS*	macroseismic intensity in European Macroseismic Scale EMS-98
4	QuestsNumberEMS	number of questionnaires used for municipality EMS intensity estimation
5	MunicipalityNameByDb	municipality in which the intensity is estimated (ISTAT 2011)
6	MunicipalityIstatCode	municipality ISTAT identifier (ISTAT 2011)
7	MunicipalityLat	latitude N WGS84 of the municipality centroid (ISTAT 2011)
8	MunicipalityLon	longitude E WGS84 of the municipality centroid (ISTAT 2011)

9	EventID	Italian Seismological Instrumental and Parametric Database ISIDe earthquake identifier
10	EventMagPrefType	best quality earthquake magnitude type (ISIDe)
11	EventMagPrefValue	best quality earthquake magnitude value (ISIDe)
12	EventDepth	earthquake hypocentral depth in km (ISIDe)
13	EventDate	earthquake occurrence date and time UTC in ISO 8601 YYYY-MM-DD hh:mm:ss (ISIDe)
14	EventLat	latitude N WGS84 of the earthquake epicenter (ISIDe)
15	EventLon	longitude E WGS84 of the earthquake epicenter (ISIDe)

\* The value -9 in columns 1 and 3 indicates that there are not valid questionnaires for the correspondent macroseismic scale (the number of valid questionnaires is 0) or that the intensity value was filtered out for attenuation rules (Tosi et al., 2015) because it was estimated with only 1 or 2 valid questionnaires.