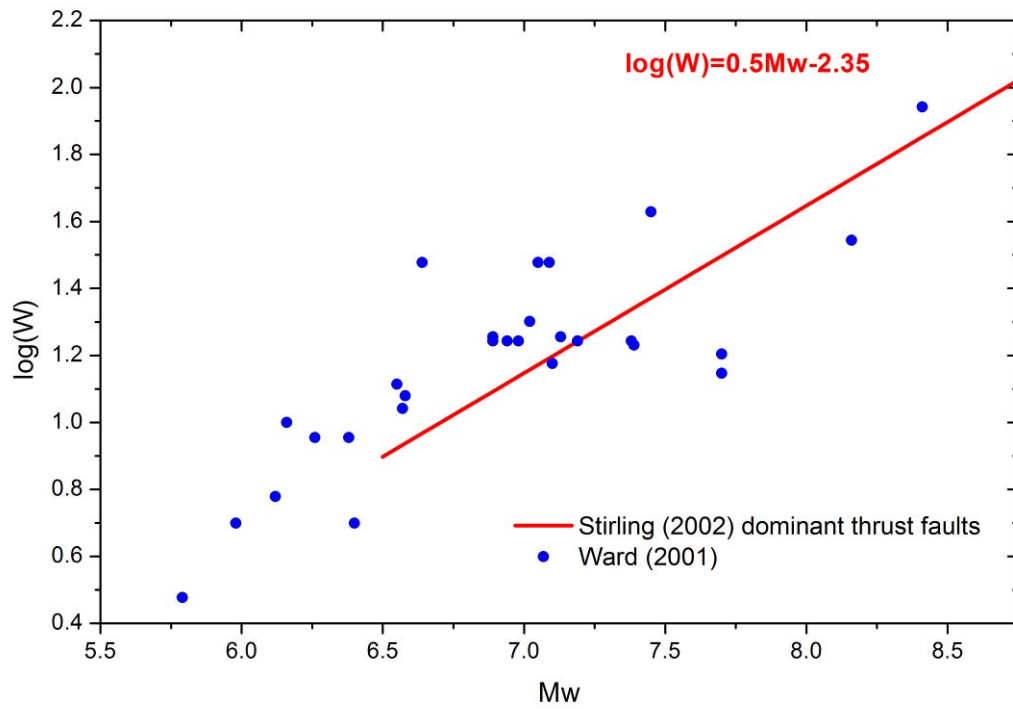


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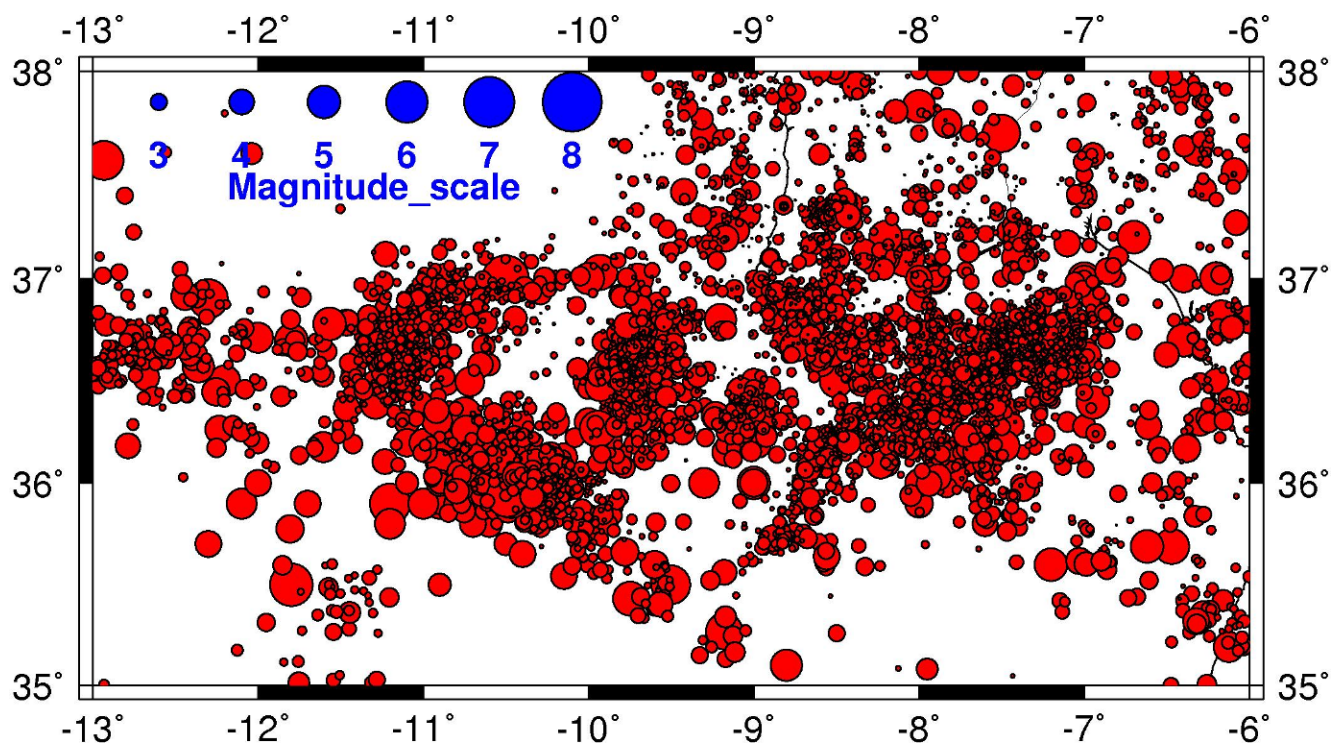
3 Figure SUP1. Comparison of the Ward (2001) relationship between fault length and
4 magnitude and the data compiled by Stirling (2002) for reverse and reverse-strike-slip faults.



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3 Figure SUP2. Comparison of the Ward (2001) relationship between fault width and
 4 magnitude and the data compiled by Stirling (2002) for reverse and reverse-strike-slip faults.

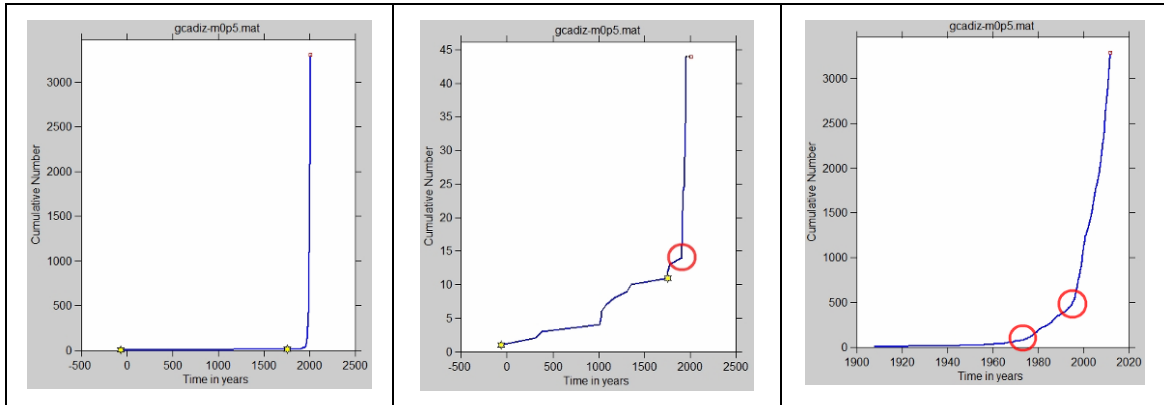


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3 Figure SUP3. Epicentres from the historical and instrumental seismic catalogue updated to
4 October/2011.

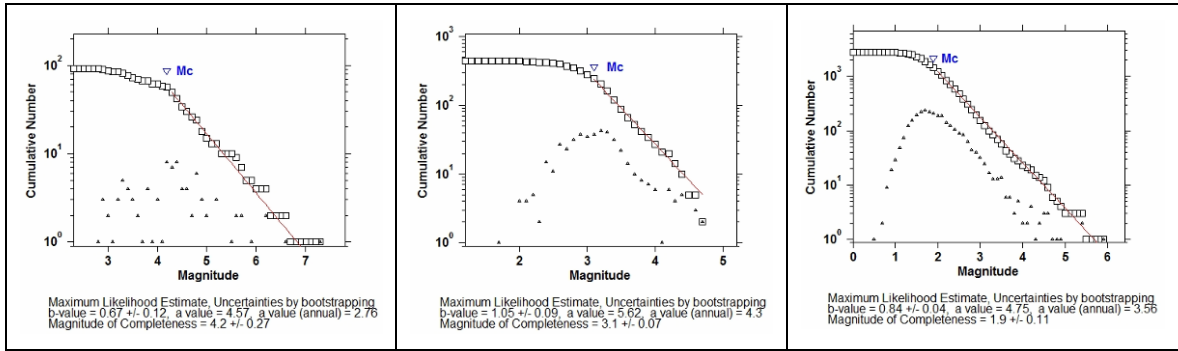
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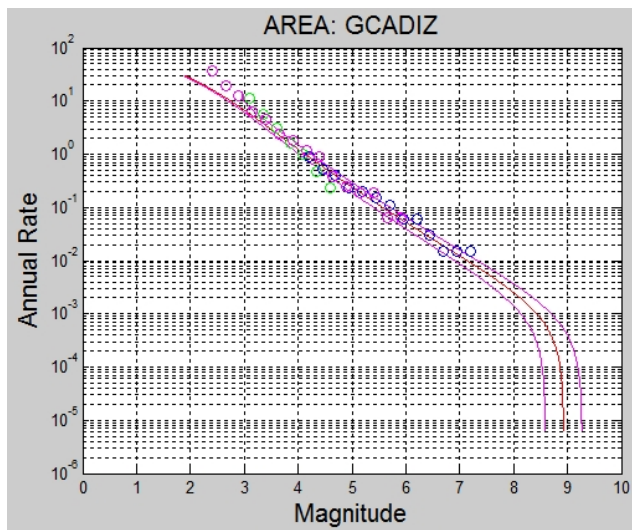
3 Figure SUP4. Evolution of the cumulated number of events in the work catalogue (after
4 removal of precursors and aftershocks) that justifies the choice of 4 time periods for further
5 analysis, one historical and three instrumental: left - all catalogue; centre - last year limited to
6 1990; right - time window between 1909 and 2005.

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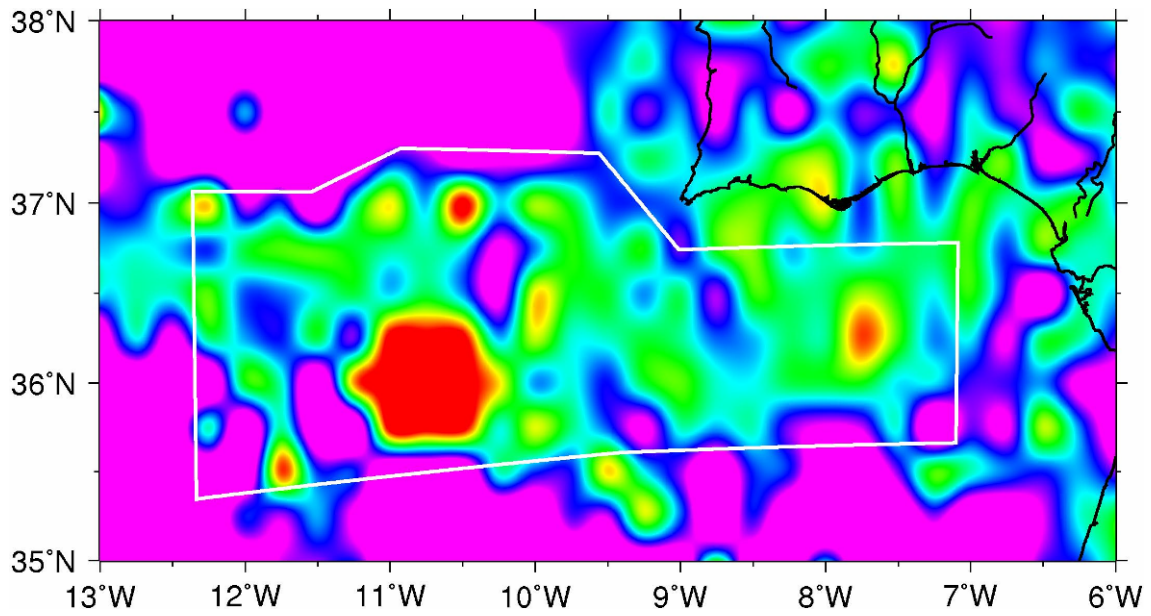
3 Figure SUP5. Definition of the completeness magnitude and the Gutenberg-Richter
4 parameters for each of the 3 periods defined in the instrumental seismic catalogue.



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3 Figure SUP6. Derivation of the earthquake frequency as a function of magnitude as derived
4 by the Bayesian method of Kijko & Sellevoll (1992) that integrates the information from the
5 historical and the 3 instrumental catalogues.



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3 Figure SUP7. Definition of the seismic source area in the Gulf of Cadiz used for the
4 computation of the earthquake recurrence and the seismic velocity (in white). On the
5 background we show the seismic strain release computed from the work catalogue
6 (instrumental periods only).

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