



Accompanying Notes

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In July 2010 we released version 3.1.1 of the *Database of Individual Seismogenic Sources*. With respect to the previous version, the new release contains various improvements concerning its structure, and its contents have been substantially increased. In particular, the new release:

- 1) incorporates research results that have appeared in the scientific literature between June 2009 (when the previous version was released) and June 2010;
- 2) includes 7 new *Individual Seismogenic Sources (ISS)*, among which those responsible for: 1) the 6 April 2009 L'Aquila earthquake, 2) the 23 December 2008 earthquake, 3) a sub-event of the multiple 1349 earthquake, and 4) the two earthquakes of the 1962 and the 1996 in the Dinarides;
- 3) includes 21 new *Composite Seismogenic Sources (CSS)* describing sections of: 1) the western Southern Alps thrust system, 2) the central Apennines extensional system, and 3) the external Dinaric thrust system; 4) the external Tell thrust system;
- 4) includes 19 new *Debated Seismogenic Sources (DSS)* describing tectonic structures proposed by some authors as being potentially seismogenic but not included in the previous two categories (ISS, CSS);
- 5) includes modified parameters concerning the geometry and kinematics of 5 *ISS* and of 29 *CSS*;
- 6) has a better characterization of the already existing *ISS* and *CSS*. All sources now have improved commentaries, pictures, and updated references;
- 7) proposes a series of updated thematic maps;

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Version	DISS 3.0.0	DISS 3.0.1	DISS 3.0.2	DISS 3.0.3	DISS 3.0.4	DISS 3.1.0	DISS 3.1.1
Date Released	<i>Sep 2004</i>	<i>Nov 2005</i>	<i>Sep 2006</i>	<i>Jul 2007</i>	<i>Oct 2007</i>	<i>Jun 2009</i>	<i>Jul 2010</i>
Significant improvements	<ul style="list-style-type: none"> • <i>New categories of sources introduced: non-segmented, non-parameterized</i> • <i>Graphic representation of fault kinematics</i> • <i>All parameters are assigned Qualifiers & Explanatory Notes</i> 	<ul style="list-style-type: none"> • <i>Seismogenic Areas introduced</i> • <i>Web version implemented</i> 	<ul style="list-style-type: none"> • <i>Google Earth version implemented</i> 	<ul style="list-style-type: none"> • <i>25 new "Historical sources" (Well-constrained, Poorly-constrained, Deep) based on latest Italian reference catalogue for all earthquakes of Mw 5.3 and larger</i> 	<ul style="list-style-type: none"> • <i>Acknowledges the results of the research project "Assessing the seismogenic potential and the probability of strong earthquakes in Italy"</i> 	<ul style="list-style-type: none"> • <i>Debated Seismogenic Sources introduced</i> • <i>Active Folds introduced</i> • <i>Thematic maps introduced</i> • <i>Web portal restyling</i> 	<ul style="list-style-type: none"> • <i>Updated Questionnaire for the DSS</i> • <i>Updated thematic maps</i>
ISS¹	<i>100</i>	<i>107^a</i>	<i>115^b</i>	<i>115</i>	<i>119^c</i>	<i>119^d</i>	<i>123^e</i>
CSS¹	<i>---</i>	<i>67</i>	<i>81</i>	<i>86</i>	<i>92</i>	<i>98^f</i>	<i>118^g</i>
DSS¹	<i>---</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>---</i>	<i>8</i>	<i>27</i>
Refs²	<i>1,720</i>	<i>1,944</i>	<i>2,063</i>	<i>2,063</i>	<i>2,218</i>	<i>2,476</i>	<i>2,670</i>
Images³	<i>550</i>	<i>683</i>	<i>794</i>	<i>794</i>	<i>859</i>	<i>1,416</i>	<i>1,731</i>
Texts⁴	<i>~250</i>	<i>~270</i>	<i>~300</i>	<i>~300</i>	<i>~320</i>	<i>~660</i>	<i>~730</i>

¹ Source types: ISS, Individual Seismogenic Source; CSS, Composite Seismogenic Source; DSS, Debated Seismogenic Source.

² Number of independent references attached to the seismogenic sources.

³ Number of independent images (original from published literature) documenting the seismogenic sources.

⁴ Number of equivalent pages of original texts documenting the seismogenic sources.

^a ISS: 14 added; 7 removed; parameters of 8 modified/improved.

^b ISS: 9 added; 1 removed; parameters of 35 modified/improved.

^c ISS: 7 added; 3 removed; parameters of 17 modified/improved.

^d ISS: parameters of 20 modified/improved.

^e ISS: 7 added; 3 removed; parameters of 5 modified/improved.

^f CSS: 6 added; parameters of 24 modified/improved.

^g CSS: 21 added; 1 removed; parameters of 29 modified/improved.