

A DESCRIPTIVE TITLE GOES HERE AND CAN SPAN MULTIPLE LINES IF NEEDED

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2 Author² , Seventh Author³ , Eighth Author⁴ 

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13 This information will be
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17 [https://doi.org/10.
18 69631/xxxxxxx](https://doi.org/10.69631/xxxxxxx)

19 RECEIVED: 00 Month
20 0000

21 ACCEPTED: 01 Month
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23 AVAILABLE ONLINE: 02
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ABSTRACT

The abstract should provide a concise and informative summary of the manuscript. It should include the following key components: a clear statement of the study's purpose or research question; a brief description of the methods used, including experimental, theoretical, or analytical approaches; a summary of the main results and how they address the research question; conclusions outlining the implications of the findings and their relevance to porous media research; and a statement of the study's significance, highlighting its contribution to the existing body of knowledge and its broader impact or applications. This paragraph serves as placeholder text to illustrate the expected structure, length, and content of an abstract within the manuscript template.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna. Nunc viverra imperdiet enim. Fusce est. Vivamus a tellus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci. Aenean nec lorem. In porttitor. Donec laoreet nonummy augue. Suspendisse dui purus, scelerisque at, vulputate vitae, pretium mattis, nunc. Mauris eget neque at sem venenatis eleifend. Ut nonummy.

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KEYWORDS

Provide up to 6 or 7 keywords or phrases

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1. FIRST LEVEL HEAD

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

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Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus.

Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue. Nulla nec lacus.

1.1. Second Level Head

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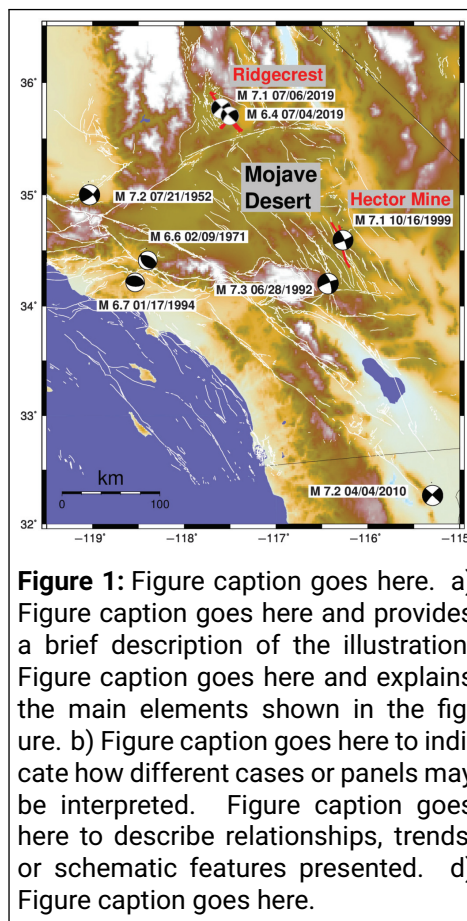
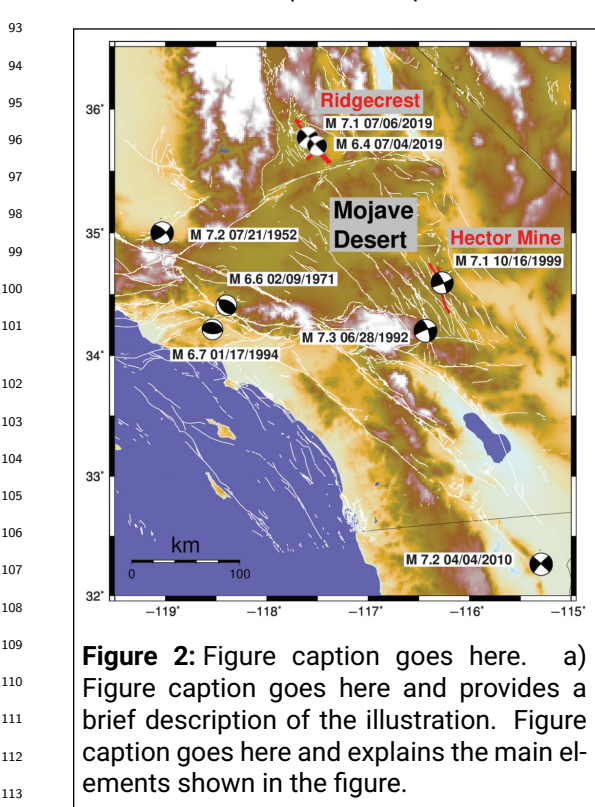


Figure 1: Figure caption goes here. a) Figure caption goes here and provides a brief description of the illustration. Figure caption goes here and explains the main elements shown in the figure. b) Figure caption goes here to indicate how different cases or panels may be interpreted. Figure caption goes here to describe relationships, trends, or schematic features presented. d) Figure caption goes here.

85 amet massa. Fusce blandit. Aliquam erat volutpat. Aliquam euismod. Aenean vel lectus. Nunc
86 imperdiet justo nec dolor.

87 Etiam euismod. Fusce facilisis lacinia dui. Suspendisse potenti. In mi erat, cursus id, nonummy
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117 vulputate ligula tellus eu neque. Vivamus eu dolor.

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120 nonummy magna non leo. Sed felis erat, ullamcorper in, dictum non, ultricies ut, lectus. Proin
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122 posuere cubilia Curae; Proin ut est. Aliquam odio. Pellentesque massa turpis, cursus eu, euismod
123 nec, tempor congue, nulla. Duis viverra gravida mauris. Cras tincidunt. Curabitur eros ligula,
124 varius ut, pulvinar in, cursus faucibus, augue.

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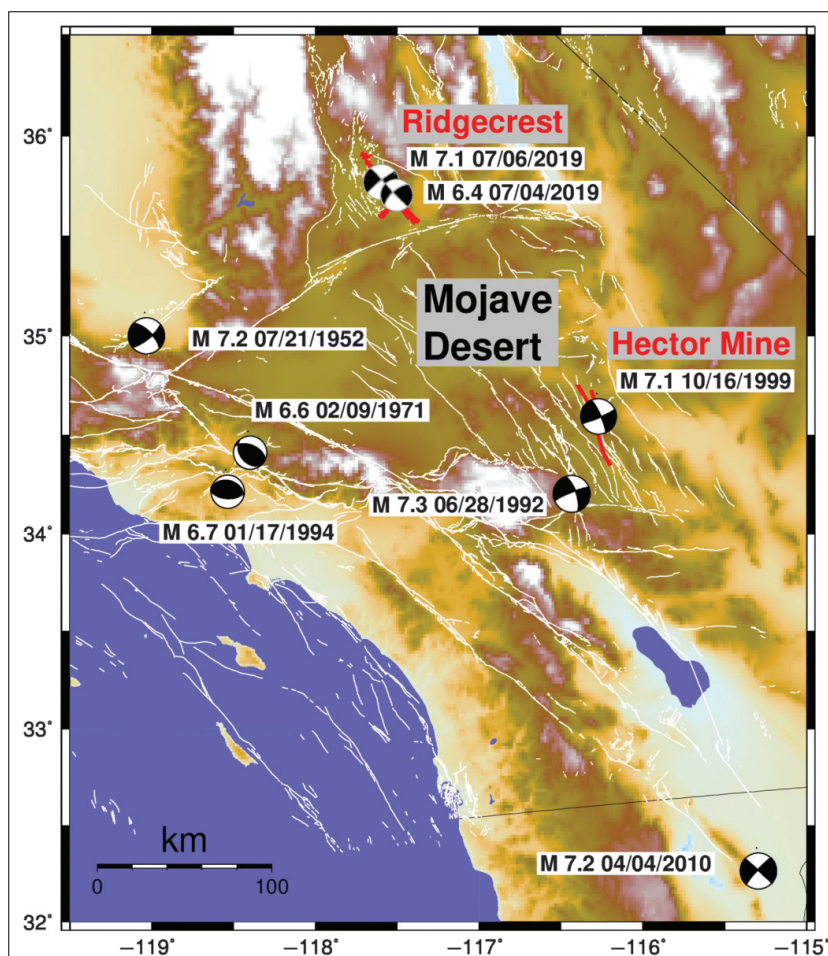


Figure 3: Figure caption goes here. a) Figure caption goes here and provides a brief description of the illustration. Figure caption goes here and explains the main elements shown in the figure. b) Figure caption goes here to indicate how different cases or panels may be interpreted. Figure caption goes here to describe relationships, trends, or schematic features presented. d) Figure caption goes here.

Table 1: Table Caption Goes Here. Table Caption Goes Here. Table Caption Goes Here.

Complete Dataset	N	σ		
		a	b	c
a. Faulting Type				
Thrust	3801	18.1 %	0.3 %	15.6 %
Strike-Slip	3829	25.2 %	0.3 %	18.5 %
Normal	3180	25.5 %	0.4 %	19.8 %
Oblique	2046	25.5 %	0.5 %	21.0 %
b. Geologic Environment				
Subduction Zone	8691	21.6 %	0.2 %	19.7 %
Spreading Center	2785	28.0 %	0.4 %	18.2 %
Volcanoes	163	26.0 %	1.6 %	20.0 %

132 ultricies nibh arcu pretium enim. Nunc purus neque, placerat id, imperdiet sed, pellentesque nec,
 133 nisl. Vestibulum imperdiet neque non sem accumsan laoreet. In hac habitasse platea dictumst.
 134 Etiam condimentum facilisis libero. Suspendisse in elit quis nisl aliquam dapibus. Pellentesque
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 136 Aliquam porttitor nisl nec pede. Proin mattis libero vel turpis. Donec rutrum mauris et libero.

Table 2: This is a Sample Table Caption. This is a Sample Table Caption. This is a Sample Table Caption. This is a Sample Table Caption. This is a Sample Table Caption.

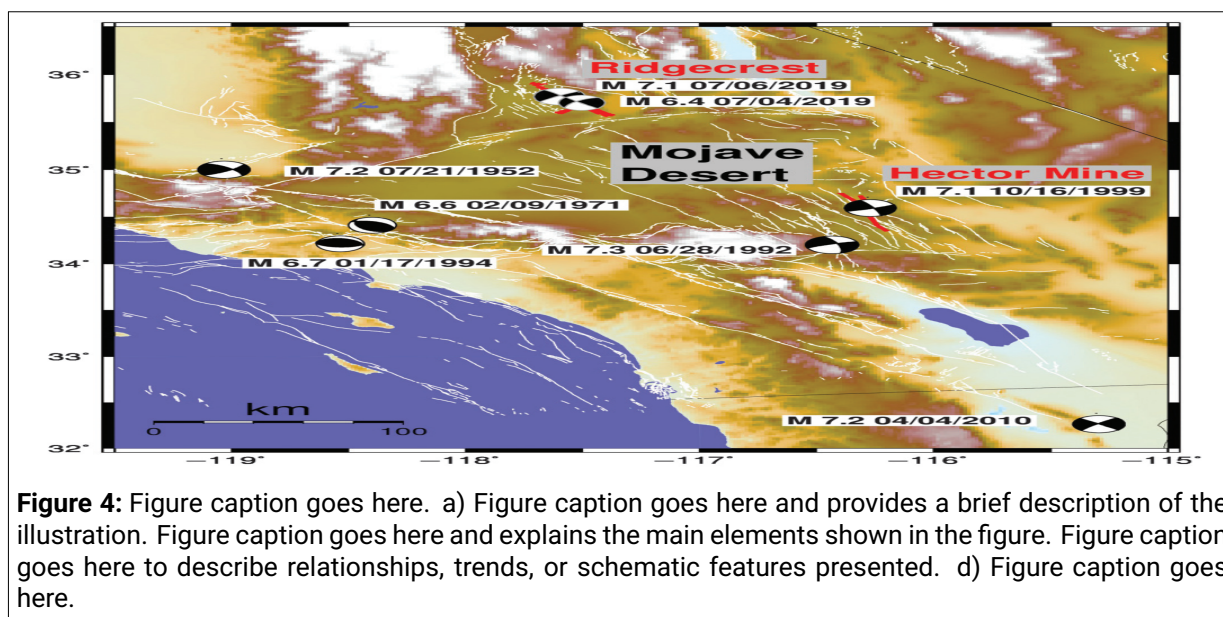
Complete Dataset	N	μ	σ_μ	σ	N	μ	σ_μ	σ
a. Faulting Type								
Thrust	3801	18.1 %	0.3 %	15.6 %	3801	18.1 %	0.3 %	15.6 %
Strike-Slip	3829	25.2 %	0.3 %	18.5 %	3801	18.1 %	0.3 %	15.6 %
Normal	3180	25.5 %	0.4 %	19.8 %	3801	18.1 %	0.3 %	15.6 %
Oblique	2046	25.5 %	0.5 %	21.0 %	3801	18.1 %	0.3 %	15.6 %
b. Geologic Environment								
Subduction Zone	8691	21.6 %	0.2 %	19.7 %	3801	18.1 %	0.3 %	15.6 %
Spreading Center	2785	28.0 %	0.4 %	18.2 %	3801	18.1 %	0.3 %	15.6 %
Volcanoes	163	26.0 %	1.6 %	20.0 %	3801	18.1 %	0.3 %	15.6 %
a. Faulting Type								
Thrust	3801	18.1 %	0.3 %	15.6 %	3801	18.1 %	0.3 %	15.6 %
Strike-Slip	3829	25.2 %	0.3 %	18.5 %	3801	18.1 %	0.3 %	15.6 %
Normal	3180	25.5 %	0.4 %	19.8 %	3801	18.1 %	0.3 %	15.6 %
Oblique	2046	25.5 %	0.5 %	21.0 %	3801	18.1 %	0.3 %	15.6 %
b. Geologic Environment								
Subduction Zone	8691	21.6 %	0.2 %	19.7 %	3801	18.1 %	0.3 %	15.6 %
Spreading Center	2785	28.0 %	0.4 %	18.2 %	3801	18.1 %	0.3 %	15.6 %
Volcanoes	163	26.0 %	1.6 %	20.0 %	3801	18.1 %	0.3 %	15.6 %
a. Faulting Type								
Thrust	3801	18.1 %	0.3 %	15.6 %	3801	18.1 %	0.3 %	15.6 %
Strike-Slip	3829	25.2 %	0.3 %	18.5 %	3801	18.1 %	0.3 %	15.6 %
Normal	3180	25.5 %	0.4 %	19.8 %	3801	18.1 %	0.3 %	15.6 %
Oblique	2046	25.5 %	0.5 %	21.0 %	3801	18.1 %	0.3 %	15.6 %
Volcanoes	163	26.0 %	1.6 %	20.0 %	3801	18.1 %	0.3 %	15.6 %

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 144 nec, tempor congue, nulla. Duis viverra gravida mauris. Cras tincidunt. Curabitur eros ligula,
 145 varius ut, pulvinar in, cursus faucibus, augue.

146 Nulla mattis luctus nulla. Duis commodo velit at leo. Aliquam vulputate magna et leo. Nam
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 151 imperdiet. Nulla facilisi. In hac habitasse platea dictumst. Suspendisse viverra aliquam risus.
 152 Nullam pede justo, molestie nonummy, scelerisque eu, facilisis vel, arcu.

153 Curabitur tellus magna, porttitor a, commodo a, commodo in, tortor. Donec interdum. Praesent
 154 scelerisque. Maecenas posuere sodales odio. Vivamus metus lacus, varius quis, imperdiet quis,
 155 rhoncus a, turpis. Etiam ligula arcu, elementum a, venenatis quis, sollicitudin sed, metus. Donec
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 166 Vestibulum sed nisl eu sapien cursus rutrum.

167 Nulla non mauris vitae wisi posuere convallis. Sed eu nulla nec eros scelerisque pharetra. Nullam
 168 varius. Etiam dignissim elementum metus. Vestibulum faucibus, metus sit amet mattis rhoncus,
 169 sapien dui laoreet odio, nec ultricies nibh augue a enim. Fusce in ligula. Quisque at magna et nulla
 170 commodo consequat. Proin accumsan imperdiet sem. Nunc porta. Donec feugiat mi at justo.
 171 Phasellus facilisis ipsum quis ante. In ac elit eget ipsum pharetra faucibus. Maecenas viverra nulla
 172 in massa.

173 Nulla ac nisl. Nullam urna nulla, ullamcorper in, interdum sit amet, gravida ut, risus. Aenean ac
 174 enim. In luctus. Phasellus eu quam vitae turpis viverra pellentesque. Duis feugiat felis ut enim.
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179 Etiam pede massa, dapibus vitae, rhoncus in, placerat posuere, odio. Vestibulum luctus commodo
 180 lacus. Morbi lacus dui, tempor sed, euismod eget, condimentum at, tortor. Phasellus aliquet
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 185 sapien, euismod in, suscipit in, pharetra placerat, metus. Vivamus commodo dui non odio. Donec
 186 et felis.

2. SAMPLE FIRST LEVEL SECTION STACKED WITH SECOND LEVEL

2.1. Second Level Head

2.1.1. Third Level Head

Etiam suscipit aliquam arcu. Aliquam sit amet est ac purus bibendum congue. Sed in eros. Morbi non orci. Pellentesque mattis lacinia elit. Fusce molestie velit in ligula. Nullam et orci vitae nibh vulputate auctor. Aliquam eget purus. Nulla auctor wisi sed ipsum. Morbi porttitor tellus ac enim. Fusce ornare. Proin ipsum enim, tincidunt in, ornare venenatis, molestie a, augue. Donec vel pede in lacus sagittis porta. Sed hendrerit ipsum quis nisl. Suspendisse quis massa ac nibh pretium cursus. Sed sodales. Nam eu neque quis pede dignissim ornare. Maecenas eu purus ac urna tincidunt congue.

$$\begin{aligned}
 u_{\text{mod}}(t) = & a_1^{\text{foreshock}} H(t - t_{\text{foreshock}}) + a_1^{\text{mainshock}} H(t - t_0) \\
 & + a_2 + a_3(t - t_0) + a_4 \cos(2\pi t) + a_5 \sin(2\pi t) \\
 & + a_6 \cos(4\pi t) + a_7 \sin(4\pi t) + u_{\text{post}}(t)
 \end{aligned}
 \tag{1}$$

Donec et nisl id sapien blandit mattis. Aenean dictum odio sit amet risus. Morbi purus. Nulla a est sit amet purus venenatis iaculis. Vivamus viverra purus vel magna. Donec in justo sed odio malesuada dapibus. Nunc ultrices aliquam nunc. Vivamus facilisis pellentesque velit. Nulla nunc velit, vulputate dapibus, vulputate id, mattis ac, justo. Nam mattis elit dapibus purus. Quisque enim risus, congue non, elementum ut, mattis quis, sem. Quisque elit.

Maecenas non massa. Vestibulum pharetra nulla at lorem. Duis quis quam id lacus dapibus interdum. Nulla lorem. Donec ut ante quis dolor bibendum condimentum. Etiam egestas tortor vitae lacus. Praesent cursus. Mauris bibendum pede at elit. Morbi et felis a lectus interdum facilisis. Sed suscipit gravida turpis. Nulla at lectus. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Praesent nonummy luctus nibh. Proin turpis nunc, congue eu, egestas ut, fringilla at, tellus. In hac habitasse platea dictumst.

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2.1.2. Sample Third Level Head

Donec vel nibh ut felis consectetur laoreet. Donec pede. Sed id quam id wisi laoreet suscipit. Nulla lectus dolor, aliquam ac, fringilla eget, mollis ut, orci. In pellentesque justo in ligula. Maecenas turpis. Donec eleifend leo at felis tincidunt consequat. Aenean turpis metus, malesuada sed, condimentum sit amet, auctor a, wisi. Pellentesque sapien elit, bibendum ac, posuere et, congue eu, felis. Vestibulum mattis libero quis metus scelerisque ultrices. Sed purus.

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 230 adipiscing et, ante. In justo. Cras lobortis neque ac ipsum. Nunc fermentum massa at ante. Donec
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 232 Mauris vel metus. Aliquam erat volutpat. In rhoncus sapien ac tellus. Pellentesque ligula.

233 Cras dapibus, augue quis scelerisque ultricies, felis dolor placerat sem, id porta velit odio eu elit.
 234 Aenean interdum nibh sed wisi. Praesent sollicitudin vulputate dui. Praesent iaculis viverra augue.
 235 Quisque in libero. Aenean gravida lorem vitae sem ullamcorper cursus. Nunc adipiscing rutrum
 236 ante. Nunc ipsum massa, faucibus sit amet, viverra vel, elementum semper, orci. Cras eros sem,
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 241 porta vitae, turpis. Nullam laoreet fermentum urna. Proin iaculis lectus.

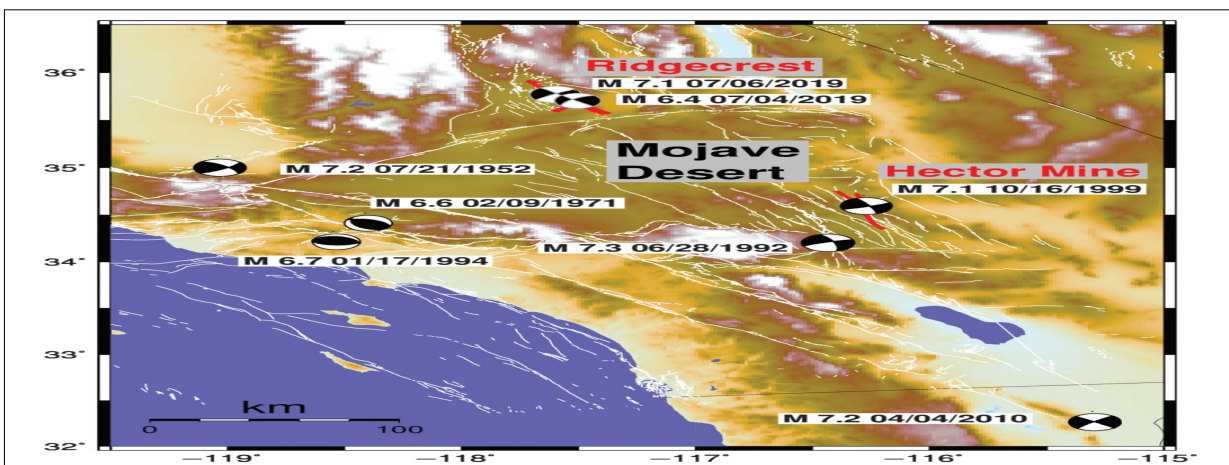


Figure 5: Figure caption goes here. a) Figure caption goes here and provides a brief description of the illustration. Figure caption goes here and explains the main elements shown in the figure. b) Figure caption goes here to indicate how different cases or panels may be interpreted. Figure caption goes here to describe relationships, trends, or schematic features presented. d) Figure caption goes here.

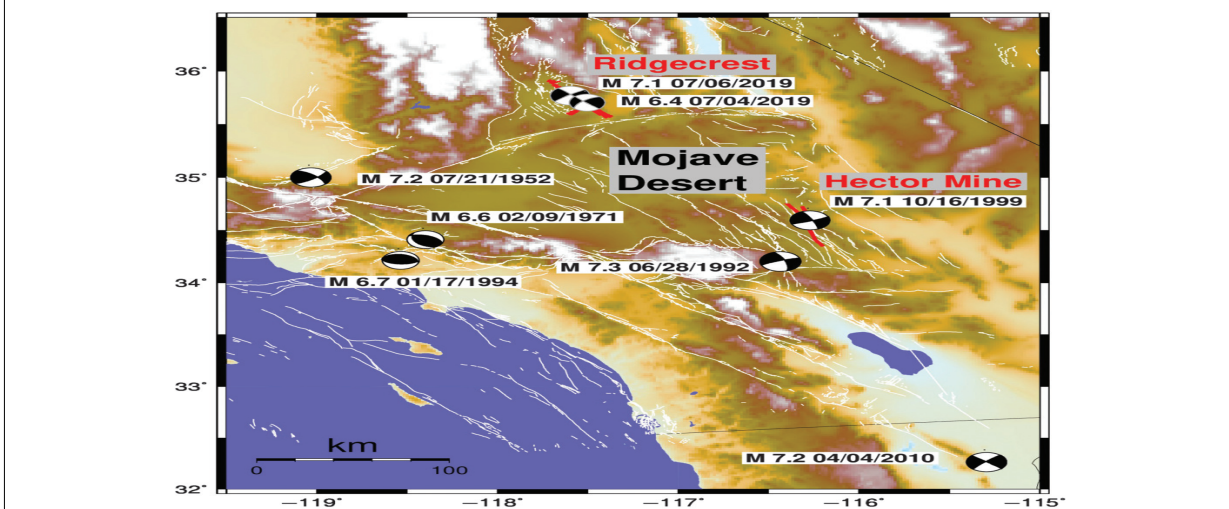


Figure 6: Figure caption goes here. a) Figure caption goes here and provides a brief description of the illustration. Figure caption goes here and explains the main elements shown in the figure. b) Figure caption goes here to indicate how different cases or panels may be interpreted. Figure caption goes here to describe relationships, trends, or schematic features presented. d) Figure caption goes here.

242 [1] [4] [7] [6] [5] [8] [3] [2] [9]

- 243 • \citethisauthor{First, A., A. Second, and A. Third}
- 244 • \vol{2}
- 245 • \iss{1}
- 246 • \doi{00.0000/0000000000}
- 247 • \recdate{00 Month 0000}

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260 STATEMENTS AND DECLARATIONS

261 Supplementary Material

262 All supplementary or supporting information provided by the authors will be published online
263 alongside the main article. When such material is available, it will also be indicated here along
264 with a link to the pdf for downloading.

265 Acknowledgments

266 Acknowledge any individuals or organizations that contributed to the research but do not qualify
267 as authors. Include funding sources if not already mentioned.

268 Author Contributions

269 Provide a detailed account of each author's contributions to the research and writing of the pa-
270 per, following the CRediT (Contributor Roles Taxonomy) format (<https://credit.niso.org/>). Author
271 1: Conceptualization, Investigation, Methodology, Software, Visualization, Writing - original
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274 Conceptualization, Investigation. **Author 5:** Investigation. **Author 6:** Conceptualization, Writing -
275 Review & Editing.

276 Conflicts of Interest

277 Disclose any actual or potential conflicts of interest that could influence the research. If there are
278 no conflicts, state this explicitly.

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284 Funding Received

285 List all sources of funding or financial support received for the research. Include grant numbers
286 and the names of funding organizations.

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