JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 111, B06403, doi:10.1029/2005JB004025, 2006

Auxiliary Material

Auxiliary Material for this article contains historical accounts of the 1797 and 1833 earthquakes and tsunami and descriptions of three of the paleoseismic sites used in this paper.

Auxiliary material files may require downloading to a local drive depending on platform, browser, configuration, and size. To open auxiliary materials in a browser, click on the label. To download, Right-click and select 'Save Target As...'(PC) or CTRL-click and select 'Download Link to Disk' (Mac).

See Plugins for a list of applications and supported file formats.

Additional information is available in the readme.txt

Table S1

Size: 3 KB

Format: TXT

Caption: The ²³⁰Th ages from samples of the microatoll samples from sites Singinggi, Silabu and Silogui.

Figure S1

Size: 551 KBFormat: EPSRecommended for viewing: GhostViewCaption: Photographs of the Singingi site, off the northeast coast of South Pagai island.

Figure S2

Size: 1365 KBFormat: EPSRecommended for viewing: GhostViewCaption: Map of the Singingi site shows broad shallow reef east of mangrove thicket.

Figure S3

Size: 1.9 MB Format: EPS Recommended for viewing: GhostView

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Caption: Record of sea level change in living microatoll Sgg03A3.

Figure S4

Size: 5.0 MBFormat: EPSRecommended for viewing: GhostViewCaption: Record of sea level change in fossil microatoll Sgg03A1.

Figure S5

Size: 1.3 MBFormat: EPSRecommended for viewing: GhostViewCaption: Record of sea level changes in hat-shaped fossil microatoll Sgg03A2.

Figure S6

Size: 1.5 MBFormat: EPSRecommended for viewing: GhostViewCaption: Silabu site, southwestern coast of North Pagai island.

Figure S7

Size: 7.5 MBFormat: EPSRecommended for viewing: GhostViewCaption: Photos of mangrove snags protruding from the modern beach at Silabu site.

Figure S8

Size: 569 KBFormat: EPSRecommended for viewing: GhostViewCaption: Modern history of sea level change revealed in microatoll Slb00A1.

Figure S9

Size: 1.1 MB Format: EPS Recommended for viewing: GhostView

Caption: History of sea level change at Silabu site between 1797 and 1833 revealed in microatoll NP94A8.

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Figure S10

Size: 561 KB
Format: EPS
Recommended for viewing: GhostView
Caption: History of sea level change at Silabu site in the decades leading up to 1797
revealed in fossil microatoll Slb00A4.

Figure S11

Size: 747 KB Format: EPS Recommended for viewing: GhostView

Caption: History of sea level change at Silabu site from about 1670 through 1715 revealed in fossil microatoll Slb00A3.

Figure S12

Size: 762 KB Format: EPS Recommended for viewing: GhostView

and fossil heads about 150 m offshore.

Caption: History of sea level change at Silabu site through the mid-18th century revealed in fossil microatoll Slb00A3.

Figure S13

Size: 552 KB
Format: EPS
Recommended for viewing: GhostView
Caption: Map of Silogui site on the central east coast of Siberut shows cluster of modern

Figure S14

Size: 715 KB
Format: EPS
Recommended for viewing: GhostView
Caption: Fossil microatoll Slg02A1 provides evidence of uplift sometime after about 1795, probably in 1797 and perhaps also in 1833.

Text S1

Size: 33 KB Format: TXT Caption: Translated accounts of the 1797 and 1833 earthquakes and tsunamis.

Text S2

Size: 12 KB

Format: TXT

Caption: Descriptive data from three paleoseismic sites on the coasts of the Mentawai islands.



Citation: Natawidjaja, D. H., K. Sieh, M. Chlieh, J. Galetzka, B. W. Suwargadi, H. Cheng, R. L. Edwards, J.-P. Avouac, and S. N. Ward (2006), Source parameters of the great Sumatran megathrust earthquakes of 1797 and 1833 inferred from coral microatolls, *J. Geophys. Res.*, *111*, B06403, doi:10.1029/2005JB004025.

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Enhanced Figures

Enhanced figures may be previewed with GhostView for .eps or IrfanView for .tif files. See Plugins. To download these files for viewing, Right-click (PC) or CTRL-click (Mac).



Figure 1. Enhanced EPS [3.2 MB]



Figure 2. Enhanced EPS [1.2 MB]



Figure 3. Enhanced EPS [1.3 MB]



Figure 4. Enhanced EPS [376 KB]



Figure 5. Enhanced EPS [714 KB]

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Figure 6. Enhanced EPS [628 KB]

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Figure 9. Enhanced EPS [1.3 MB]



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Figure 12. Enhanced EPS [333 KB]

Figure 13. Enhanced EPS [657 KB]



Figure 14. Enhanced EPS [628 KB]



Figure 15. Enhanced EPS [5.8 MB]



Figure 16. Enhanced EPS [1.0 MB]

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Figure 21. Enhanced EPS [705 KB]



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Figure 22. Enhanced EPS [1.8



Figure 23. Enhanced EPS [2.1 MB]

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Figure 25. Enhanced EPS [972 KB]





Figure 26. Enhanced EPS [2.5 MB] [2.9 MB]



Figure 27. Enhanced EPS [2.6 MB]



Figure 28. Enhanced EPS [45.9 MB]



Figure 29. Enhanced EPS [3.4 MB]



Figure A1. Enhanced EPS [1.6 MB]





Figure B1. Enhanced EPS [283 KB]



Citation: Natawidjaja, D. H., K. Sieh, M. Chlieh, J. Galetzka, B. W. Suwargadi, H. Cheng, R. L. Edwards, J.-P. Avouac, and S. N. Ward (2006), Source parameters of the great Sumatran megathrust earthquakes of 1797 and 1833 inferred from coral microatolls, *J. Geophys. Res.*, *111*, B06403, doi:10.1029/2005JB004025.

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