

SD4/P1/ID61 - AN UPDATED EARTHQUAKE CATALOGUE FOR GREECE AND ADJACENT AREAS SINCE 1800

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An earthquake catalogue for Greece and adjacent areas is presented, i.e. the updated version of several published catalogues and individual studies, covering the period 1800- 2006. The catalogue of Makropoulos, Drakopoulos & Latoussakis (1989) covering the time span 1900-1985 was updated for the period 1986-2006, using instrumental parameters from the bulletin of the ISC, except for magnitude. For M_s the same procedure as before was applied, that is using the ISC body wave magnitude (m_b) and a regression equation. In the present update, M_w is also included for the whole period 1900-2006, calculated from Scordilis (2006) formula. Maximum intensity, when available, was also inserted in the catalogue, with reference to its source and scale used. It is worth noting that in the 20th century, at least three different macroseismic scales have been published. The catalogue was also extended backwards in time, including the 19th century historical earthquakes and transparent techniques were applied, when the data allowed, for determining their parameters. A completeness test was finally applied to the updated catalogue. Events with magnitude above 4 are complete during the last 30 years of the catalogue (1976-2006). Earthquakes with half a magnitude unit larger are complete for the last 56 years. The analysis also shows that the present catalogue contains almost all the events with magnitude equal to or greater than 5.0 and 5.5 after 1940 and 1911, respectively. Finally, no earthquake with magnitude 6 or greater seems to have been omitted in the whole instrumental period.