**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.

A graph of the number of years

Description automatically generatedA graph showing the growth of the year

Description automatically generatedA graph showing the growth of the year

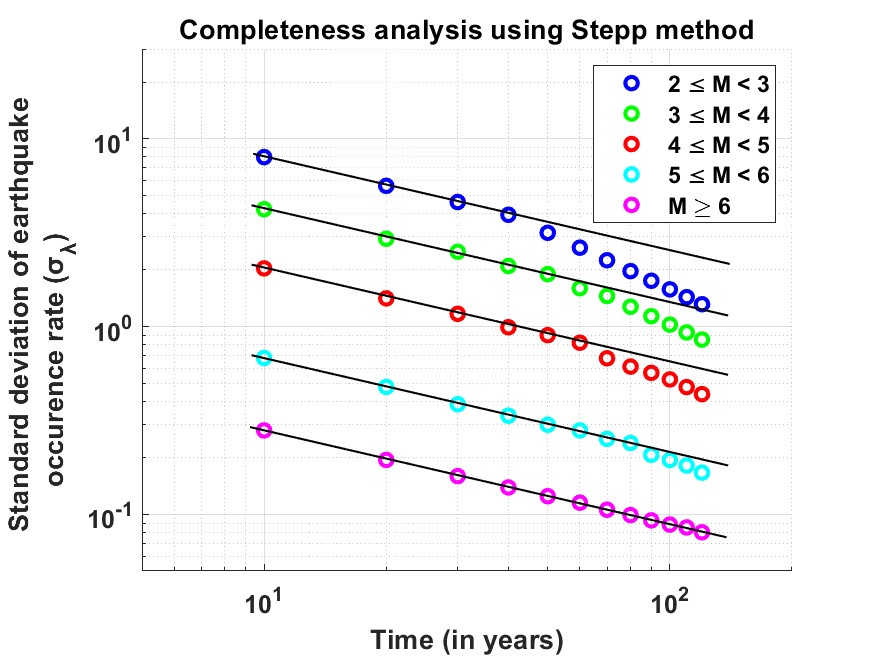
Description automatically generated

A graph of the growth of the year

Description automatically generatedA graph showing the growth of the average temperature

Description automatically generated

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



**Figure S2: Completeness analysis of the Uhrhammer declustered catalog for different magnitude ranges using Stepp’s method.**

A graph of a number of years

Description automatically generatedA graph with a line going up

Description automatically generatedA graph showing the growth of the year

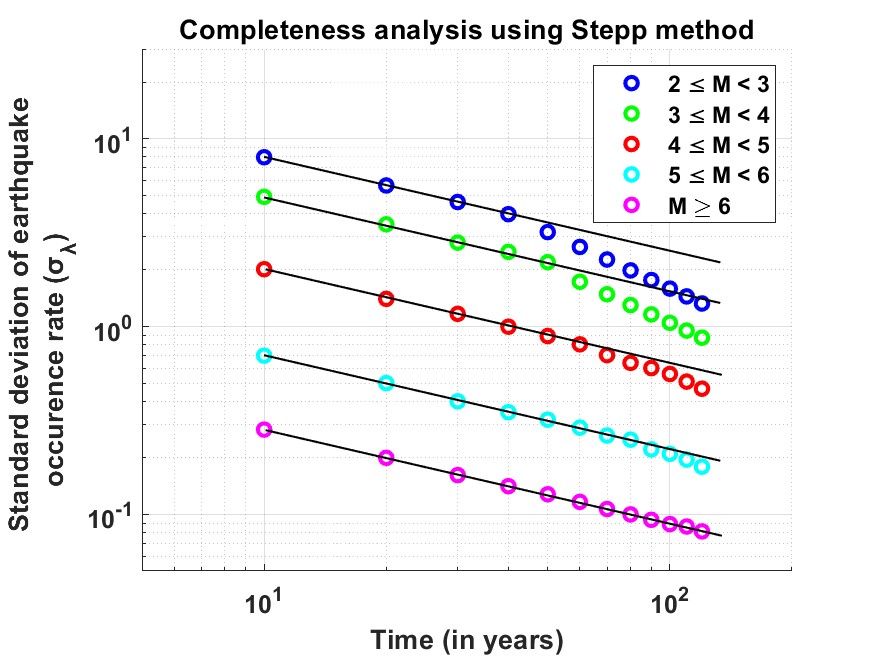
Description automatically generated

A graph showing the growth of the year

Description automatically generatedA graph showing the growth of the year

Description automatically generated

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



**Figure S4: Completeness analysis of the Reasenberg declustered catalog for different magnitude ranges using Stepp’s method.**

A graph of a number of years

Description automatically generatedA graph of growth of the year

Description automatically generatedA graph showing the growth of the year

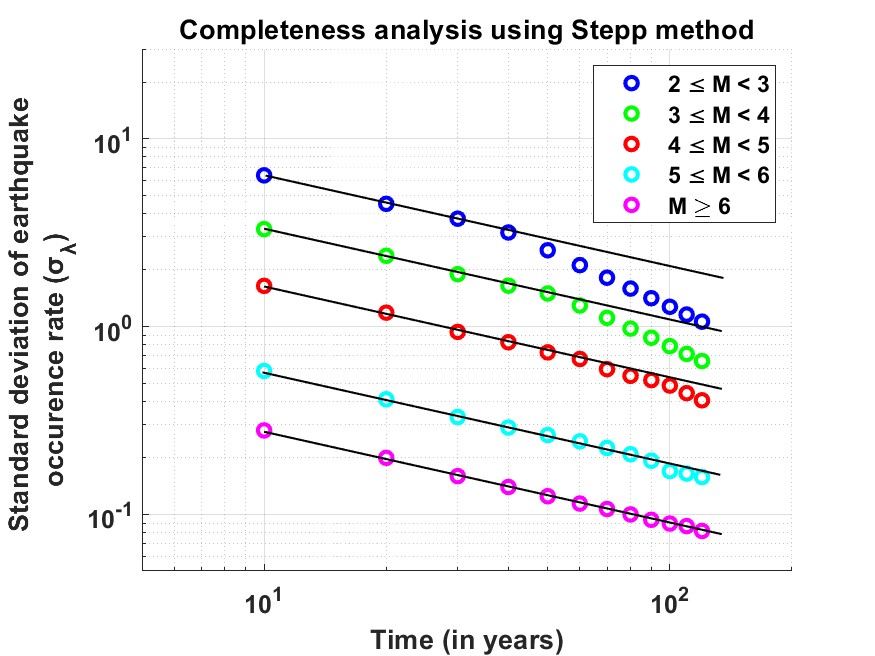
Description automatically generated

A graph of growth in years

Description automatically generatedA graph showing the growth of the number of years

Description automatically generated

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



**Figure S6: Completeness analysis of the Marsan declustered catalog for different magnitude ranges using Stepp’s method.**