



QuakeLab

Seismicity Analysis Tools

- Completeness Analysis:
 - Stepp Method
 - Visual Cumulative Method
- b-value Estimation:
 - Maximum Likelihood
 - Weighted Least squares
 - Linear Regression
 - Kijko Method
- Frequency-Magnitude Analyzer Tool
- Synthetic Catalog Generation
- Aftershock Generation:
 - Branching Aftershock Sequence (BASS)
 - Epidemic-Type Aftershock Sequence (ETAS)

Catalog Management Tools

- Create, Merge, Filter, Delete
- Duplicate Removal
- Declustering / Manual Event Removal
- Statistic Reports / Catalog Visualization

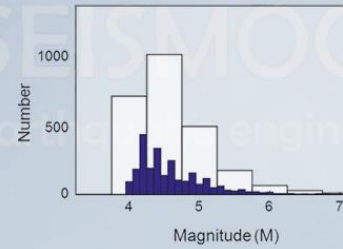
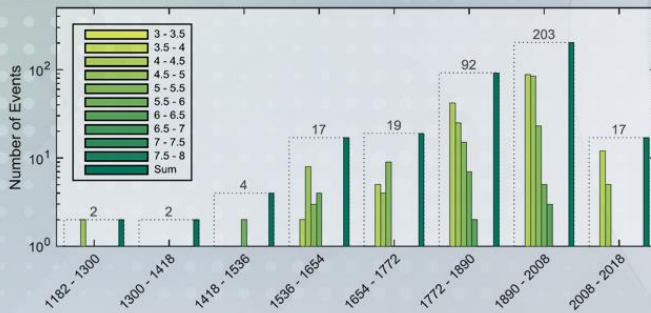
Fault Tools

- Fault Trace Builder
- Background Fault Generator

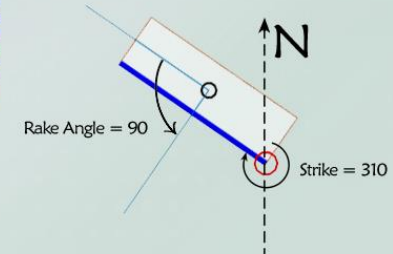
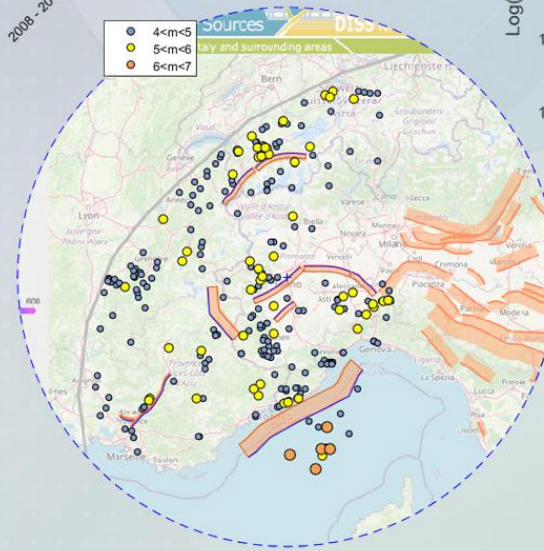
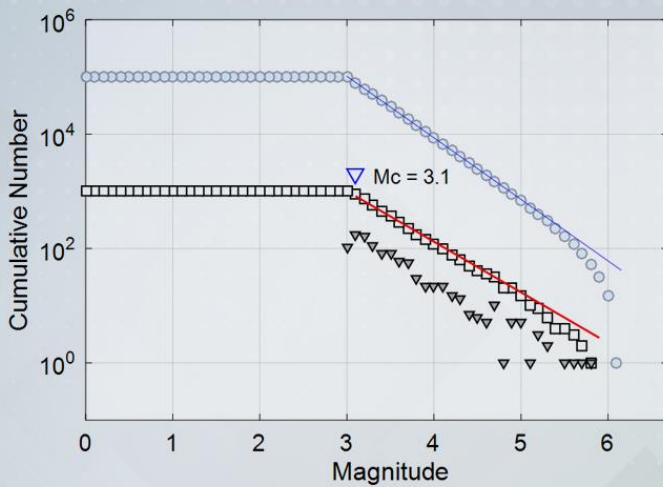
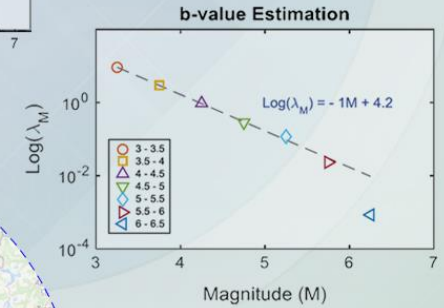




Catalog Tools (Create, Merge, Decluster, Duplicate Removal, etc...)



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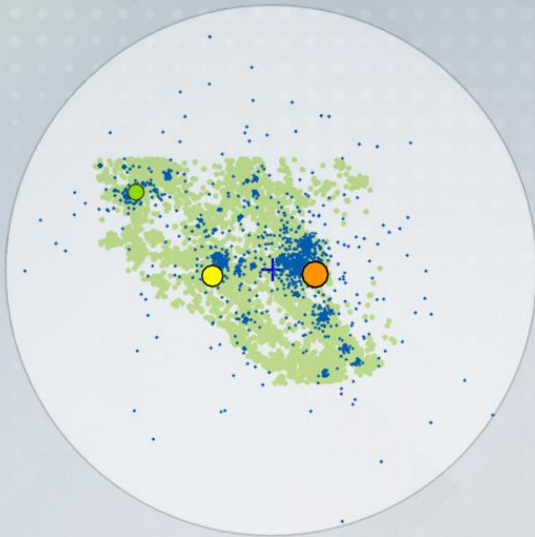




Synthetic Catalog / Aftershock Generation

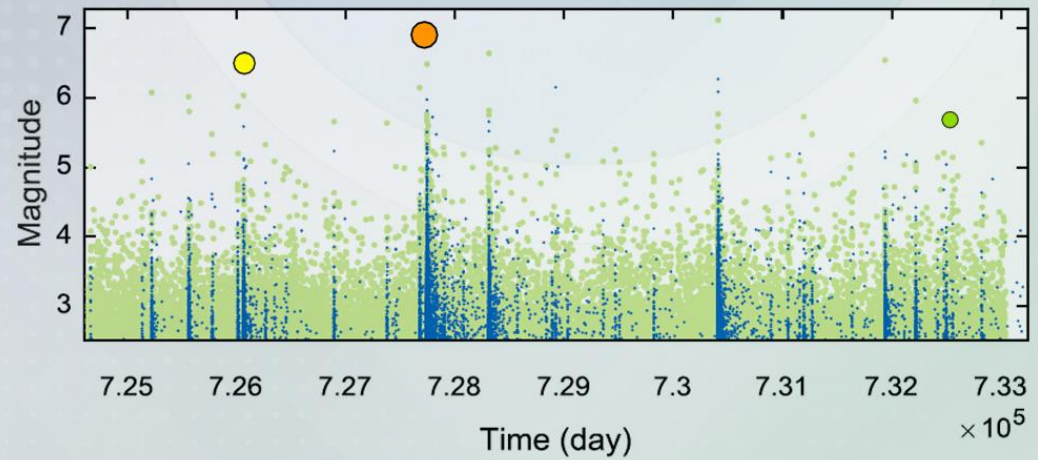
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Simulated Catalog

Aftershocks Sequence





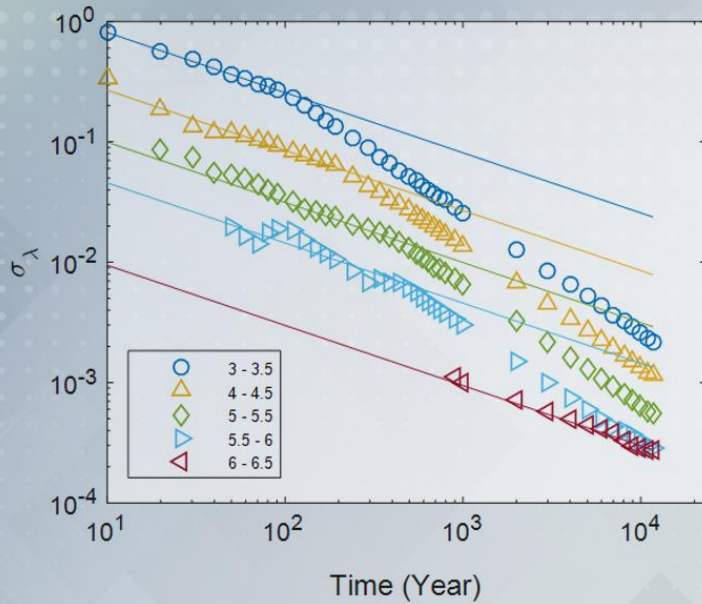
Completeness Analysis

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STEPP



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