

Supplementary Material

This section presents plots depicting the magnitude completeness periods obtained through the CUVI and Stepp methods for declustered earthquake catalogs using the Uhrhammer, Reasenberg, and Marsan techniques.

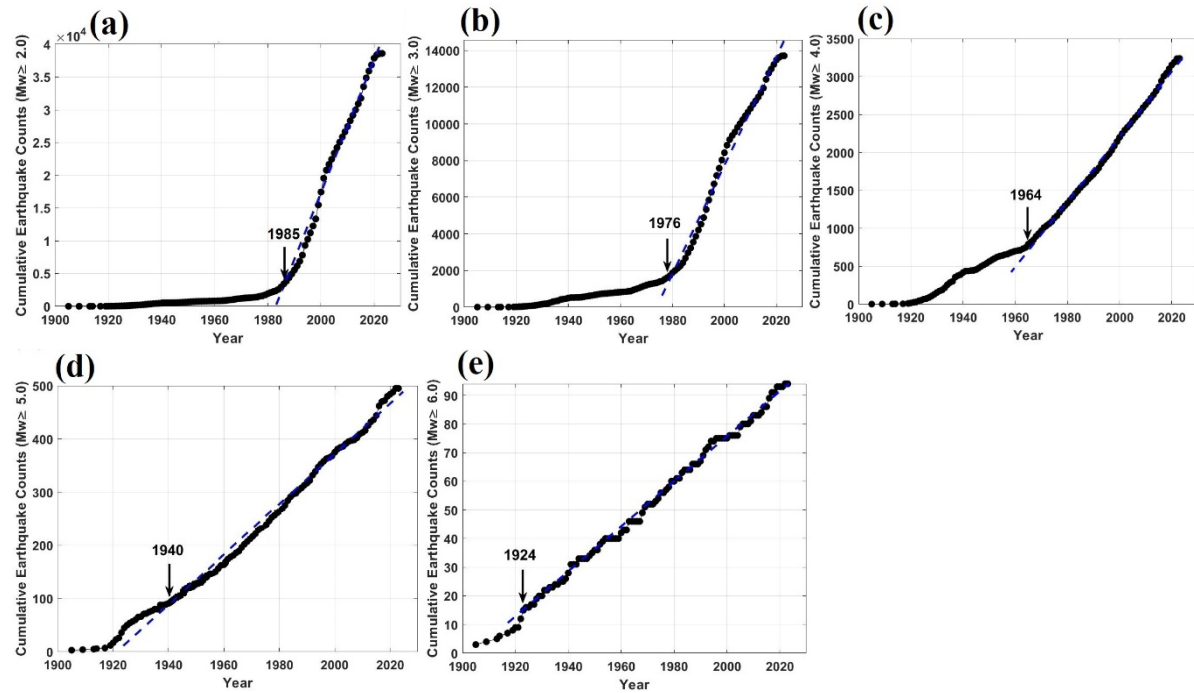


Figure S1: Completeness analysis for the Uhrhammer declustered catalog using the CUVI method for each magnitude range: (a) $M_w \geq 2.0$ (b) $M_w \geq 3.0$ (c) $M_w \geq 4.0$ (d) $M_w \geq 5.0$ (e) $M_w \geq 6.0$. Arrows indicate the completeness year.

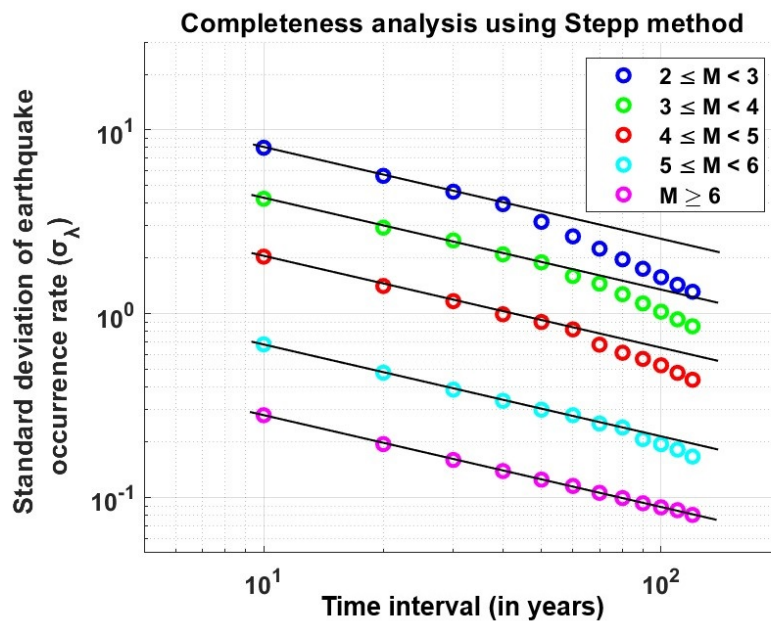


Figure S2: Completeness analysis of the Uhrhammer declustered catalog using Stepp's method for different magnitude ranges with a 10-year time interval.

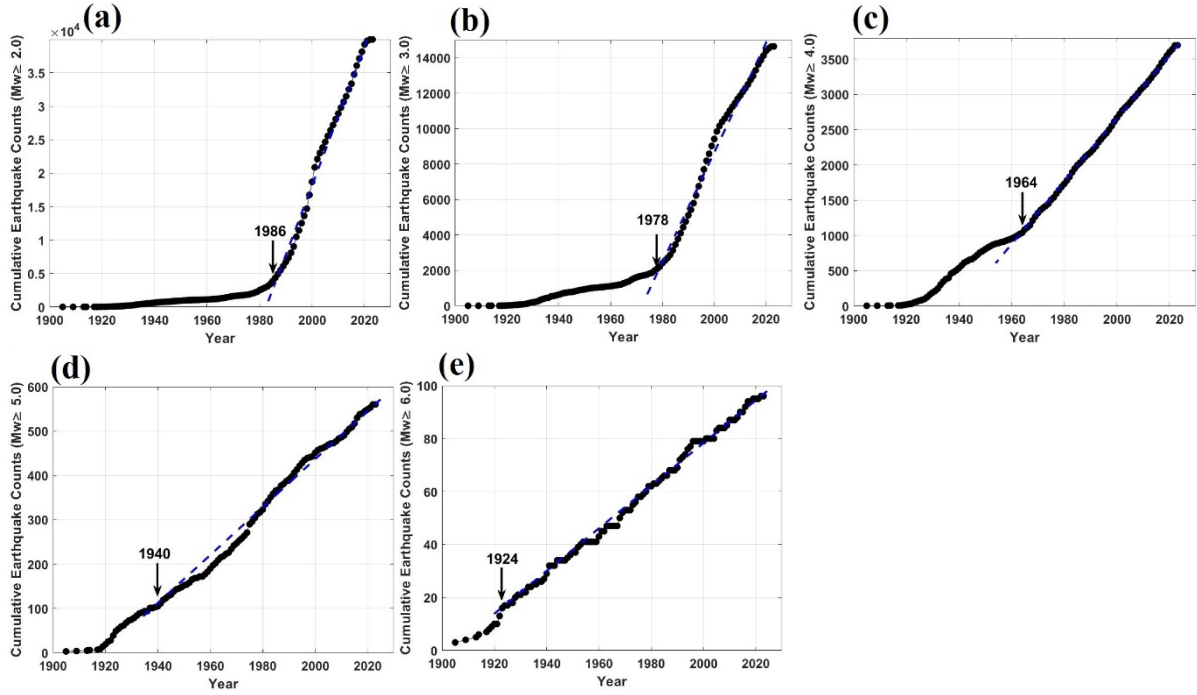


Figure S3: Completeness analysis for the Reasenberg declustered catalog using the CUVI method for each magnitude range: (a) $M_W \geq 2.0$ (b) $M_W \geq 3.0$ (c) $M_W \geq 4.0$ (d) $M_W \geq 5.0$ (e) $M_W \geq 6.0$. Arrows indicate the completeness year.

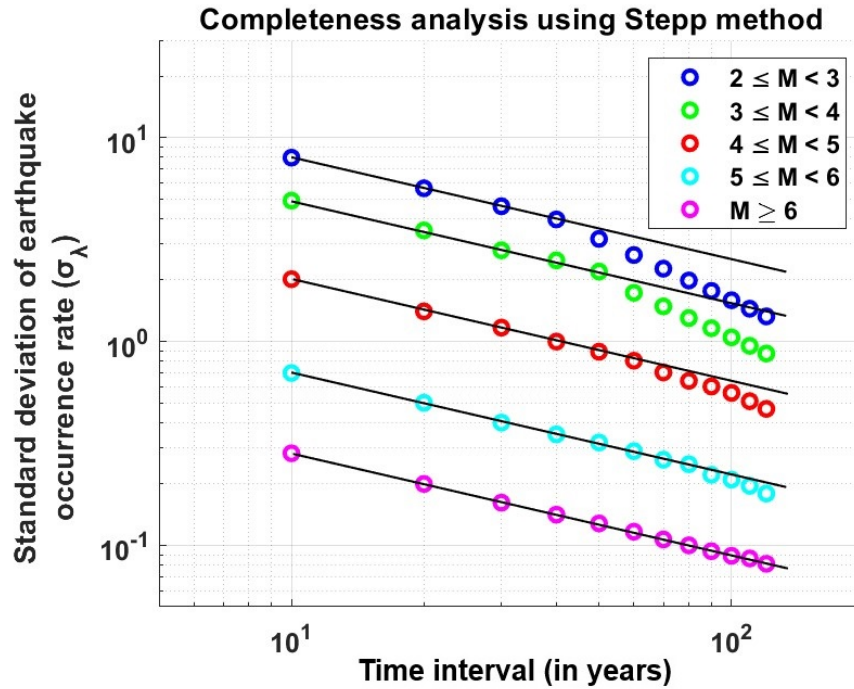


Figure S4: Completeness analysis of the Reasenberg declustered catalog for Stepp's method for different magnitude ranges with a 10-year time interval.

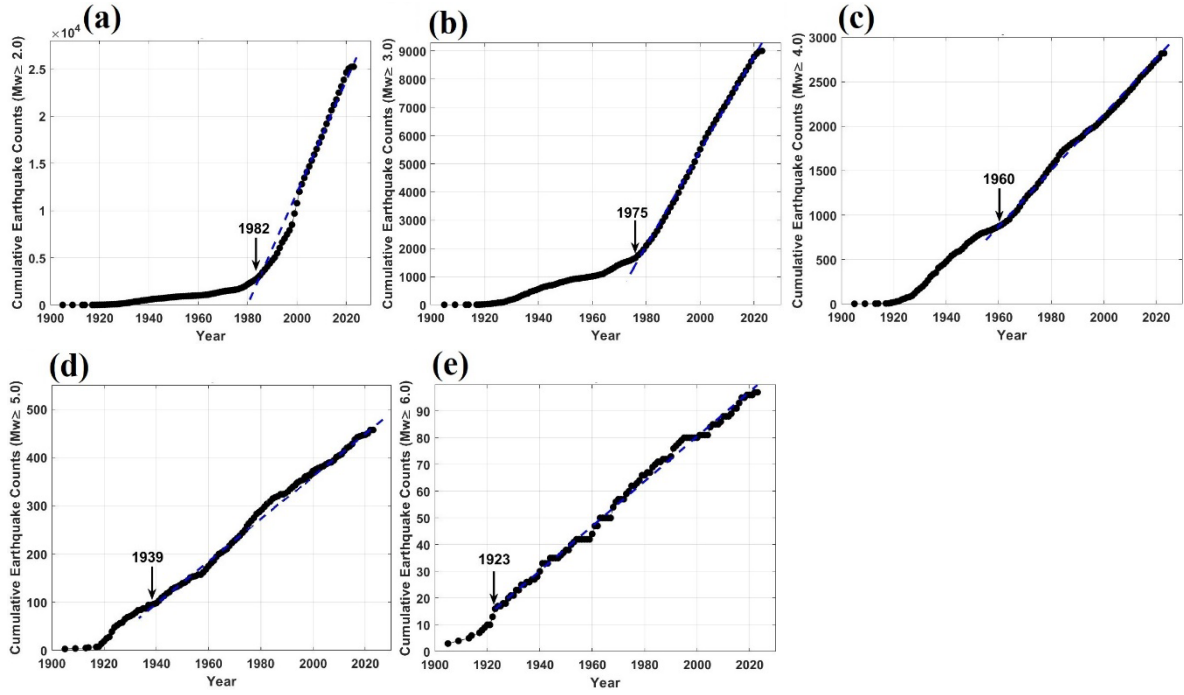


Figure S5: Completeness analysis for the Marsan declustered catalog using the CUVI method for each magnitude range: (a) $M_w \geq 2.0$ (b) $M_w \geq 3.0$ (c) $M_w \geq 4.0$ (d) $M_w \geq 5.0$ (e) $M_w \geq 6.0$. Arrows indicate the completeness year.

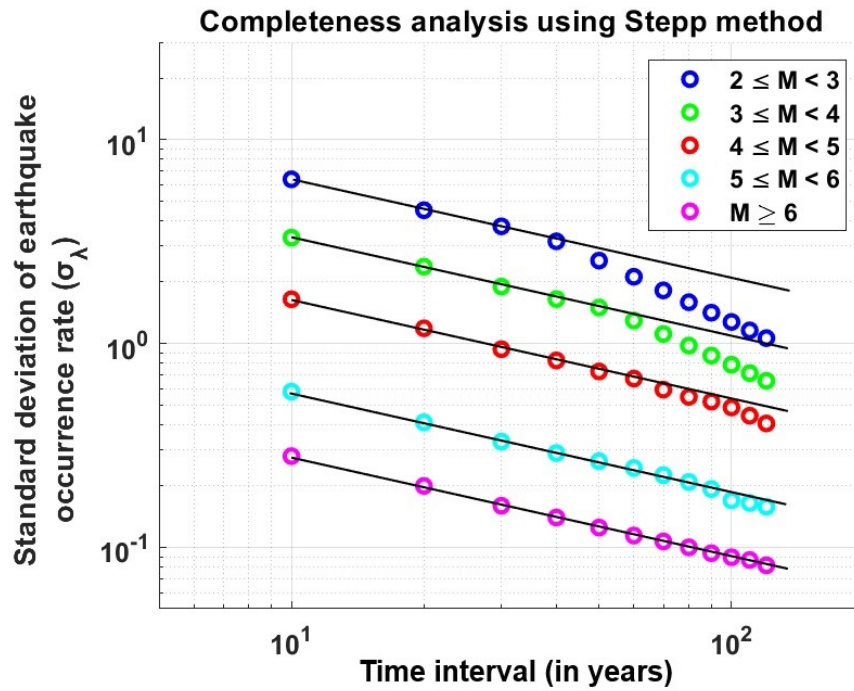


Figure S6: Completeness analysis of the Marsan declustered catalog using Stepp's method for different magnitude ranges with a 10-year time interval.