# APPENDIX A

## Continuous GPS Position Time Series

## Relative to Stable North America

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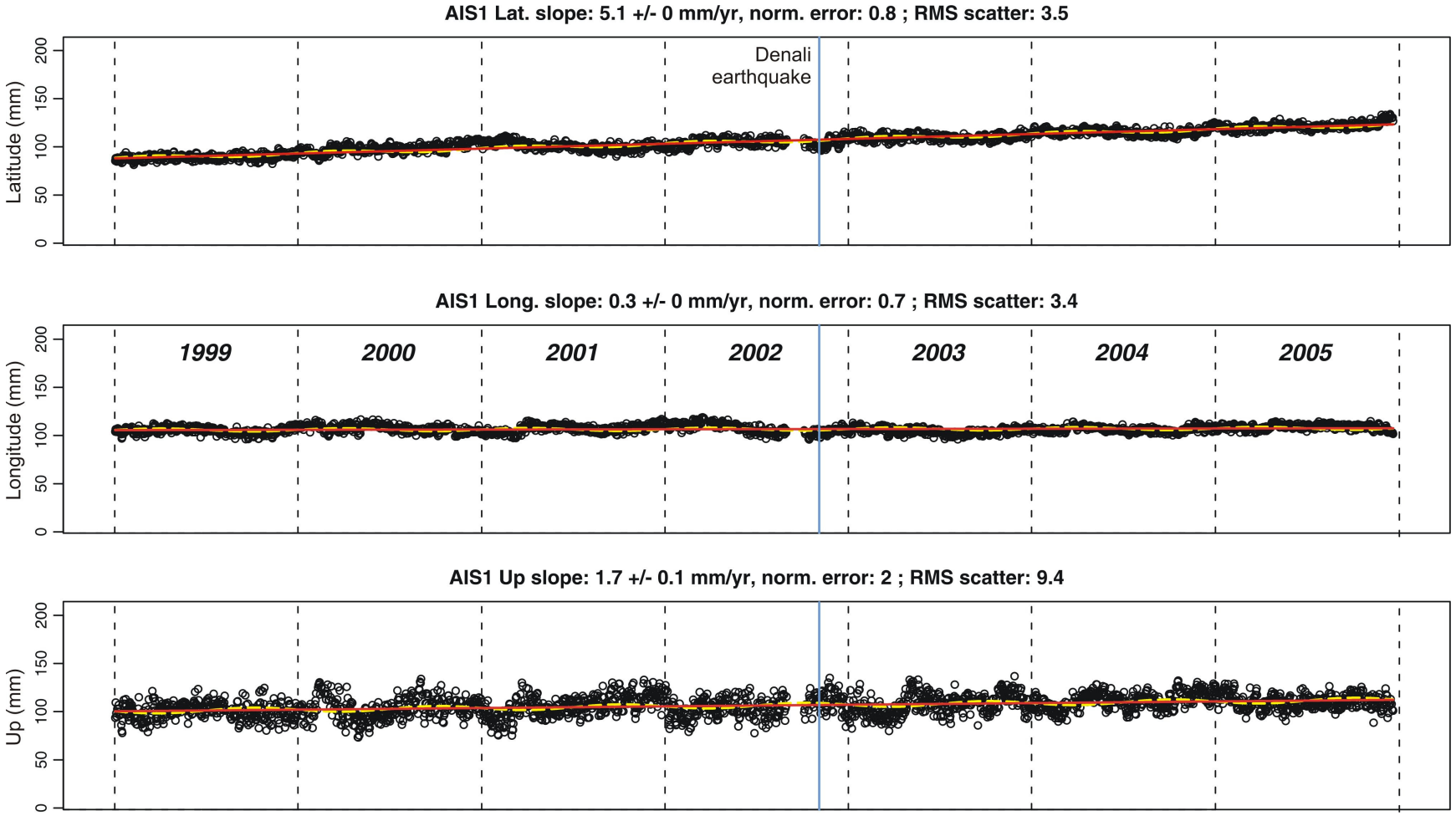
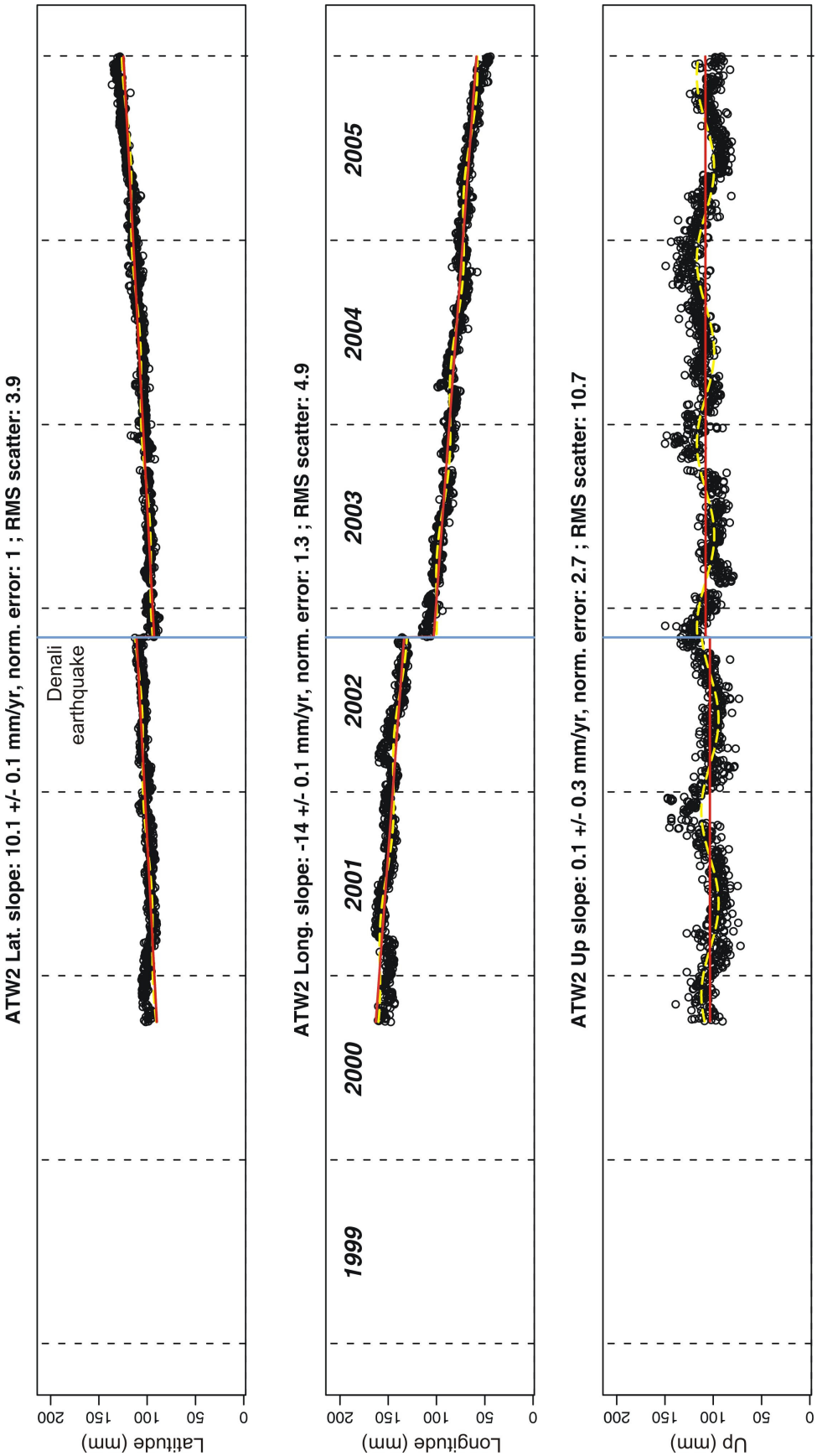
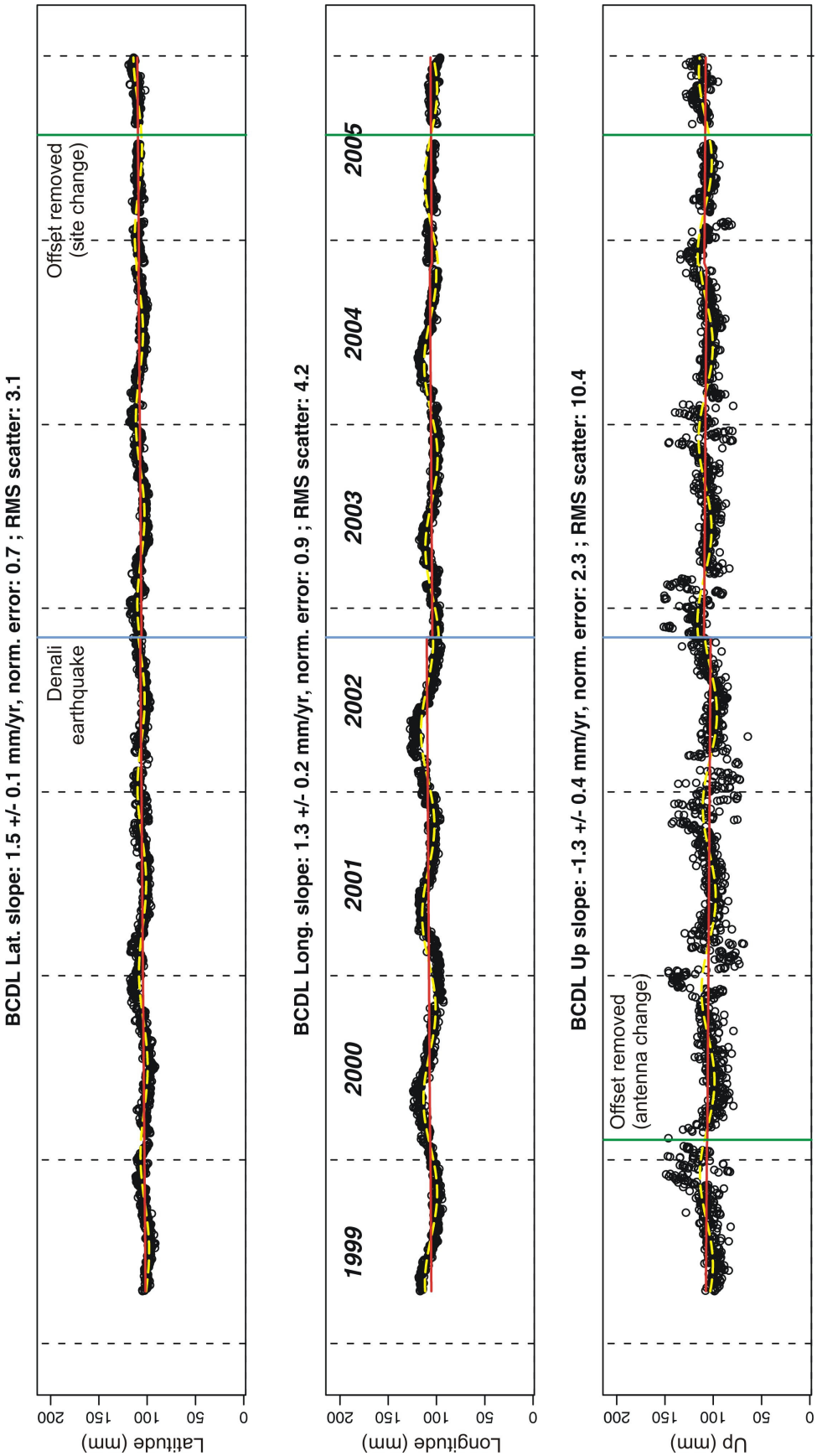
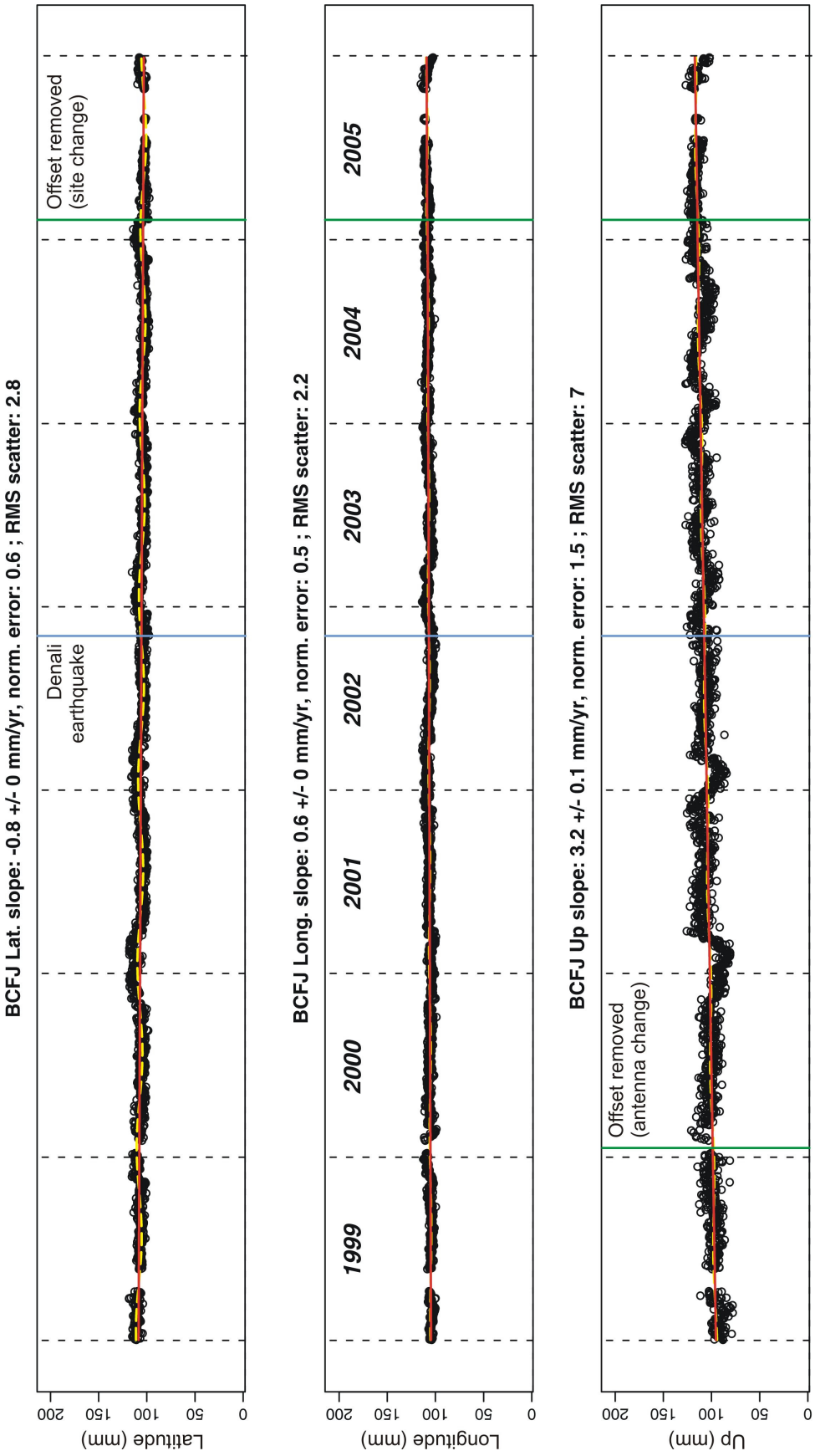
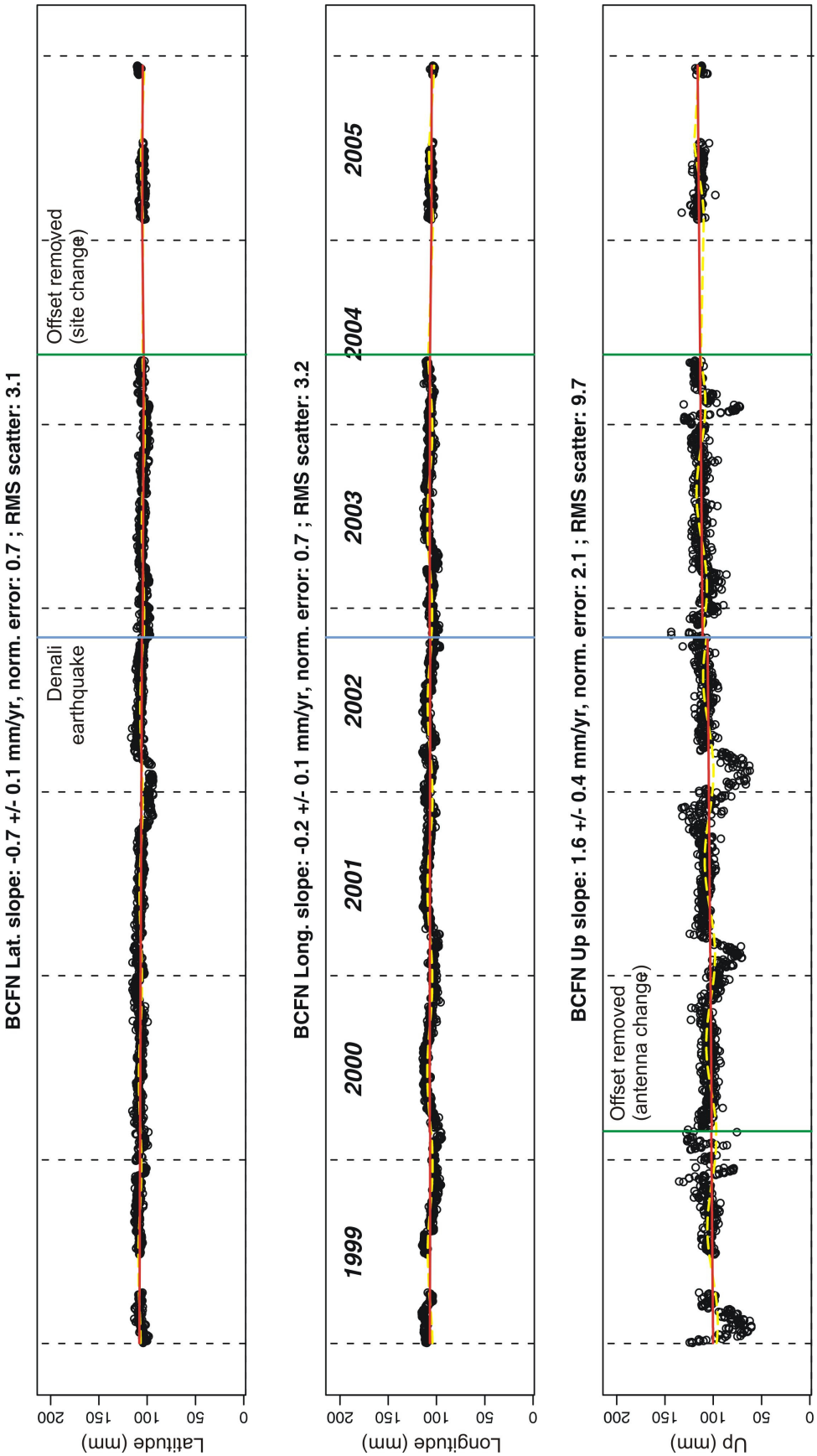
The following time series plots show the average daily position (longitude, latitude, elevation) of each continuous GPS site relative to stable North America. The red lines are the best-fit velocity of each component, while the yellow dashed lines show the modelled seasonal trend.

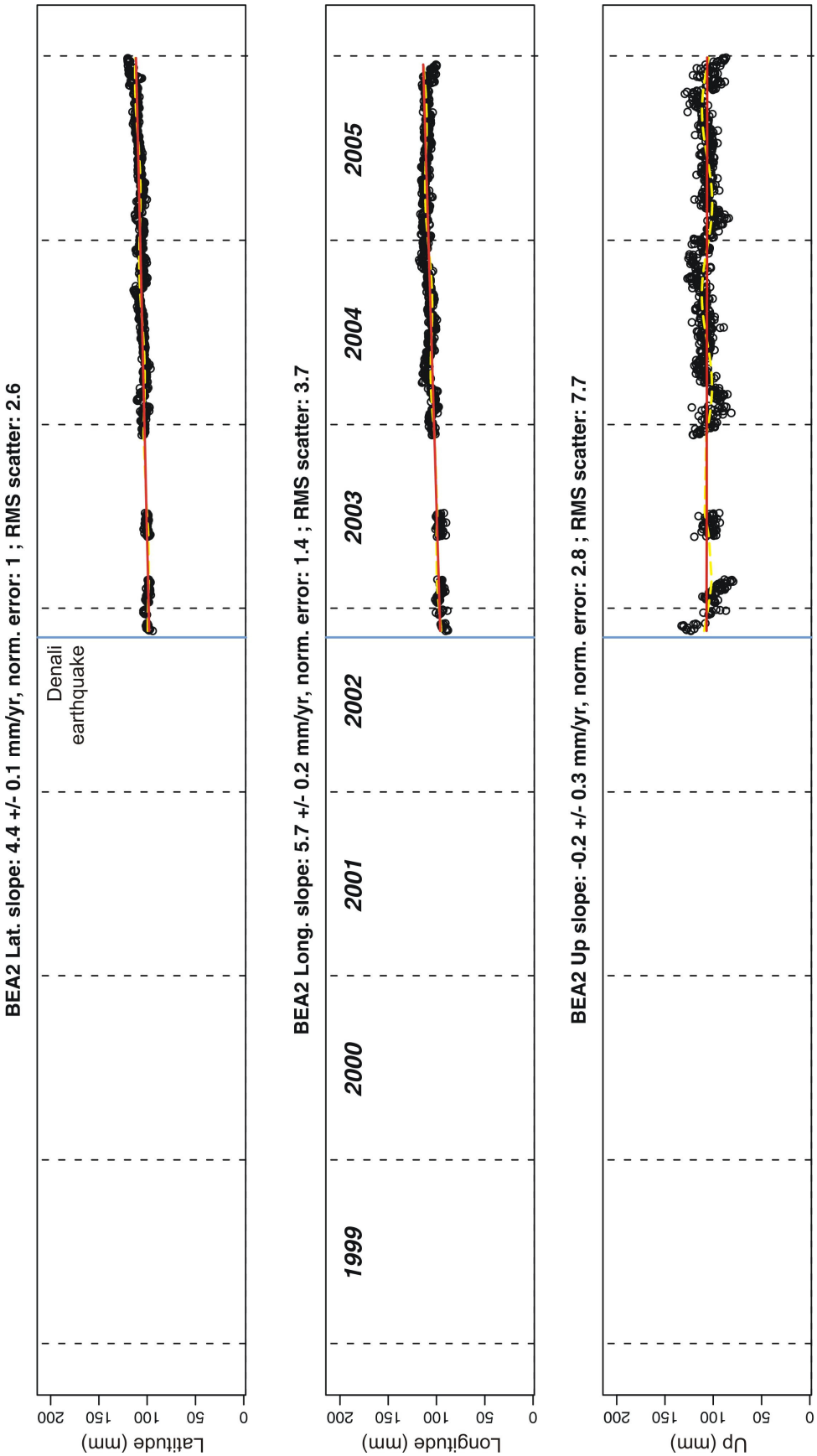

AIS1 Lat. slope: 5.1 +/- 0 mm/yr, norm. error: 0.8 ; RMS scatter: 3.5
Latitude (mm)
Denali
earthquake
AIS1 Long. slope: 0.3 +/- 0 mm/yr, norm. error: 0.7 ; RMS scatter: 3.4
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
AIS1 Up slope: 1.7 +/- 0.1 mm/yr, norm. error: 2 ; RMS scatter: 9.4
Up (mm)
0
50
100
150
200

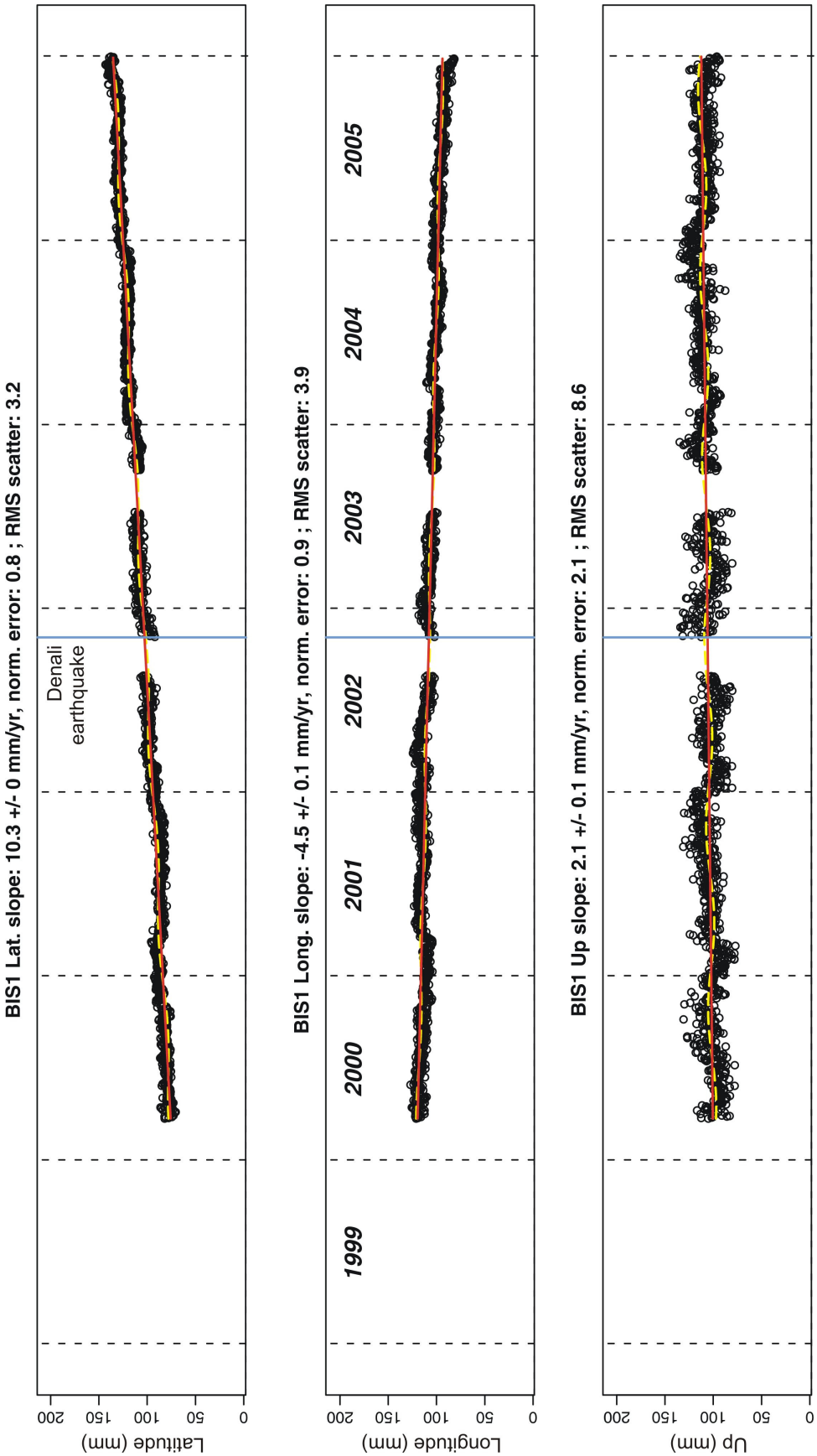

ATW2 Lat. slope: 10.1 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 3.9
Denali earthquake
Latitude (mm)
0
50
100
150
200
ATW2 Long. slope: -14 +/- 0.1 mm/yr, norm. error: 1.3 ; RMS scatter: 4.9
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
ATW2 Up slope: 0.1 +/- 0.3 mm/yr, norm. error: 2.7 ; RMS scatter: 10.7
Up (mm)
0
50
100
150
200

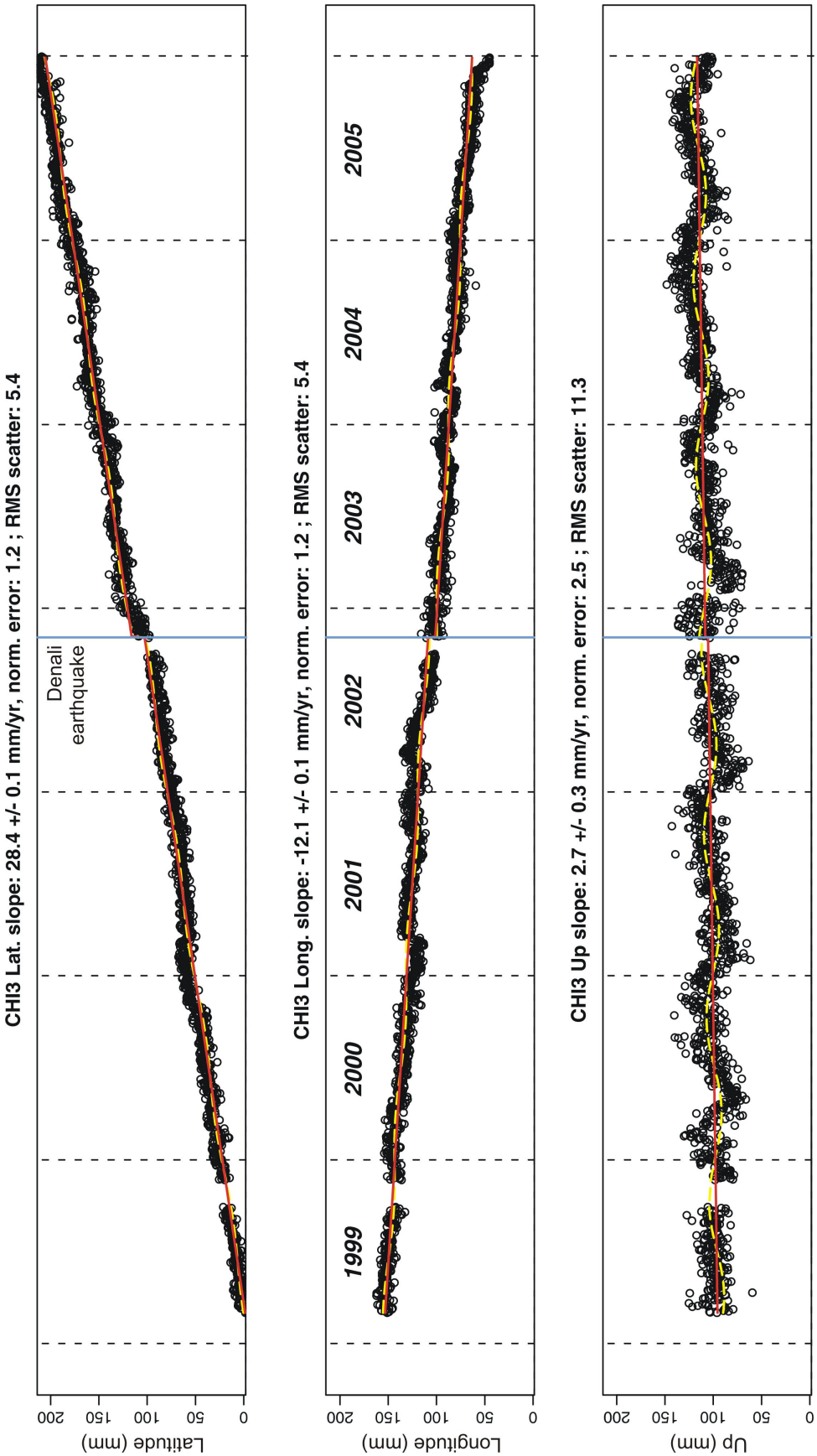

BCDL Lat. slope: 1.5 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 3.1
Latitude (mm)
0
50
100
150
200
Denali earthquake
Offset removed (site change)
BCDL Long. slope: 1.3 +/- 0.2 mm/yr, norm. error: 0.9 ; RMS scatter: 4.2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
BCDL Up slope: -1.3 +/- 0.4 mm/yr, norm. error: 2.3 ; RMS scatter: 10.4
Up (mm)
Offset removed (antenna change)

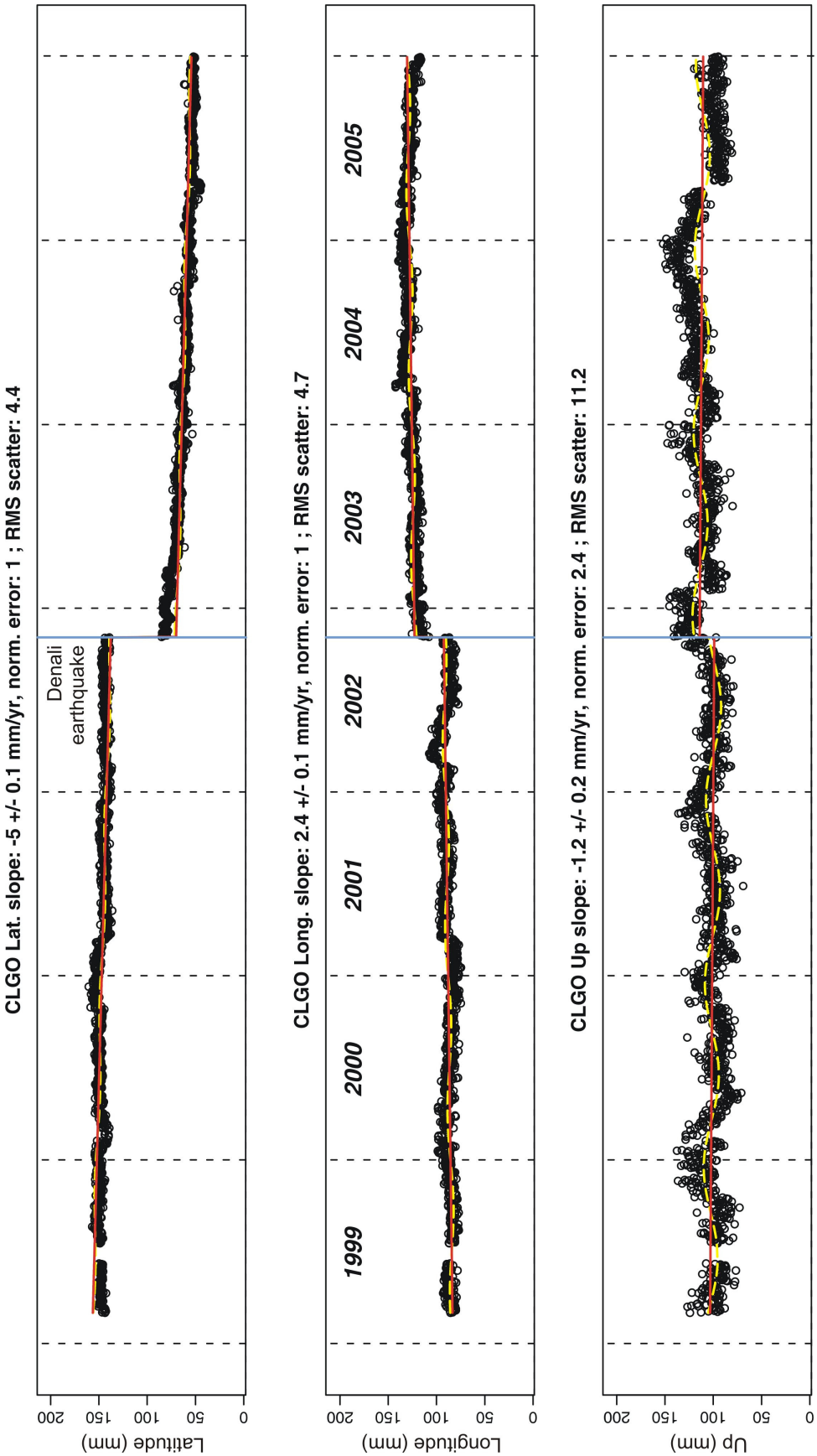

BCFJ Lat. slope: -0.8 +/- 0 mm/yr, norm. error: 0.6 ; RMS scatter: 2.8
Denali earthquake
Offset removed (site change)
Latitude (mm)
BCFJ Long. slope: 0.6 +/- 0 mm/yr, norm. error: 0.5 ; RMS scatter: 2.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
BCFJ Up slope: 3.2 +/- 0.1 mm/yr, norm. error: 1.5 ; RMS scatter: 7
Offset removed (antenna change)
Up (mm)
0
50
100
150
200

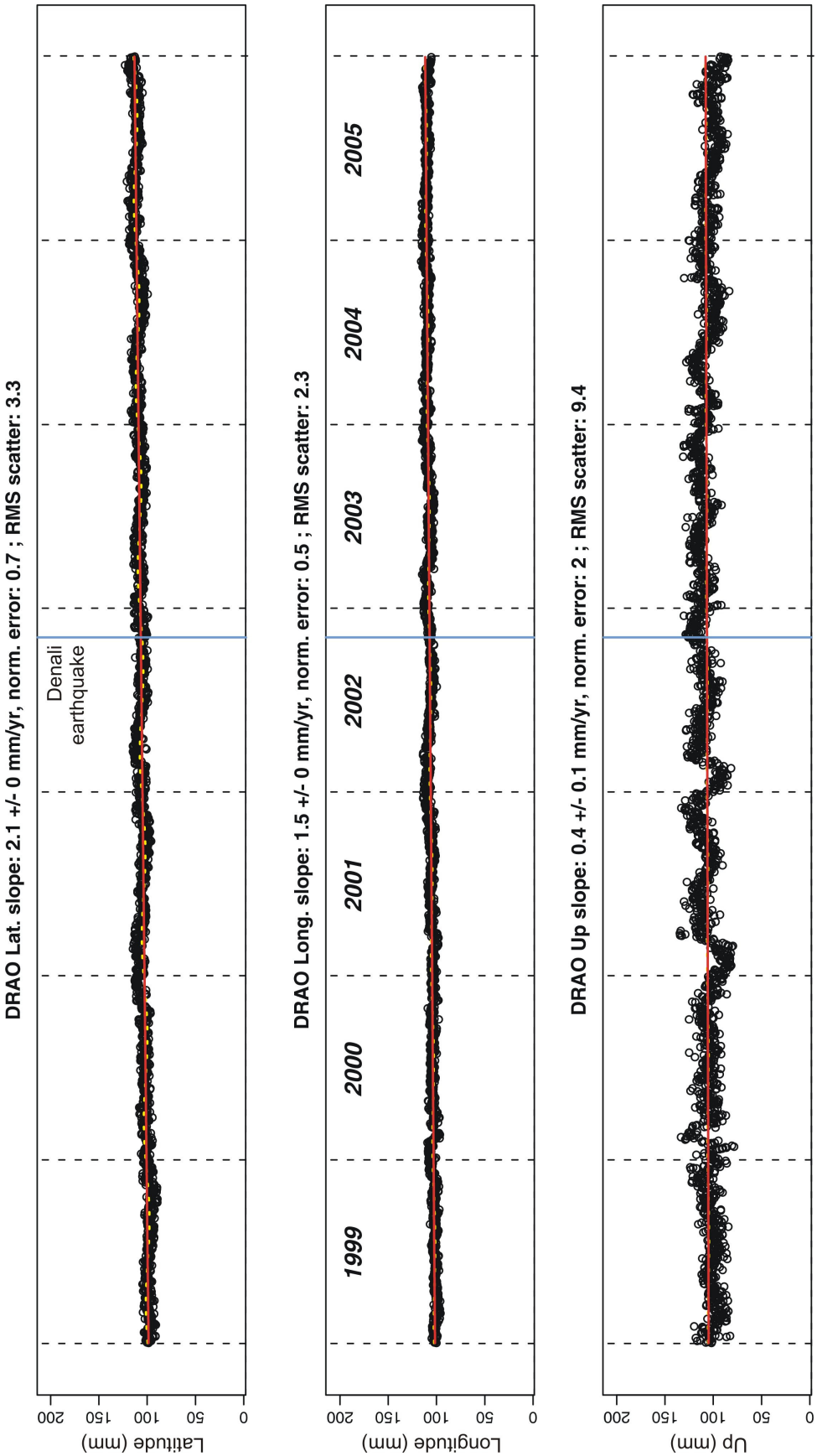

BCFN Lat. slope: -0.7 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 3.1
Denali earthquake
Offset removed (site change)
Latitude (mm)
0
50
100
150
200
BCFN Long. slope: -0.2 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 3.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
BCFN Up slope: 1.6 +/- 0.4 mm/yr, norm. error: 2.1 ; RMS scatter: 9.7
Offset removed (antenna change)
Up (mm)
0
50
100
150
200

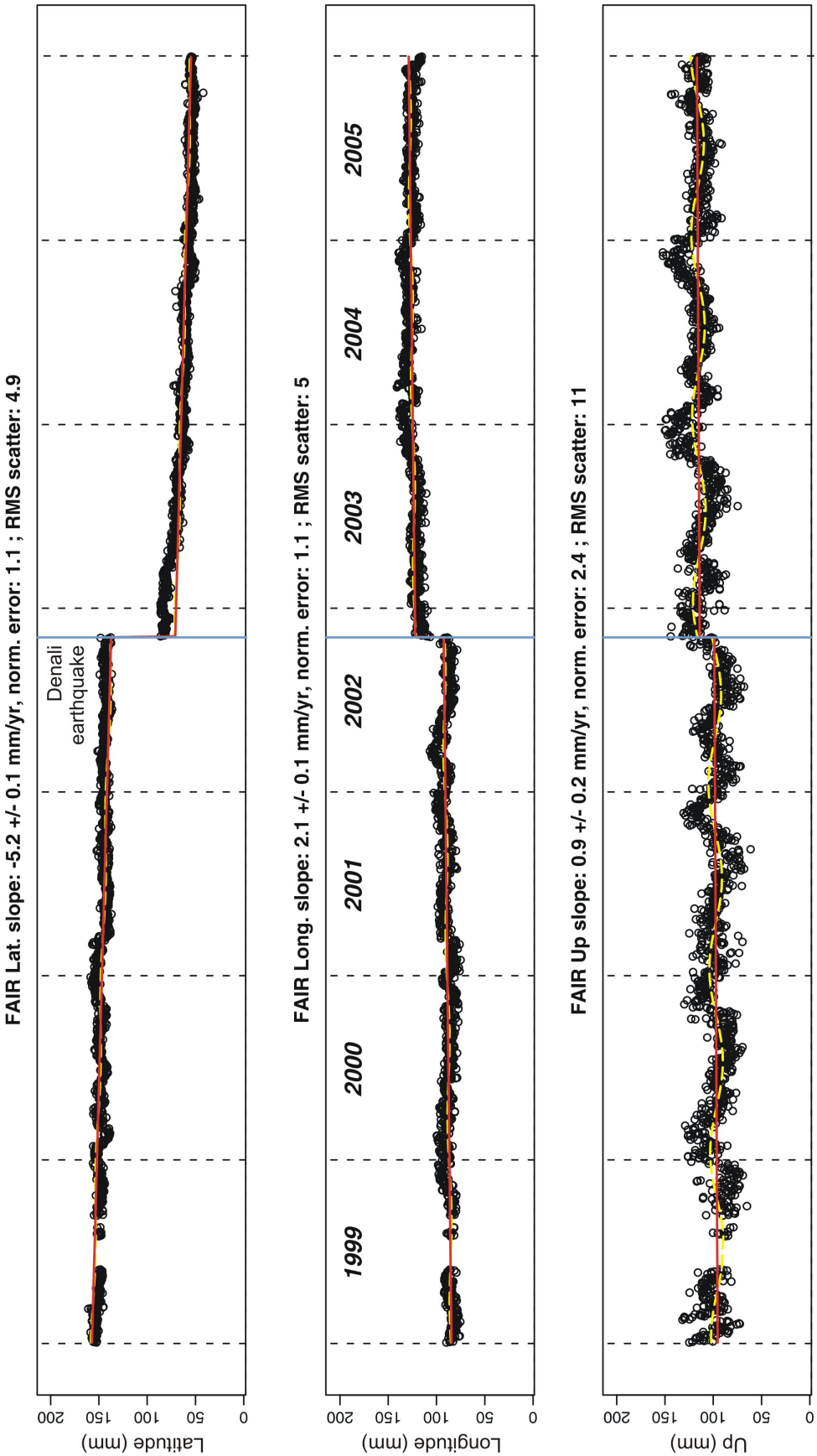

BEA2 Lat. slope: 4.4 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 2.6
Latitude (mm)
0
50
100
150
200
Denali earthquake
BEA2 Long. slope: 5.7 +/- 0.2 mm/yr, norm. error: 1.4 ; RMS scatter: 3.7
Longitude (mm)
0
50
100
150
200
1999
2000
2001
2002
2003
2004
2005
BEA2 Up slope: -0.2 +/- 0.3 mm/yr, norm. error: 2.8 ; RMS scatter: 7.7
Up (mm)
0
50
100
150
200

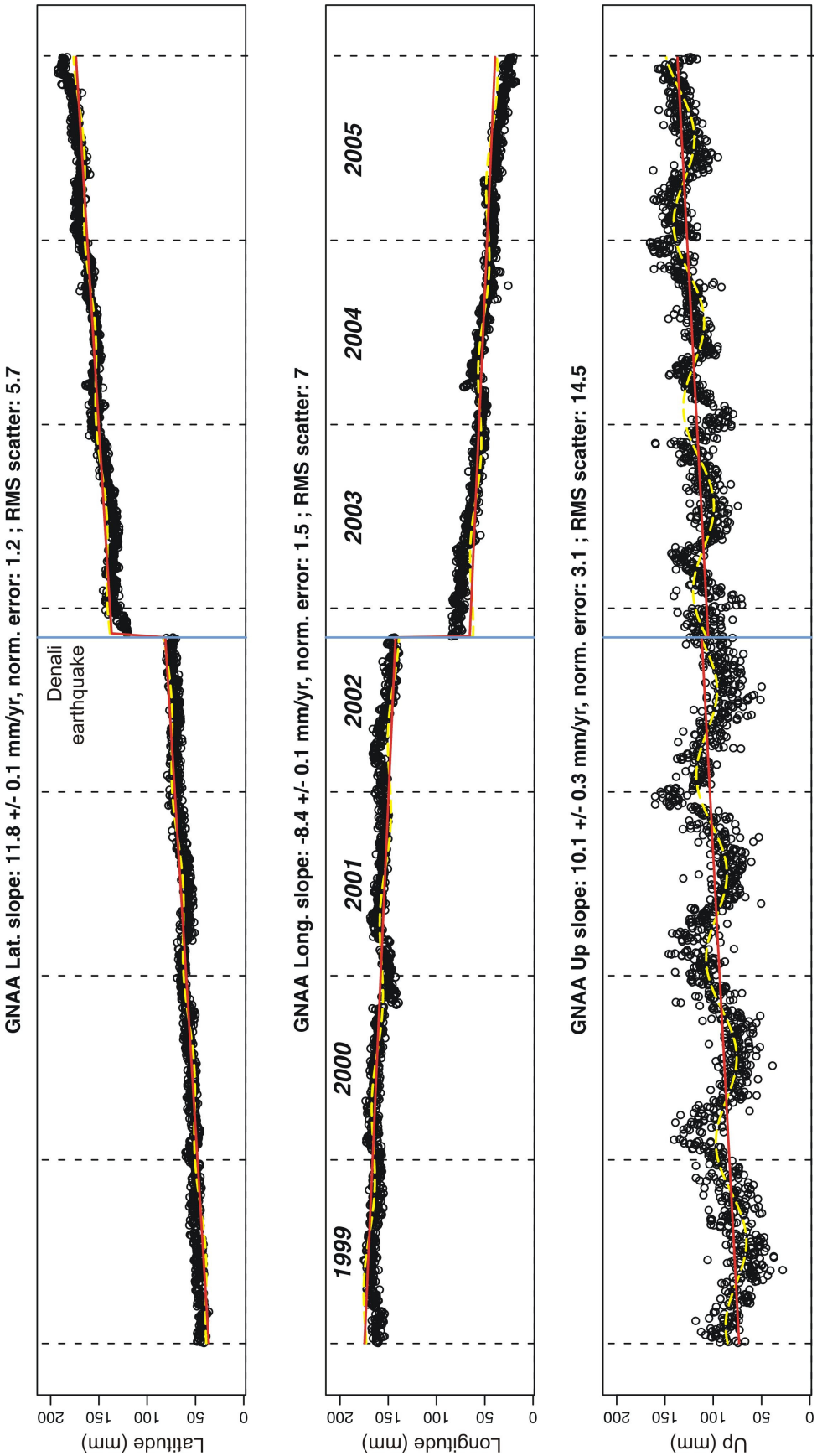

BIS1 Lat. slope: 10.3 +/- 0 mm/yr, norm. error: 0.8 ; RMS scatter: 3.2
Denali earthquake
Latitude (mm)
0
50
100
150
200
BIS1 Long. slope: -4.5 +/- 0.1 mm/yr, norm. error: 0.9 ; RMS scatter: 3.9
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
BIS1 Up slope: 2.1 +/- 0.1 mm/yr, norm. error: 2.1 ; RMS scatter: 8.6
Up (mm)
0
50
100
150
200

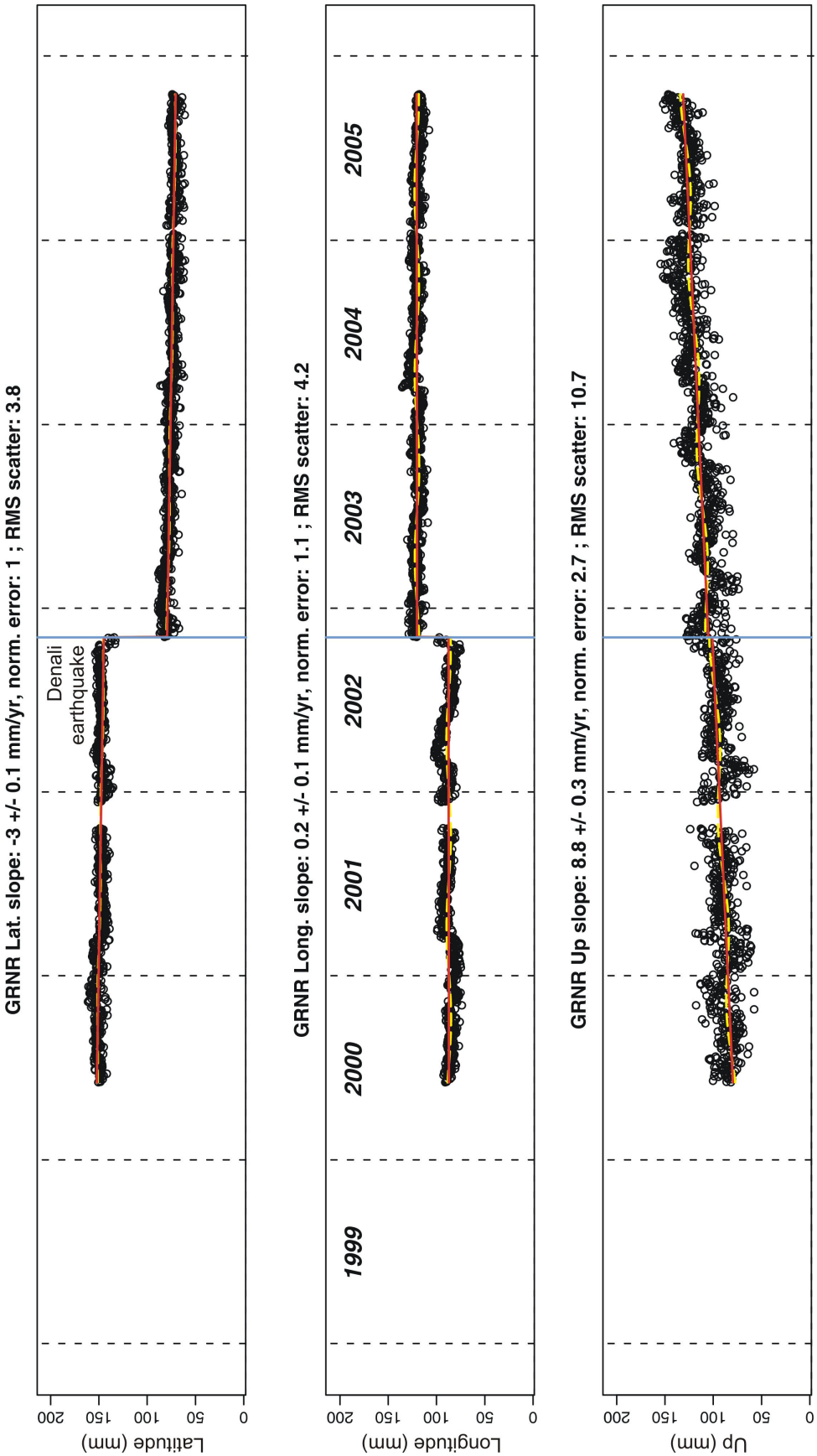

CHI3 Lat. slope: 28.4 +/- 0.1 mm/yr, norm. error: 1.2 ; RMS scatter: 5.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
CHI3 Long. slope: -12.1 +/- 0.1 mm/yr, norm. error: 1.2 ; RMS scatter: 5.4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
CHI3 Up slope: 2.7 +/- 0.3 mm/yr, norm. error: 2.5 ; RMS scatter: 11.3
Up (mm)

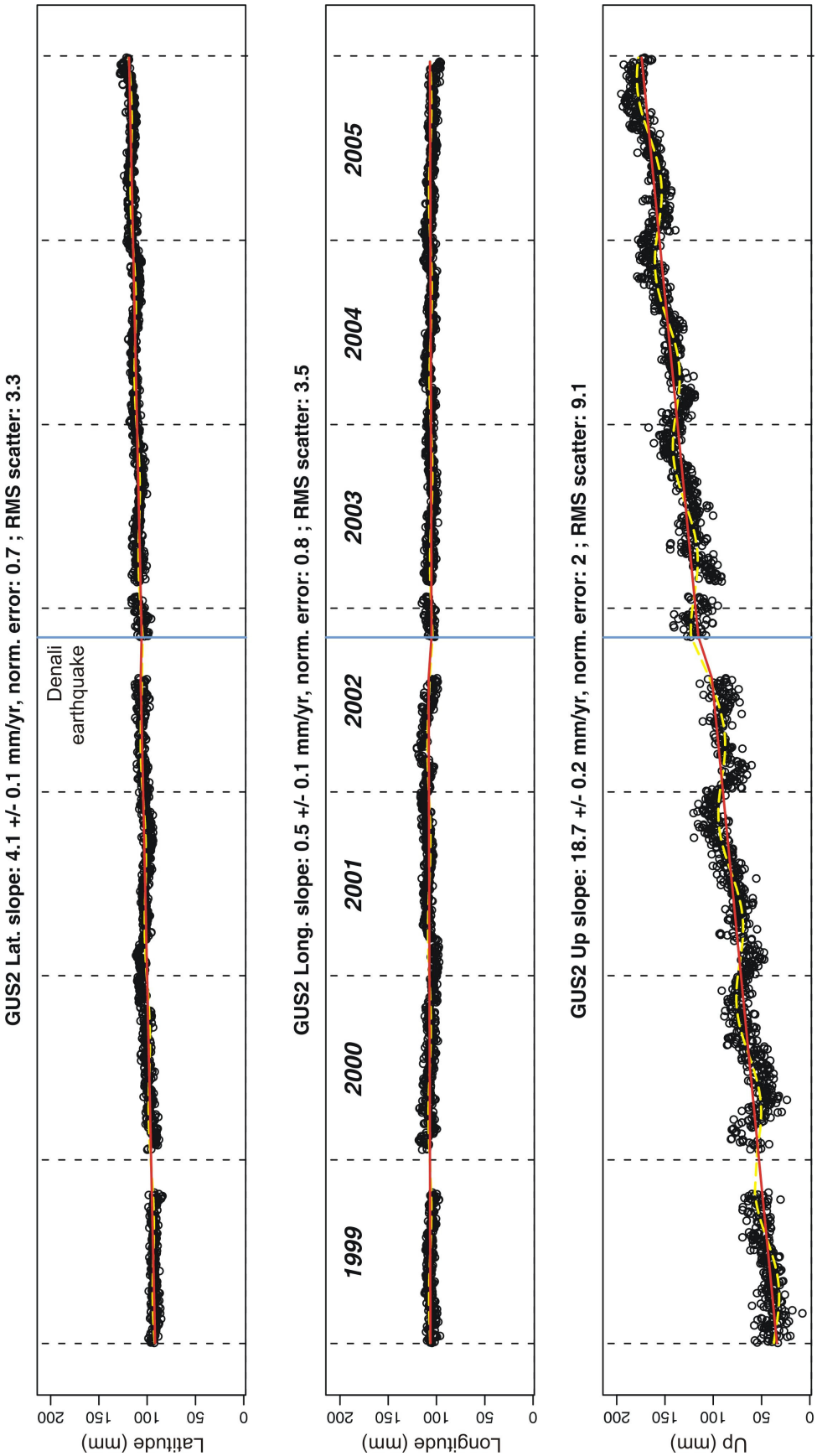

CLGO Lat. slope: -5 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 4.4
Denali earthquake
Latitude (mm)
CLGO Long. slope: 2.4 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 4.7
Longitude (mm)
CLGO Up slope: -1.2 +/- 0.2 mm/yr, norm. error: 2.4 ; RMS scatter: 11.2
Up (mm)
1999
2000
2001
2002
2003
2004
2005
0
50
100
150
200

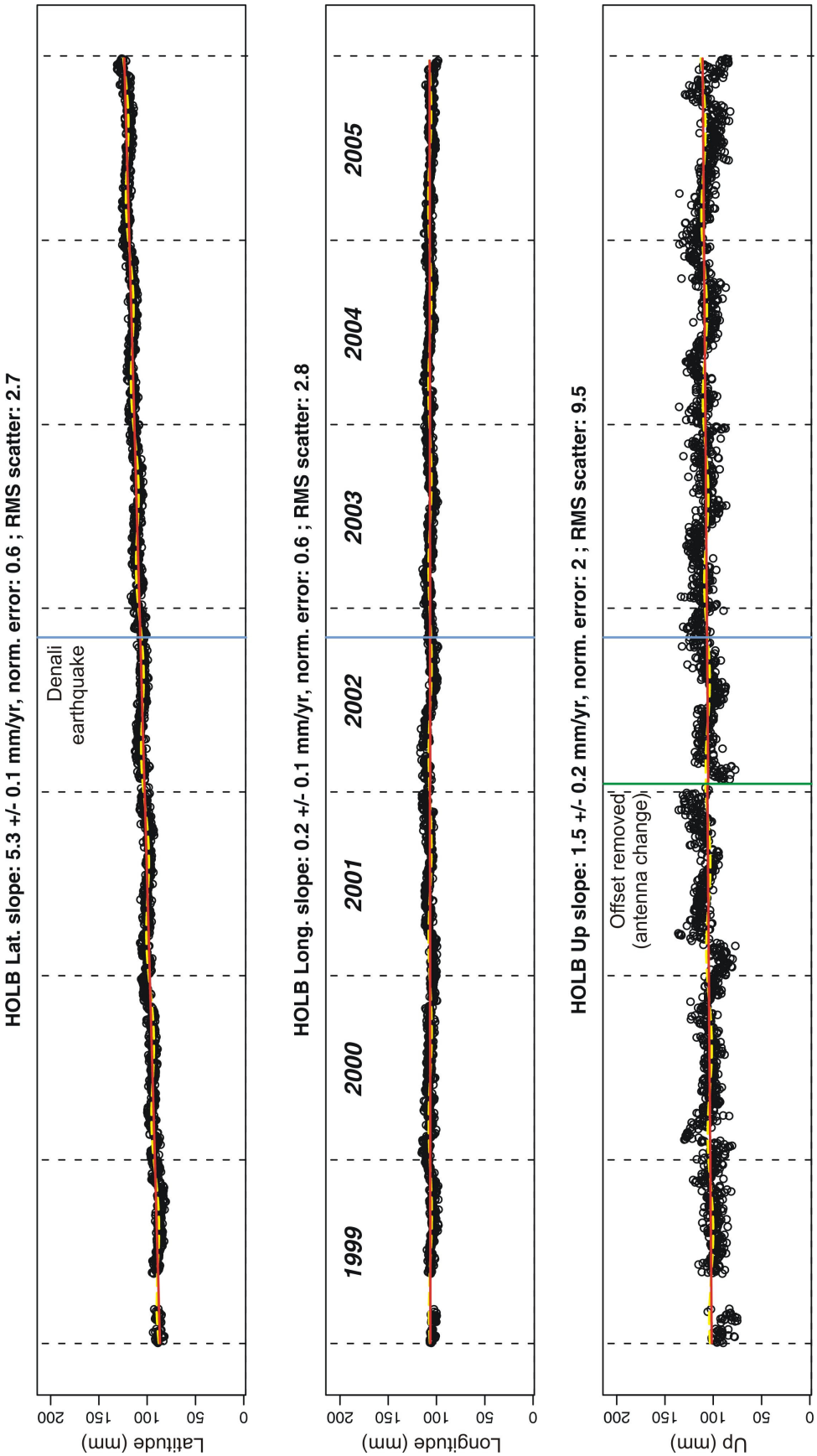

DRAO Lat. slope: 2.1 +/- 0 mm/yr, norm. error: 0.7 ; RMS scatter: 3.3
Denali earthquake
Latitude (mm)
0
50
100
150
200
DRAO Long. slope: 1.5 +/- 0 mm/yr, norm. error: 0.5 ; RMS scatter: 2.3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
DRAO Up slope: 0.4 +/- 0.1 mm/yr, norm. error: 2 ; RMS scatter: 9.4
Up (mm)
0
50
100
150
200

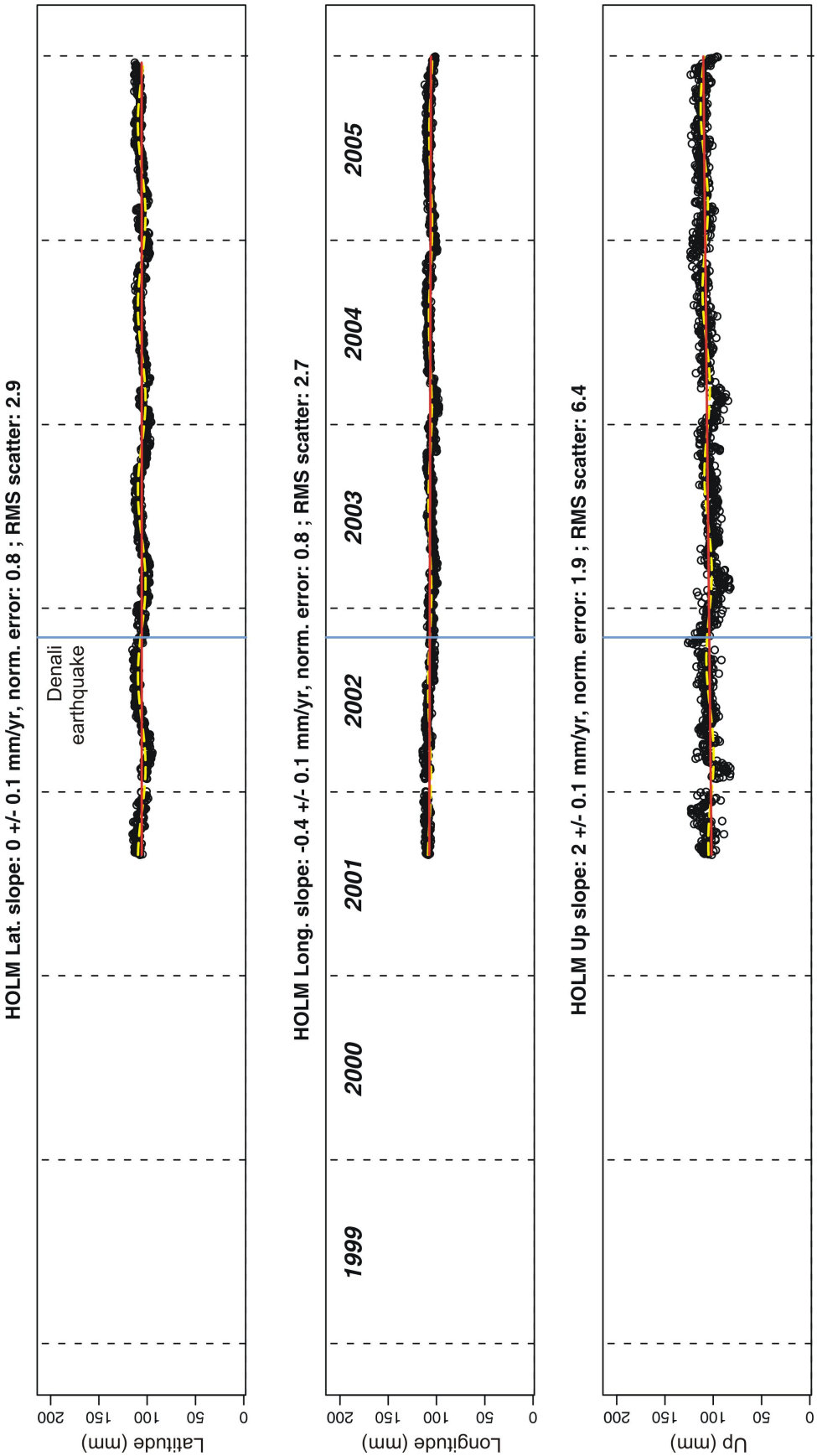

FAIR Lat. slope: -5.2 +/- 0.1 mm/yr, norm. error: 1.1 ; RMS scatter: 4.9
Denali earthquake
Latitude (mm)
0
50
100
150
200
FAIR Long. slope: 2.1 +/- 0.1 mm/yr, norm. error: 1.1 ; RMS scatter: 5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
FAIR Up slope: 0.9 +/- 0.2 mm/yr, norm. error: 2.4 ; RMS scatter: 11
Up (mm)
0
50
100
150
200

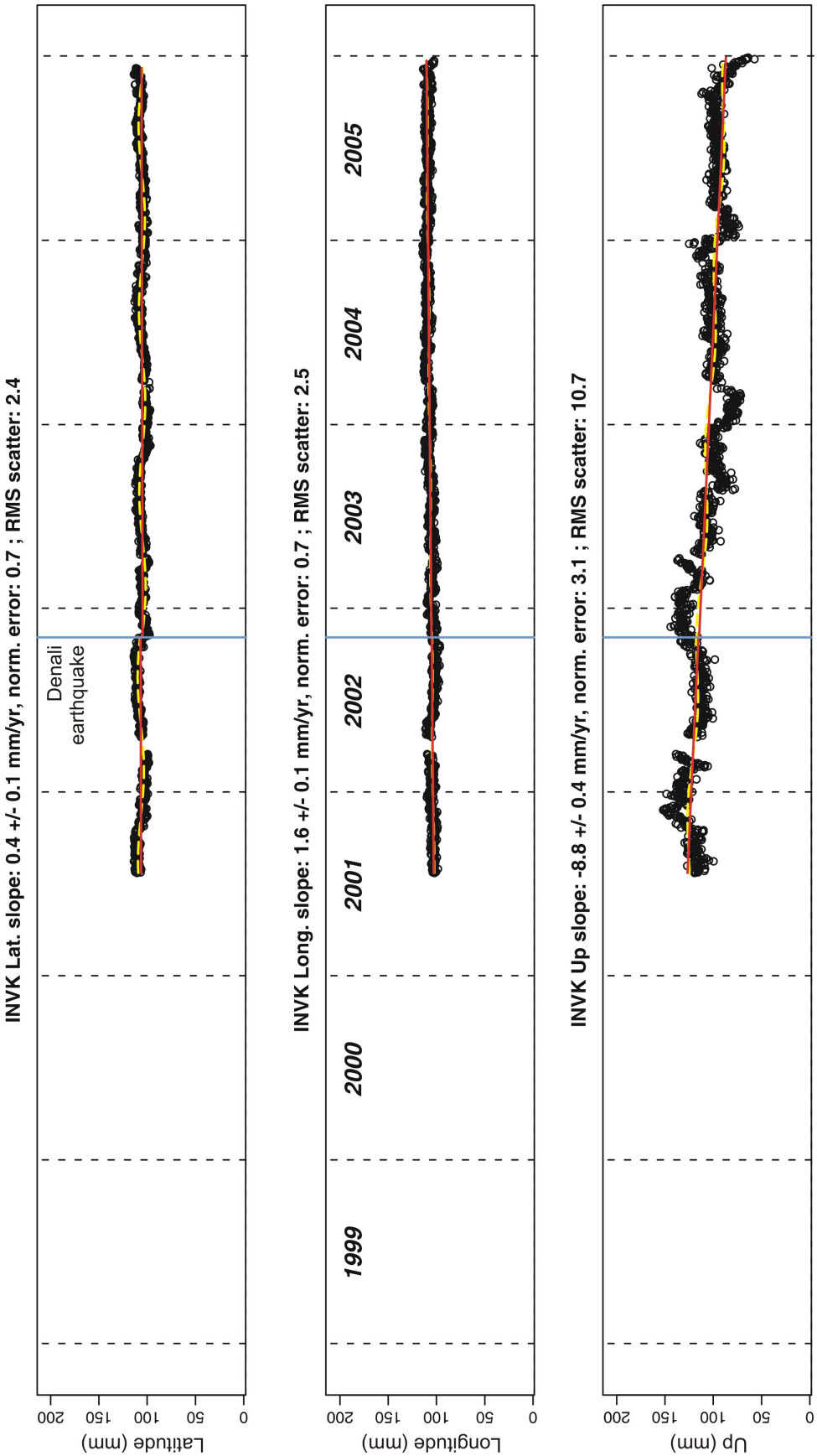

GNAA Lat. slope: 11.8 +/- 0.1 mm/yr, norm. error: 1.2 ; RMS scatter: 5.7
Denali earthquake
Latitude (mm)
0
50
100
150
200
GNAA Long. slope: -8.4 +/- 0.1 mm/yr, norm. error: 1.5 ; RMS scatter: 7
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
GNAA Up slope: 10.1 +/- 0.3 mm/yr, norm. error: 3.1 ; RMS scatter: 14.5
Up (mm)
0
50
100
150
200

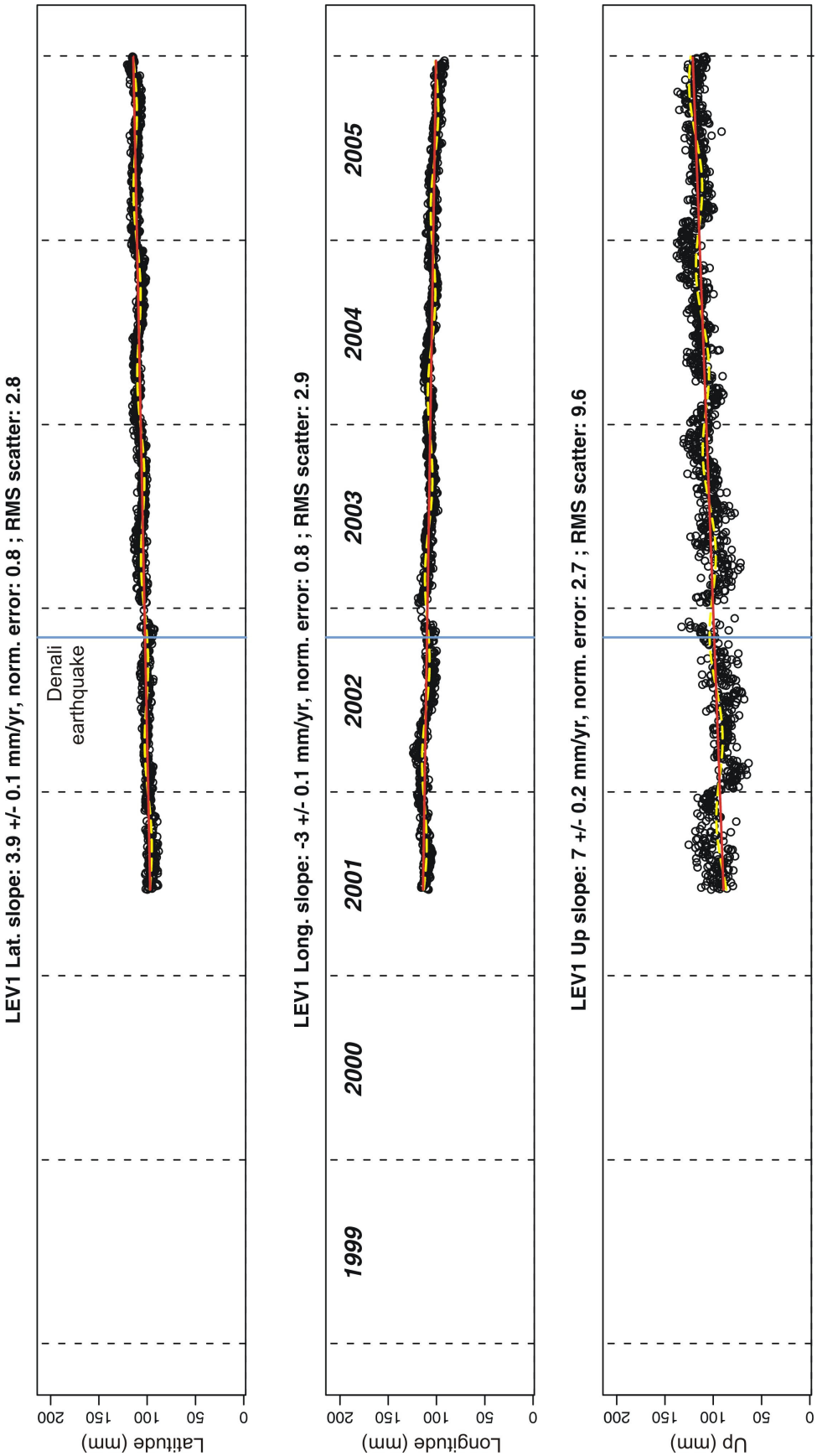

GRNR Lat. slope: -3 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 3.8
Denali earthquake
Latitude (mm)
0
50
100
150
200
GRNR Long. slope: 0.2 +/- 0.1 mm/yr, norm. error: 1.1 ; RMS scatter: 4.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
GRNR Up slope: 8.8 +/- 0.3 mm/yr, norm. error: 2.7 ; RMS scatter: 10.7
Up (mm)

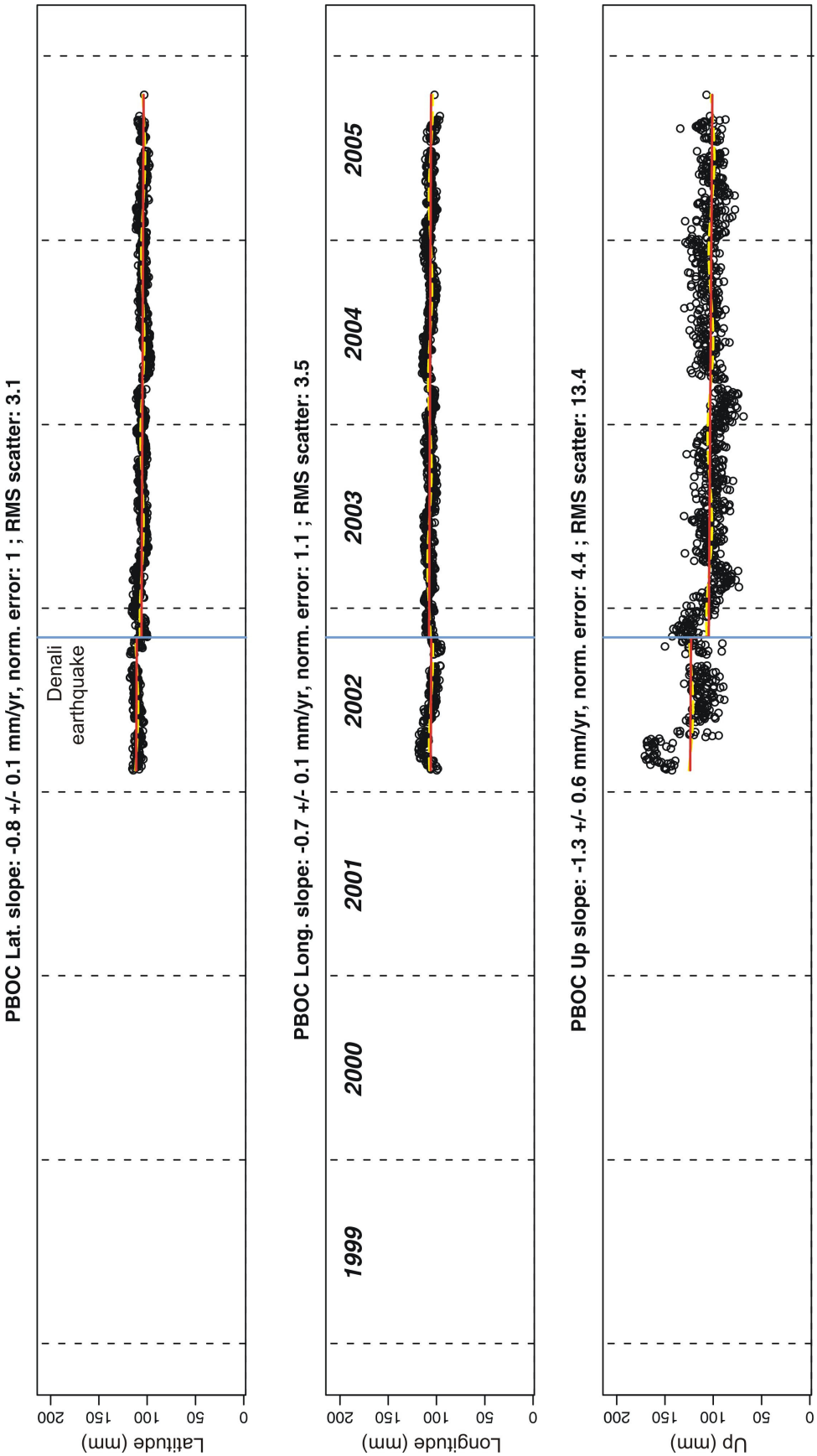

GUS2 Lat. slope: 4.1 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 3.3
Denali earthquake
Latitude (mm)
0
50
100
150
200
GUS2 Long. slope: 0.5 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 3.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
GUS2 Up slope: 18.7 +/- 0.2 mm/yr, norm. error: 2 ; RMS scatter: 9.1
Up (mm)

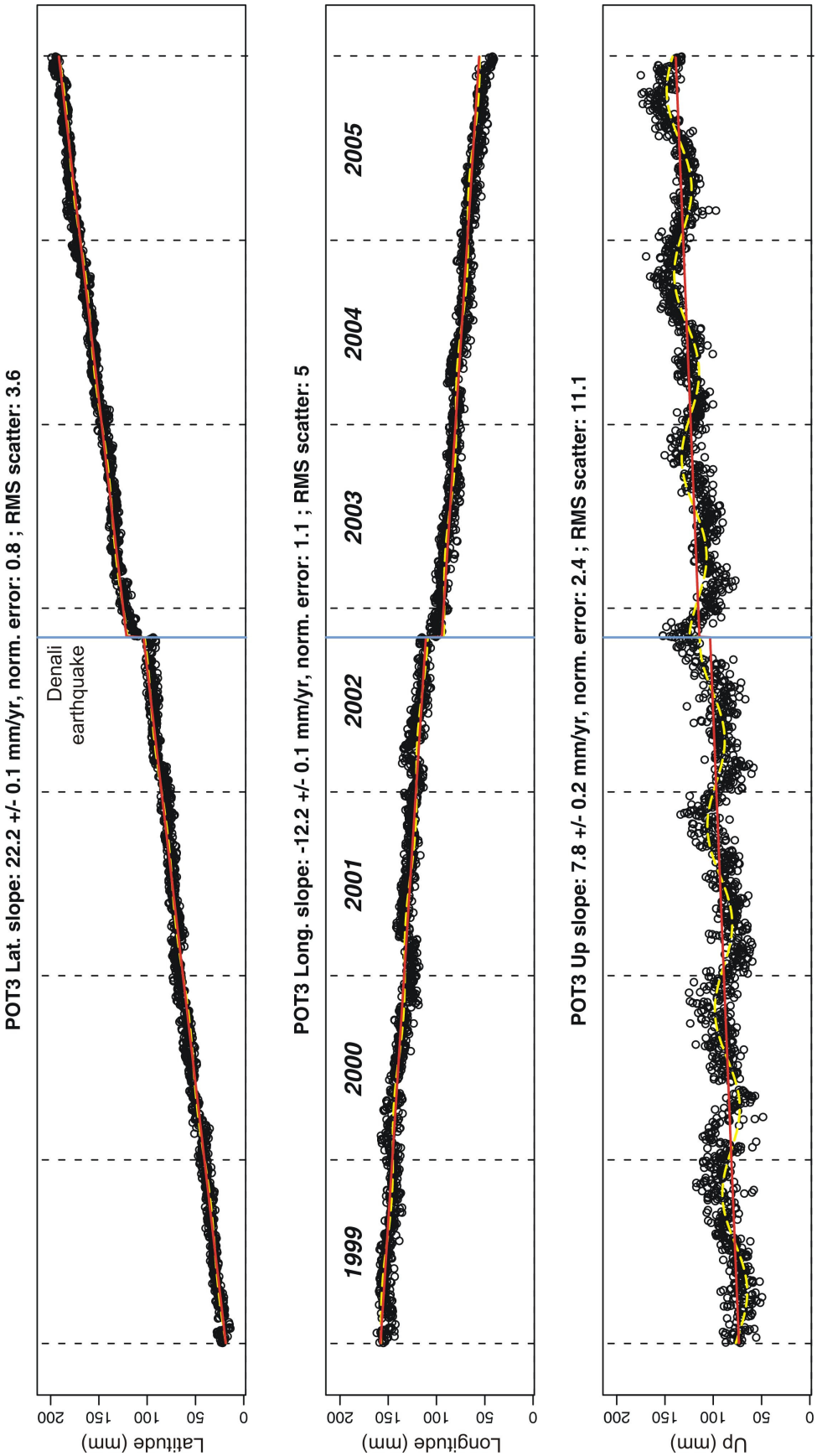

HOLB Lat. slope: 5.3 +/- 0.1 mm/yr, norm. error: 0.6 ; RMS scatter: 2.7
Denali earthquake
Latitude (mm)
0
50
100
150
200
HOLB Long. slope: 0.2 +/- 0.1 mm/yr, norm. error: 0.6 ; RMS scatter: 2.8
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
HOLB Up slope: 1.5 +/- 0.2 mm/yr, norm. error: 2 ; RMS scatter: 9.5
Offset removed (antenna change)
Up (mm)
0
50
100
150
200

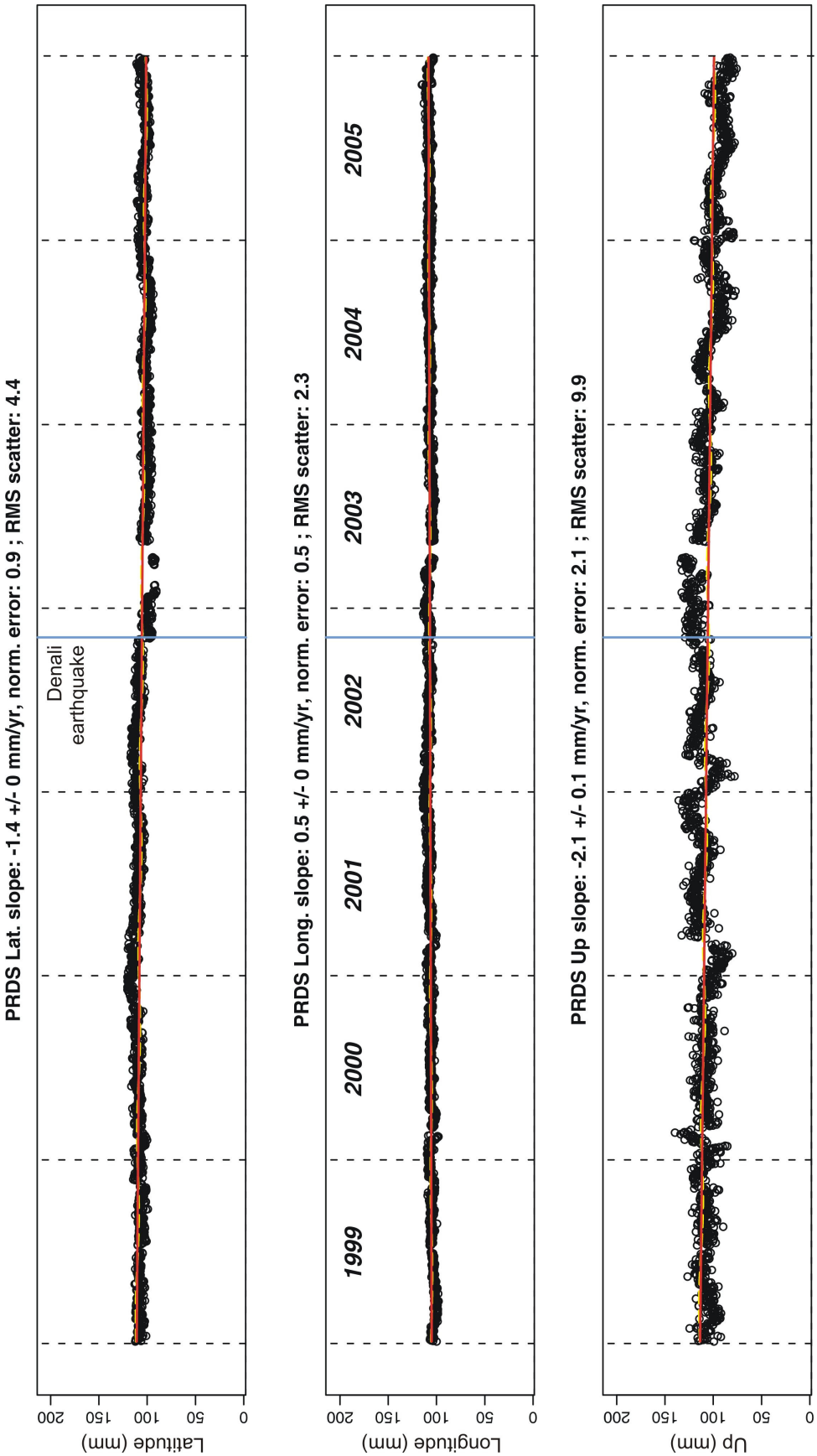

HOLM Lat. slope: 0 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 2.9
Denali earthquake
Latitude (mm)
0
50
100
150
200
HOLM Long. slope: -0.4 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 2.7
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
HOLM Up slope: 2 +/- 0.1 mm/yr, norm. error: 1.9 ; RMS scatter: 6.4
Up (mm)

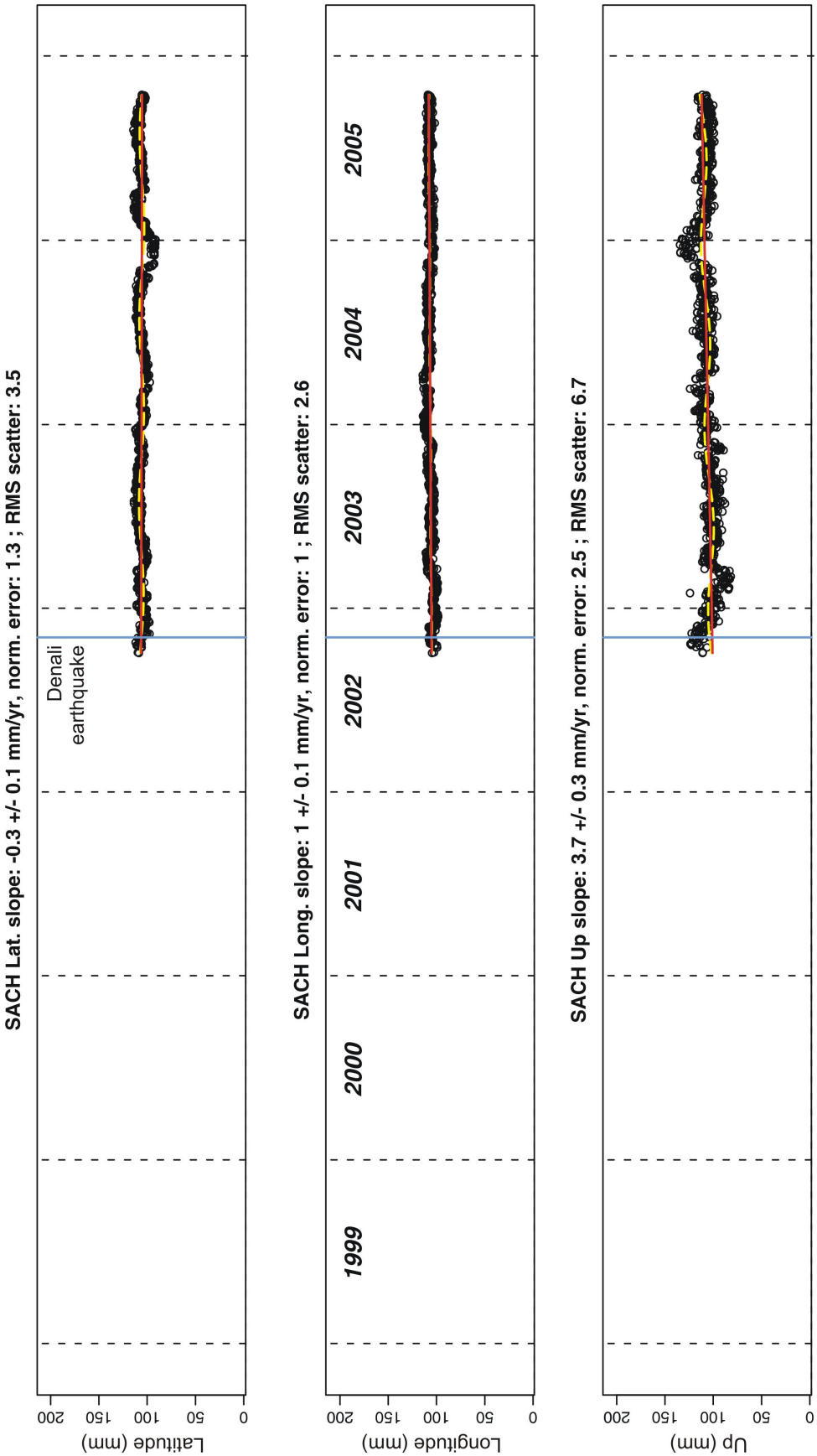

INVK Lat. slope: 0.4 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 2.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
INVK Long. slope: 1.6 +/- 0.1 mm/yr, norm. error: 0.7 ; RMS scatter: 2.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
INVK Up slope: -8.8 +/- 0.4 mm/yr, norm. error: 3.1 ; RMS scatter: 10.7
Up (mm)
0
50
100
150
200

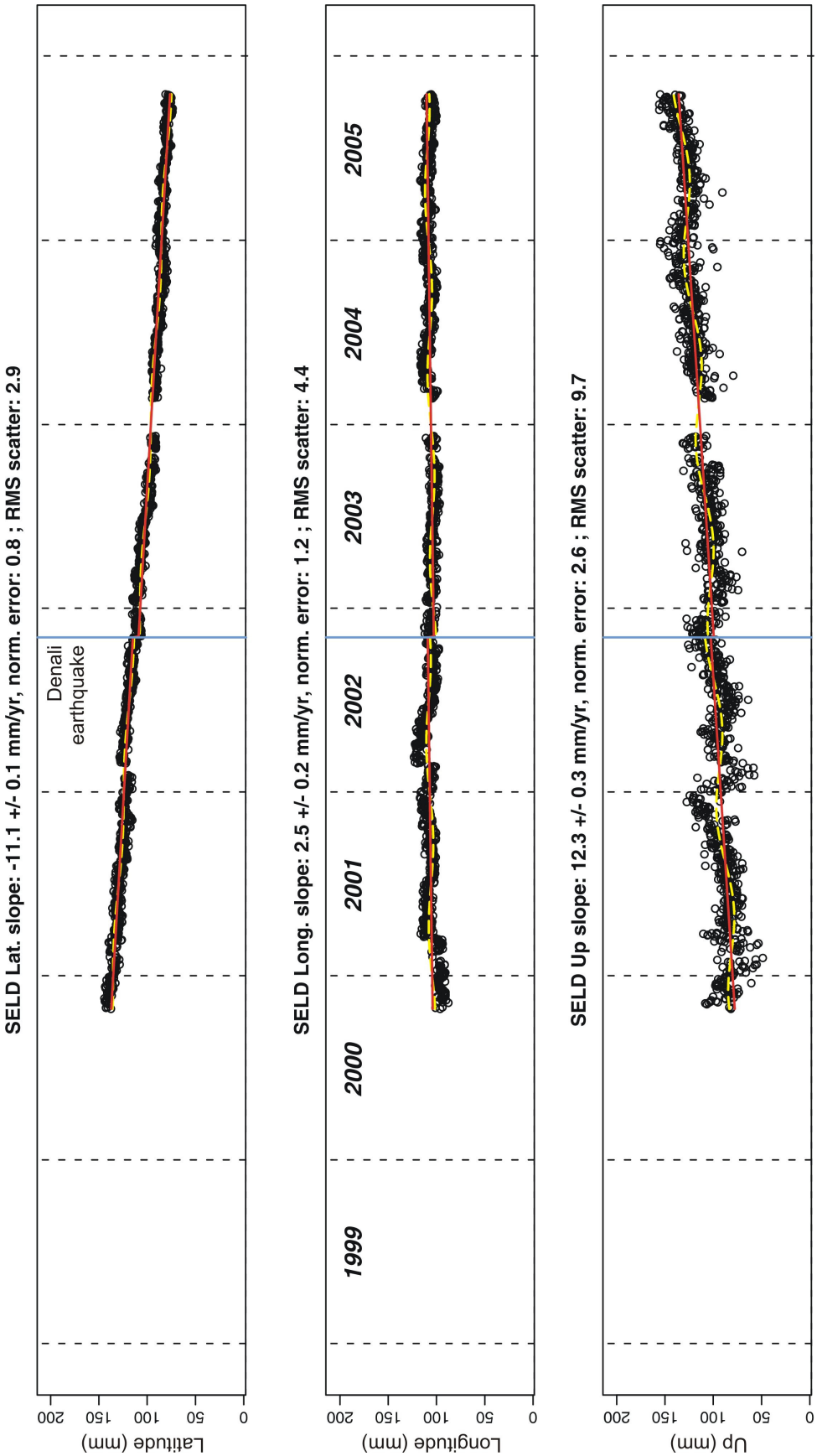

LEV1 Lat. slope: 3.9 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 2.8
Denali earthquake
Latitude (mm)
LEV1 Long. slope: -3 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 2.9
Longitude (mm)
LEV1 Up slope: 7 +/- 0.2 mm/yr, norm. error: 2.7 ; RMS scatter: 9.6
Up (mm)
0
50
100
150
200
1999
2000
2001
2002
2003
2004
2005

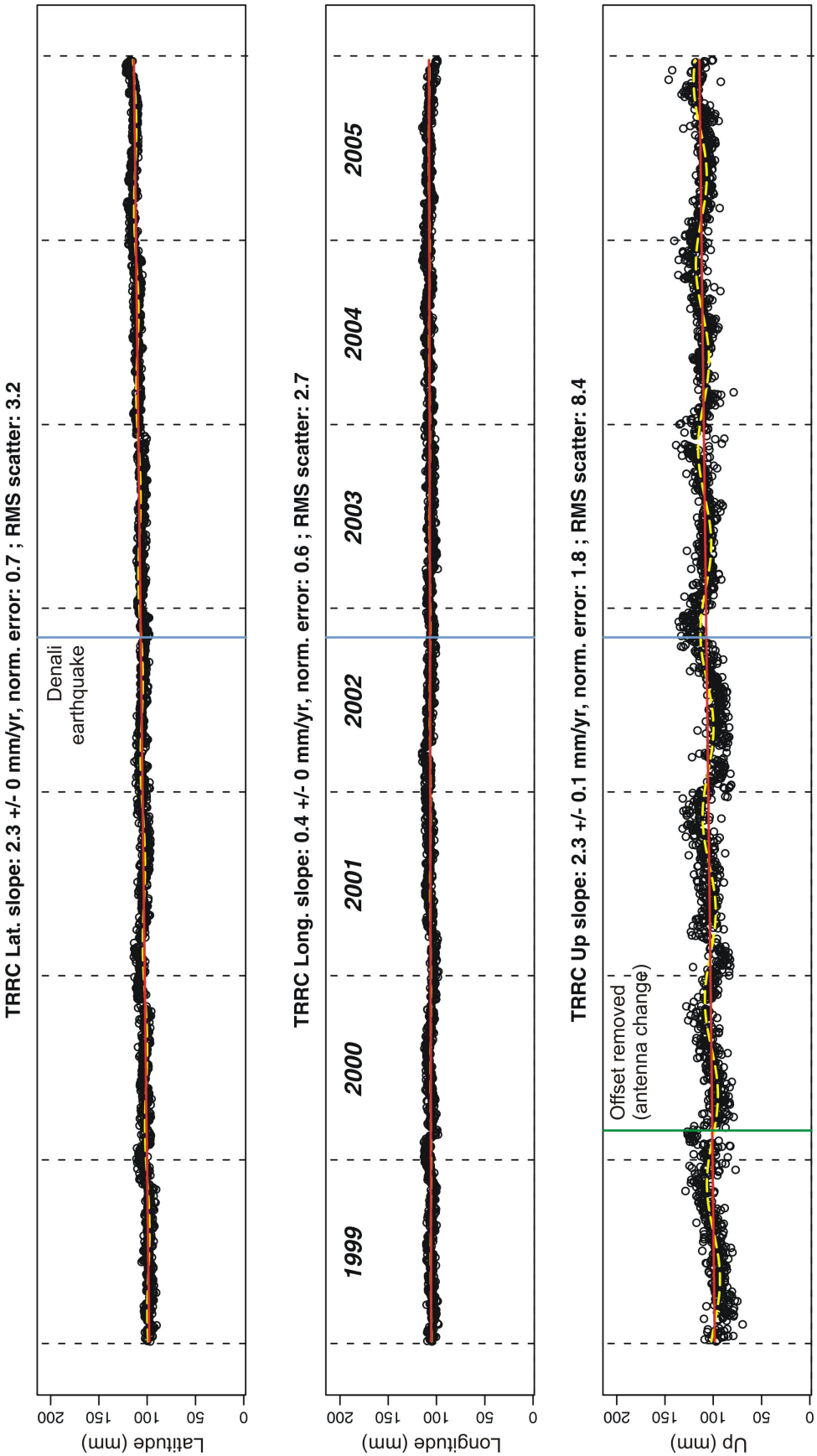

PBOC Lat. slope: -0.8 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 3.1
Denali earthquake
Latitude (mm)
0
50
100
150
200
PBOC Long. slope: -0.7 +/- 0.1 mm/yr, norm. error: 1.1 ; RMS scatter: 3.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
PBOC Up slope: -1.3 +/- 0.6 mm/yr, norm. error: 4.4 ; RMS scatter: 13.4
Up (mm)
0
50
100
150
200

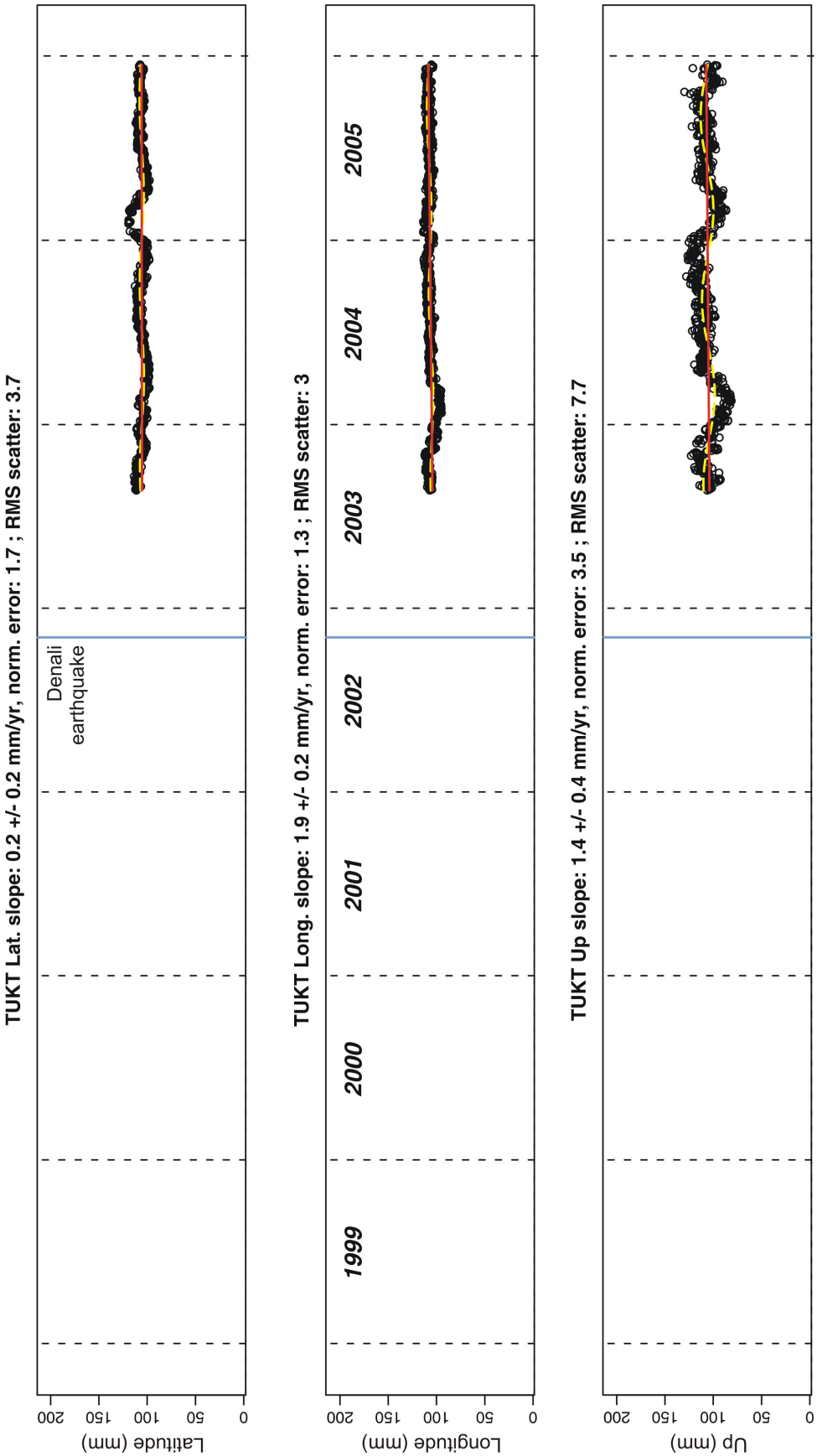

POT3 Lat. slope: 22.2 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 3.6
Denali earthquake
Latitude (mm)
0
50
100
150
200
POT3 Long. slope: -12.2 +/- 0.1 mm/yr, norm. error: 1.1 ; RMS scatter: 5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
POT3 Up slope: 7.8 +/- 0.2 mm/yr, norm. error: 2.4 ; RMS scatter: 11.1
Up (mm)
0
50
100
150
200

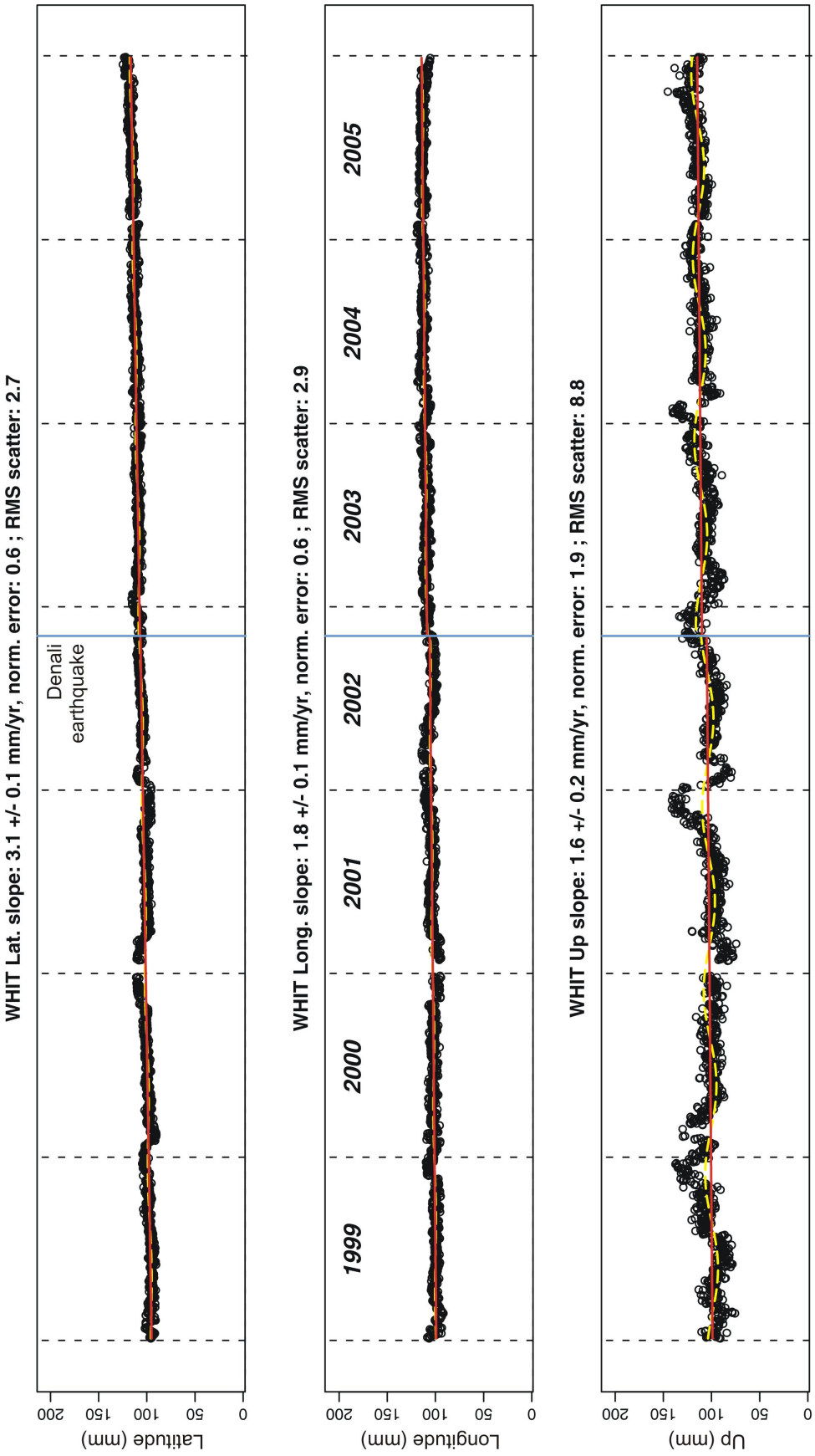

PRDS Lat. slope: -1.4 +/- 0 mm/yr, norm. error: 0.9 ; RMS scatter: 4.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
PRDS Long. slope: 0.5 +/- 0 mm/yr, norm. error: 0.5 ; RMS scatter: 2.3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
PRDS Up slope: -2.1 +/- 0.1 mm/yr, norm. error: 2.1 ; RMS scatter: 9.9
Up (mm)
0
50
100
150
200

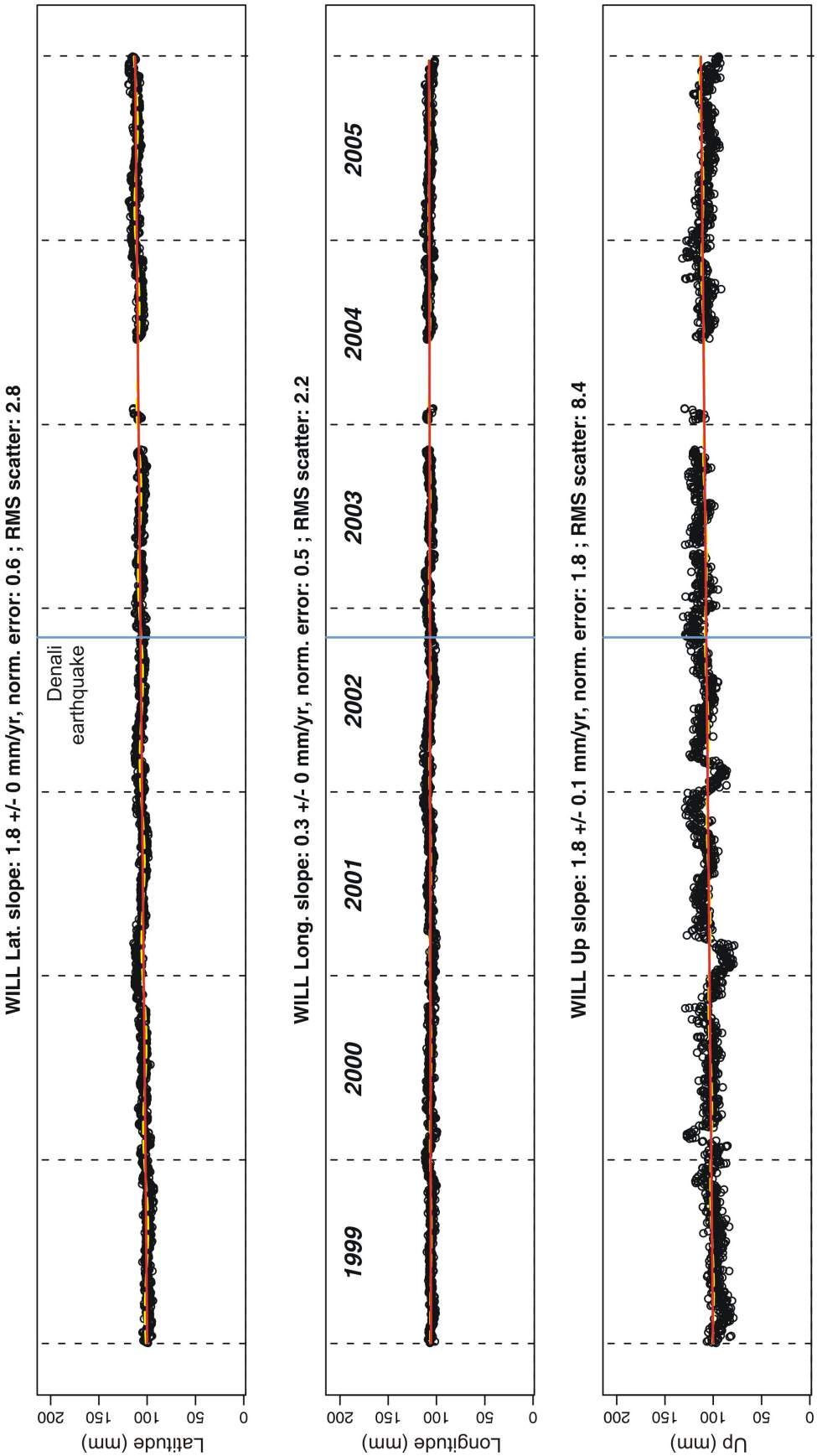

SACH Lat. slope: -0.3 +/- 0.1 mm/yr, norm. error: 1.3 ; RMS scatter: 3.5
Denali earthquake
Latitude (mm)
0
50
100
150
200
SACH Long. slope: 1 +/- 0.1 mm/yr, norm. error: 1 ; RMS scatter: 2.6
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
SACH Up slope: 3.7 +/- 0.3 mm/yr, norm. error: 2.5 ; RMS scatter: 6.7
Up (mm)


SELD Lat. slope: -11.1 +/- 0.1 mm/yr, norm. error: 0.8 ; RMS scatter: 2.9
Denali earthquake
Latitude (mm)
SELD Long. slope: 2.5 +/- 0.2 mm/yr, norm. error: 1.2 ; RMS scatter: 4.4
Longitude (mm)
SELD Up slope: 12.3 +/- 0.3 mm/yr, norm. error: 2.6 ; RMS scatter: 9.7
Up (mm)
1999
2000
2001
2002
2003
2004
2005
0
50
100
150
200


TRRC Lat. slope: 2.3 +/- 0 mm/yr, norm. error: 0.7 ; RMS scatter: 3.2
Denali earthquake
Latitude (mm)
0
50
100
150
200
TRRC Long. slope: 0.4 +/- 0 mm/yr, norm. error: 0.6 ; RMS scatter: 2.7
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
TRRC Up slope: 2.3 +/- 0.1 mm/yr, norm. error: 1.8 ; RMS scatter: 8.4
Offset removed (antenna change)
Up (mm)


TUKT Lat. slope: 0.2 +/- 0.2 mm/yr, norm. error: 1.7 ; RMS scatter: 3.7
Denali earthquake
Latitude (mm)
0
50
100
150
200
TUKT Long. slope: 1.9 +/- 0.2 mm/yr, norm. error: 1.3 ; RMS scatter: 3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
TUKT Up slope: 1.4 +/- 0.4 mm/yr, norm. error: 3.5 ; RMS scatter: 7.7
Up (mm)


WHIT Lat. slope: 3.1 +/- 0.1 mm/yr, norm. error: 0.6 ; RMS scatter: 2.7
Denali earthquake
Latitude (mm)
0
50
100
150
200
WHIT Long. slope: 1.8 +/- 0.1 mm/yr, norm. error: 0.6 ; RMS scatter: 2.9
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
WHIT Up slope: 1.6 +/- 0.2 mm/yr, norm. error: 1.9 ; RMS scatter: 8.8
Up (mm)
0
50
100
150
200


WILL Lat. slope: 1.8 +/- 0 mm/yr, norm. error: 0.6 ; RMS scatter: 2.8
Denali earthquake
Latitude (mm)
0
50
100
150
200
WILL Long. slope: 0.3 +/- 0 mm/yr, norm. error: 0.5 ; RMS scatter: 2.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
WILL Up slope: 1.8 +/- 0.1 mm/yr, norm. error: 1.8 ; RMS scatter: 8.4
Up (mm)
0
50
100
150
200

# APPENDIX B

## Supplementary GPS figures and tables

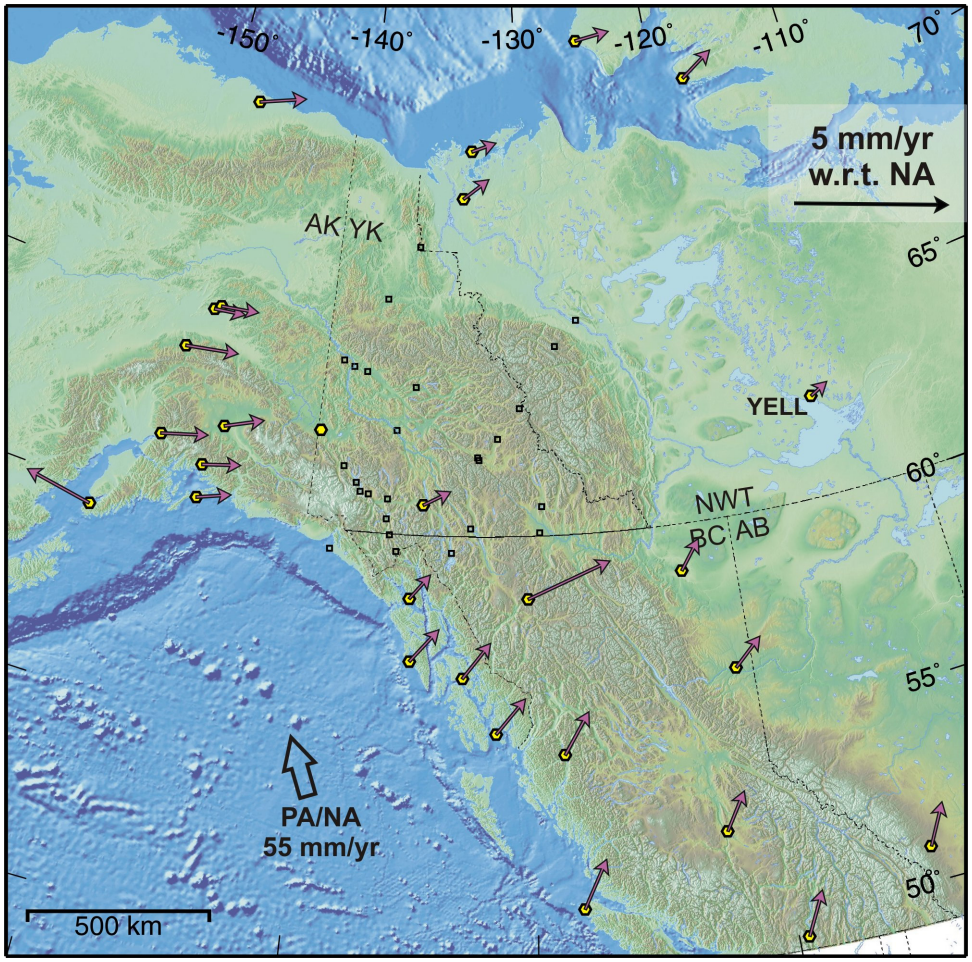



**Figure B1.** Residuals of moving reference vectors minus fixed reference vectors at continuous GPS sites. Residuals generally point towards Yellowknife (YELL) indicating that the fixed reference method induces a stretching of the network away from Yellowknife compared to the moving reference method.

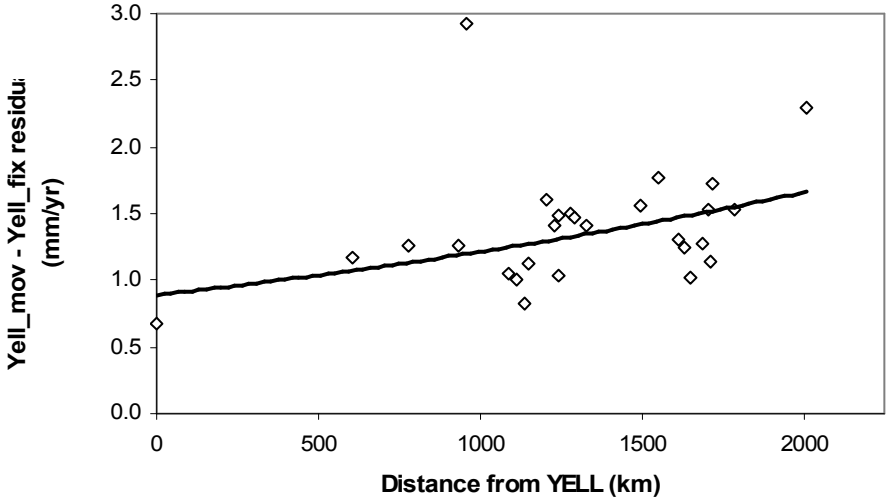



**Figure B2.** Variations in residual magnitude (from Fig. B1) with distance from Yellowknife.

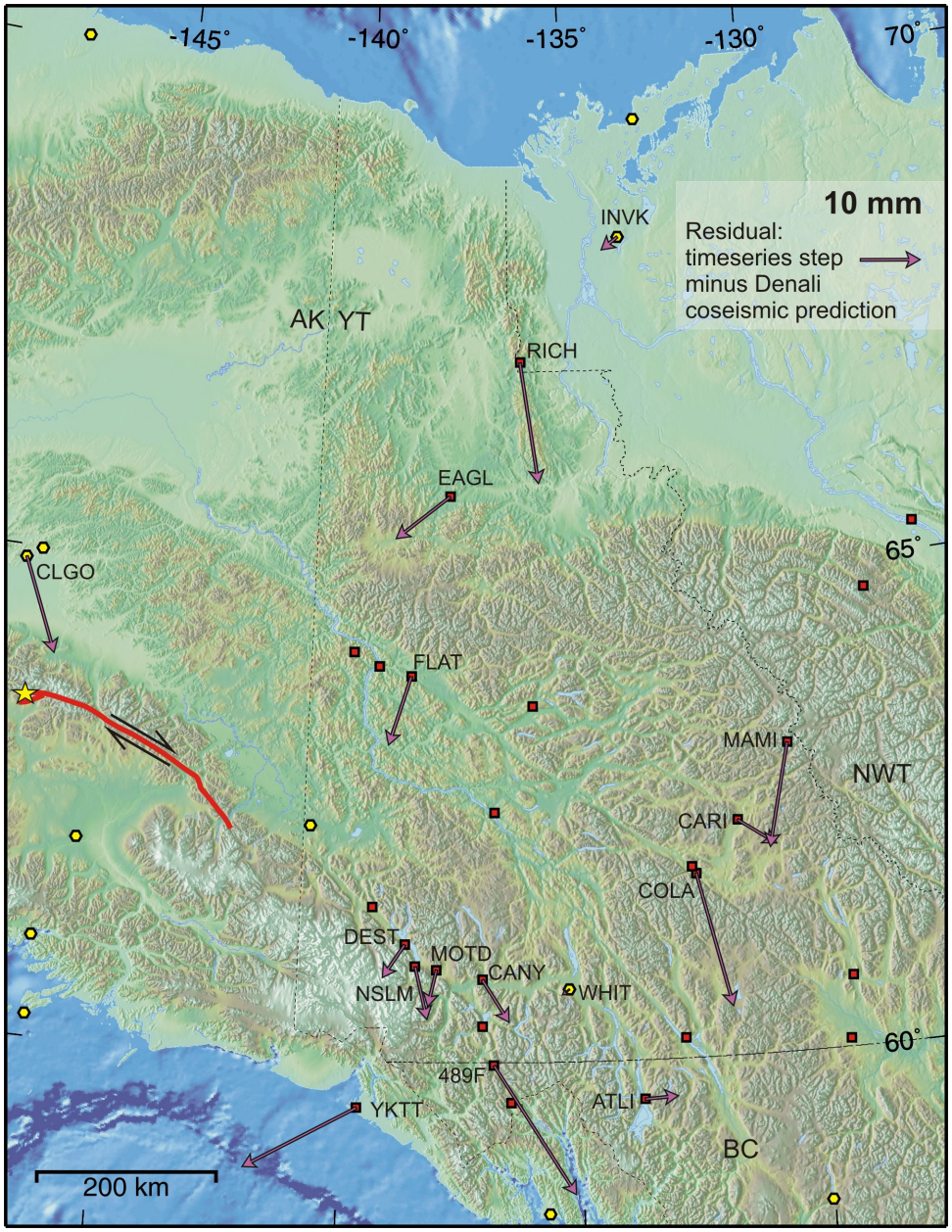



**Figure B3.** Residuals: estimated time series step minus Denali coseismic offset predicted by Hreinsdóttir (personal communication, 2006).

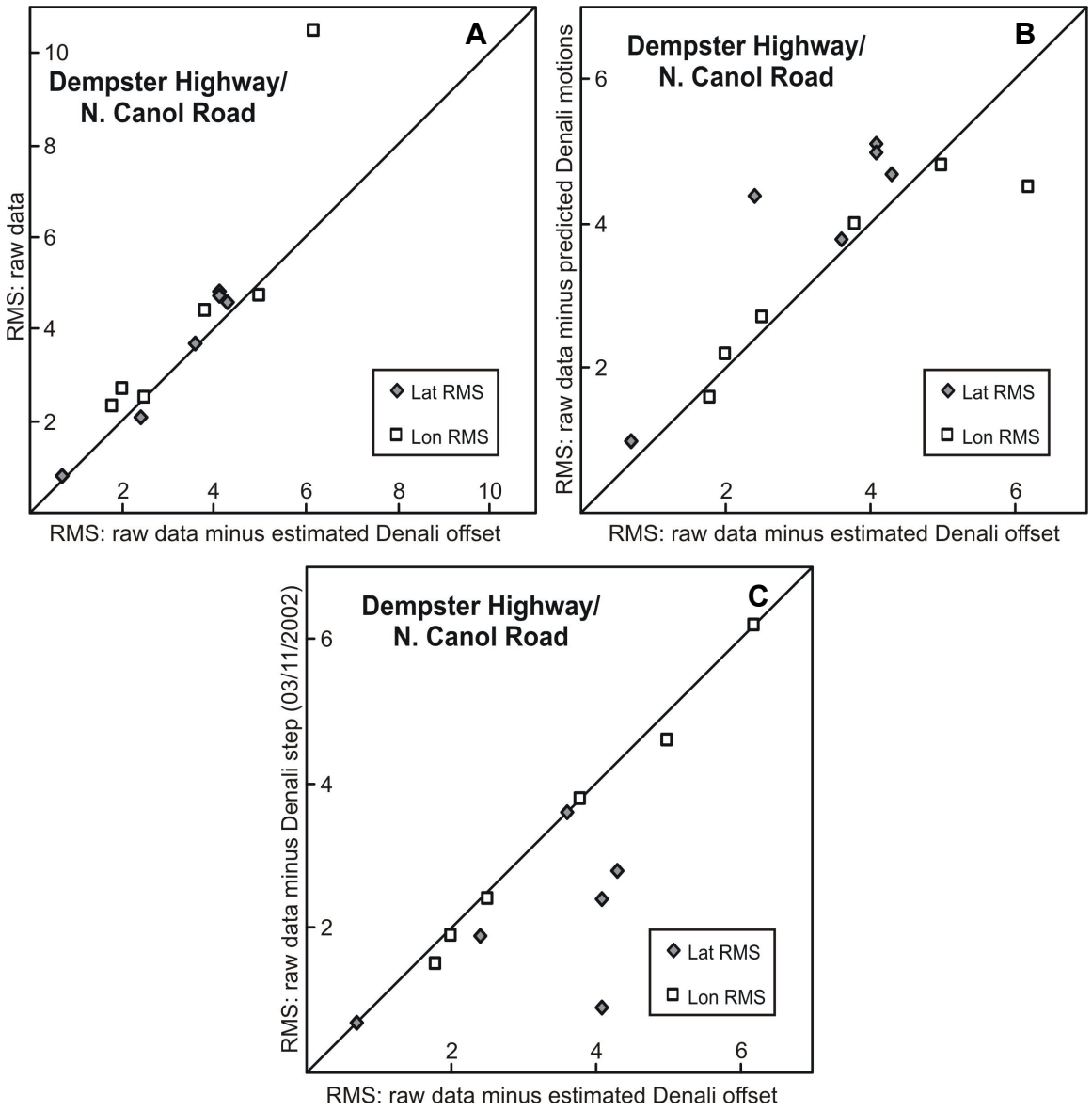



**Figure B4.** Comparison of campaign GPS time series RMS scatter for the data corrected for estimated Denali offsets versus (A) the raw data; (B) data corrected for predicted co- and postseismic Denali motions; and (C) data corrected for a Denali time series step.

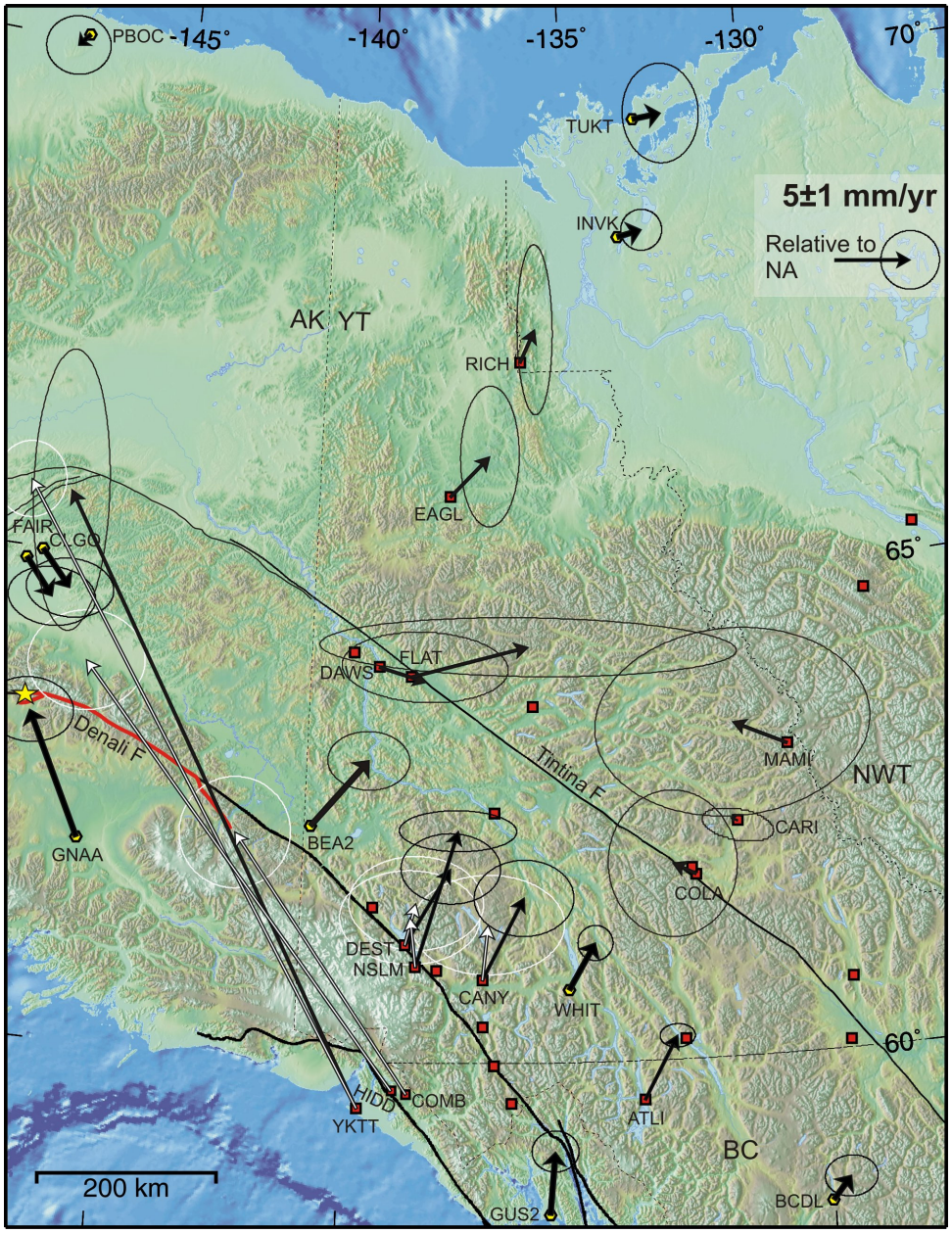



**Figure B5.** Preferred horizontal velocity vectors for campaign and adjacent continuous GPS sites relative to stable North America, with campaign analysis results from Fletcher and Freymueller (2003). Black arrows: this study, preferred solution. White arrows: Fletcher and Freymueller (2003). Preferred vectors for sites along the Alaska Highway adjacent to CANY, DEST and NSLM are removed for clarity. Error ellipses are at 95% confidence level. Red line and yellow star mark the surface rupture and epicentre of the Denali earthquake, respectively.

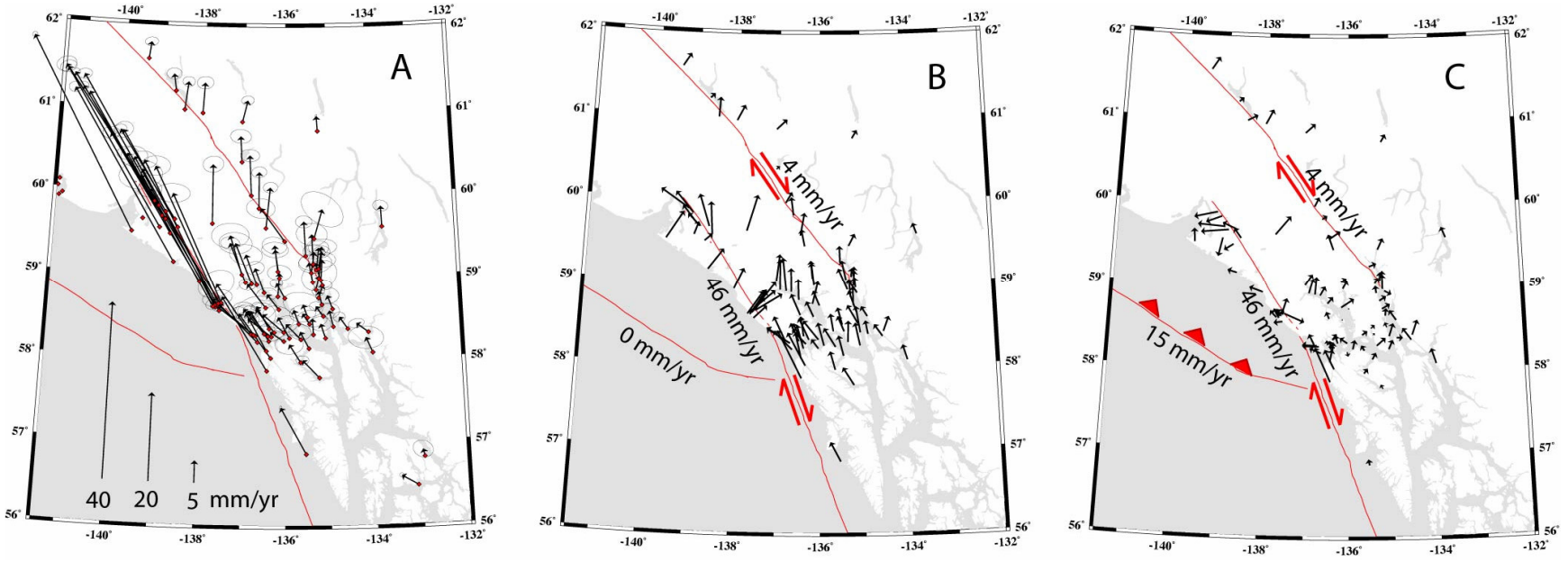



**Figure B6.** GPS velocities and model results from the Uplift Project network (from Chris Larsen, University of Alaska, Fairbanks). **A.** Observed GPS velocities relative to North America. Error ellipses show 95% confidence intervals. **B.** Residual GPS velocities after removing models of both i) the horizontal effects of glacio-isostatic adjustment (GIA) centered on Glacier Bay, and ii) elastic deformation modeled by pure strike slip motion on the FWF (46 mm/yr) and DF (4 mm/yr). **C.** Residual GPS velocities after removing 15 mm/yr of shallowly dipping thrust along the Transition Zone Fault, in addition to the above models. This combined model can reproduce most of the velocity field across the network, yet a coherent northeast translation on the order of 3-5 mm/yr remains, consistent across much of the network. Figure and caption from C. Larsen of the University of Alaska, Fairbanks (Larsen, personal communication, 2006).

**Table B1.** Ranking of campaign GPS site solutions.

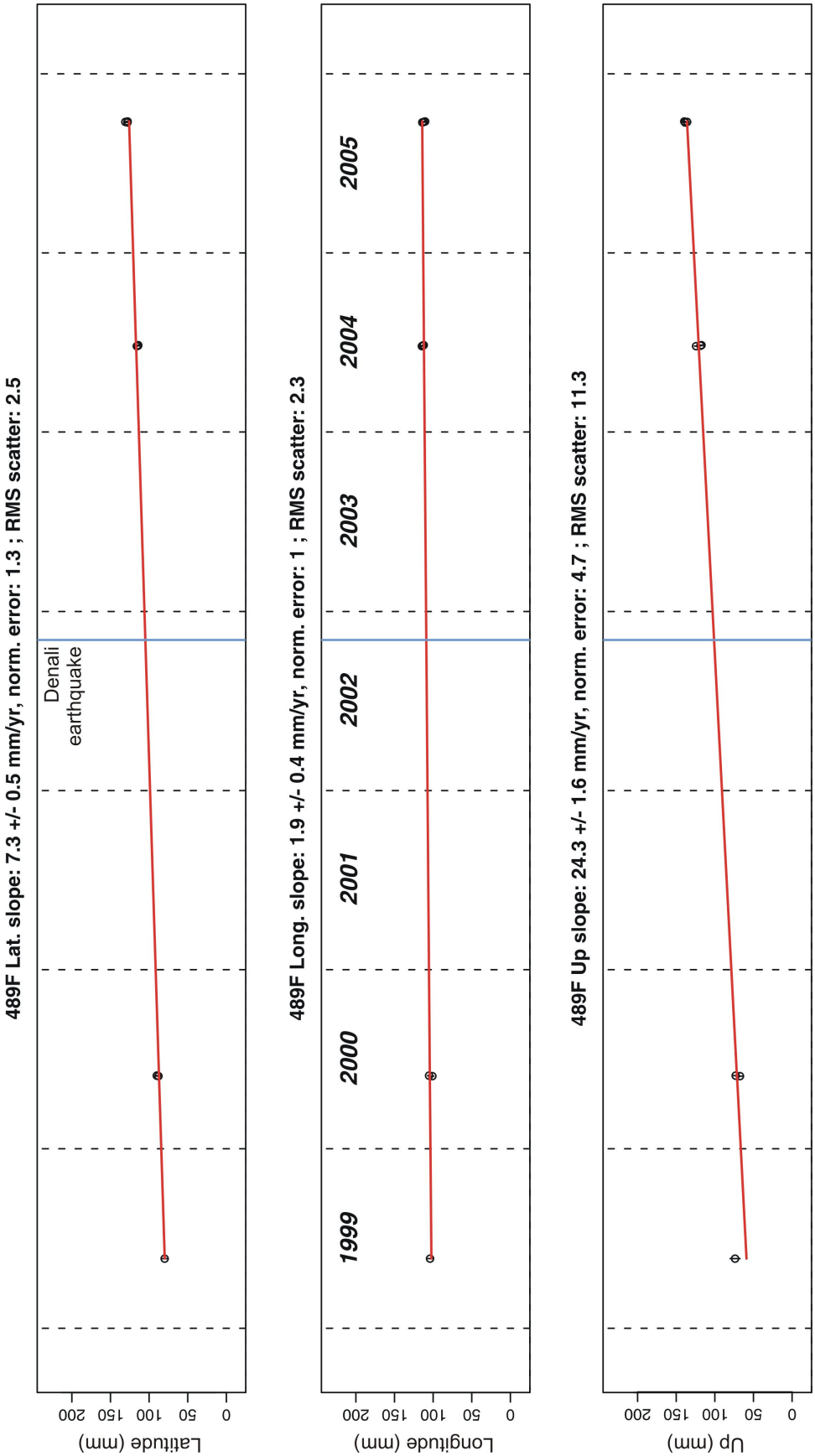
| Site | Marker | Setting | Monument rank[1] | # Occs. | Occ. rank[2] | T[3] (yr) | T[4] rank | RMS[5] | RMS rank[6] | Overall rank[7] | Letter rank[8] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ATLI | Concrete pillar | bedrock | 1 | 5 | 2 | 6 | 1 | 1.8 | 1 | 5 | A |
| CANY | Brass marker | bedrock | 1 | 7 | 1 | 6.1 | 1 | 3.2 | 2 | 5 | A |
| MOTD | Brass marker | bedrock | 1 | 8 | 1 | 5.3 | 1 | 3.3 | 2 | 5 | A |
| NSLM | Brass marker | bedrock | 1 | 7 | 1 | 5.1 | 1 | 2.9 | 2 | 5 | A |
| BEUT | Brass marker | bedrock | 1 | 5 | 2 | 5.3 | 1 | 3.0 | 2 | 6 | A |
| EAGL | Iron rod | bedrock | 2 | 5 | 2 | 4.8 | 1 | 3.1 | 2 | 7 | B |
| MAMI | Brass marker | bedrock | 1 | 5 | 2 | 5.8 | 1 | 4.6 | 3 | 7 | B |
| YKTT | Brass marker | bedrock | 1 | 6 | 2 | 5.1 | 1 | 4.2 | 3 | 7 | B |
| 489F | Brass marker on iron rod | sediment | 3 | 4 | 3 | 6.3 | 1 | 2.4 | 1 | 8 | B |
| DAWS | Steel pin | bedrock | 1 | 3 | 3 | 2.6 | 3 | 2.0 | 1 | 8 | B |
| DEST | Brass marker in concrete column | sediment | 3 | 6 | 2 | 5.1 | 1 | 2.9 | 2 | 8 | B |
| DEZA | Brass marker | bedrock | 1 | 4 | 3 | 3.4 | 2 | 3.5 | 2 | 8 | B |
| RICH | Iron rod | sediment | 3 | 5 | 2 | 4.8 | 1 | 3.5 | 2 | 8 | B |
| CARI | Brass marker in concrete column | sediment | 3 | 4 | 3 | 3.9 | 2 | 1.8 | 1 | 9 | C |
| COLA | Aluminum cap on iron bar | sediment | 3 | 5 | 2 | 5.8 | 1 | 4.0 | 3 | 9 | C |
| FLAT | Brass marker in concrete column | sediment | 3 | 6 | 2 | 4.8 | 1 | 4.3 | 3 | 9 | C |
| FYBO | Brass marker in concrete column | sediment | 3 | 4 | 3 | 3.4 | 2 | 3.1 | 2 | 10 | C |

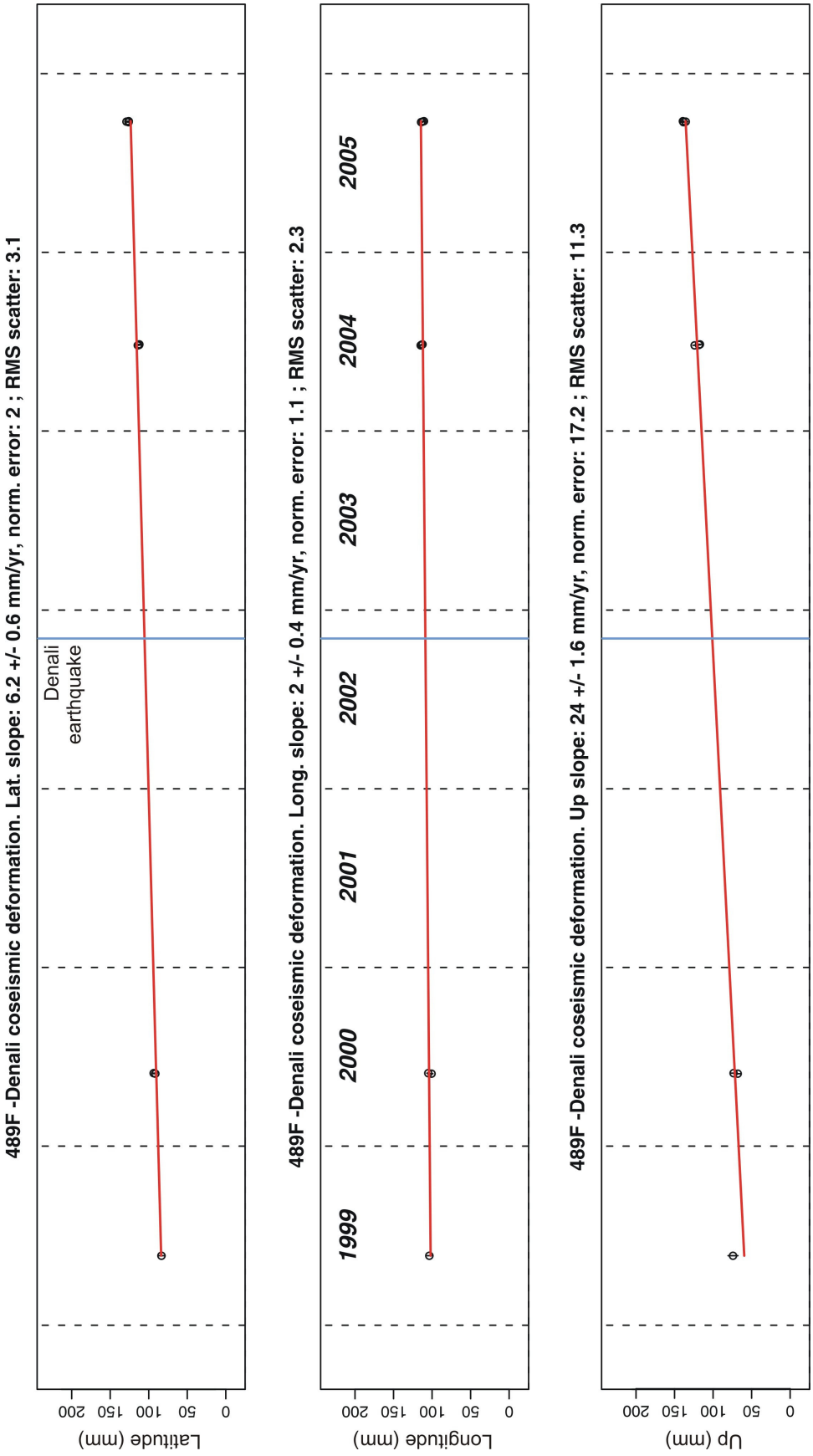
[1] Monument rank: ranking from 1 (most stable) to 3 (least stable); [2] Occupation rank: ranking from 1 (greatest no. of occupations) to 3 (least no. of occupations); [3] T: Length of time series analyzed; [4] Time series length rank: ranking from 1 (longest time series) to 3 (shortest time series); [5] RMS: mean latitude/longitude RMS of the preferred solution; [6] RMS rank: ranking from 1 (lowest RMS value) to 3 (highest RMS); [7] Overall rank: sum of monument, occupation, time series and RMS ranks; [8] Letter rank: overall rank converted to letter grade; ranking of site solutions from A (most reliable) to C (least reliable).

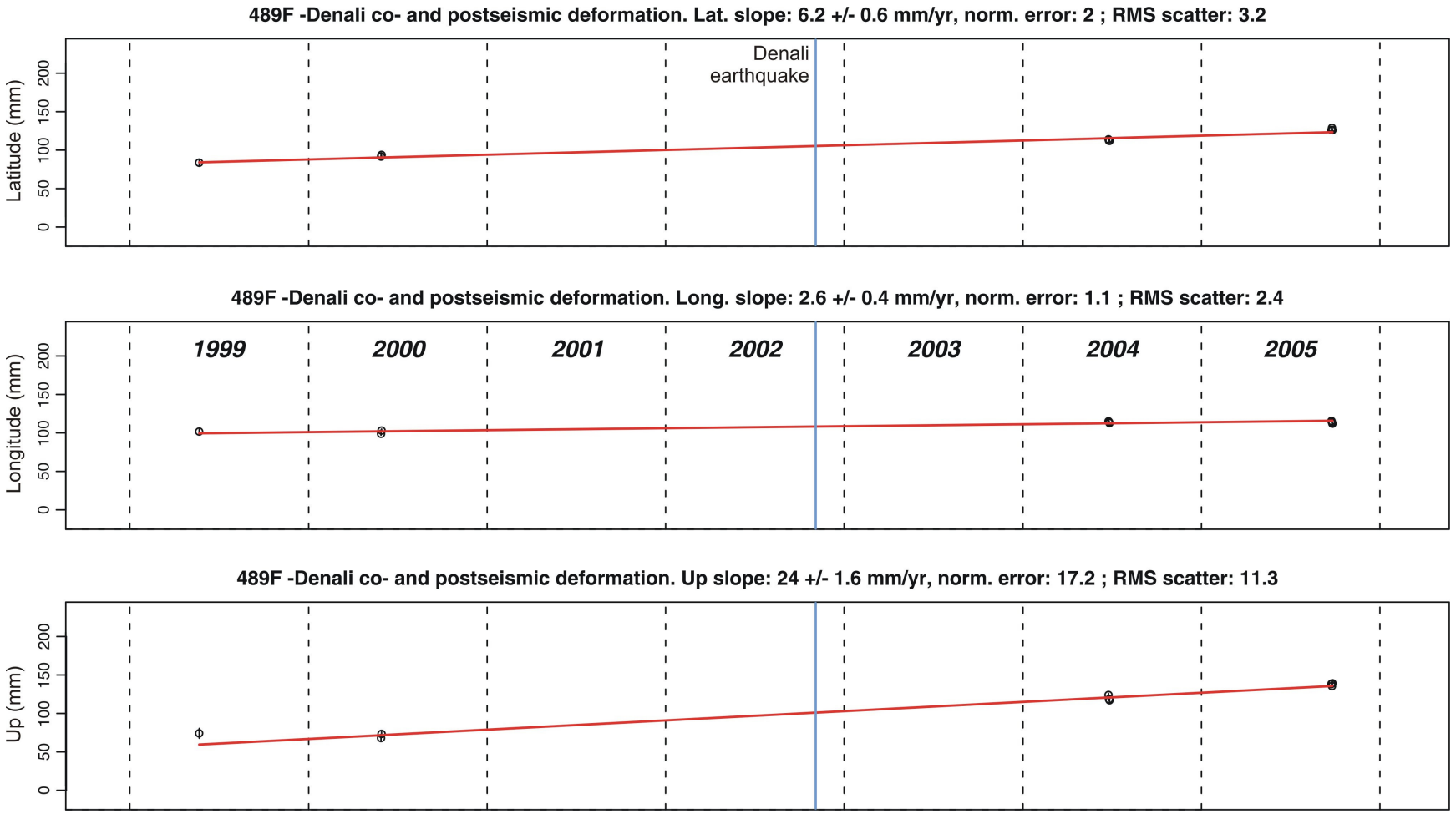
# APPENDIX C

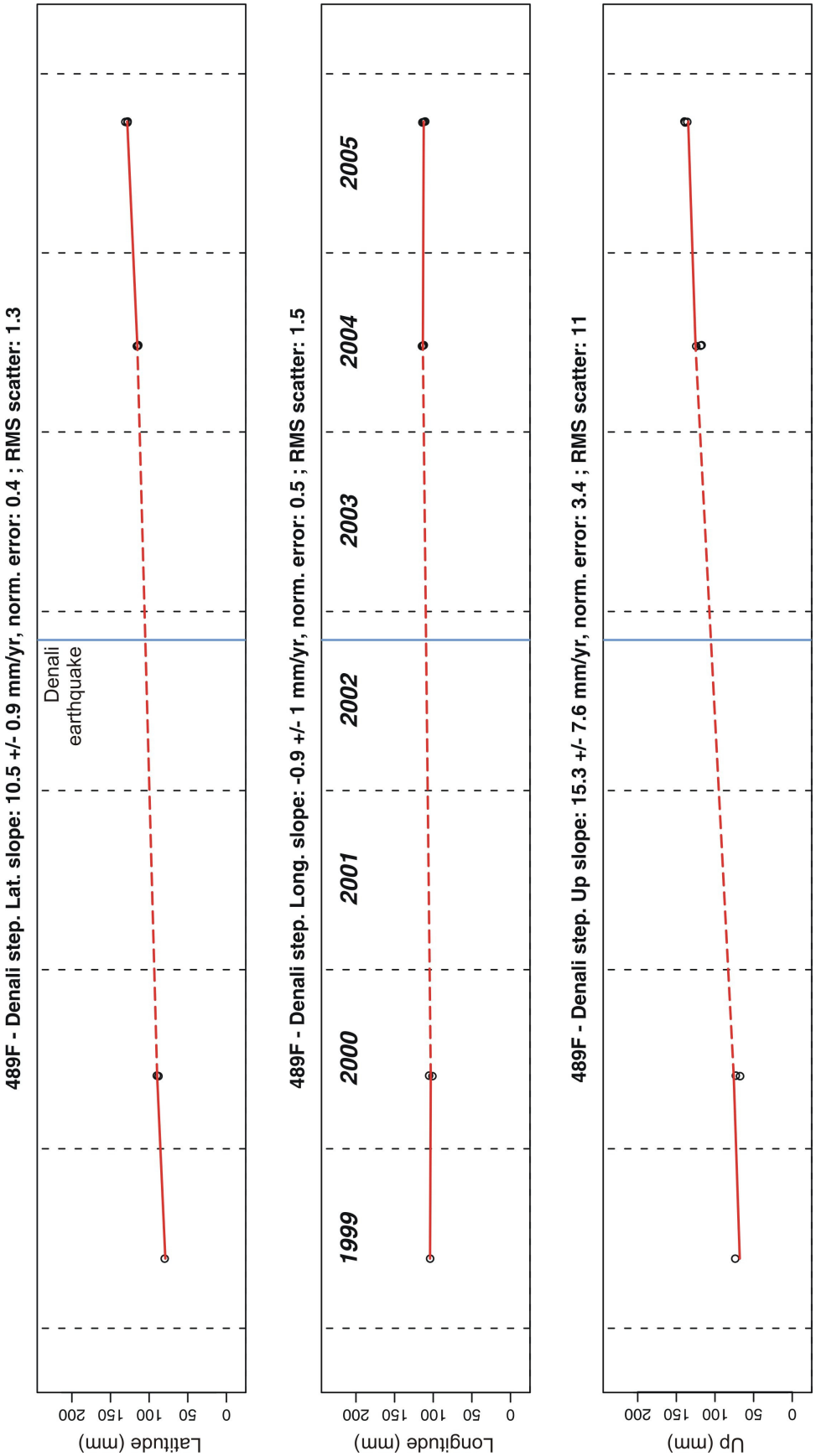
## Campaign GPS Position Time Series

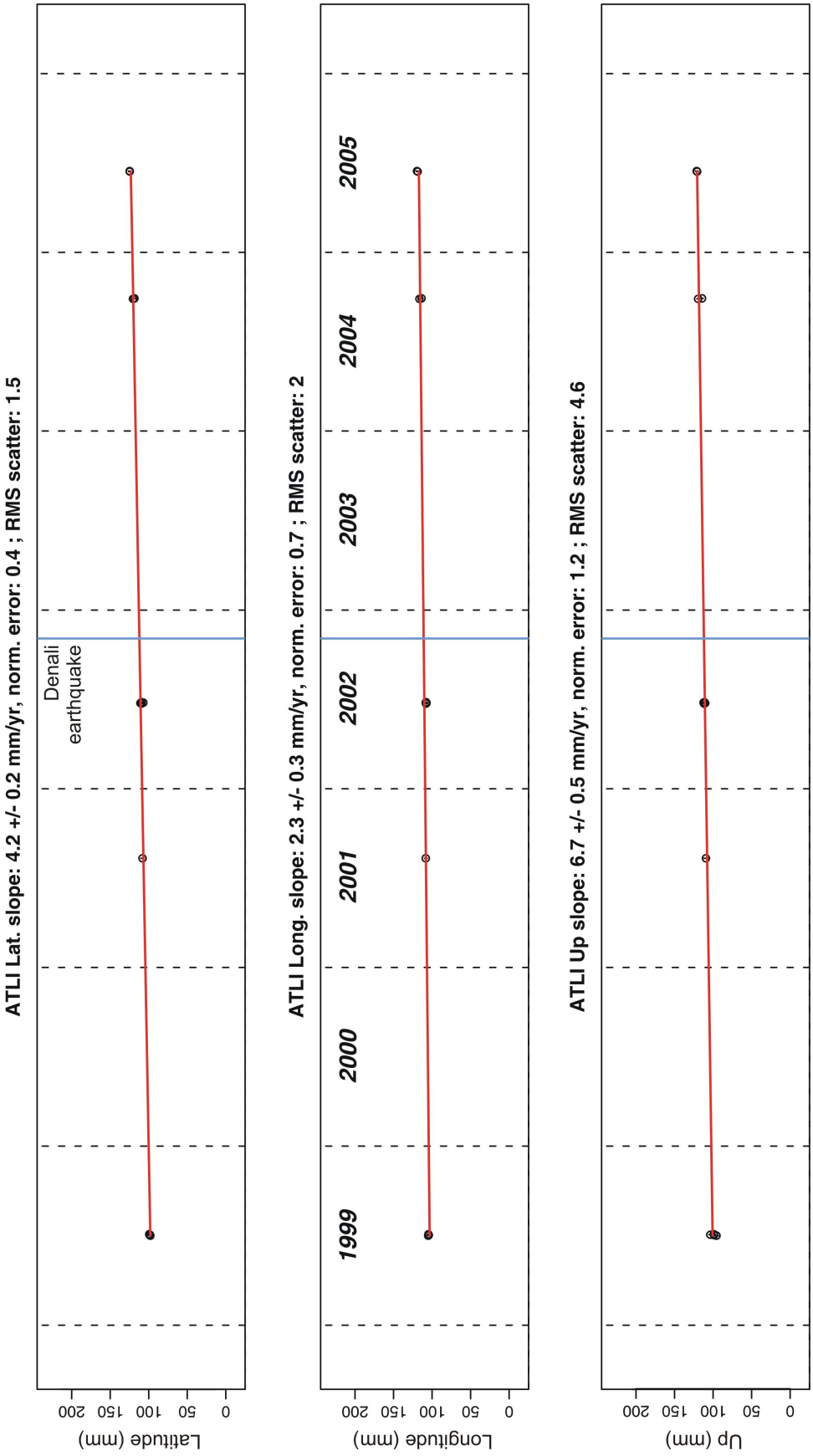
## Relative to Stable North America

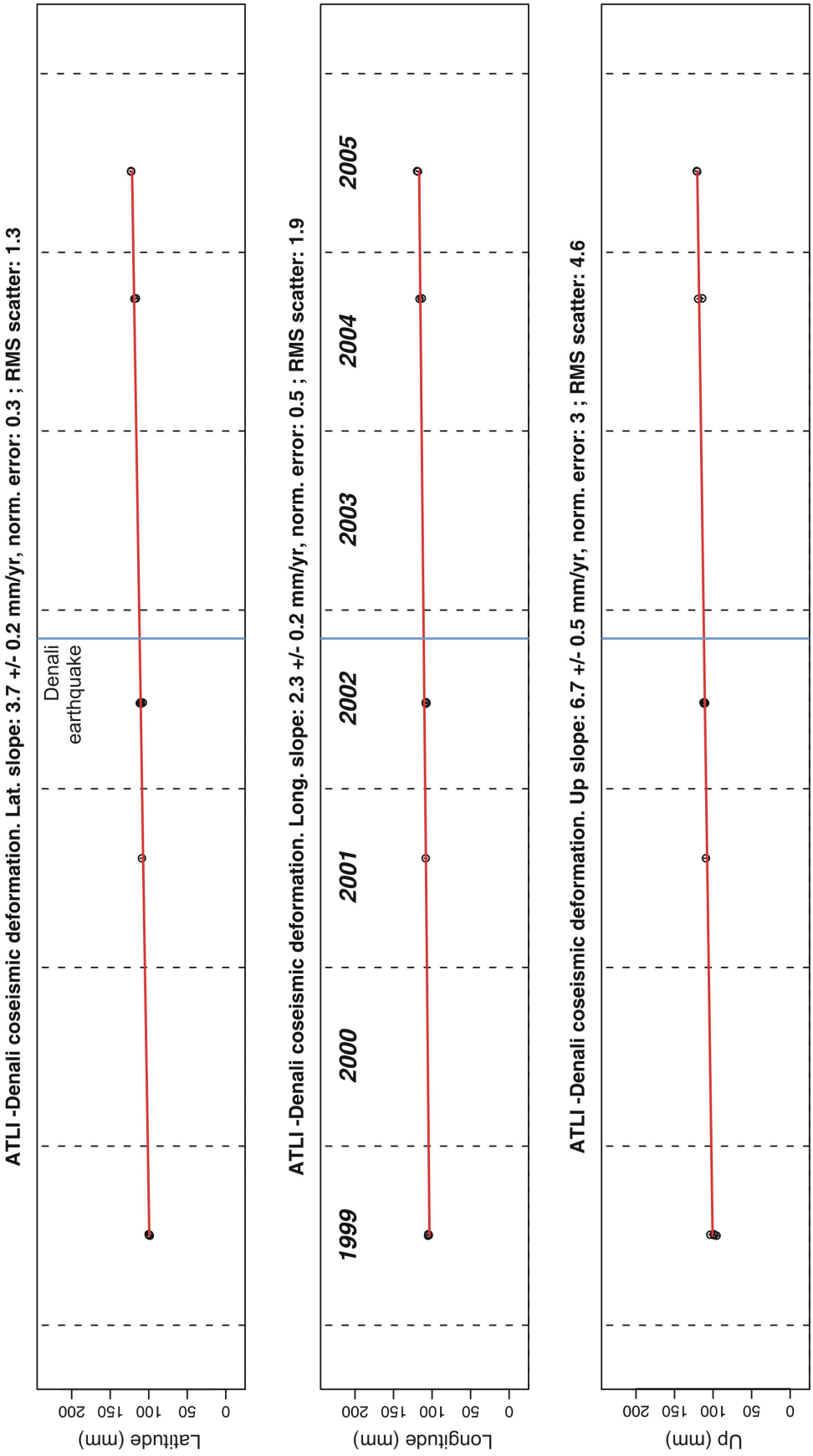

489F Lat. slope: 7.3 +/- 0.5 mm/yr, norm. error: 1.3 ; RMS scatter: 2.5
Latitude (mm)
0
50
100
150
200
Denali earthquake
489F Long. slope: 1.9 +/- 0.4 mm/yr, norm. error: 1 ; RMS scatter: 2.3
Longitude (mm)
0
50
100
150
200
1999
2000
2001
2002
2003
2004
2005
489F Up slope: 24.3 +/- 1.6 mm/yr, norm. error: 4.7 ; RMS scatter: 11.3
Up (mm)
0
50
100
150
200

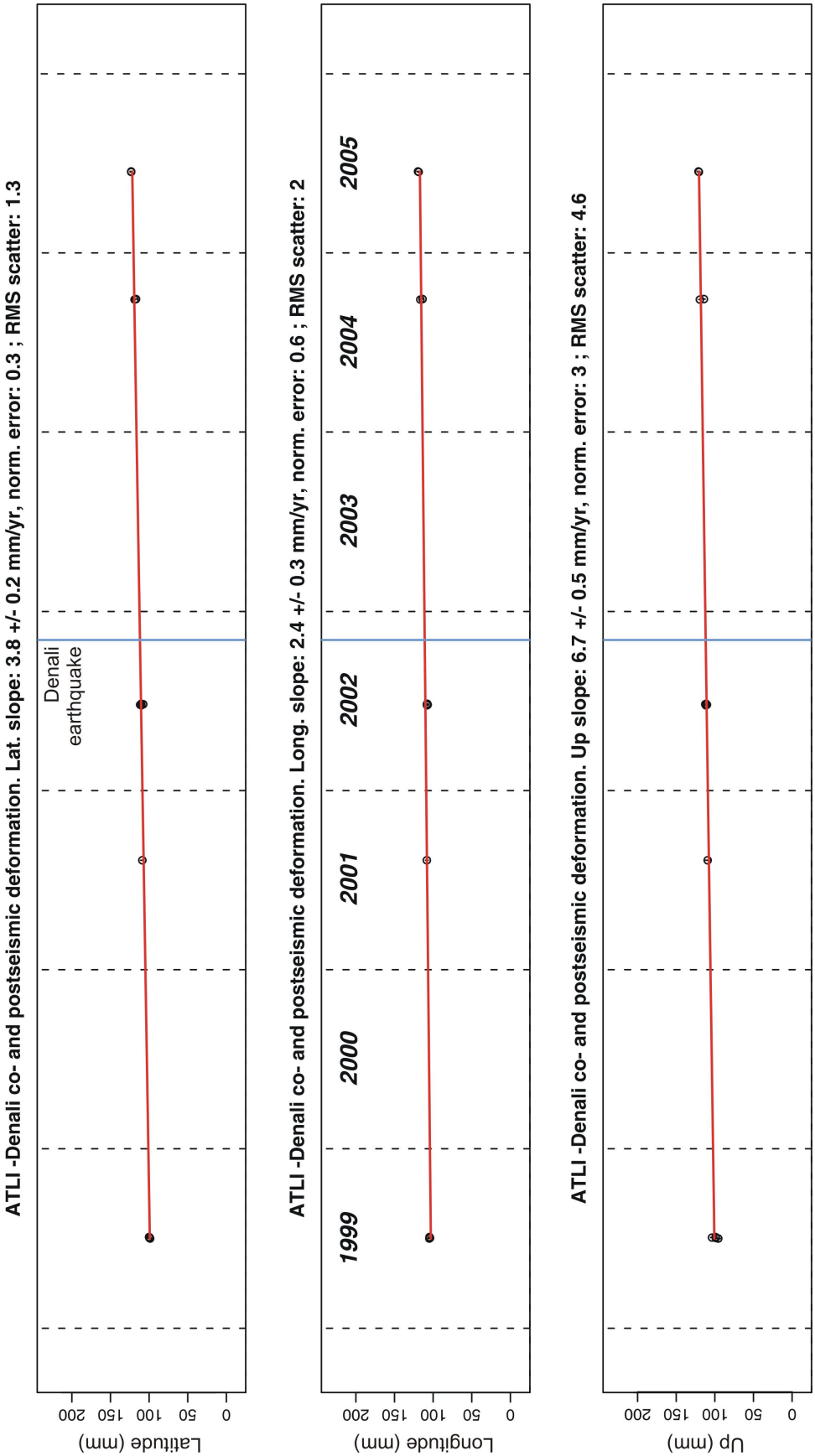

489F -Denali coseismic deformation. Lat. slope: 6.2 +/- 0.6 mm/yr, norm. error: 2 ; RMS scatter: 3.1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
489F -Denali coseismic deformation. Long. slope: 2 +/- 0.4 mm/yr, norm. error: 1.1 ; RMS scatter: 2.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
489F -Denali coseismic deformation. Up slope: 24 +/- 1.6 mm/yr, norm. error: 17.2 ; RMS scatter: 11.3
Up (mm)

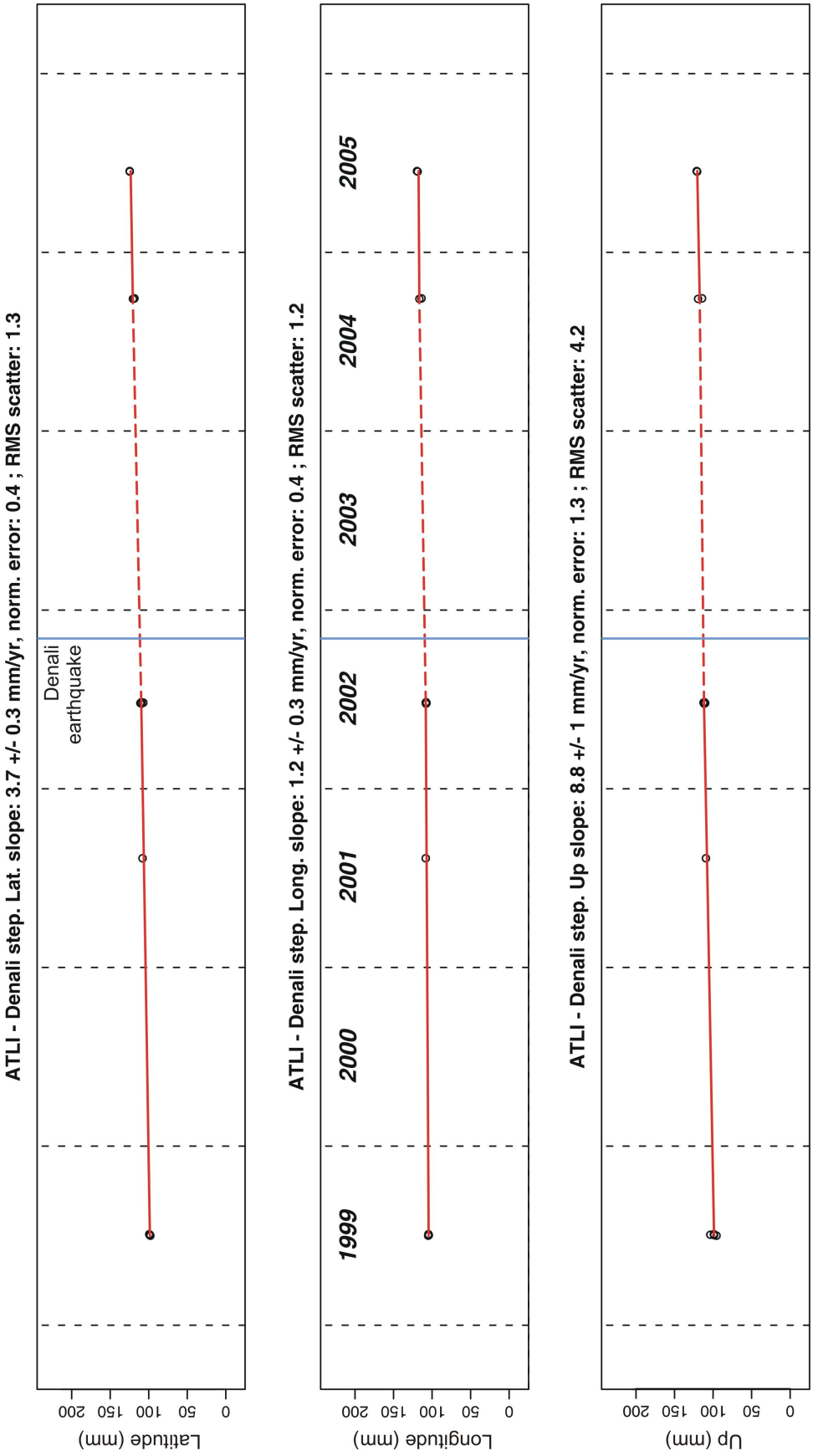

489F -Denali co- and postseismic deformation. Lat. slope: 6.2 +/- 0.6 mm/yr, norm. error: 2 ; RMS scatter: 3.2
Latitude (mm)
0
50
100
150
200
Denali
earthquake
489F -Denali co- and postseismic deformation. Long. slope: 2.6 +/- 0.4 mm/yr, norm. error: 1.1 ; RMS scatter: 2.4
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
489F -Denali co- and postseismic deformation. Up slope: 24 +/- 1.6 mm/yr, norm. error: 17.2 ; RMS scatter: 11.3
Up (mm)

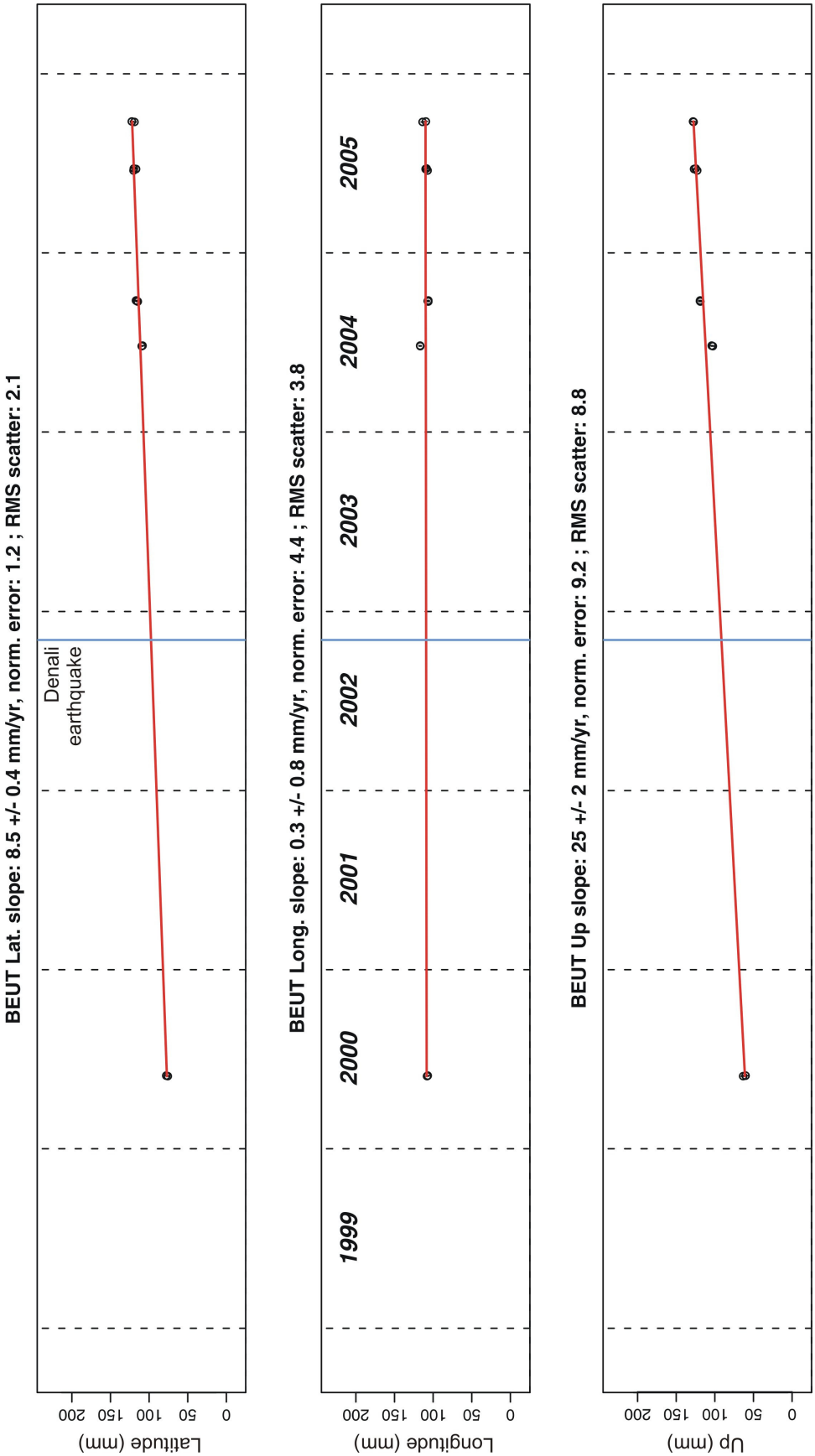

489F - Denali step. Lat. slope: 10.5 +/- 0.9 mm/yr, norm. error: 0.4 ; RMS scatter: 1.3
Denali earthquake
Latitude (mm)
0 50 100 150 200
489F - Denali step. Long. slope: -0.9 +/- 1 mm/yr, norm. error: 0.5 ; RMS scatter: 1.5
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
489F - Denali step. Up slope: 15.3 +/- 7.6 mm/yr, norm. error: 3.4 ; RMS scatter: 11
Up (mm)
0 50 100 150 200

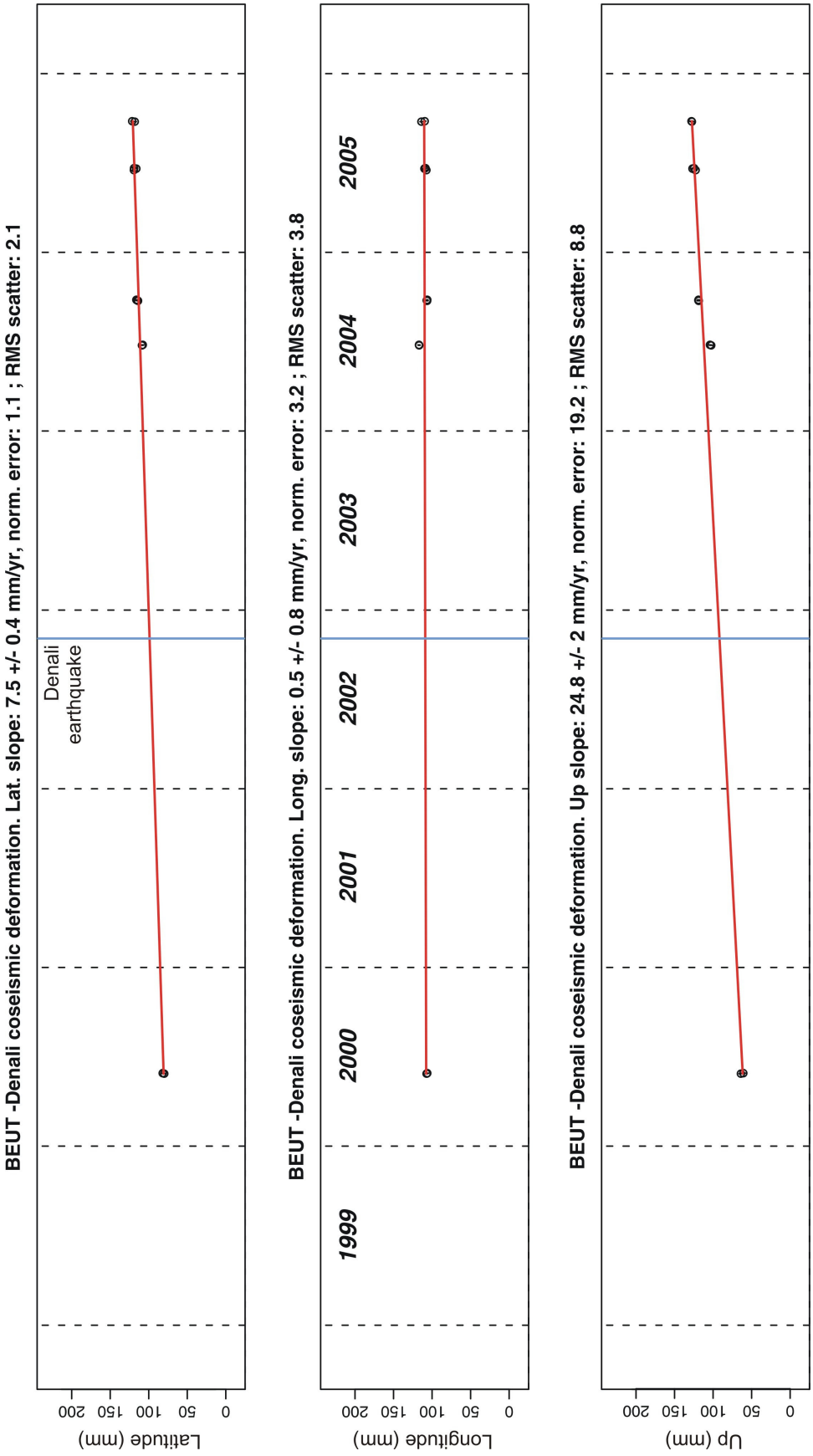

ATLI Lat. slope: 4.2 +/- 0.2 mm/yr, norm. error: 0.4 ; RMS scatter: 1.5
Denali earthquake
Latitude (mm)
0
50
100
150
200
ATLI Long. slope: 2.3 +/- 0.3 mm/yr, norm. error: 0.7 ; RMS scatter: 2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
ATLI Up slope: 6.7 +/- 0.5 mm/yr, norm. error: 1.2 ; RMS scatter: 4.6
Up (mm)

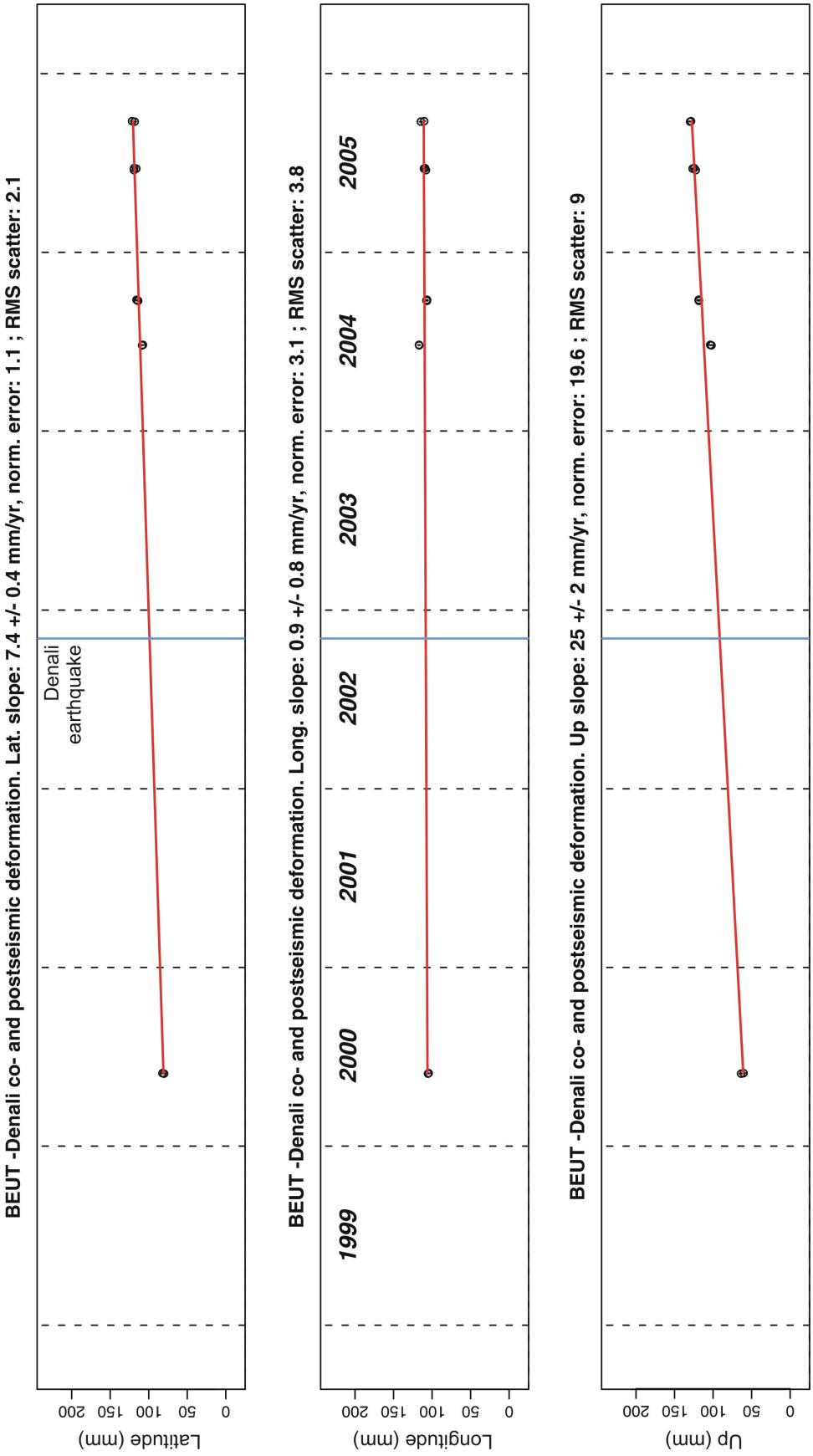

ATLI -Denali coseismic deformation. Lat. slope: 3.7 +/- 0.2 mm/yr, norm. error: 0.3 ; RMS scatter: 1.3
Latitude (mm)
0
50
100
150
200
Denali earthquake
ATLI -Denali coseismic deformation. Long. slope: 2.3 +/- 0.2 mm/yr, norm. error: 0.5 ; RMS scatter: 1.9
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
ATLI -Denali coseismic deformation. Up slope: 6.7 +/- 0.5 mm/yr, norm. error: 3 ; RMS scatter: 4.6
Up (mm)

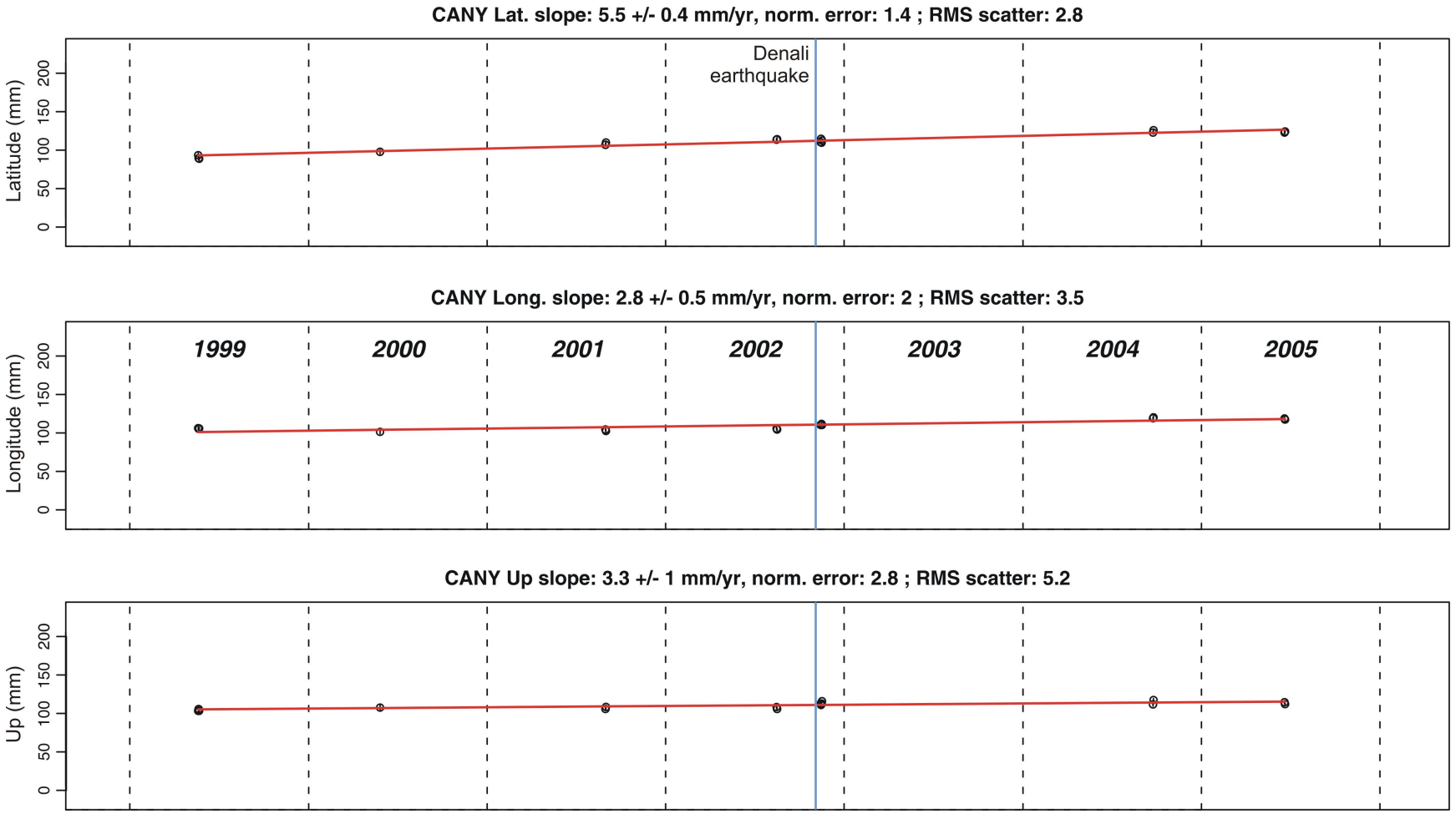

ATLI -Denali co- and postseismic deformation. Lat. slope: 3.8 +/- 0.2 mm/yr, norm. error: 0.3 ; RMS scatter: 1.3
Denali earthquake
Latitude (mm)
0 50 100 150 200
ATLI -Denali co- and postseismic deformation. Long. slope: 2.4 +/- 0.3 mm/yr, norm. error: 0.6 ; RMS scatter: 2
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
ATLI -Denali co- and postseismic deformation. Up slope: 6.7 +/- 0.5 mm/yr, norm. error: 3 ; RMS scatter: 4.6
Up (mm)
0 50 100 150 200

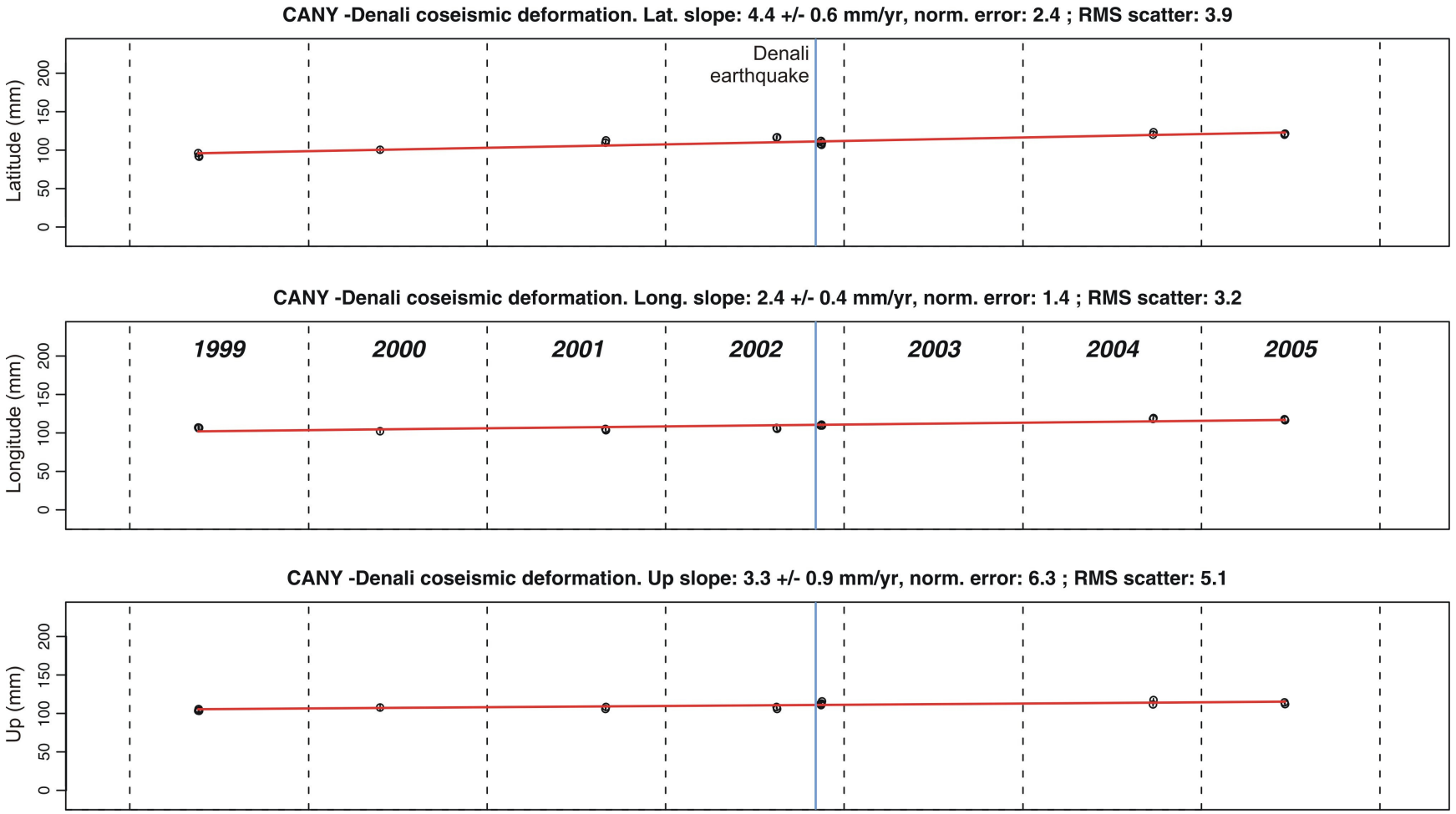

ATLI - Denali step. Lat. slope: 3.7 +/- 0.3 mm/yr, norm. error: 0.4 ; RMS scatter: 1.3
Denali earthquake
Latitude (mm)
0
50
100
150
200
ATLI - Denali step. Long. slope: 1.2 +/- 0.3 mm/yr, norm. error: 0.4 ; RMS scatter: 1.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
ATLI - Denali step. Up slope: 8.8 +/- 1 mm/yr, norm. error: 1.3 ; RMS scatter: 4.2
Up (mm)

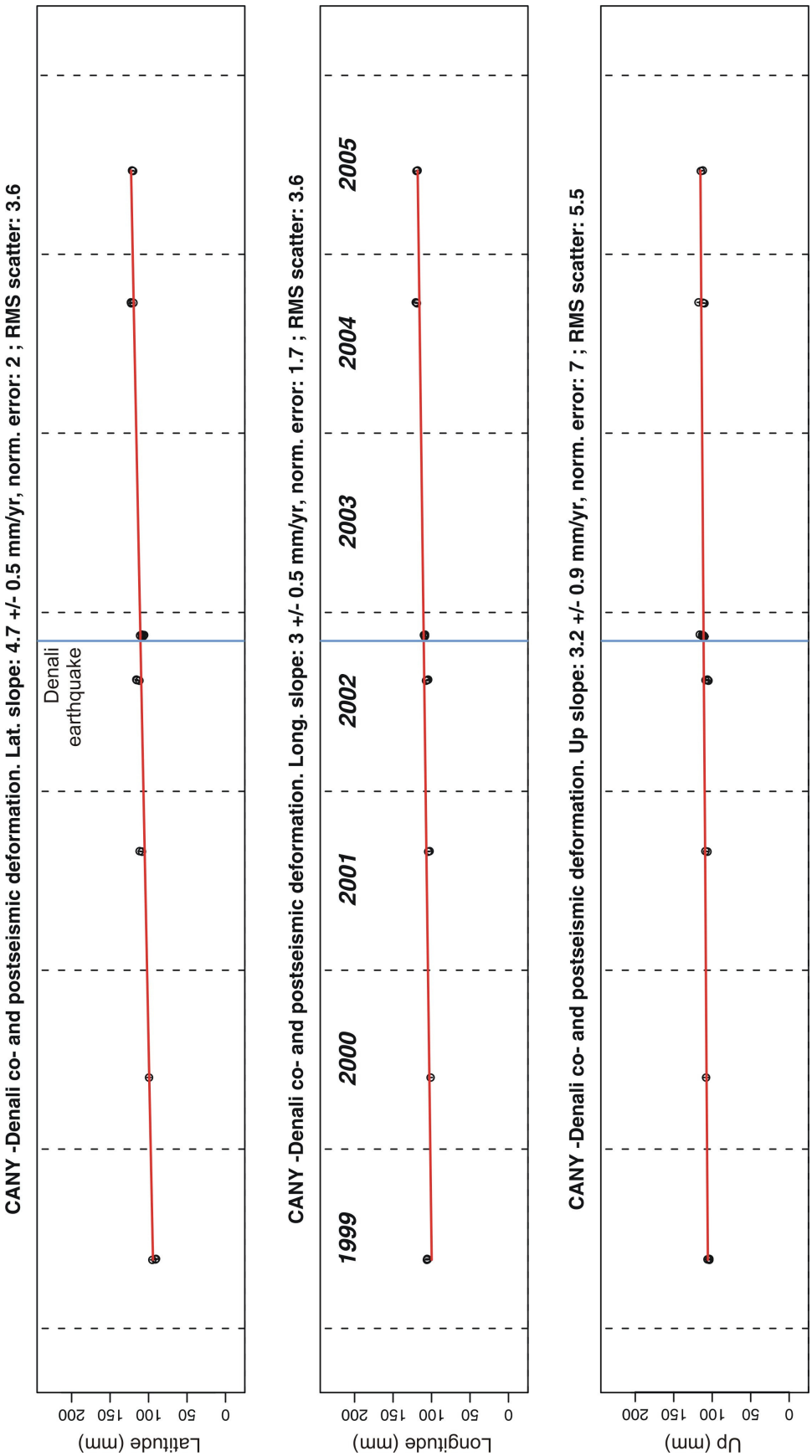

BEUT Lat. slope: 8.5 +/- 0.4 mm/yr, norm. error: 1.2 ; RMS scatter: 2.1
Denali earthquake
Latitude (mm)
0
50
100
150
200
BEUT Long. slope: 0.3 +/- 0.8 mm/yr, norm. error: 4.4 ; RMS scatter: 3.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
BEUT Up slope: 25 +/- 2 mm/yr, norm. error: 9.2 ; RMS scatter: 8.8
Up (mm)

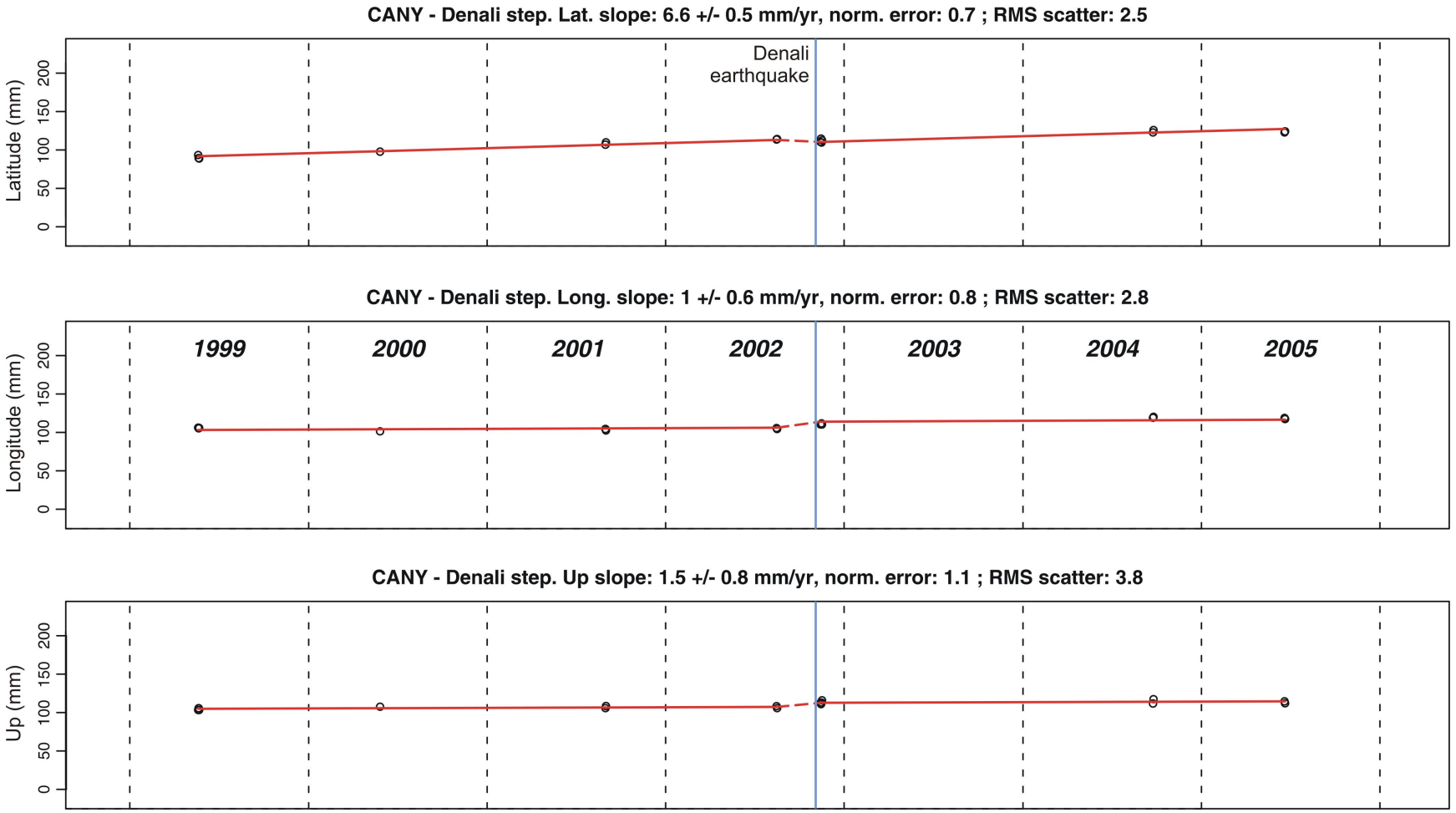

BEUT -Denali coseismic deformation. Lat. slope: 7.5 +/- 0.4 mm/yr, norm. error: 1.1 ; RMS scatter: 2.1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
BEUT -Denali coseismic deformation. Long. slope: 0.5 +/- 0.8 mm/yr, norm. error: 3.2 ; RMS scatter: 3.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
BEUT -Denali coseismic deformation. Up slope: 24.8 +/- 2 mm/yr, norm. error: 19.2 ; RMS scatter: 8.8
Up (mm)

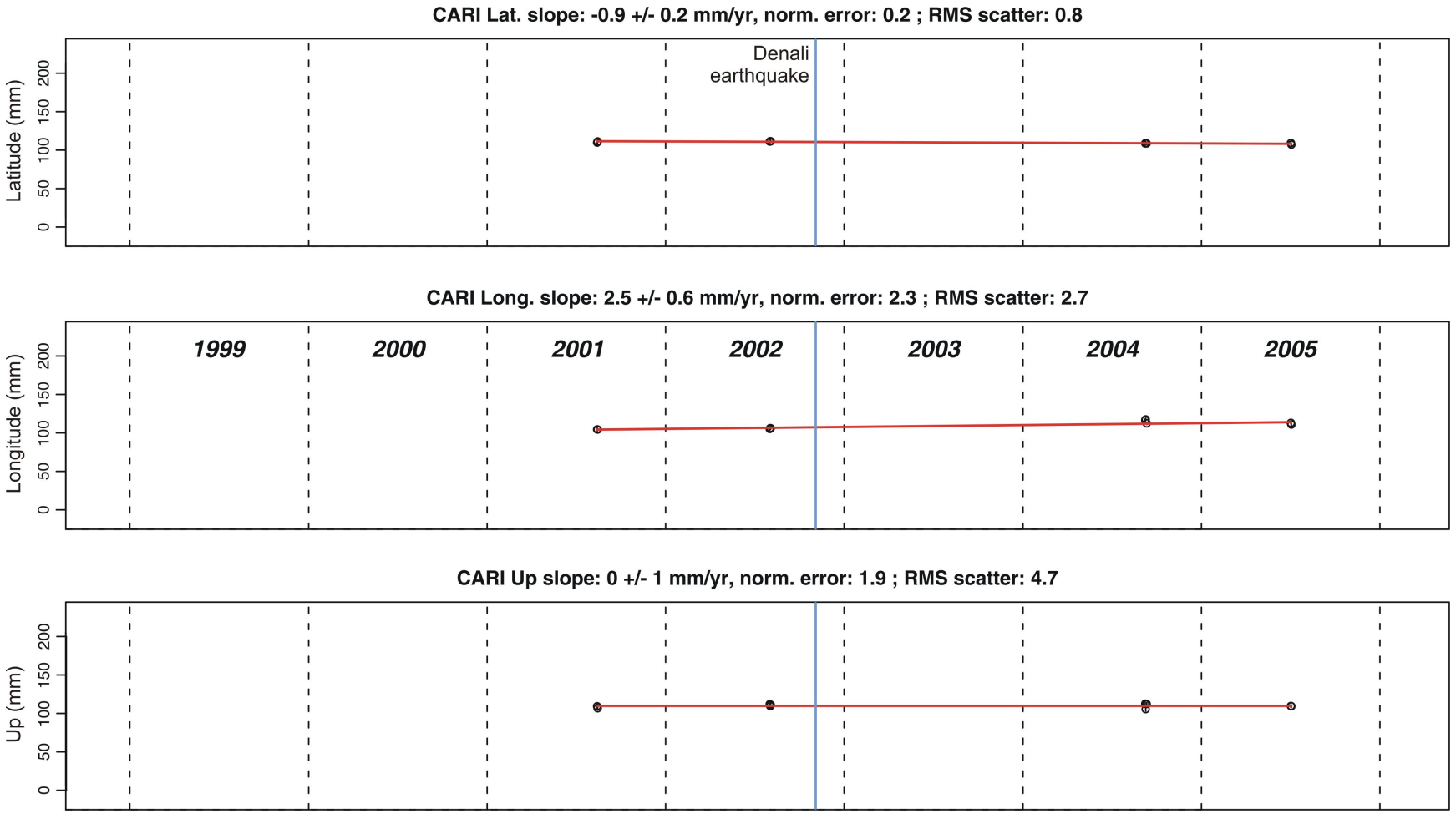

BEUT -Denali co- and postseismic deformation. Lat. slope: 7.4 +/- 0.4 mm/yr, norm. error: 1.1 ; RMS scatter: 2.1
Latitude (mm)
0
50
100
150
200
Denali earthquake
BEUT -Denali co- and postseismic deformation. Long. slope: 0.9 +/- 0.8 mm/yr, norm. error: 3.1 ; RMS scatter: 3.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
BEUT -Denali co- and postseismic deformation. Up slope: 25 +/- 2 mm/yr, norm. error: 19.6 ; RMS scatter: 9
Up (mm)

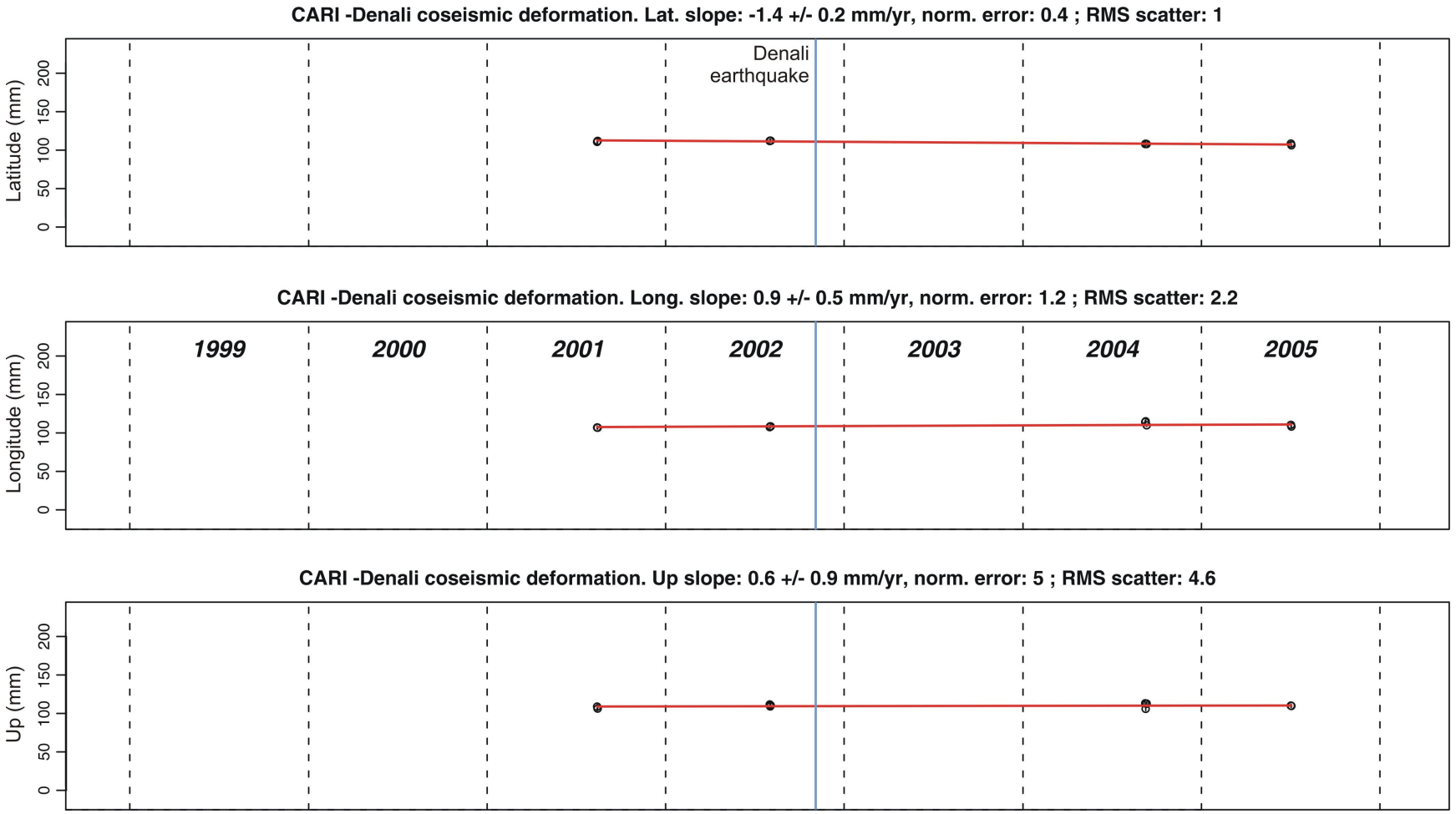

CANY Lat. slope: 5.5 +/- 0.4 mm/yr, norm. error: 1.4 ; RMS scatter: 2.8
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CANY Long. slope: 2.8 +/- 0.5 mm/yr, norm. error: 2 ; RMS scatter: 3.5
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CANY Up slope: 3.3 +/- 1 mm/yr, norm. error: 2.8 ; RMS scatter: 5.2
Up (mm)

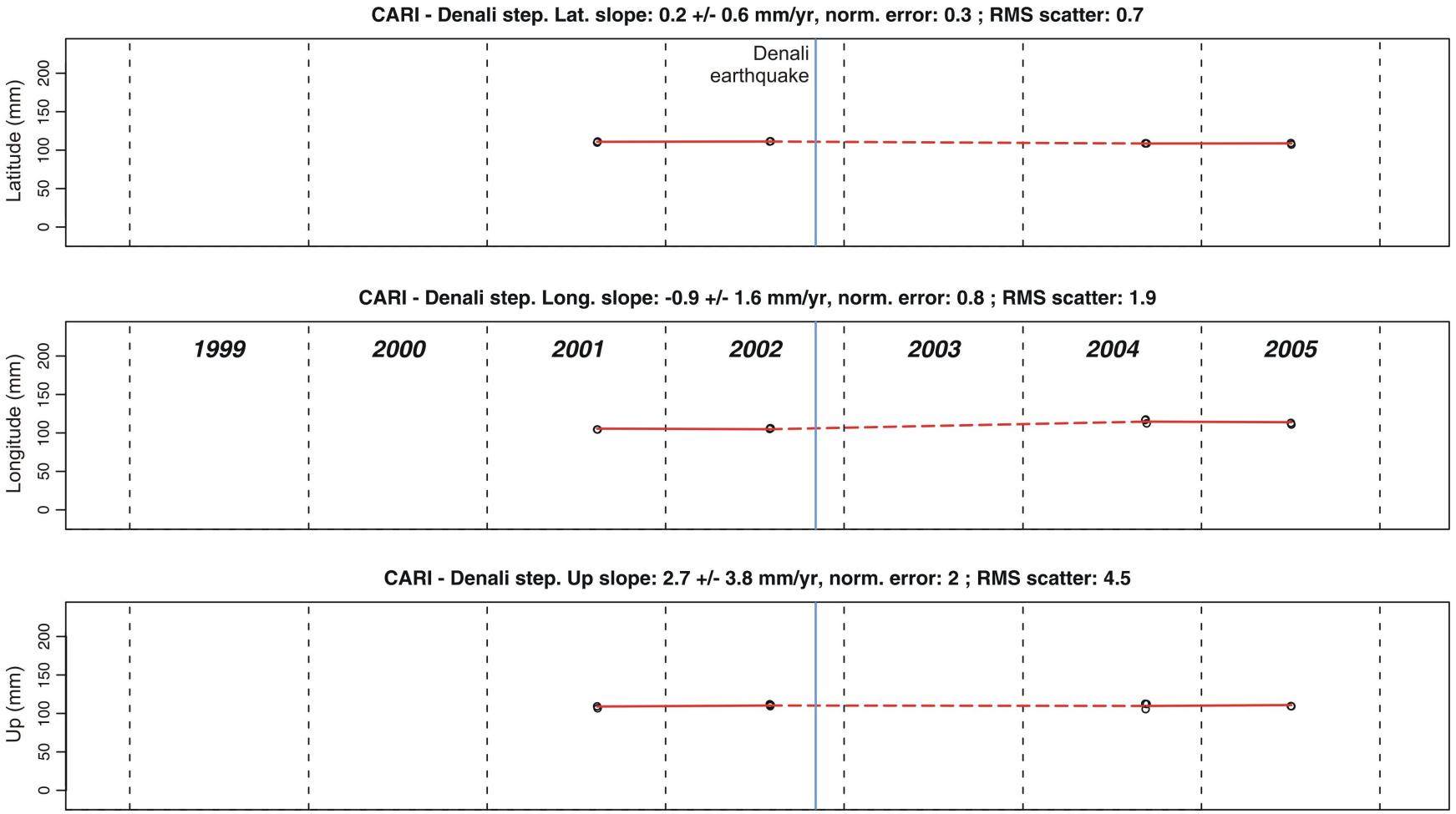

CANY -Denali coseismic deformation. Lat. slope: 4.4 +/- 0.6 mm/yr, norm. error: 2.4 ; RMS scatter: 3.9
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CANY -Denali coseismic deformation. Long. slope: 2.4 +/- 0.4 mm/yr, norm. error: 1.4 ; RMS scatter: 3.2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CANY -Denali coseismic deformation. Up slope: 3.3 +/- 0.9 mm/yr, norm. error: 6.3 ; RMS scatter: 5.1
Up (mm)

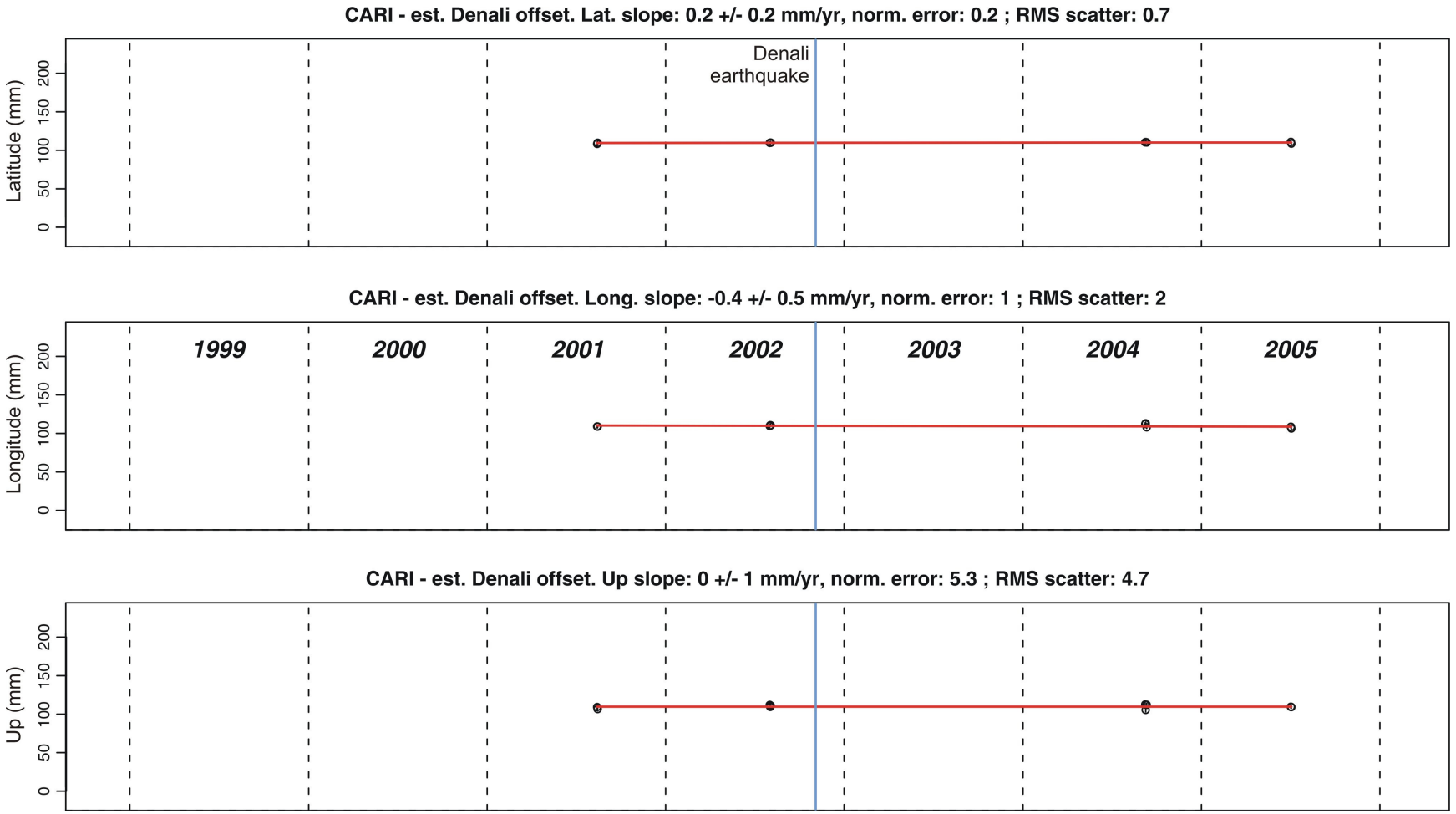

CANY -Denali co- and postseismic deformation. Lat. slope: 4.7 +/- 0.5 mm/yr, norm. error: 2 ; RMS scatter: 3.6
Denali earthquake
Latitude (mm)
0
50
100
150
200
CANY -Denali co- and postseismic deformation. Long. slope: 3 +/- 0.5 mm/yr, norm. error: 1.7 ; RMS scatter: 3.6
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
CANY -Denali co- and postseismic deformation. Up slope: 3.2 +/- 0.9 mm/yr, norm. error: 7 ; RMS scatter: 5.5
Up (mm)

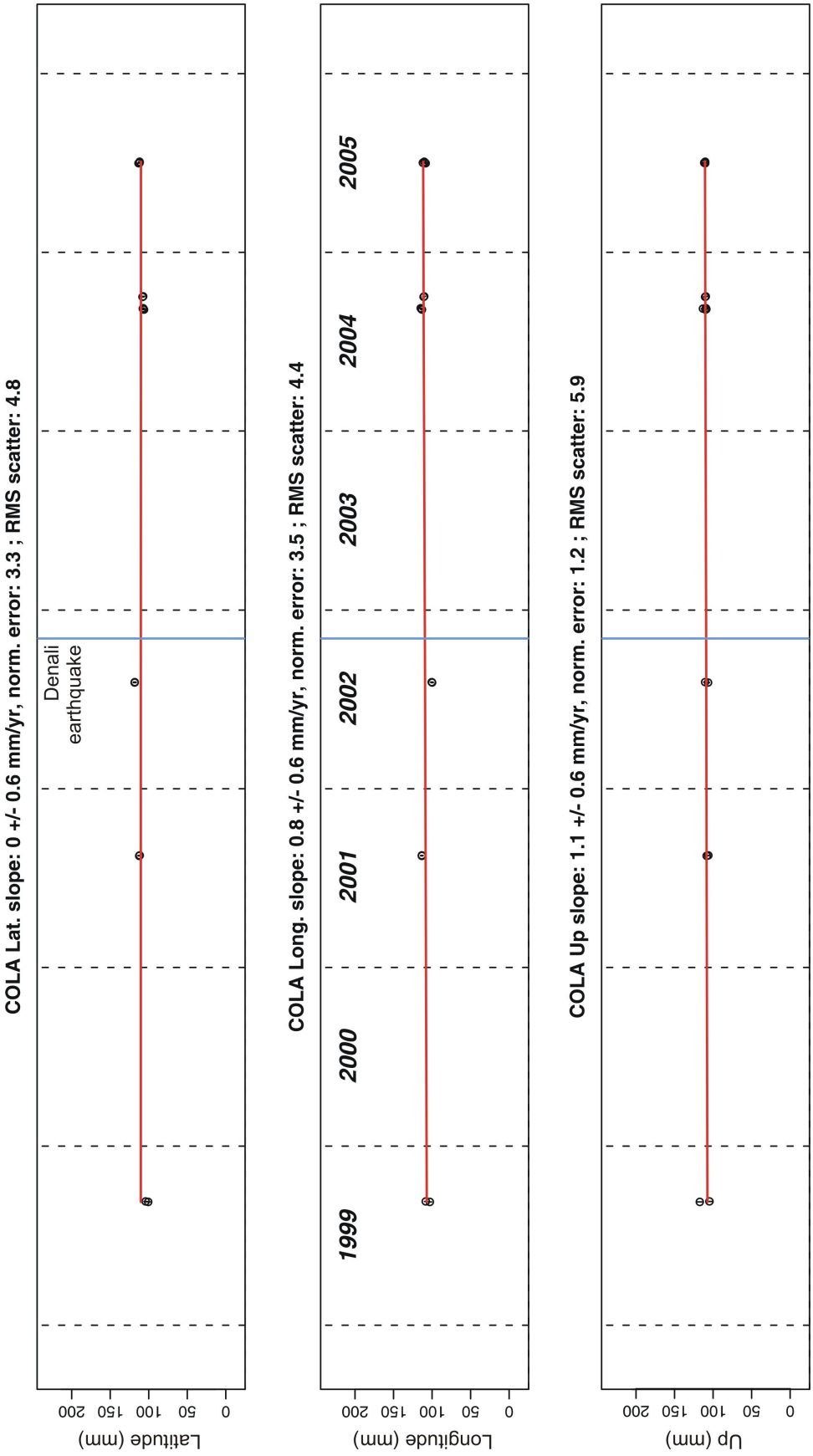

CANY - Denali step. Lat. slope: 6.6 +/- 0.5 mm/yr, norm. error: 0.7 ; RMS scatter: 2.5
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CANY - Denali step. Long. slope: 1 +/- 0.6 mm/yr, norm. error: 0.8 ; RMS scatter: 2.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CANY - Denali step. Up slope: 1.5 +/- 0.8 mm/yr, norm. error: 1.1 ; RMS scatter: 3.8
Up (mm)


CARI Lat. slope: -0.9 +/- 0.2 mm/yr, norm. error: 0.2 ; RMS scatter: 0.8
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CARI Long. slope: 2.5 +/- 0.6 mm/yr, norm. error: 2.3 ; RMS scatter: 2.7
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CARI Up slope: 0 +/- 1 mm/yr, norm. error: 1.9 ; RMS scatter: 4.7
Up (mm)


CARI -Denali coseismic deformation. Lat. slope: -1.4 +/- 0.2 mm/yr, norm. error: 0.4 ; RMS scatter: 1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CARI -Denali coseismic deformation. Long. slope: 0.9 +/- 0.5 mm/yr, norm. error: 1.2 ; RMS scatter: 2.2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CARI -Denali coseismic deformation. Up slope: 0.6 +/- 0.9 mm/yr, norm. error: 5 ; RMS scatter: 4.6
Up (mm)

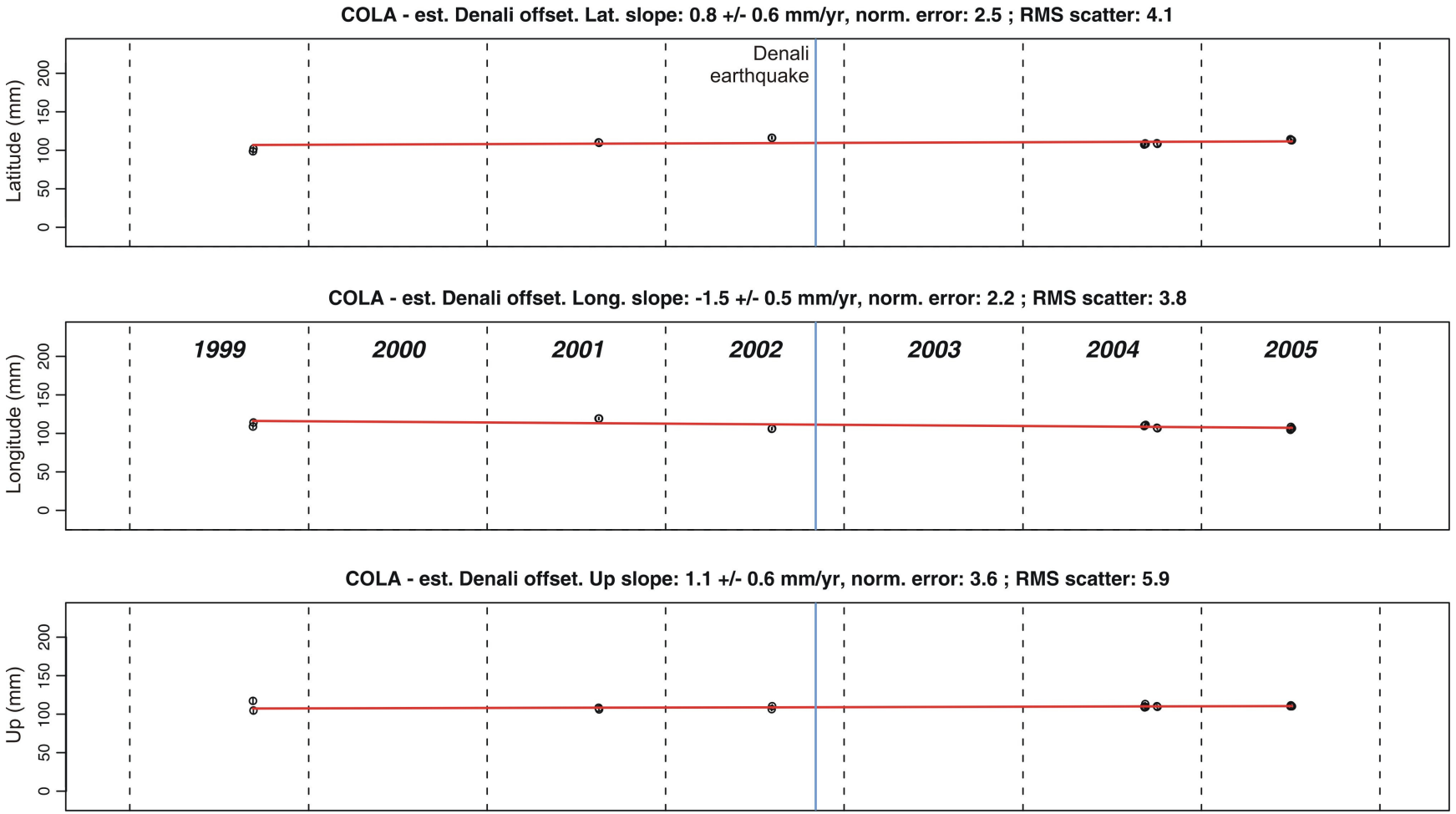

CARI - Denali step. Lat. slope: 0.2 +/- 0.6 mm/yr, norm. error: 0.3 ; RMS scatter: 0.7
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CARI - Denali step. Long. slope: -0.9 +/- 1.6 mm/yr, norm. error: 0.8 ; RMS scatter: 1.9
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CARI - Denali step. Up slope: 2.7 +/- 3.8 mm/yr, norm. error: 2 ; RMS scatter: 4.5
Up (mm)

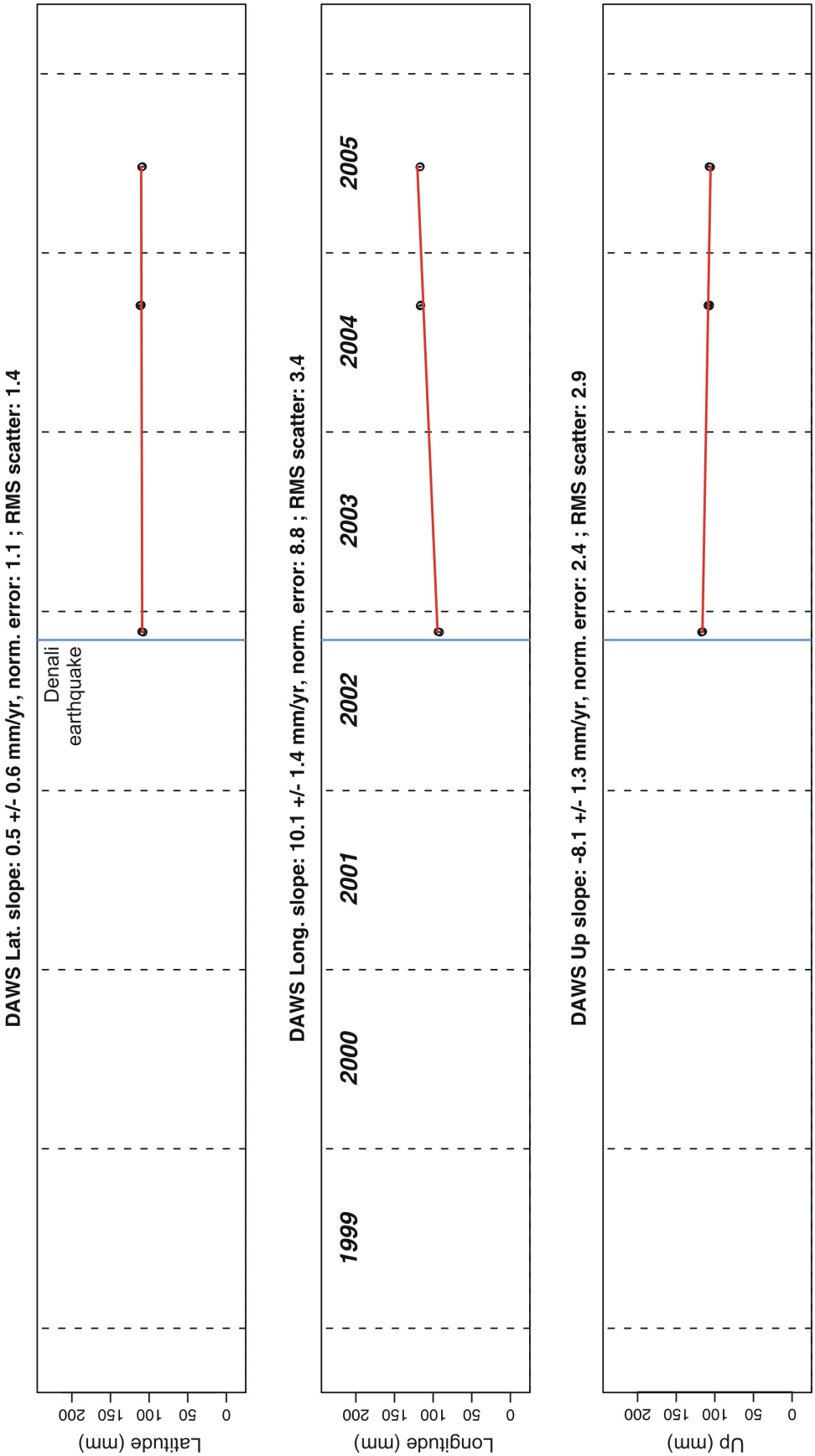

CARI - est. Denali offset. Lat. slope: 0.2 +/- 0.2 mm/yr, norm. error: 0.2 ; RMS scatter: 0.7
Latitude (mm)
0
50
100
150
200
Denali
earthquake
CARI - est. Denali offset. Long. slope: -0.4 +/- 0.5 mm/yr, norm. error: 1 ; RMS scatter: 2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
CARI - est. Denali offset. Up slope: 0 +/- 1 mm/yr, norm. error: 5.3 ; RMS scatter: 4.7
Up (mm)

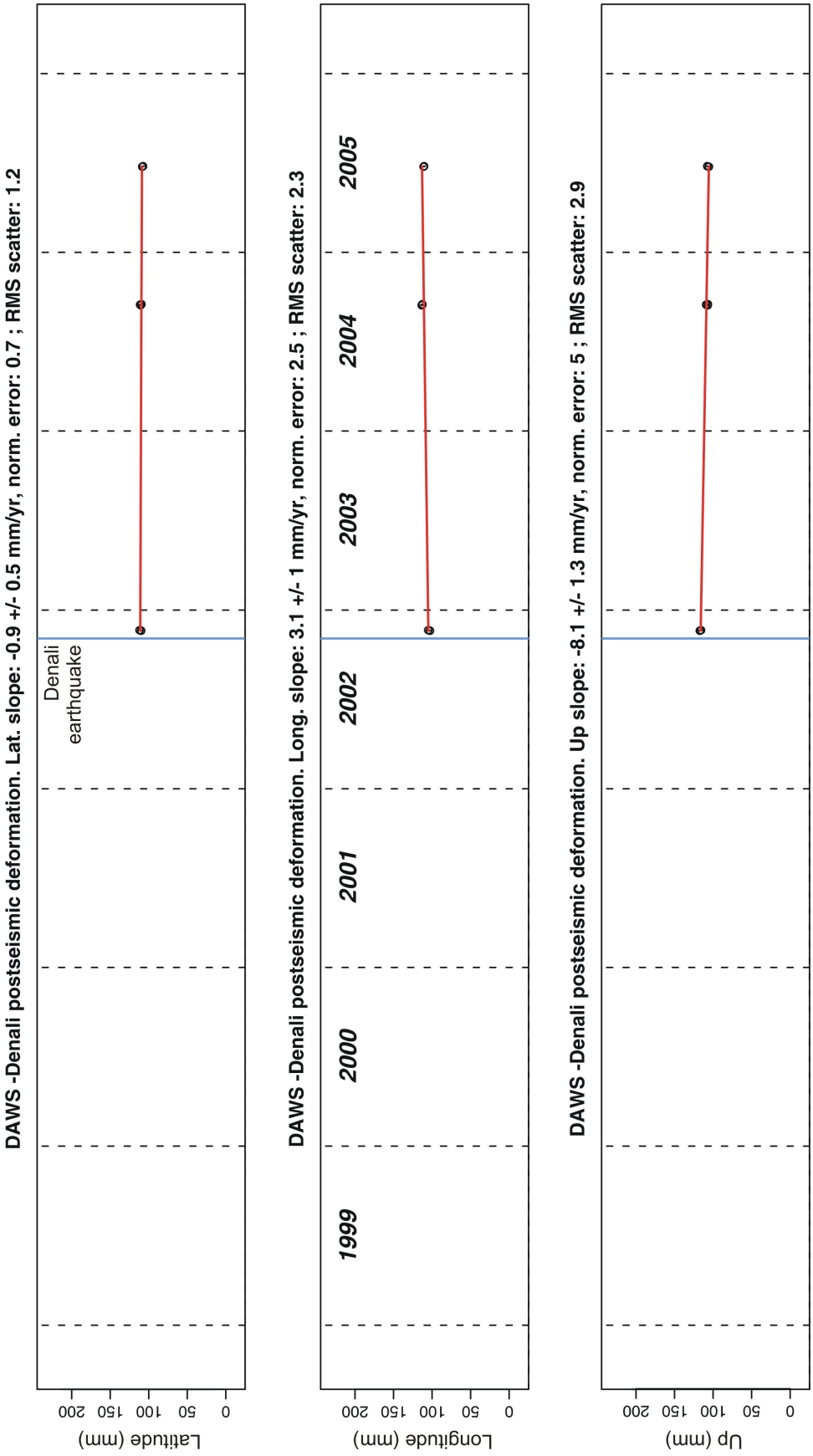

COLA Lat. slope: 0 +/- 0.6 mm/yr, norm. error: 3.3 ; RMS scatter: 4.8
Denali earthquake
Latitude (mm)
0
50
100
150
200
COLA Long. slope: 0.8 +/- 0.6 mm/yr, norm. error: 3.5 ; RMS scatter: 4.4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
COLA Up slope: 1.1 +/- 0.6 mm/yr, norm. error: 1.2 ; RMS scatter: 5.9
Up (mm)
0
50
100
150
200

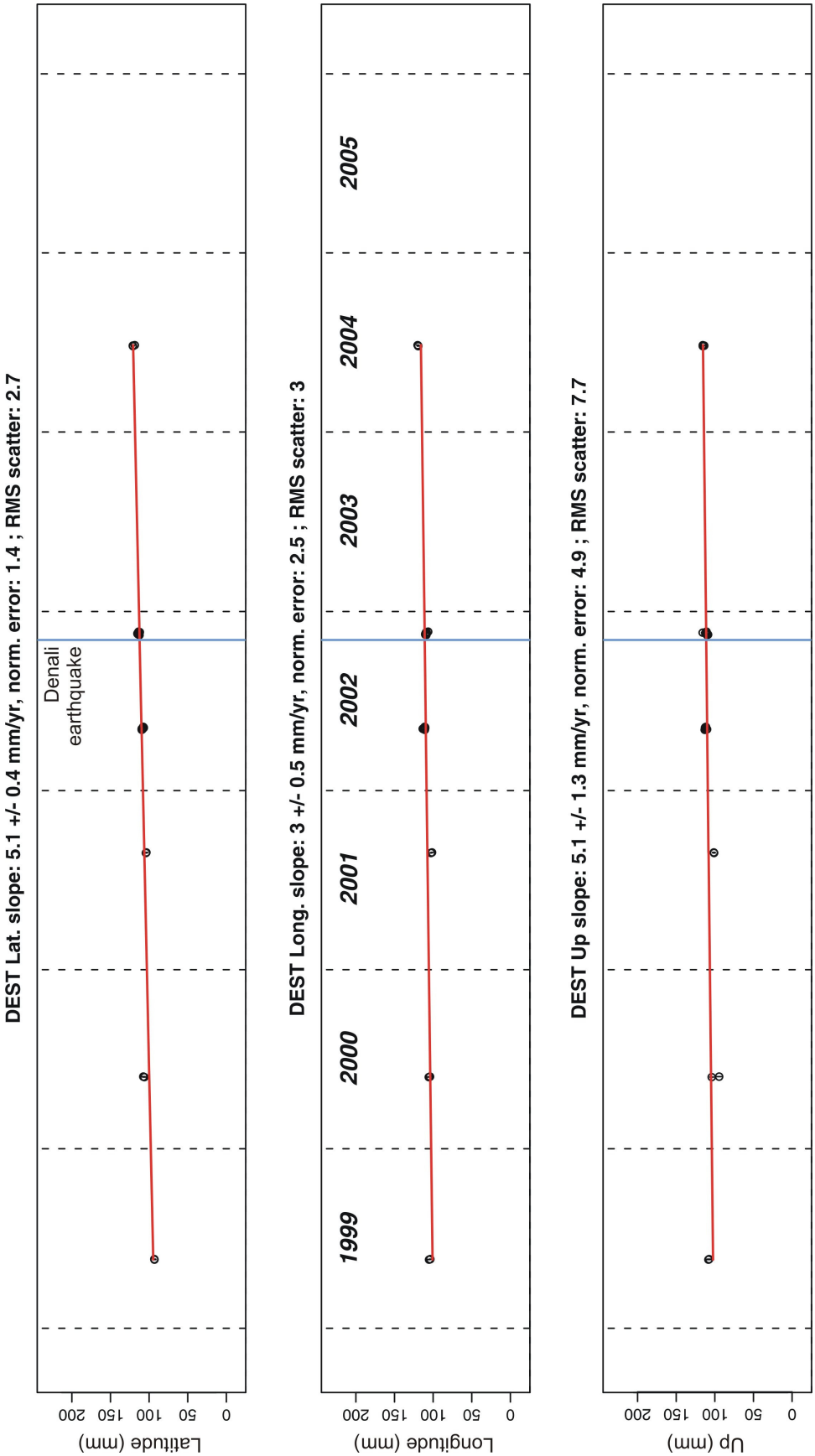

COLA -Denali coseismic deformation. Lat. slope: -0.4 +/- 0.7 mm/yr, norm. error: 3.8 ; RMS scatter: 5.1
Denali earthquake
Latitude (mm)
0
50
100
150
200
COLA -Denali coseismic deformation. Long. slope: -0.3 +/- 0.6 mm/yr, norm. error: 2.4 ; RMS scatter: 4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
COLA -Denali coseismic deformation. Up slope: 1.5 +/- 0.6 mm/yr, norm. error: 3.7 ; RMS scatter: 6
Up (mm)
0
50
100
150
200

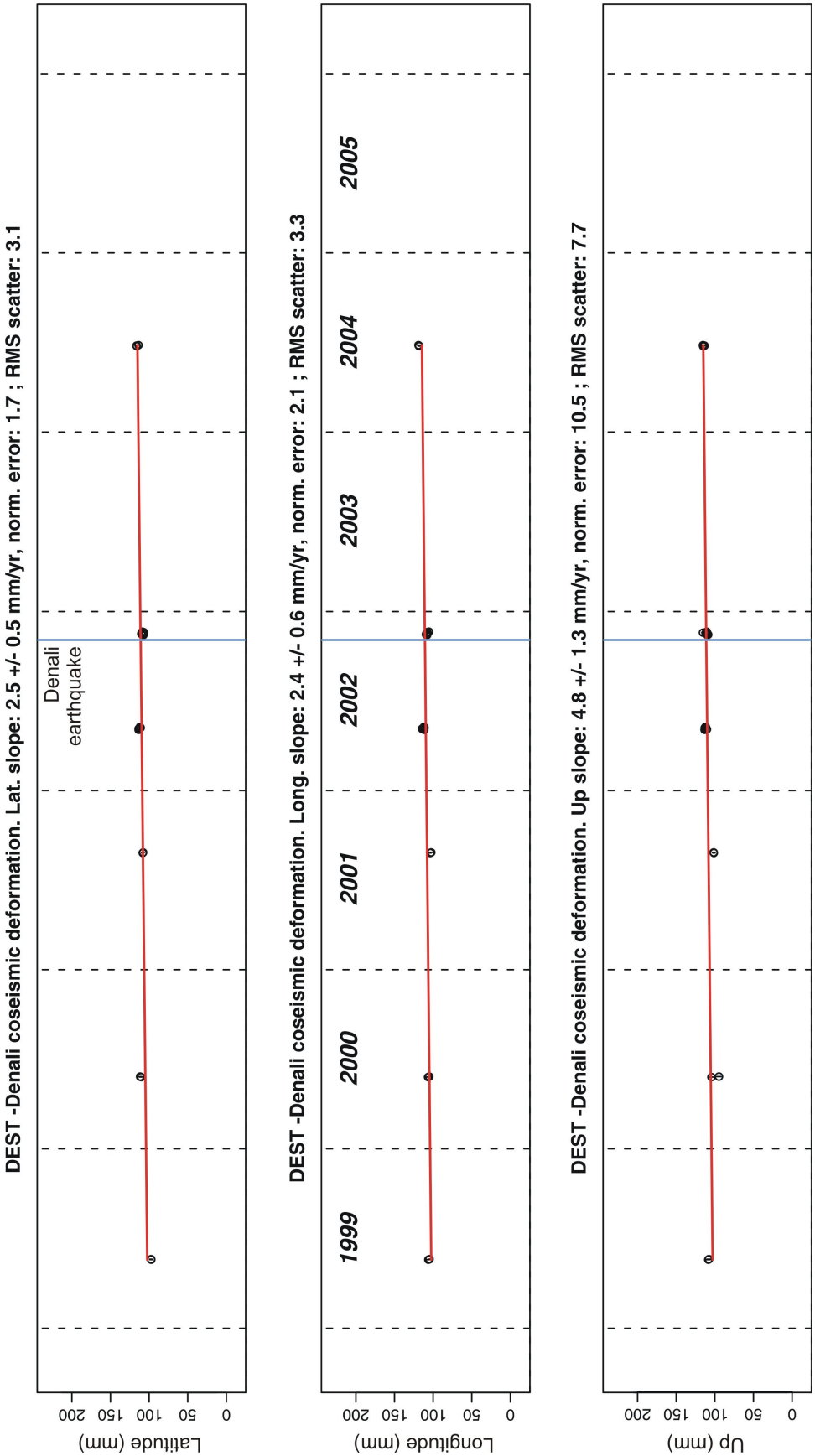

COLA - Denali step. Lat. slope: 5.6 +/- 0.3 mm/yr, norm. error: 0.3 ; RMS scatter: 0.9
Denali earthquake
Latitude (mm)
0
50
100
150
200
COLA - Denali step. Long. slope: -1.1 +/- 1.2 mm/yr, norm. error: 1.2 ; RMS scatter: 3.8
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
COLA - Denali step. Up slope: -2.2 +/- 2 mm/yr, norm. error: 1.7 ; RMS scatter: 5.4
Up (mm)
0
50
100
150
200

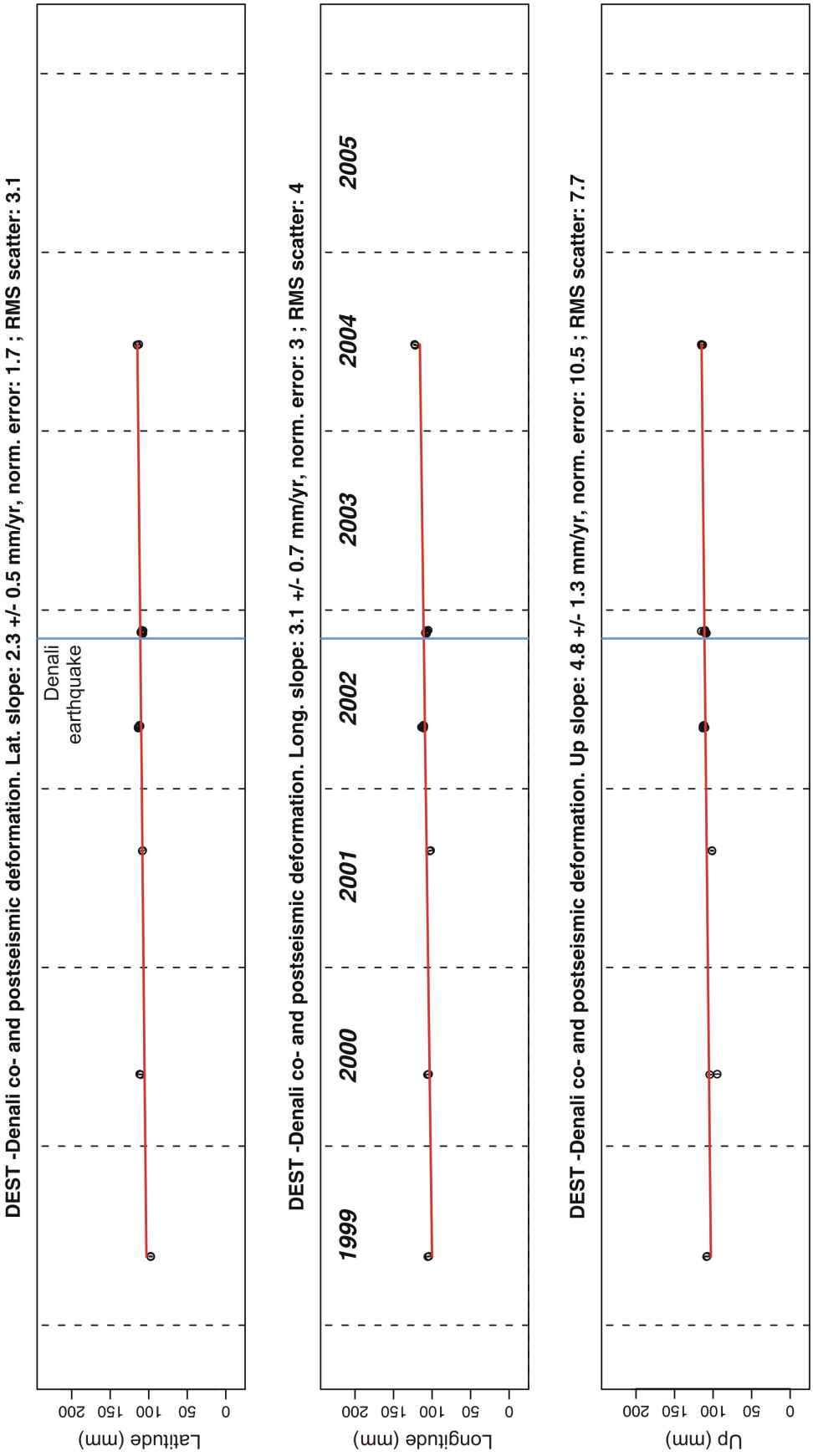

COLA - est. Denali offset. Lat. slope: 0.8 +/- 0.6 mm/yr, norm. error: 2.5 ; RMS scatter: 4.1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
COLA - est. Denali offset. Long. slope: -1.5 +/- 0.5 mm/yr, norm. error: 2.2 ; RMS scatter: 3.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
COLA - est. Denali offset. Up slope: 1.1 +/- 0.6 mm/yr, norm. error: 3.6 ; RMS scatter: 5.9
Up (mm)

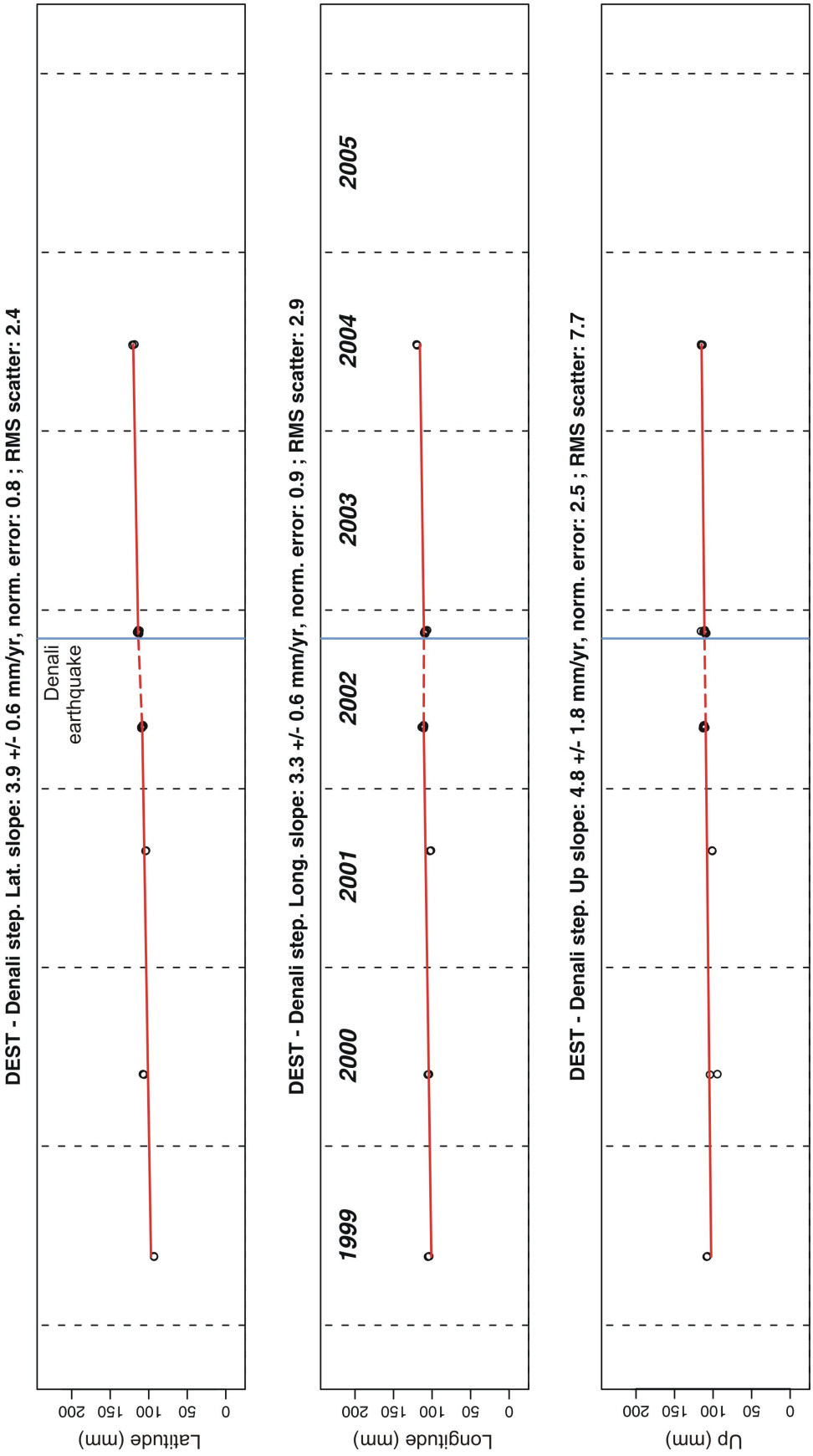

DAWS Lat. slope: 0.5 +/- 0.6 mm/yr, norm. error: 1.1 ; RMS scatter: 1.4
Latitude (mm)
0
50
100
150
200
Denali earthquake
DAWS Long. slope: 10.1 +/- 1.4 mm/yr, norm. error: 8.8 ; RMS scatter: 3.4
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
DAWS Up slope: -8.1 +/- 1.3 mm/yr, norm. error: 2.4 ; RMS scatter: 2.9
Up (mm)

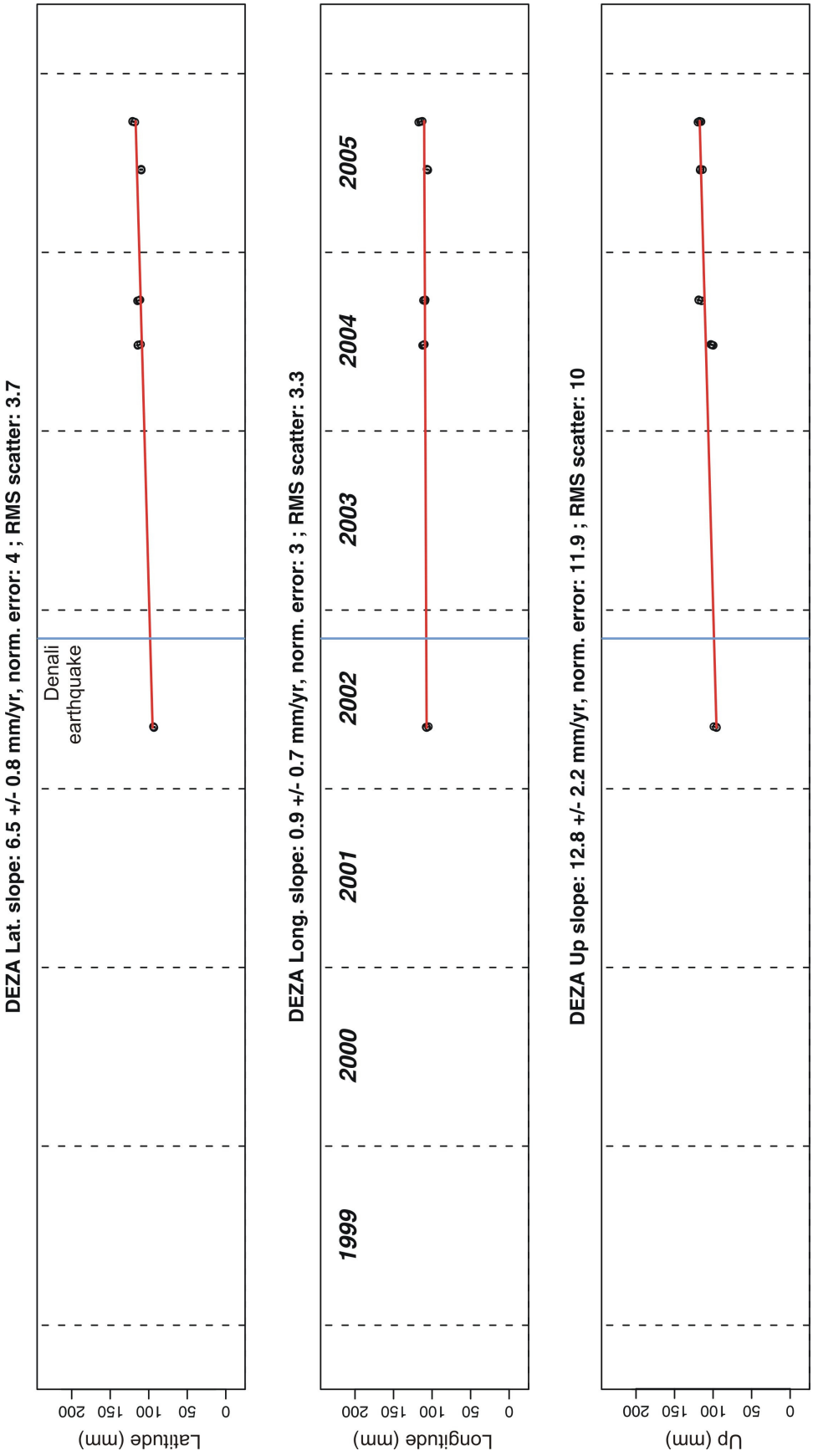

DAWS -Denali postseismic deformation. Lat. slope: -0.9 +/- 0.5 mm/yr, norm. error: 0.7 ; RMS scatter: 1.2
Latitude (mm)
0
50
100
150
200
Denali earthquake
DAWS -Denali postseismic deformation. Long. slope: 3.1 +/- 1 mm/yr, norm. error: 2.5 ; RMS scatter: 2.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
DAWS -Denali postseismic deformation. Up slope: -8.1 +/- 1.3 mm/yr, norm. error: 5 ; RMS scatter: 2.9
Up (mm)

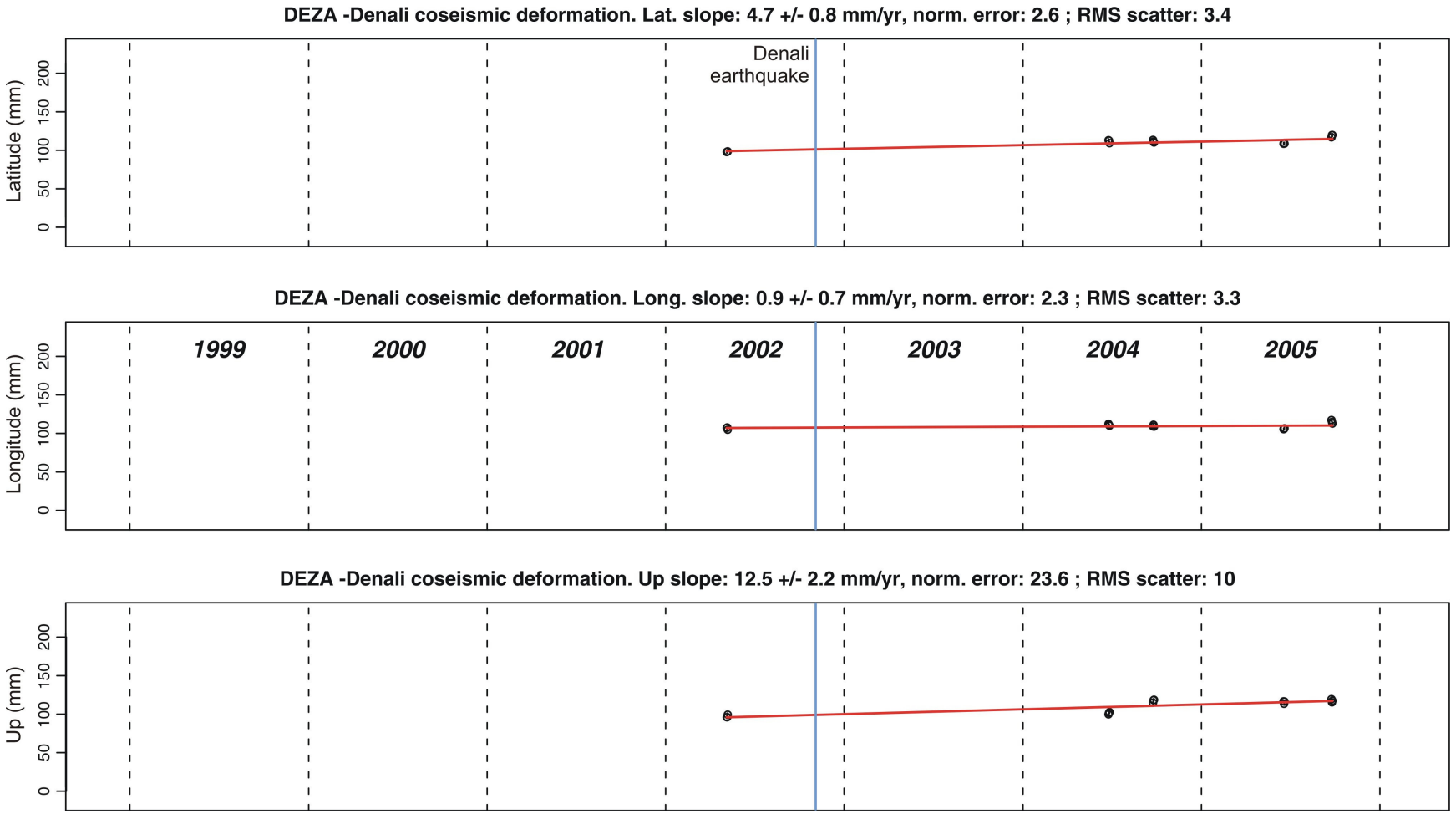

DEST Lat. slope: 5.1 +/- 0.4 mm/yr, norm. error: 1.4 ; RMS scatter: 2.7
Denali earthquake
Latitude (mm)
0 50 100 150 200
DEST Long. slope: 3 +/- 0.5 mm/yr, norm. error: 2.5 ; RMS scatter: 3
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
DEST Up slope: 5.1 +/- 1.3 mm/yr, norm. error: 4.9 ; RMS scatter: 7.7
Up (mm)
0 50 100 150 200

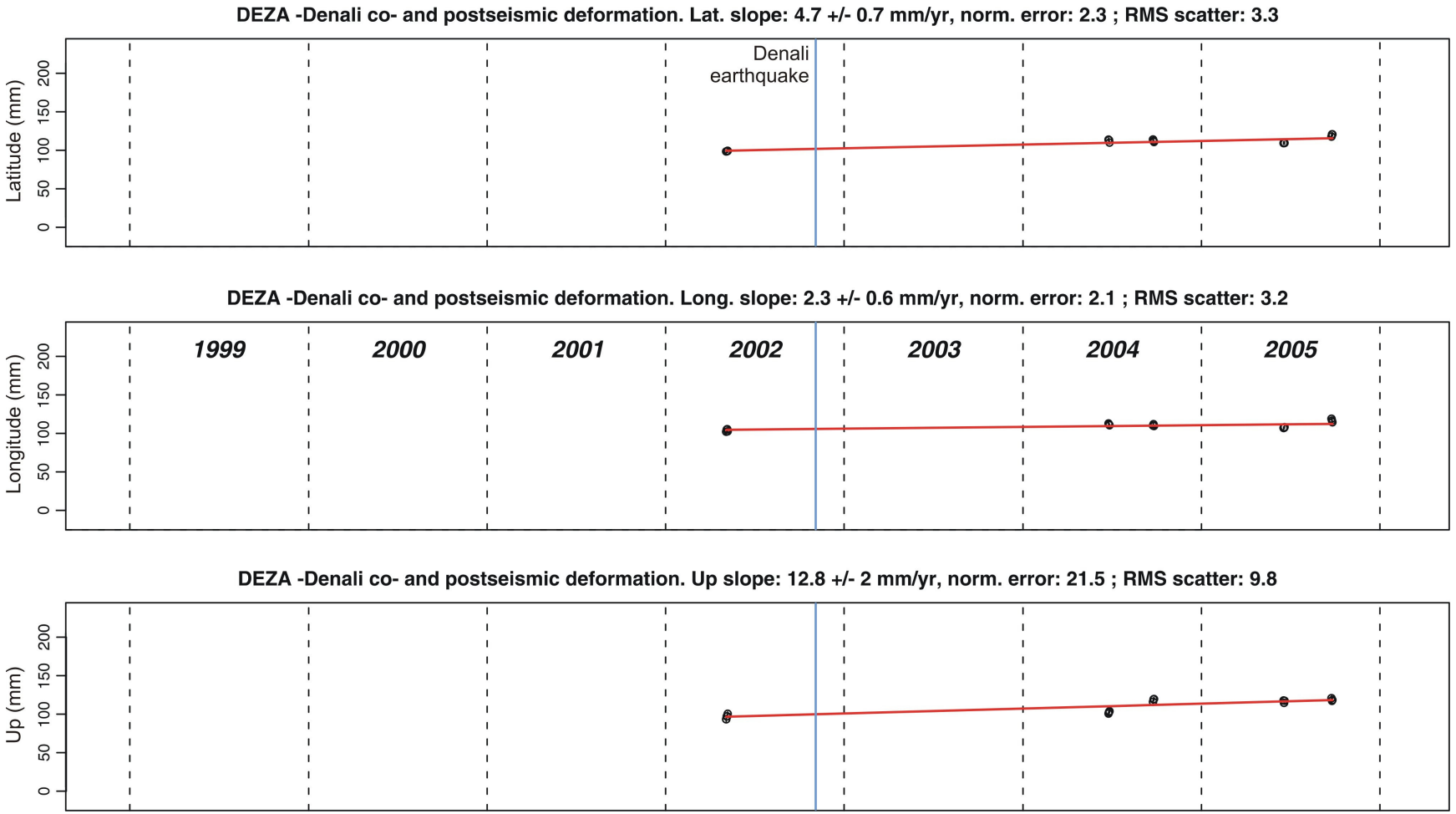

DEST -Denali coseismic deformation. Lat. slope: 2.5 +/- 0.5 mm/yr, norm. error: 1.7 ; RMS scatter: 3.1
Denali earthquake
Latitude (mm)
0 50 100 150 200
DEST -Denali coseismic deformation. Long. slope: 2.4 +/- 0.6 mm/yr, norm. error: 2.1 ; RMS scatter: 3.3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0 50 100 150 200
DEST -Denali coseismic deformation. Up slope: 4.8 +/- 1.3 mm/yr, norm. error: 10.5 ; RMS scatter: 7.7
Up (mm)
0 50 100 150 200

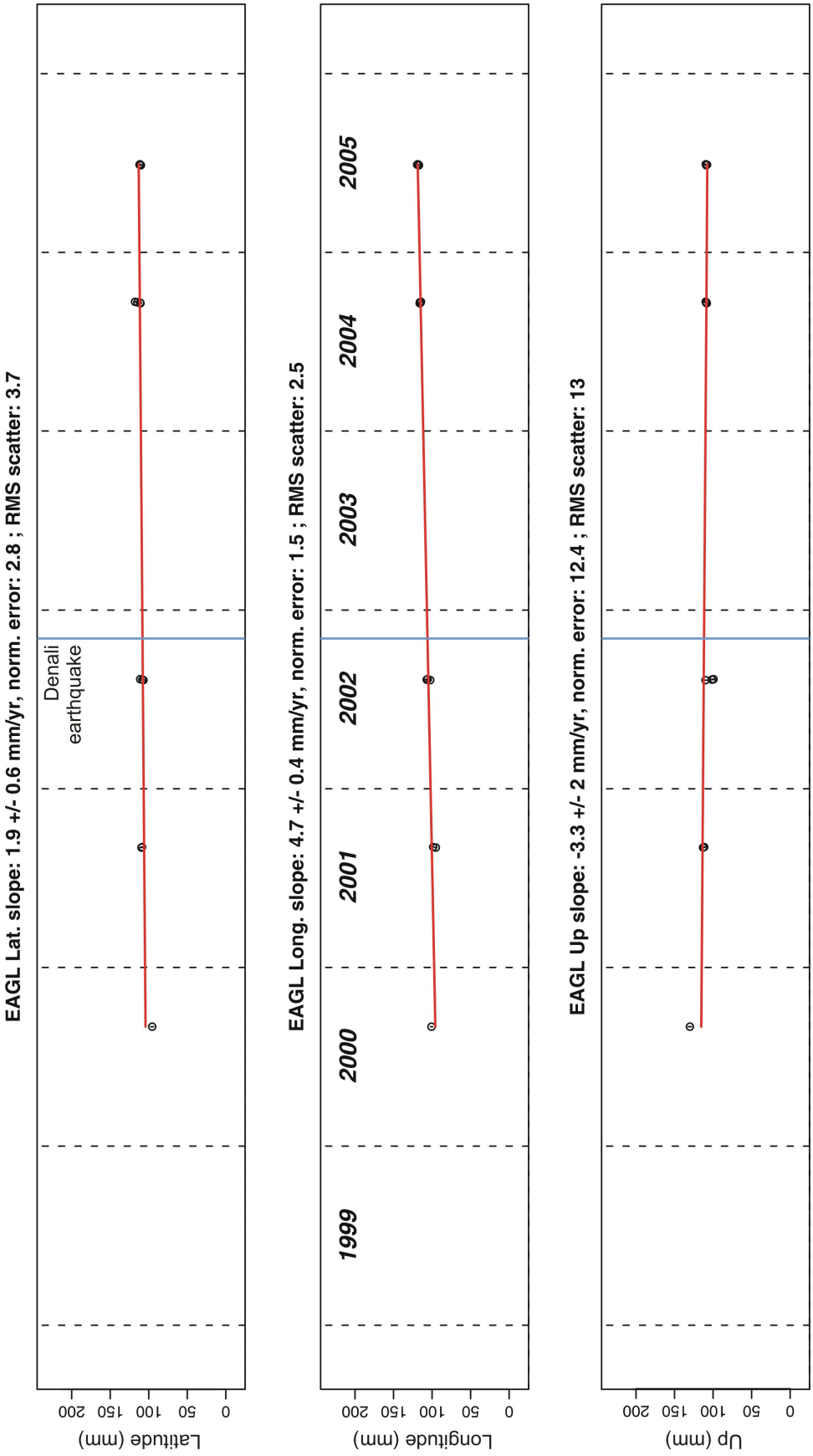

DEST -Denali co- and postseismic deformation. Lat. slope: 2.3 +/- 0.5 mm/yr, norm. error: 1.7 ; RMS scatter: 3.1
Denali earthquake
Latitude (mm)
0
50
100
150
200
DEST -Denali co- and postseismic deformation. Long. slope: 3.1 +/- 0.7 mm/yr, norm. error: 3 ; RMS scatter: 4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
DEST -Denali co- and postseismic deformation. Up slope: 4.8 +/- 1.3 mm/yr, norm. error: 10.5 ; RMS scatter: 7.7
Up (mm)
0
50
100
150
200

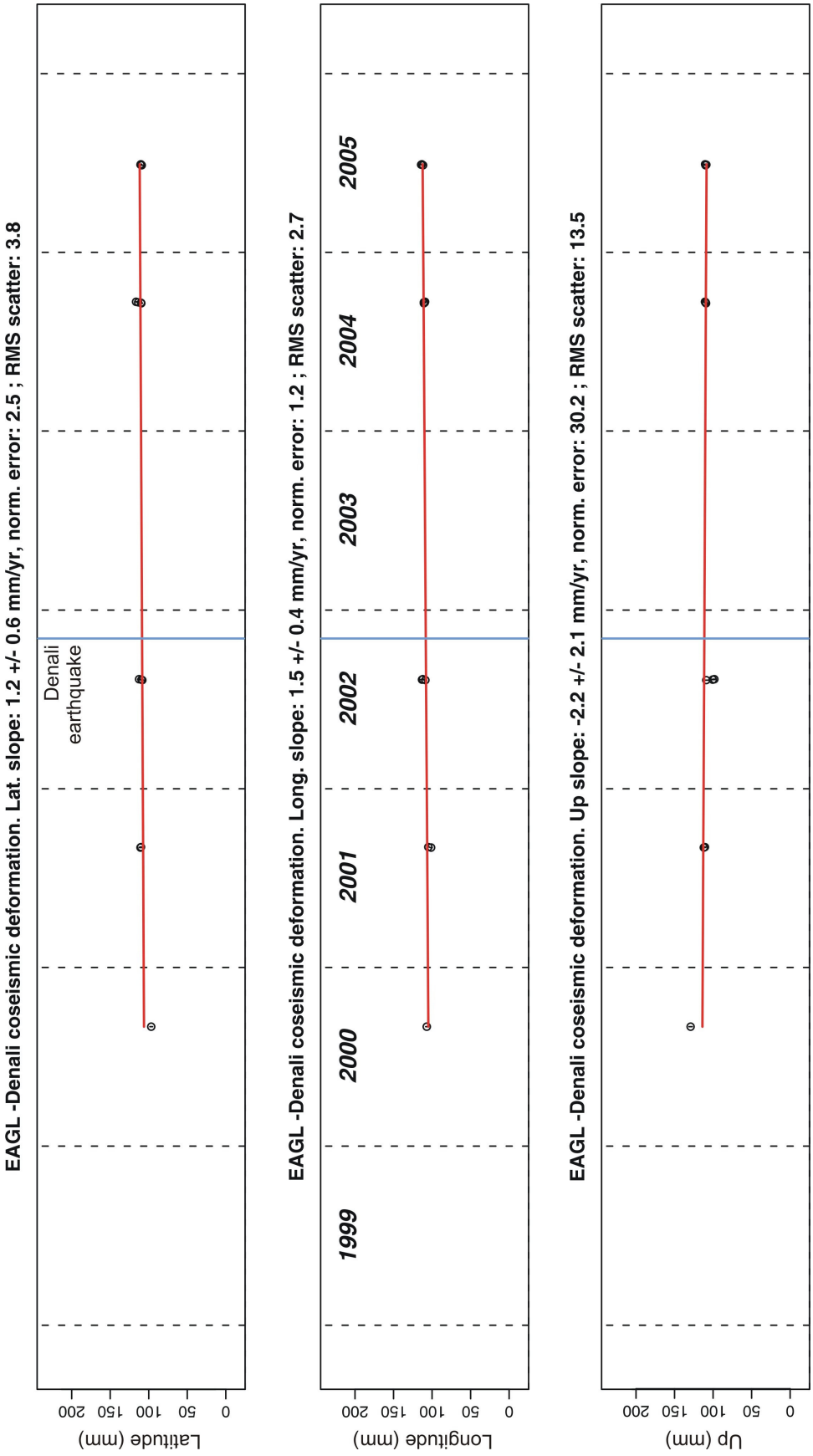

DEST - Denali step. Lat. slope: 3.9 +/- 0.6 mm/yr, norm. error: 0.8 ; RMS scatter: 2.4
Denali earthquake
Latitude (mm)
0 50 100 150 200
DEST - Denali step. Long. slope: 3.3 +/- 0.6 mm/yr, norm. error: 0.9 ; RMS scatter: 2.9
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
DEST - Denali step. Up slope: 4.8 +/- 1.8 mm/yr, norm. error: 2.5 ; RMS scatter: 7.7
Up (mm)
0 50 100 150 200

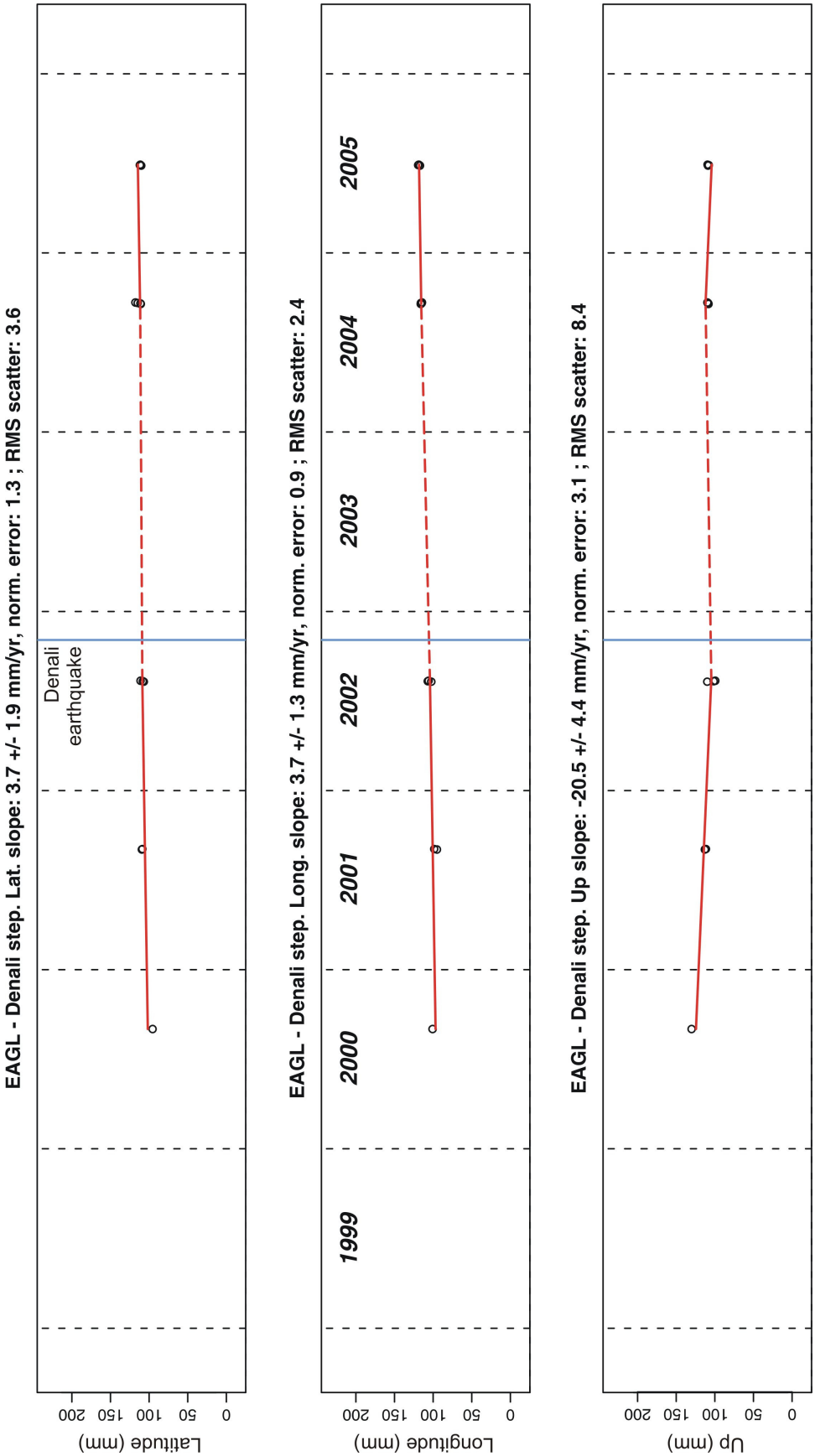

DEZA Lat. slope: 6.5 +/- 0.8 mm/yr, norm. error: 4 ; RMS scatter: 3.7
Denali earthquake
Latitude (mm)
0 50 100 150 200
DEZA Long. slope: 0.9 +/- 0.7 mm/yr, norm. error: 3 ; RMS scatter: 3.3
Longitude (mm)
0 50 100 150 200
DEZA Up slope: 12.8 +/- 2.2 mm/yr, norm. error: 11.9 ; RMS scatter: 10
Up (mm)
0 50 100 150 200
1999
2000
2001
2002
2003
2004
2005

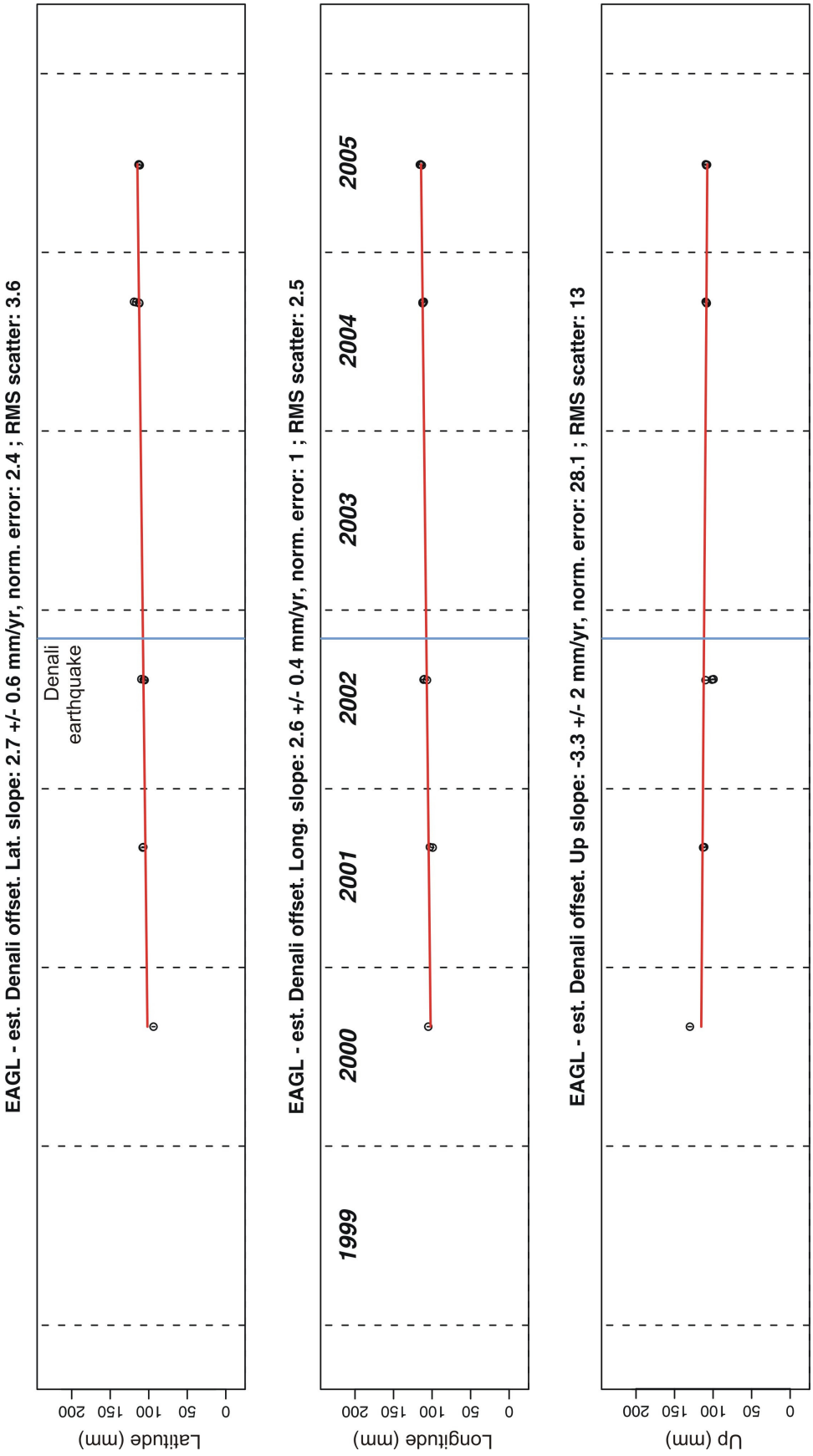

DEZA -Denali coseismic deformation. Lat. slope: 4.7 +/- 0.8 mm/yr, norm. error: 2.6 ; RMS scatter: 3.4
Latitude (mm)
0
50
100
150
200
Denali
earthquake
DEZA -Denali coseismic deformation. Long. slope: 0.9 +/- 0.7 mm/yr, norm. error: 2.3 ; RMS scatter: 3.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
DEZA -Denali coseismic deformation. Up slope: 12.5 +/- 2.2 mm/yr, norm. error: 23.6 ; RMS scatter: 10
Up (mm)

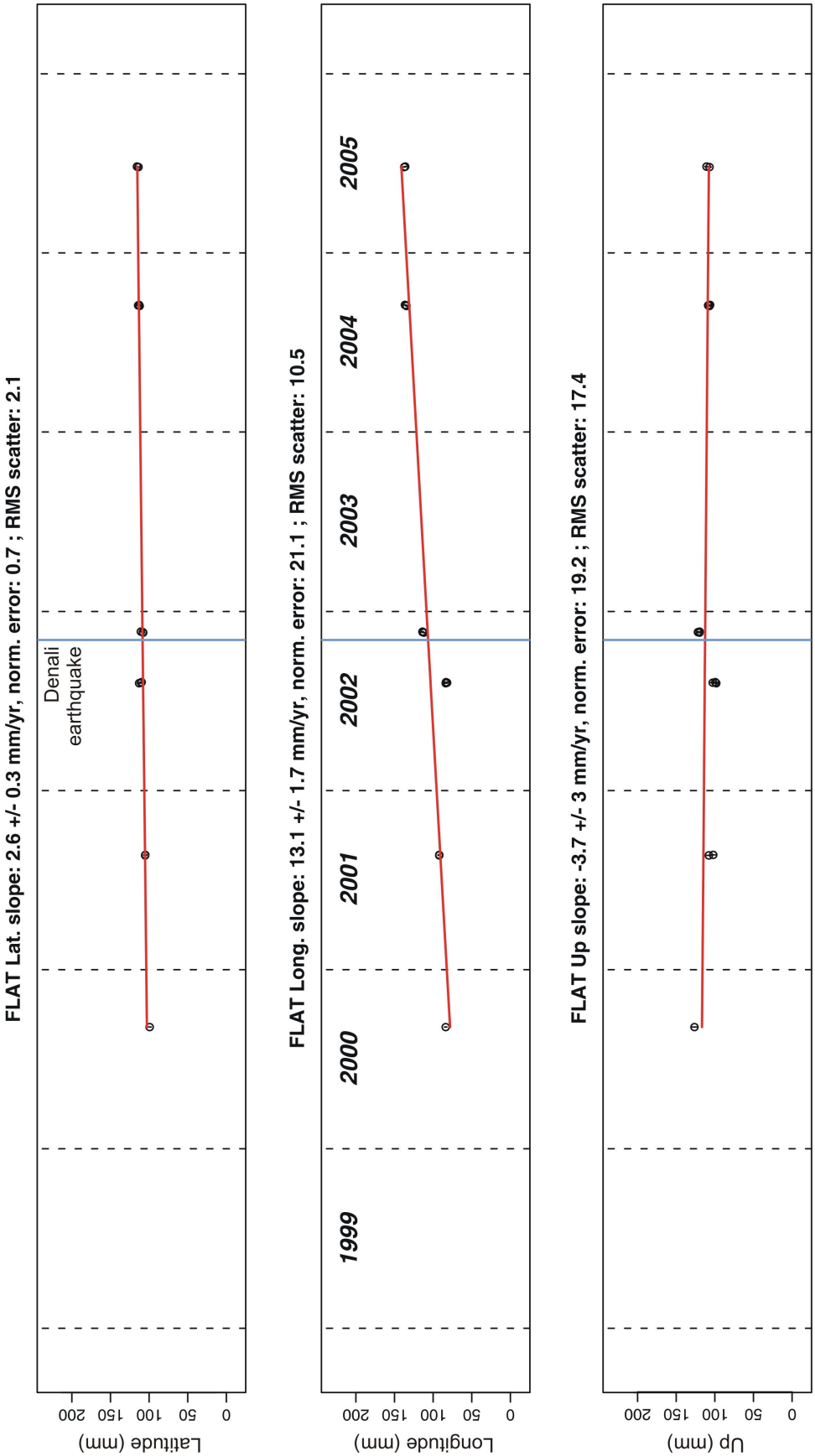

DEZA -Denali co- and postseismic deformation. Lat. slope: 4.7 +/- 0.7 mm/yr, norm. error: 2.3 ; RMS scatter: 3.3
Latitude (mm)
0
50
100
150
200
Denali
earthquake
DEZA -Denali co- and postseismic deformation. Long. slope: 2.3 +/- 0.6 mm/yr, norm. error: 2.1 ; RMS scatter: 3.2
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
DEZA -Denali co- and postseismic deformation. Up slope: 12.8 +/- 2 mm/yr, norm. error: 21.5 ; RMS scatter: 9.8
Up (mm)

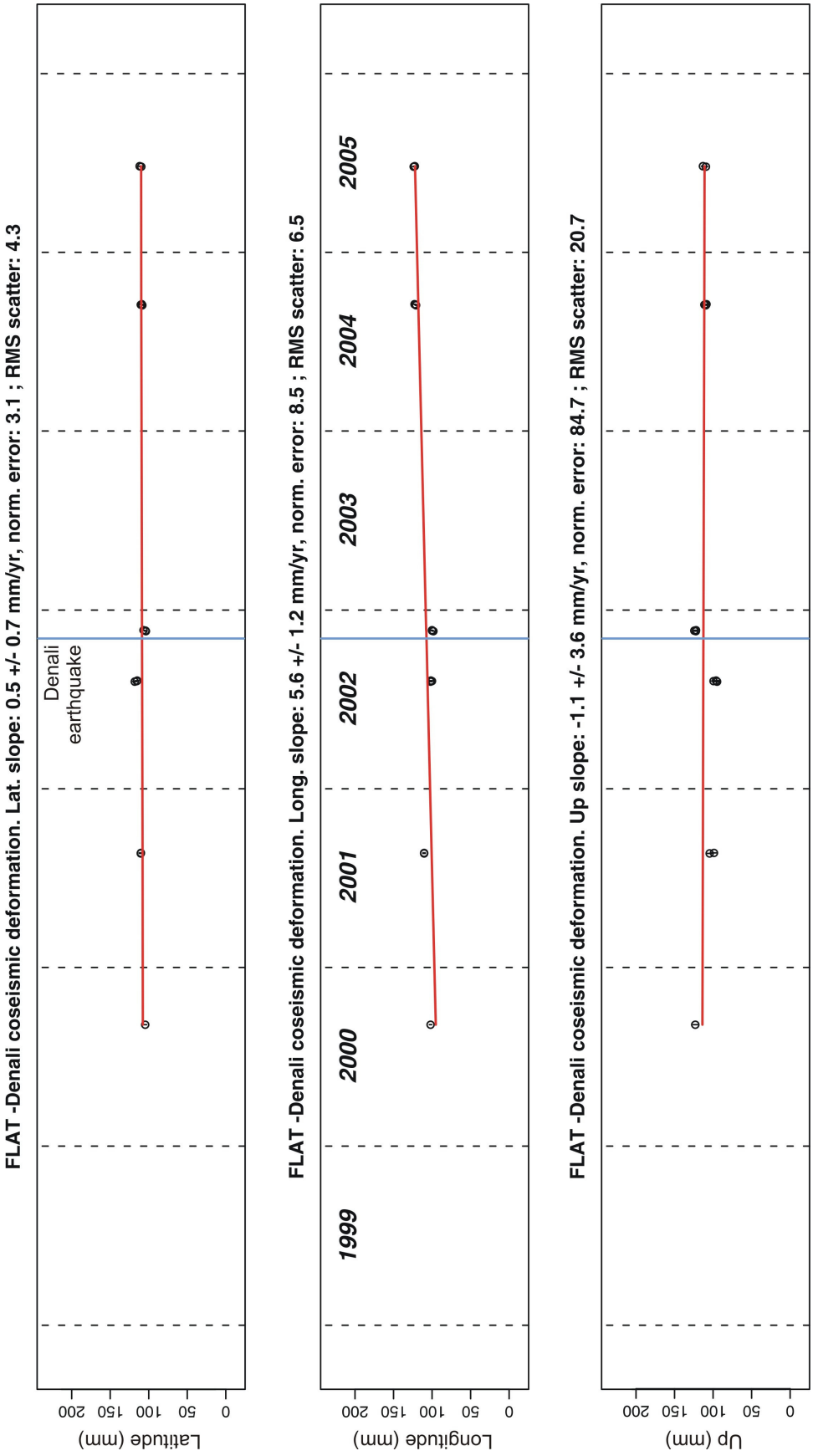

EAGL Lat. slope: 1.9 +/- 0.6 mm/yr, norm. error: 2.8 ; RMS scatter: 3.7
Denali earthquake
Latitude (mm)
0 50 100 150 200
EAGL Long. slope: 4.7 +/- 0.4 mm/yr, norm. error: 1.5 ; RMS scatter: 2.5
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
EAGL Up slope: -3.3 +/- 2 mm/yr, norm. error: 12.4 ; RMS scatter: 13
Up (mm)
0 50 100 150 200

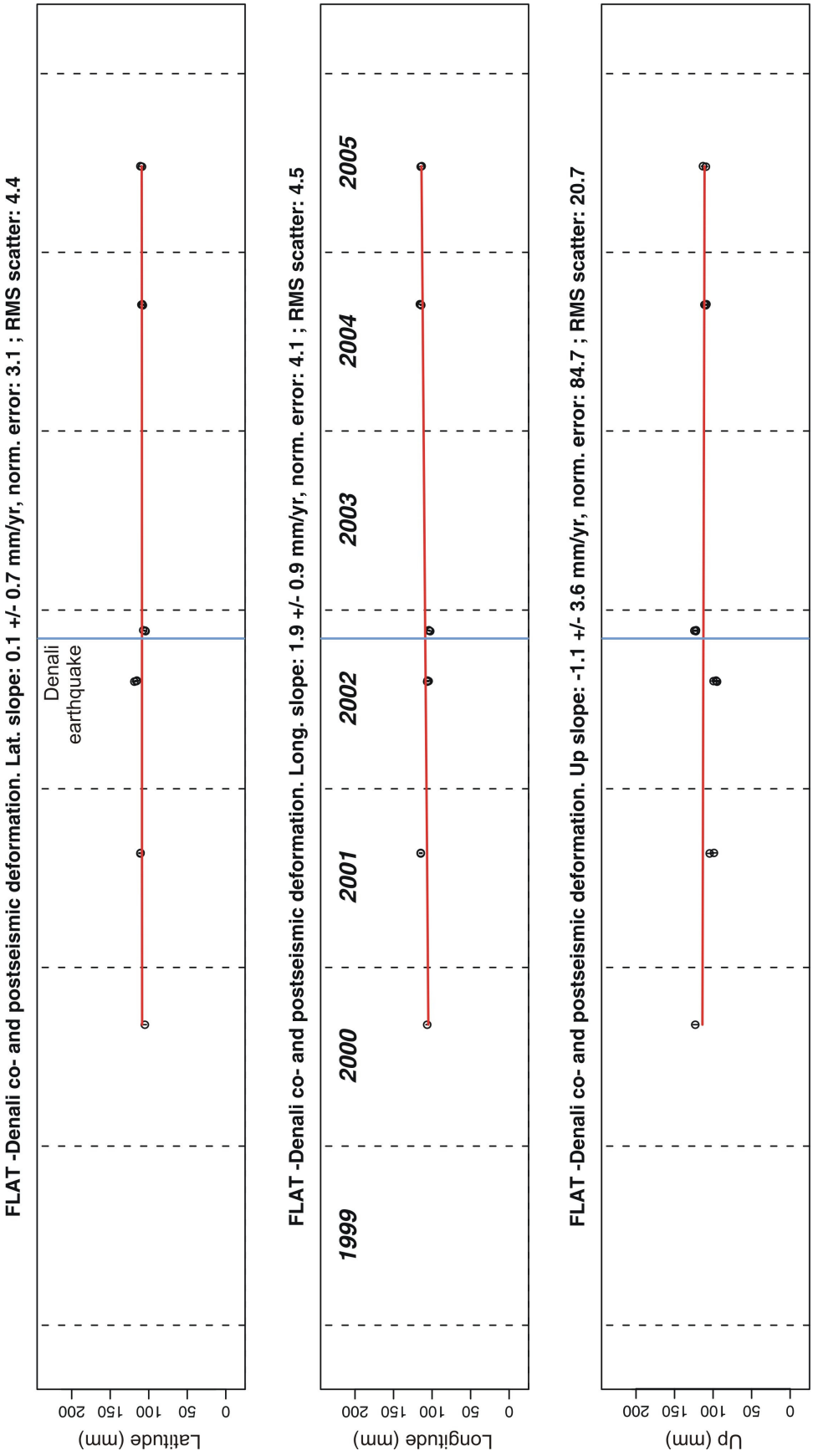

EAGL -Denali coseismic deformation. Lat. slope: 1.2 +/- 0.6 mm/yr, norm. error: 2.5 ; RMS scatter: 3.8
Latitude (mm)
0
50
100
150
200
Denali earthquake
EAGL -Denali coseismic deformation. Long. slope: 1.5 +/- 0.4 mm/yr, norm. error: 1.2 ; RMS scatter: 2.7
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
EAGL -Denali coseismic deformation. Up slope: -2.2 +/- 2.1 mm/yr, norm. error: 30.2 ; RMS scatter: 13.5
Up (mm)

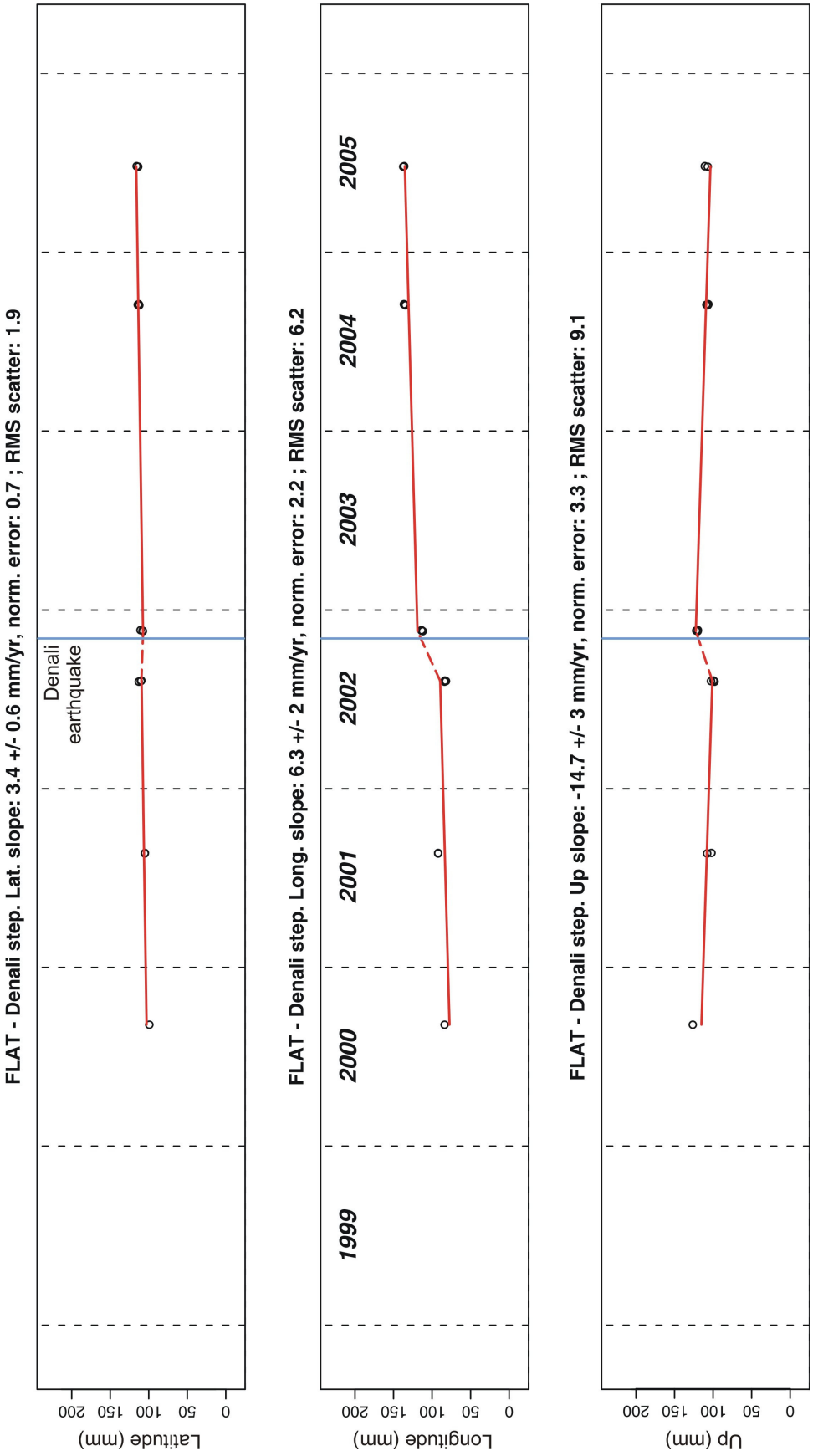

EAGL - Denali step. Lat. slope: 3.7 +/- 1.9 mm/yr, norm. error: 1.3 ; RMS scatter: 3.6
Denali earthquake
Latitude (mm)
0
50
100
150
200
EAGL - Denali step. Long. slope: 3.7 +/- 1.3 mm/yr, norm. error: 0.9 ; RMS scatter: 2.4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
EAGL - Denali step. Up slope: -20.5 +/- 4.4 mm/yr, norm. error: 3.1 ; RMS scatter: 8.4
Up (mm)

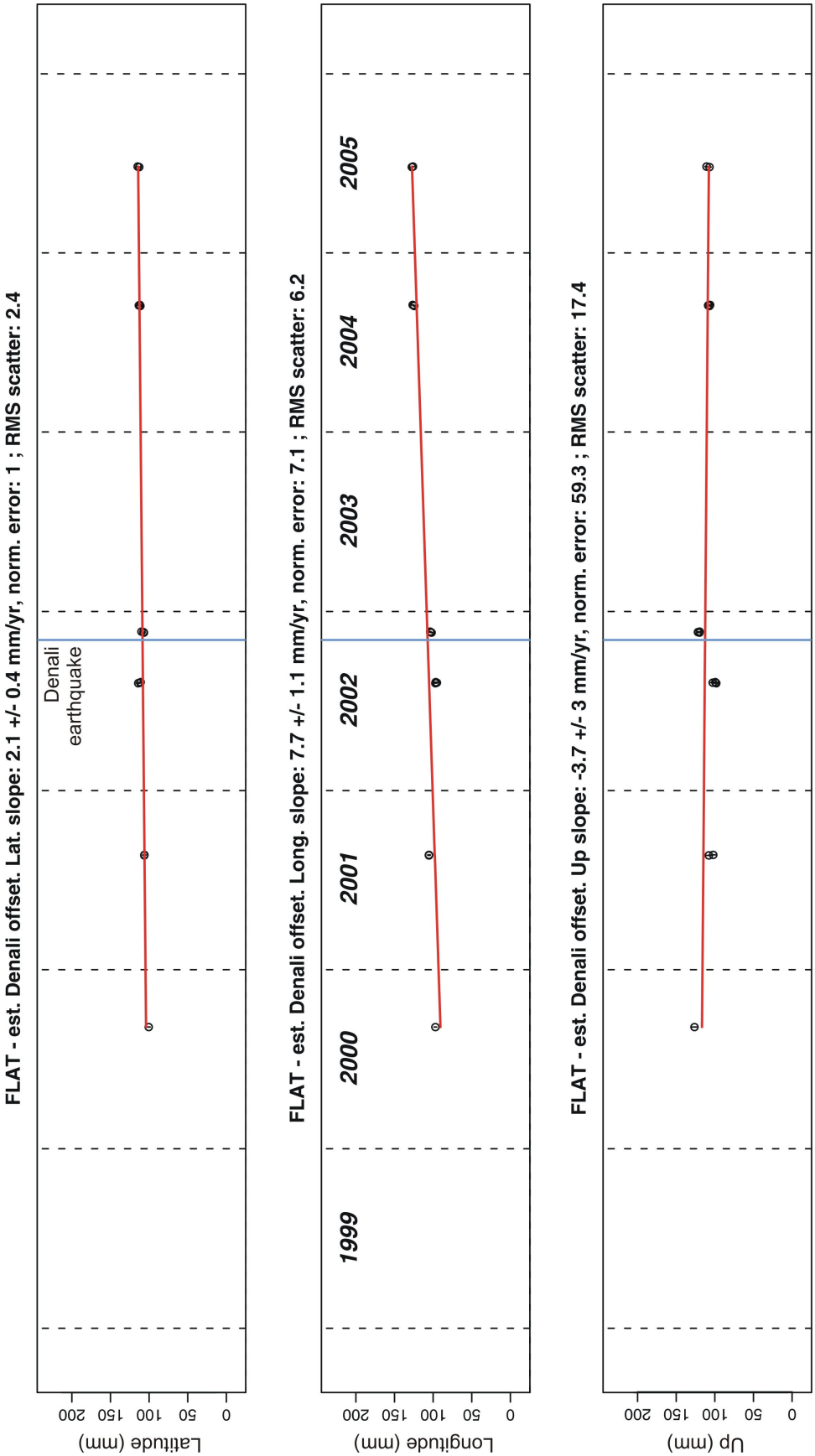

EAGL - est. Denali offset. Lat. slope: 2.7 +/- 0.6 mm/yr, norm. error: 2.4 ; RMS scatter: 3.6
Denali earthquake
Latitude (mm)
0
50
100
150
200
EAGL - est. Denali offset. Long. slope: 2.6 +/- 0.4 mm/yr, norm. error: 1 ; RMS scatter: 2.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
EAGL - est. Denali offset. Up slope: -3.3 +/- 2 mm/yr, norm. error: 28.1 ; RMS scatter: 13
Up (mm)

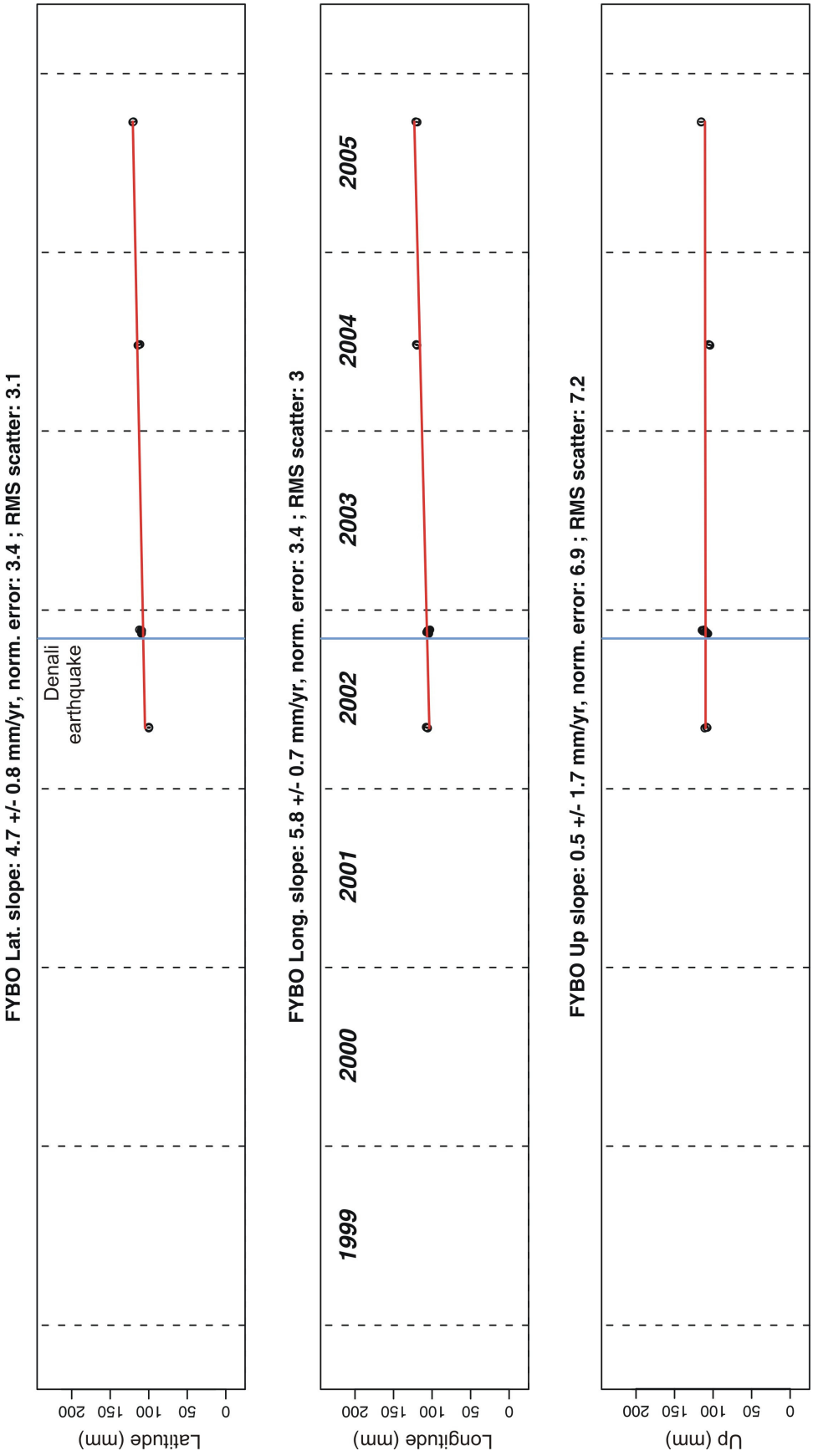

FLAT Lat. slope: 2.6 +/- 0.3 mm/yr, norm. error: 0.7 ; RMS scatter: 2.1
Denali earthquake
Latitude (mm)
0 50 100 150 200
FLAT Long. slope: 13.1 +/- 1.7 mm/yr, norm. error: 21.1 ; RMS scatter: 10.5
Longitude (mm)
0 50 100 150 200
1999 2000 2001 2002 2003 2004 2005
FLAT Up slope: -3.7 +/- 3 mm/yr, norm. error: 19.2 ; RMS scatter: 17.4
Up (mm)
0 50 100 150 200

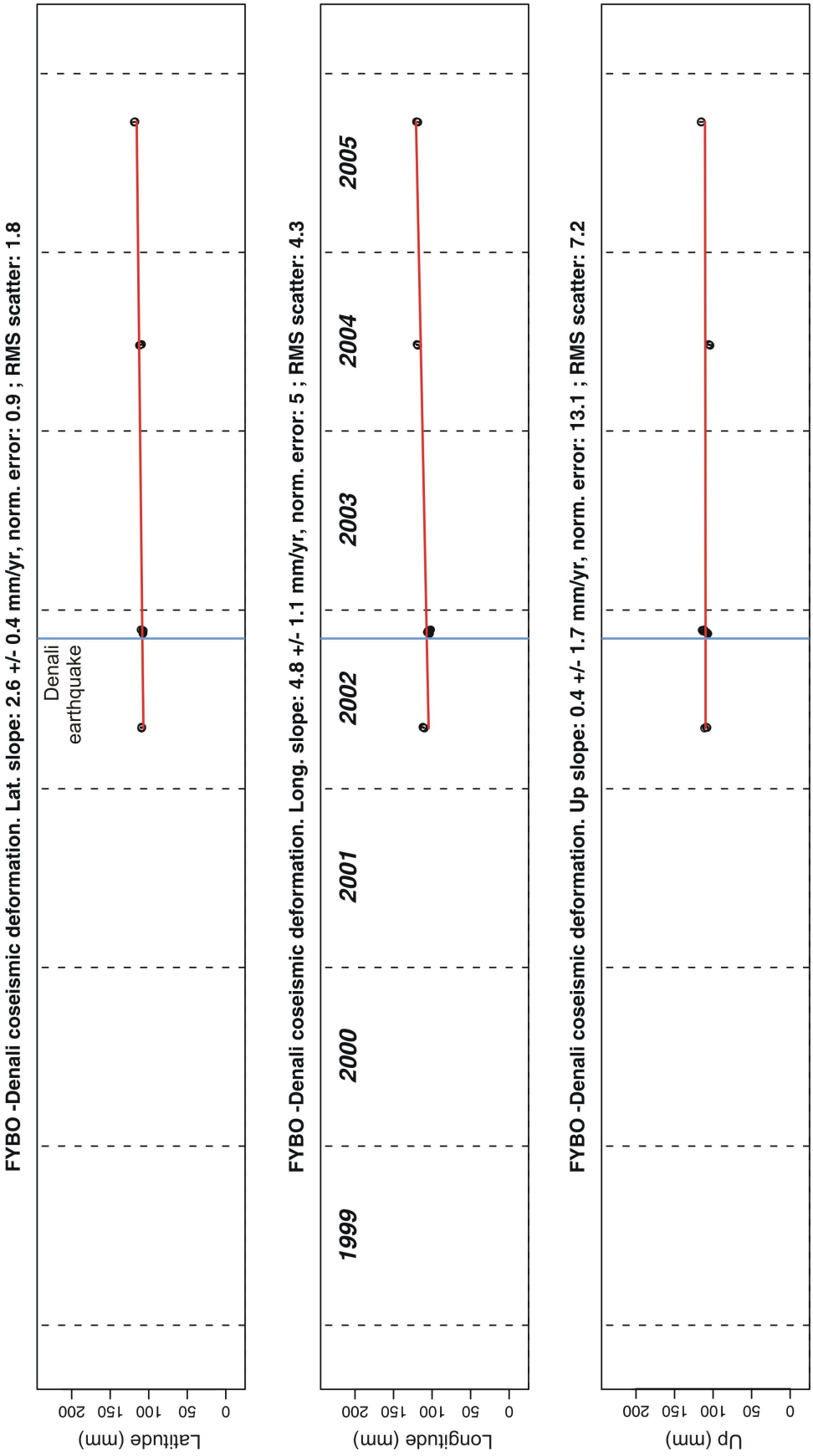

FLAT -Denali coseismic deformation. Lat. slope: 0.5 +/- 0.7 mm/yr, norm. error: 3.1 ; RMS scatter: 4.3
Denali earthquake
Latitude (mm)
0 50 100 150 200
FLAT -Denali coseismic deformation. Long. slope: 5.6 +/- 1.2 mm/yr, norm. error: 8.5 ; RMS scatter: 6.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0 50 100 150 200
FLAT -Denali coseismic deformation. Up slope: -1.1 +/- 3.6 mm/yr, norm. error: 84.7 ; RMS scatter: 20.7
Up (mm)
0 50 100 150 200

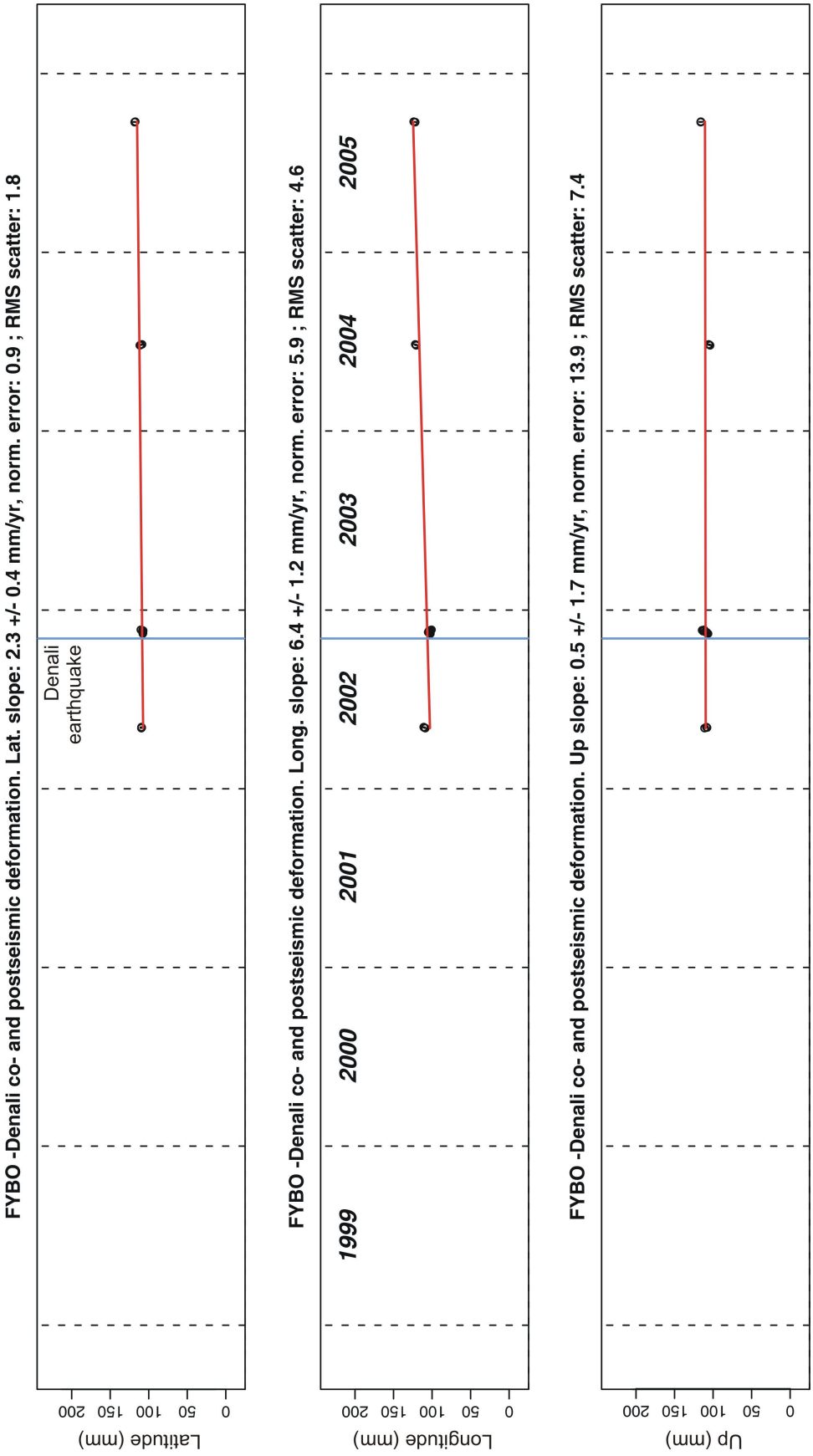

FLAT -Denali co- and postseismic deformation. Lat. slope: 0.1 +/- 0.7 mm/yr, norm. error: 3.1 ; RMS scatter: 4.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
FLAT -Denali co- and postseismic deformation. Long. slope: 1.9 +/- 0.9 mm/yr, norm. error: 4.1 ; RMS scatter: 4.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
FLAT -Denali co- and postseismic deformation. Up slope: -1.1 +/- 3.6 mm/yr, norm. error: 84.7 ; RMS scatter: 20.7
Up (mm)
0
50
100
150
200

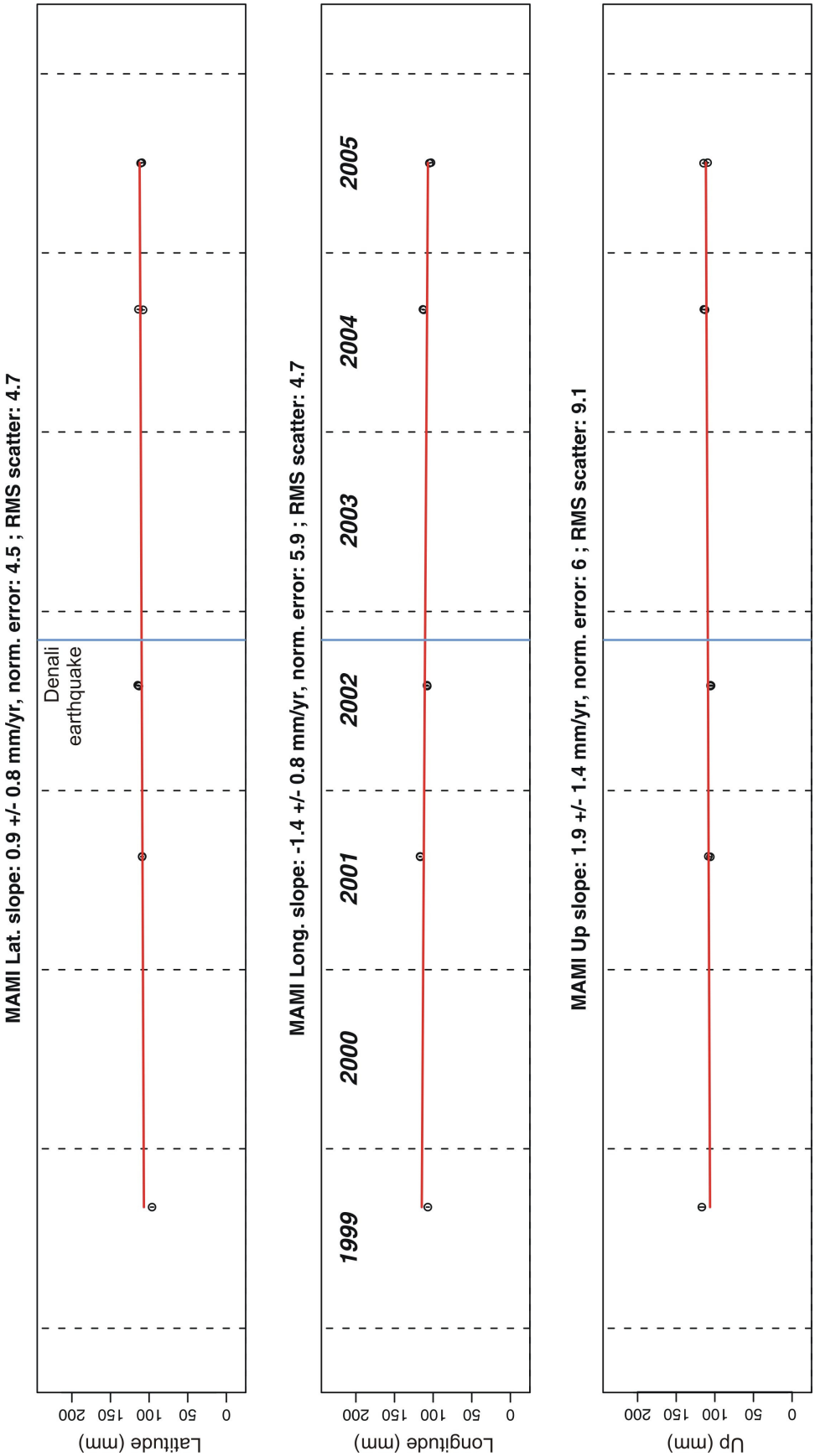

FLAT - Denali step. Lat. slope: 3.4 +/- 0.6 mm/yr, norm. error: 0.7 ; RMS scatter: 1.9
Denali earthquake
Latitude (mm)
0
50
100
150
200
FLAT - Denali step. Long. slope: 6.3 +/- 2 mm/yr, norm. error: 2.2 ; RMS scatter: 6.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
FLAT - Denali step. Up slope: -14.7 +/- 3 mm/yr, norm. error: 3.3 ; RMS scatter: 9.1
Up (mm)
0
50
100
150
200


FLAT - est. Denali offset. Lat. slope: 2.1 +/- 0.4 mm/yr, norm. error: 1 ; RMS scatter: 2.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
FLAT - est. Denali offset. Long. slope: 7.7 +/- 1.1 mm/yr, norm. error: 7.1 ; RMS scatter: 6.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
FLAT - est. Denali offset. Up slope: -3.7 +/- 3 mm/yr, norm. error: 59.3 ; RMS scatter: 17.4
Up (mm)


FYBO Lat. slope: 4.7 +/- 0.8 mm/yr, norm. error: 3.4 ; RMS scatter: 3.1
Denali earthquake
Latitude (mm)
0
50
100
150
200
FYBO Long. slope: 5.8 +/- 0.7 mm/yr, norm. error: 3.4 ; RMS scatter: 3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
FYBO Up slope: 0.5 +/- 1.7 mm/yr, norm. error: 6.9 ; RMS scatter: 7.2
Up (mm)
0
50
100
150
200

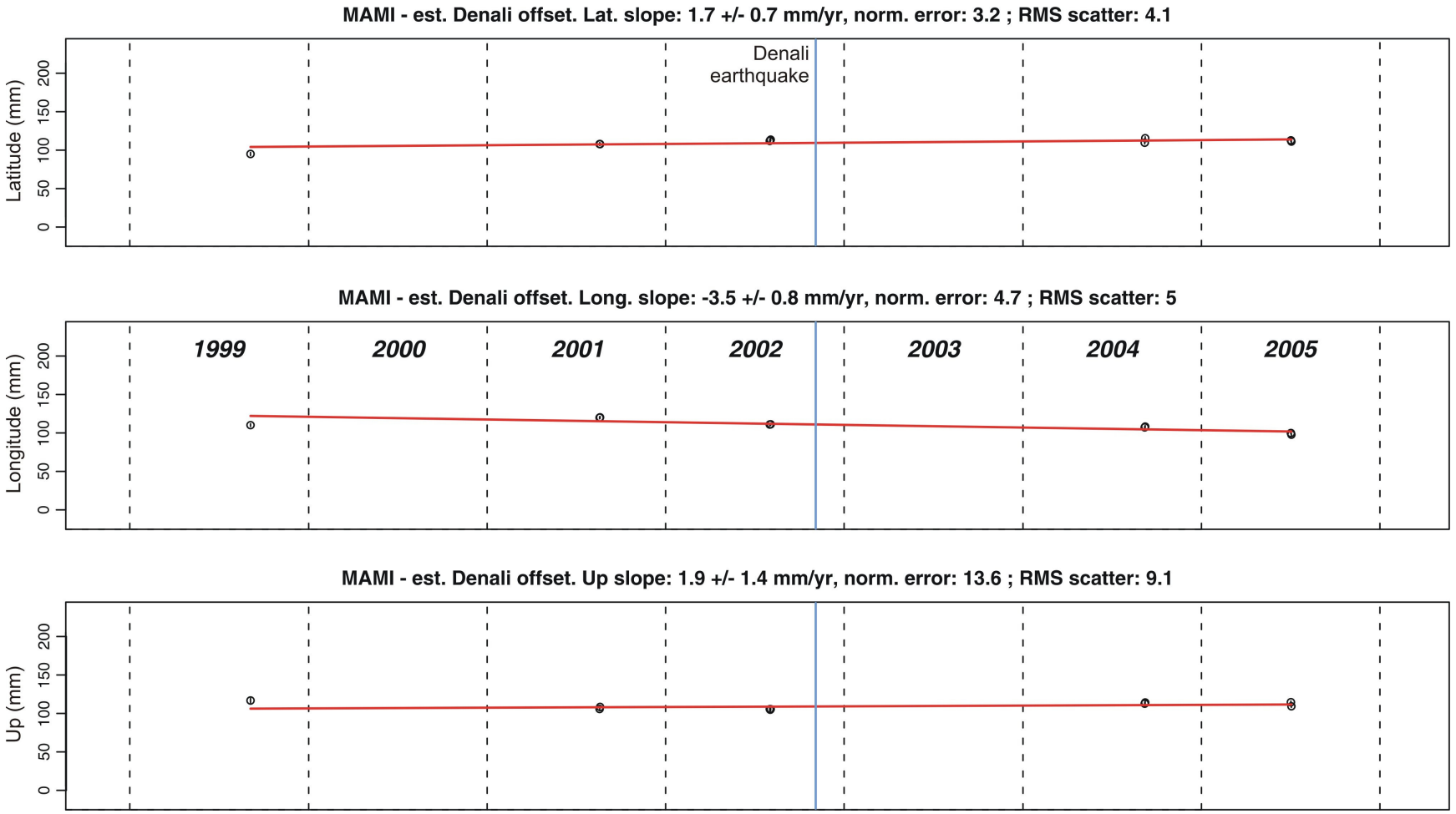

FYBO -Denali coseismic deformation. Lat. slope: 2.6 +/- 0.4 mm/yr, norm. error: 0.9 ; RMS scatter: 1.8
Latitude (mm)
0
50
100
150
200
Denali earthquake
FYBO -Denali coseismic deformation. Long. slope: 4.8 +/- 1.1 mm/yr, norm. error: 5 ; RMS scatter: 4.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
FYBO -Denali coseismic deformation. Up slope: 0.4 +/- 1.7 mm/yr, norm. error: 13.1 ; RMS scatter: 7.2
Up (mm)

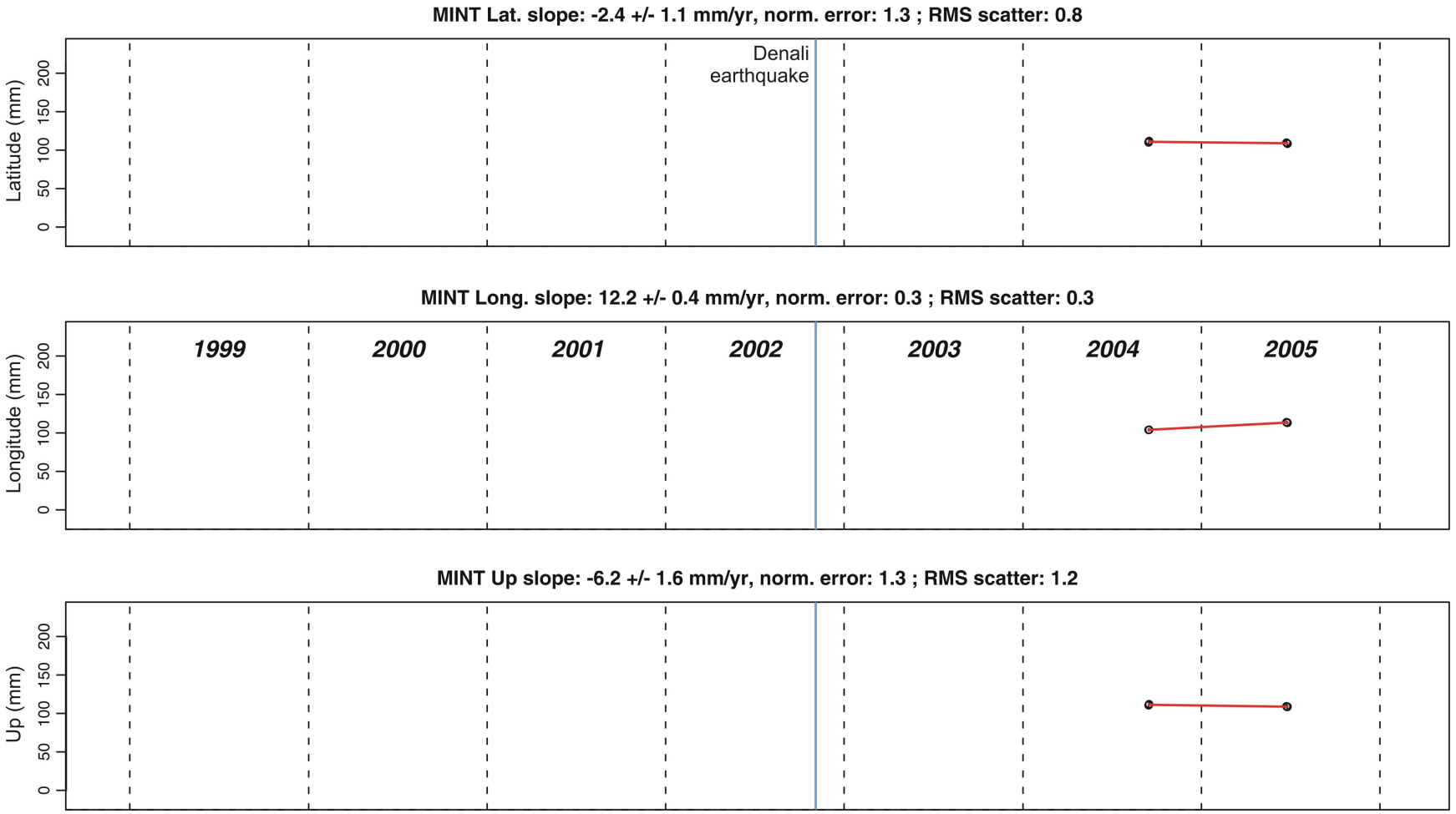

FYBO -Denali co- and postseismic deformation. Lat. slope: 2.3 +/- 0.4 mm/yr, norm. error: 0.9 ; RMS scatter: 1.8
Denali earthquake
Latitude (mm)
0
50
100
150
200
FYBO -Denali co- and postseismic deformation. Long. slope: 6.4 +/- 1.2 mm/yr, norm. error: 5.9 ; RMS scatter: 4.6
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
FYBO -Denali co- and postseismic deformation. Up slope: 0.5 +/- 1.7 mm/yr, norm. error: 13.9 ; RMS scatter: 7.4
Up (mm)
0
50
100
150
200

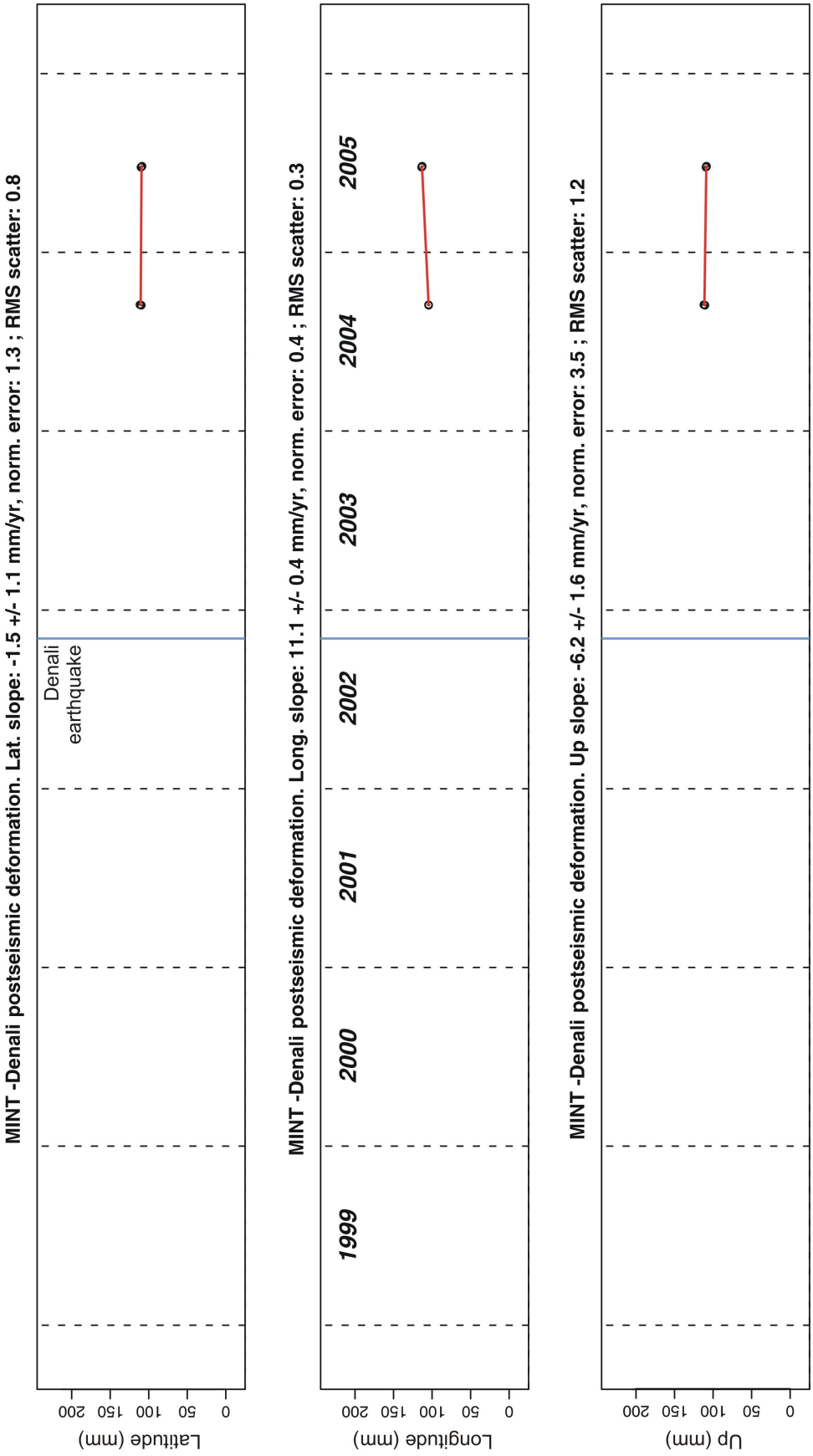

MAMI Lat. slope: 0.9 +/- 0.8 mm/yr, norm. error: 4.5 ; RMS scatter: 4.7
Denali earthquake
Latitude (mm)
0
50
100
150
200
MAMI Long. slope: -1.4 +/- 0.8 mm/yr, norm. error: 5.9 ; RMS scatter: 4.7
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
MAMI Up slope: 1.9 +/- 1.4 mm/yr, norm. error: 6 ; RMS scatter: 9.1
Up (mm)
0
50
100
150
200

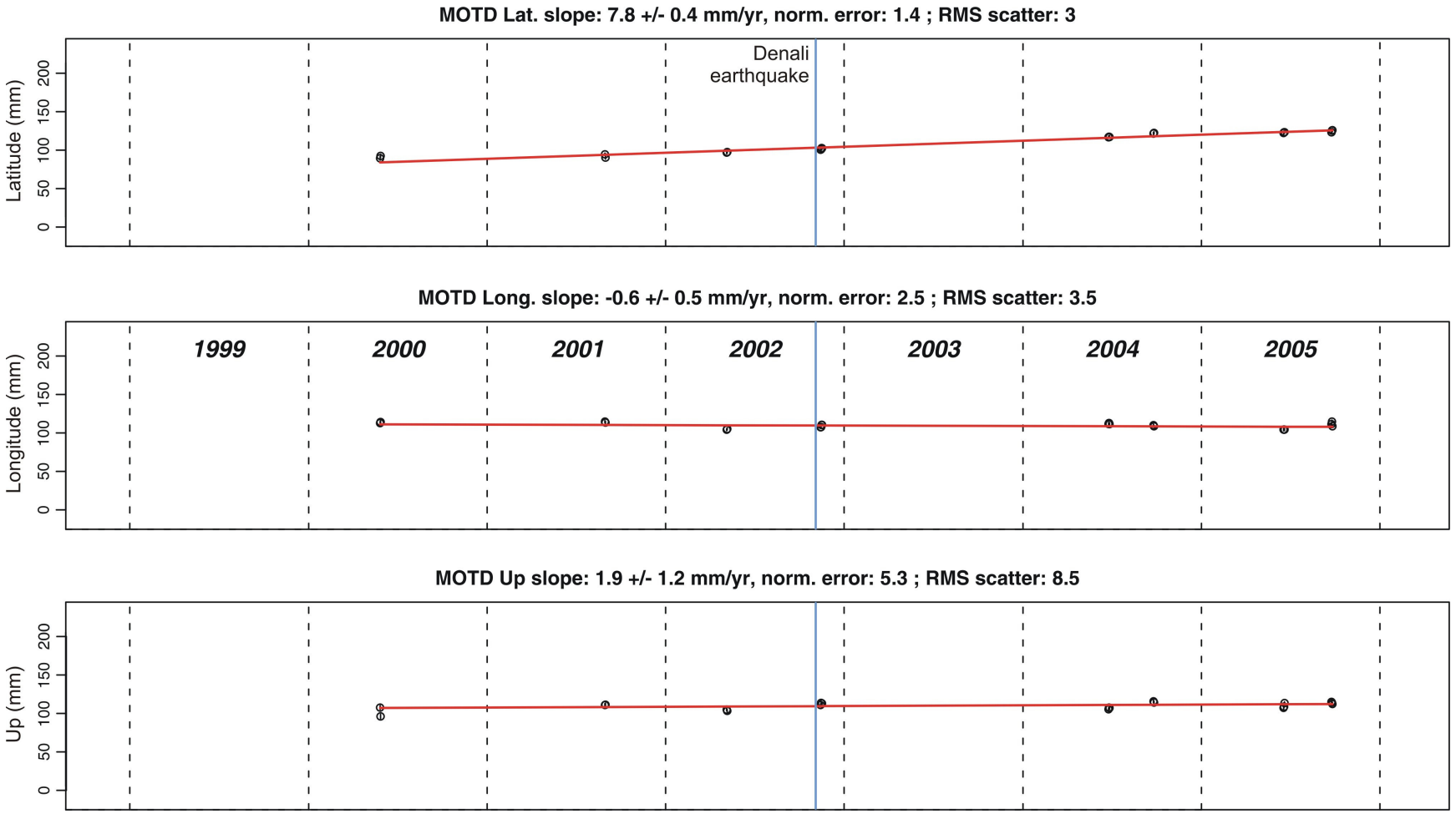

MAMI -Denali coseismic deformation. Lat. slope: 0.6 +/- 0.9 mm/yr, norm. error: 4.7 ; RMS scatter: 5
Latitude (mm)
0
50
100
150
200
Denali earthquake
MAMI -Denali coseismic deformation. Long. slope: -2.7 +/- 0.8 mm/yr, norm. error: 4.4 ; RMS scatter: 4.8
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MAMI -Denali coseismic deformation. Up slope: 2.4 +/- 1.5 mm/yr, norm. error: 15 ; RMS scatter: 9.6
Up (mm)

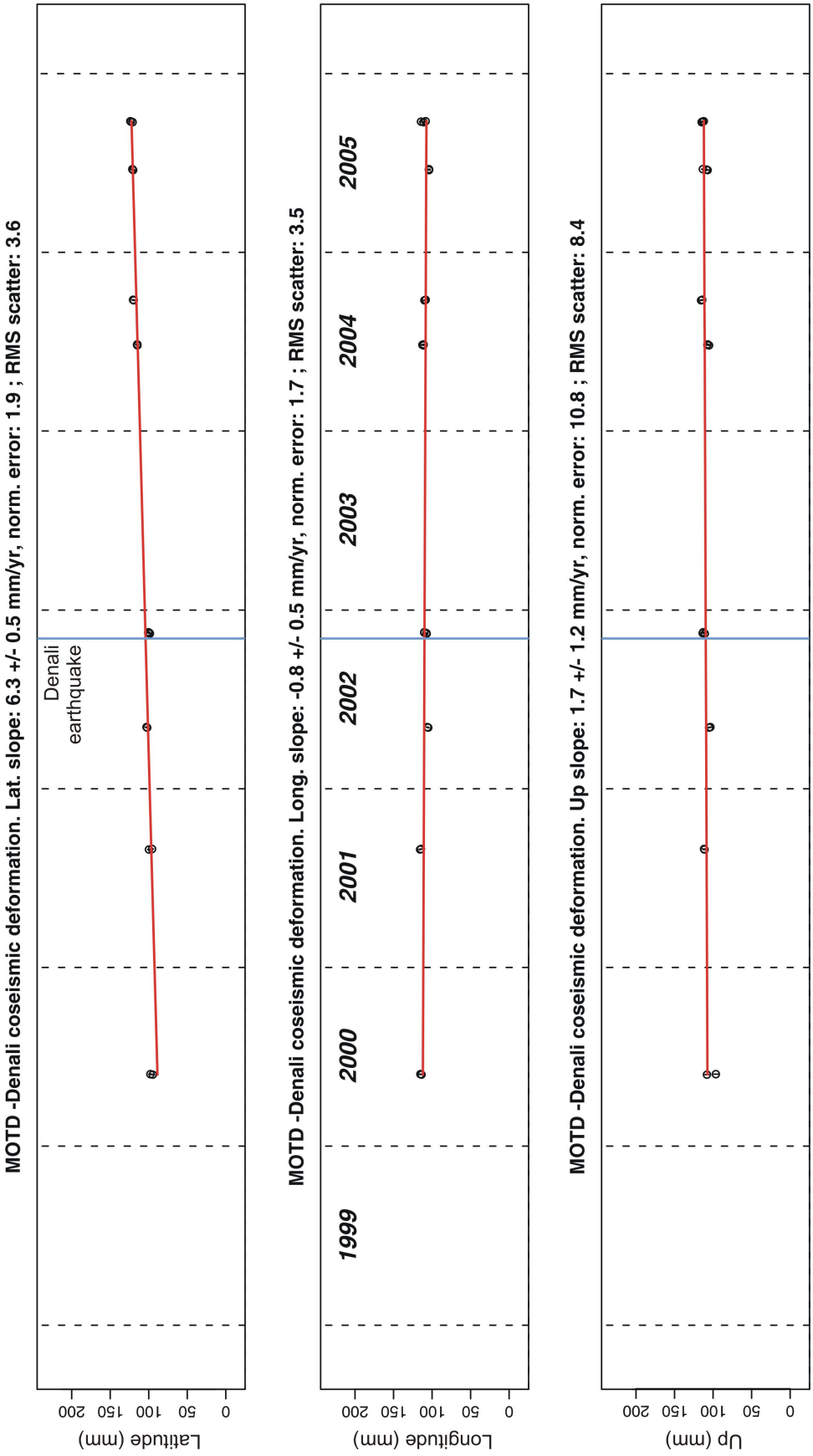

MAMI - Denali step. Lat. slope: 5.5 +/- 0.9 mm/yr, norm. error: 0.8 ; RMS scatter: 2.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
MAMI - Denali step. Long. slope: -0.7 +/- 1.8 mm/yr, norm. error: 1.5 ; RMS scatter: 4.6
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
MAMI - Denali step. Up slope: -7.6 +/- 1.3 mm/yr, norm. error: 1.1 ; RMS scatter: 3.5
Up (mm)
0
50
100
150
200

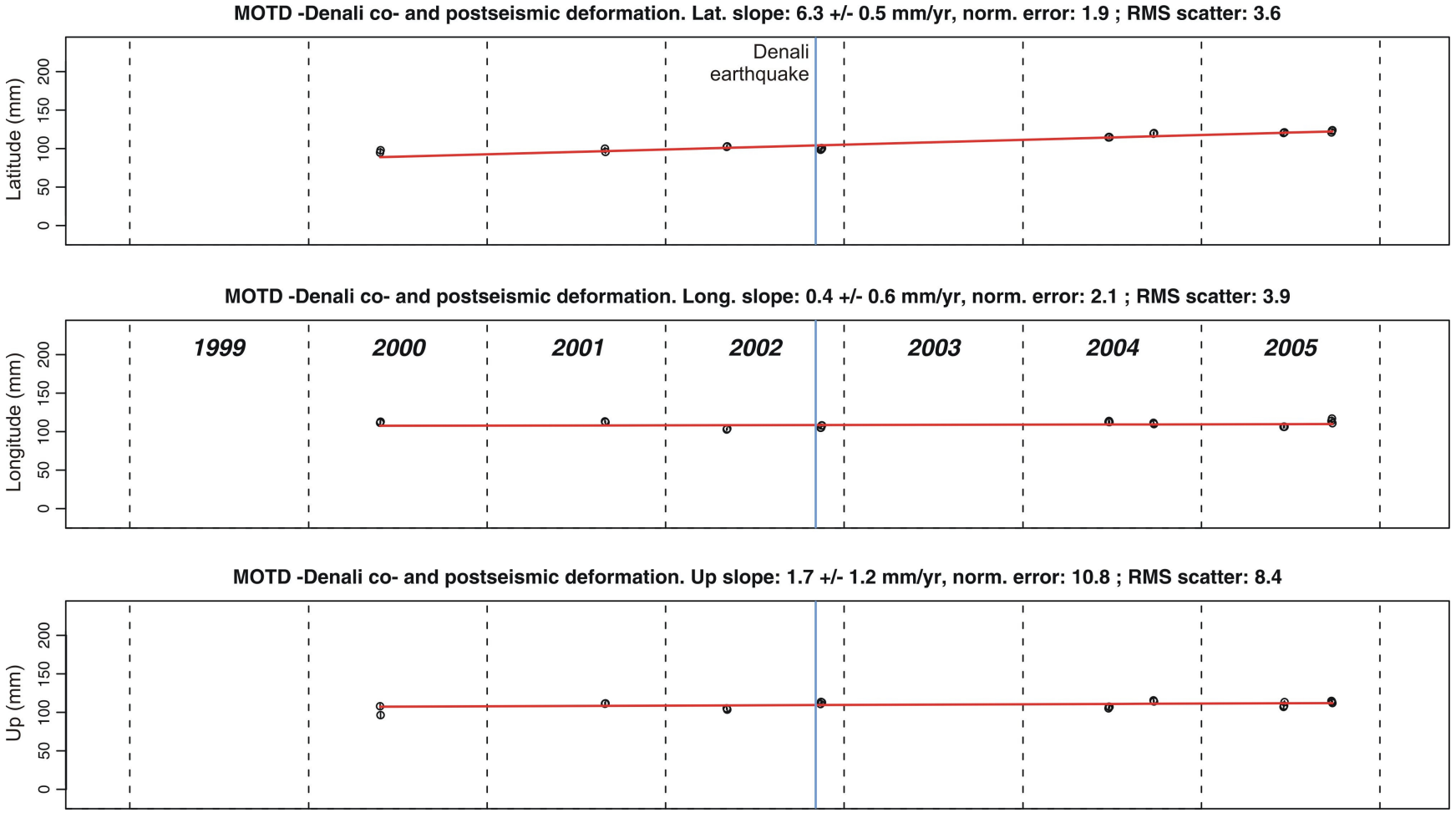

MAMI - est. Denali offset. Lat. slope: 1.7 +/- 0.7 mm/yr, norm. error: 3.2 ; RMS scatter: 4.1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
MAMI - est. Denali offset. Long. slope: -3.5 +/- 0.8 mm/yr, norm. error: 4.7 ; RMS scatter: 5
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MAMI - est. Denali offset. Up slope: 1.9 +/- 1.4 mm/yr, norm. error: 13.6 ; RMS scatter: 9.1
Up (mm)

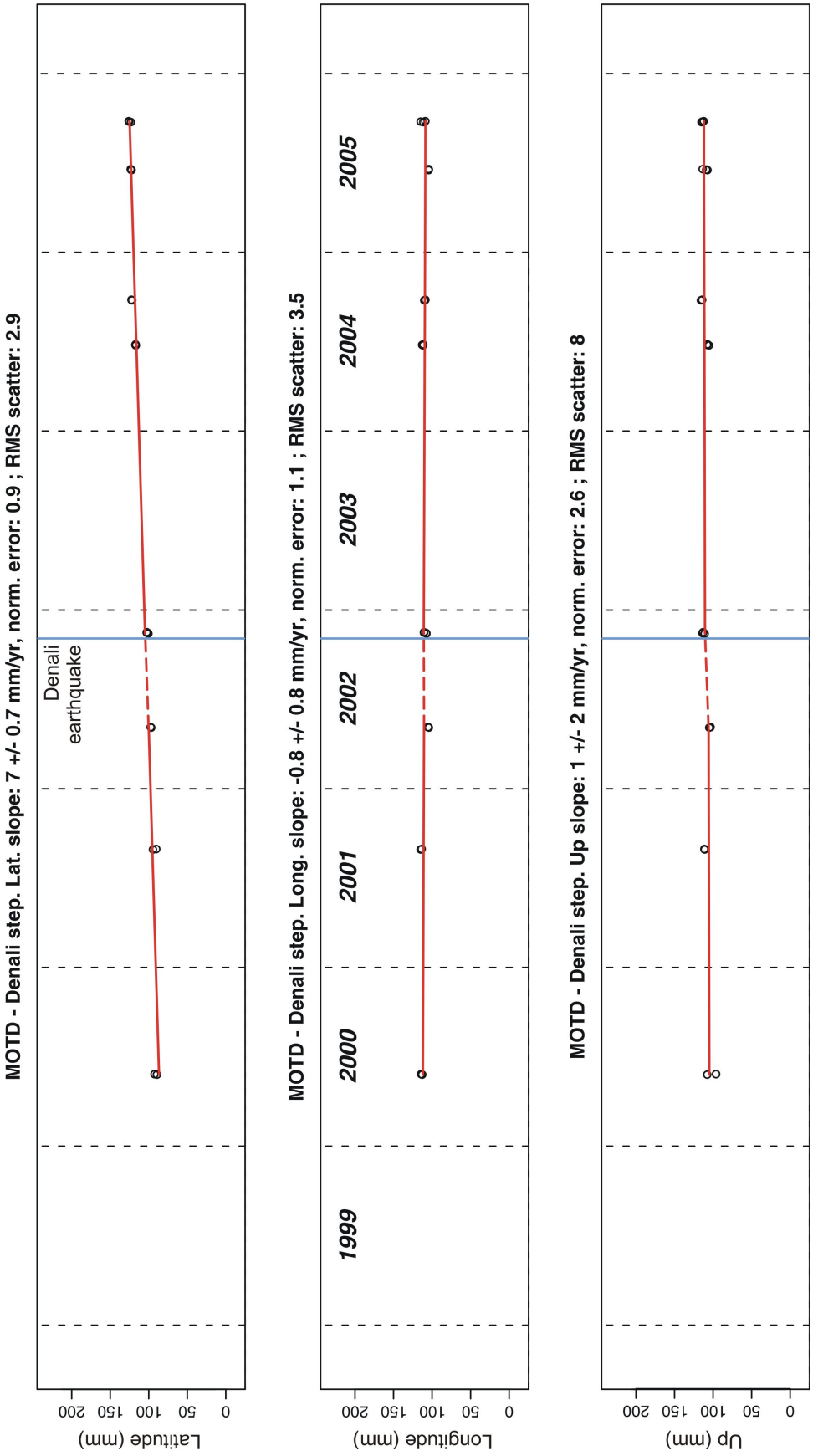

MINT Lat. slope: -2.4 +/- 1.1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.8
Latitude (mm)
0
50
100
150
200
Denali
earthquake
MINT Long. slope: 12.2 +/- 0.4 mm/yr, norm. error: 0.3 ; RMS scatter: 0.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MINT Up slope: -6.2 +/- 1.6 mm/yr, norm. error: 1.3 ; RMS scatter: 1.2
Up (mm)

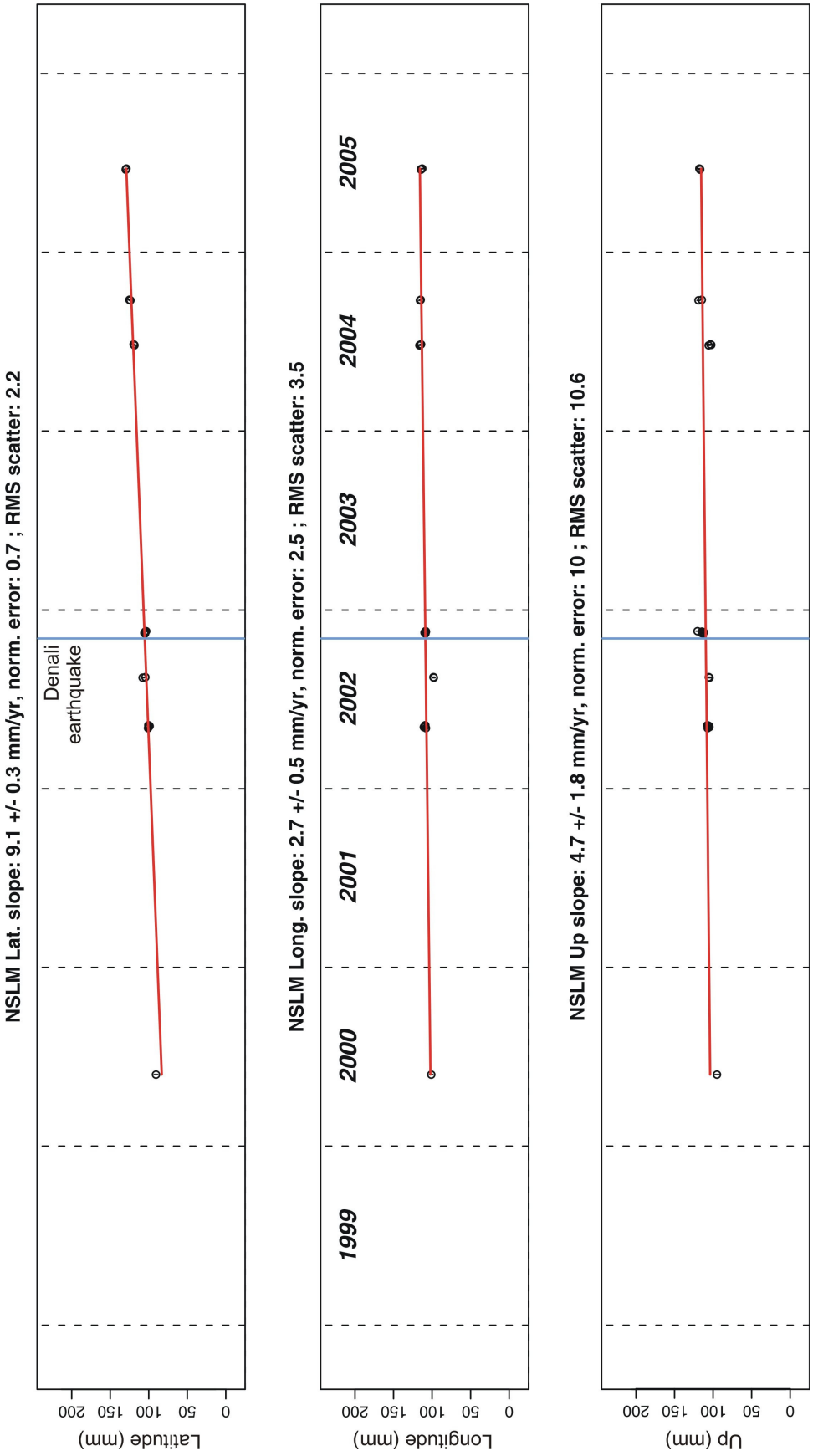

MINT -Denali postseismic deformation. Lat. slope: -1.5 +/- 1.1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.8
Latitude (mm)
0
50
100
150
200
Denali earthquake
MINT -Denali postseismic deformation. Long. slope: 11.1 +/- 0.4 mm/yr, norm. error: 0.4 ; RMS scatter: 0.3
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MINT -Denali postseismic deformation. Up slope: -6.2 +/- 1.6 mm/yr, norm. error: 3.5 ; RMS scatter: 1.2
Up (mm)

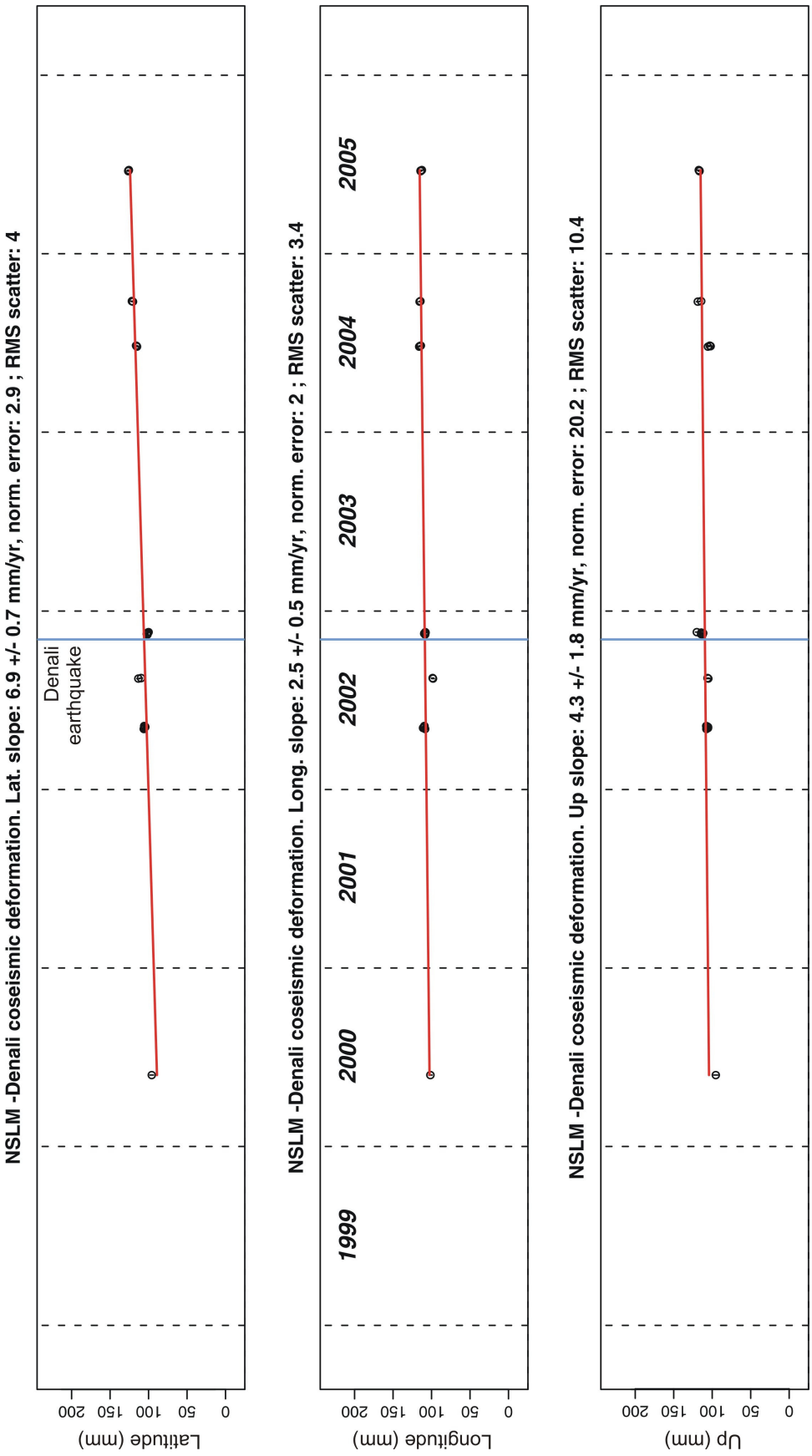

MOTD Lat. slope: 7.8 +/- 0.4 mm/yr, norm. error: 1.4 ; RMS scatter: 3
Latitude (mm)
0
50
100
150
200
Denali
earthquake
MOTD Long. slope: -0.6 +/- 0.5 mm/yr, norm. error: 2.5 ; RMS scatter: 3.5
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MOTD Up slope: 1.9 +/- 1.2 mm/yr, norm. error: 5.3 ; RMS scatter: 8.5
Up (mm)

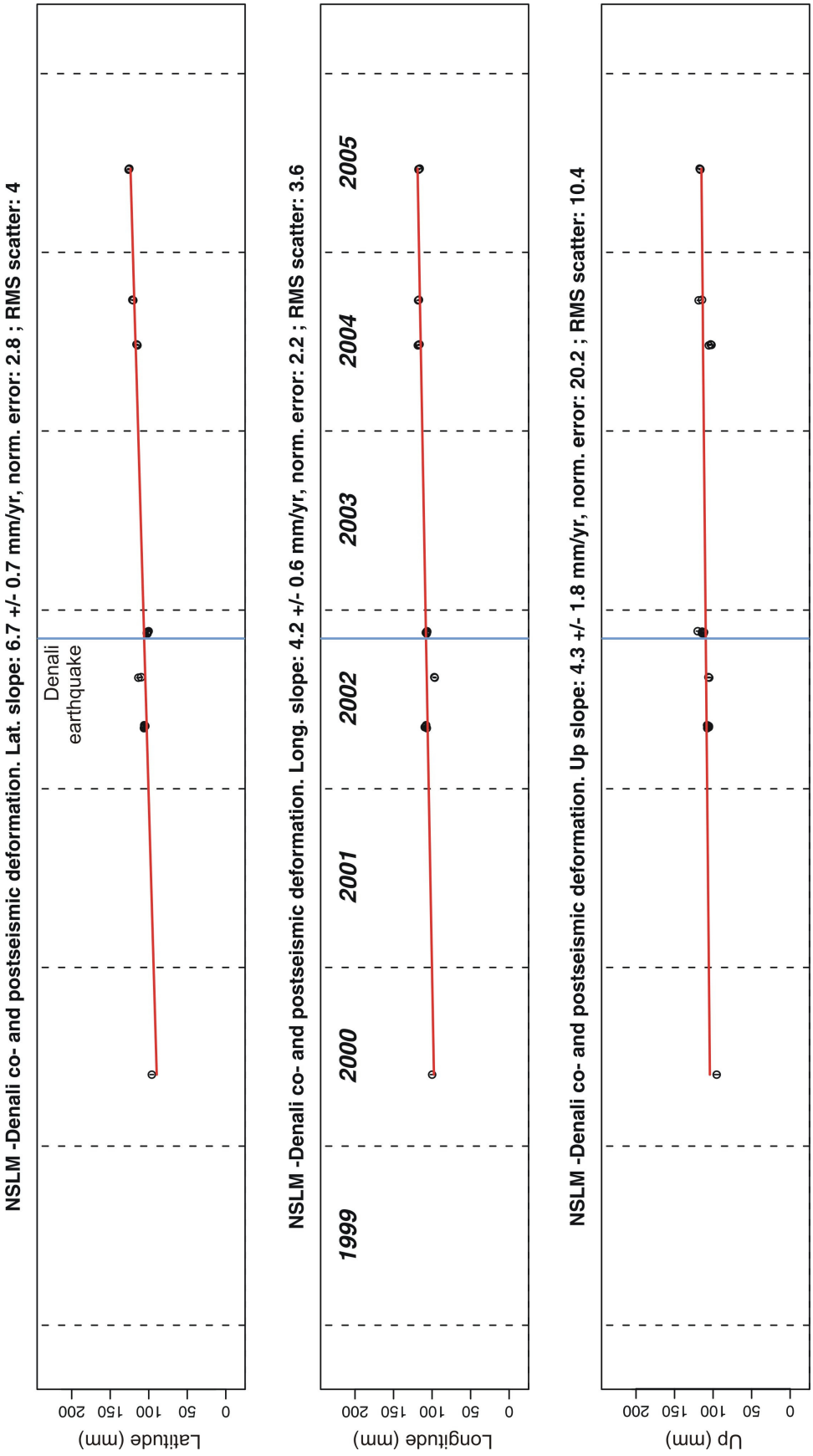

MOTD -Denali coseismic deformation. Lat. slope: 6.3 +/- 0.5 mm/yr, norm. error: 1.9 ; RMS scatter: 3.6
Latitude (mm)
0
50
100
150
200
Denali
earthquake
MOTD -Denali coseismic deformation. Long. slope: -0.8 +/- 0.5 mm/yr, norm. error: 1.7 ; RMS scatter: 3.5
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MOTD -Denali coseismic deformation. Up slope: 1.7 +/- 1.2 mm/yr, norm. error: 10.8 ; RMS scatter: 8.4
Up (mm)

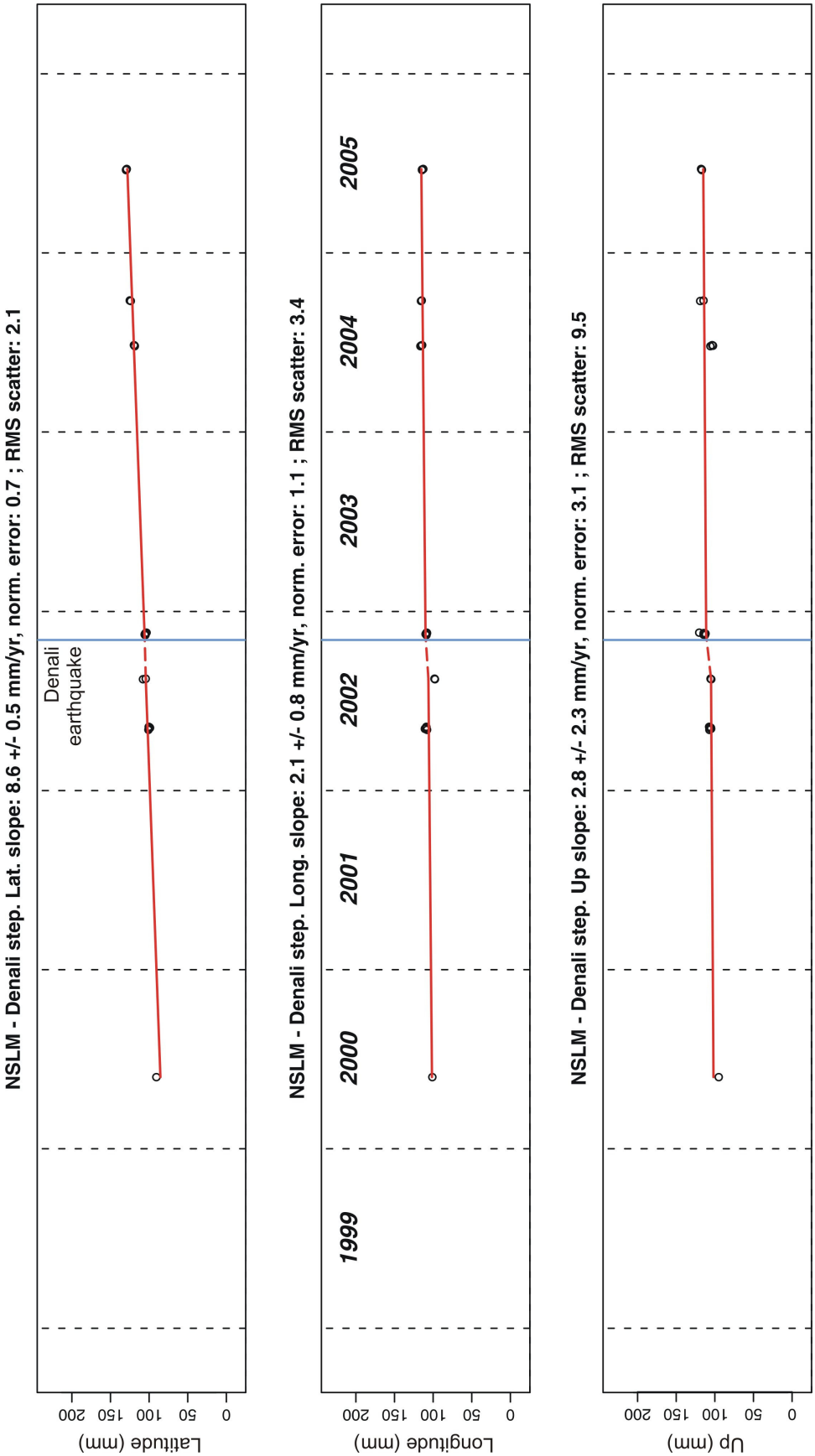

MOTD -Denali co- and postseismic deformation. Lat. slope: 6.3 +/- 0.5 mm/yr, norm. error: 1.9 ; RMS scatter: 3.6
Latitude (mm)
0
50
100
150
200
Denali
earthquake
MOTD -Denali co- and postseismic deformation. Long. slope: 0.4 +/- 0.6 mm/yr, norm. error: 2.1 ; RMS scatter: 3.9
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
MOTD -Denali co- and postseismic deformation. Up slope: 1.7 +/- 1.2 mm/yr, norm. error: 10.8 ; RMS scatter: 8.4
Up (mm)

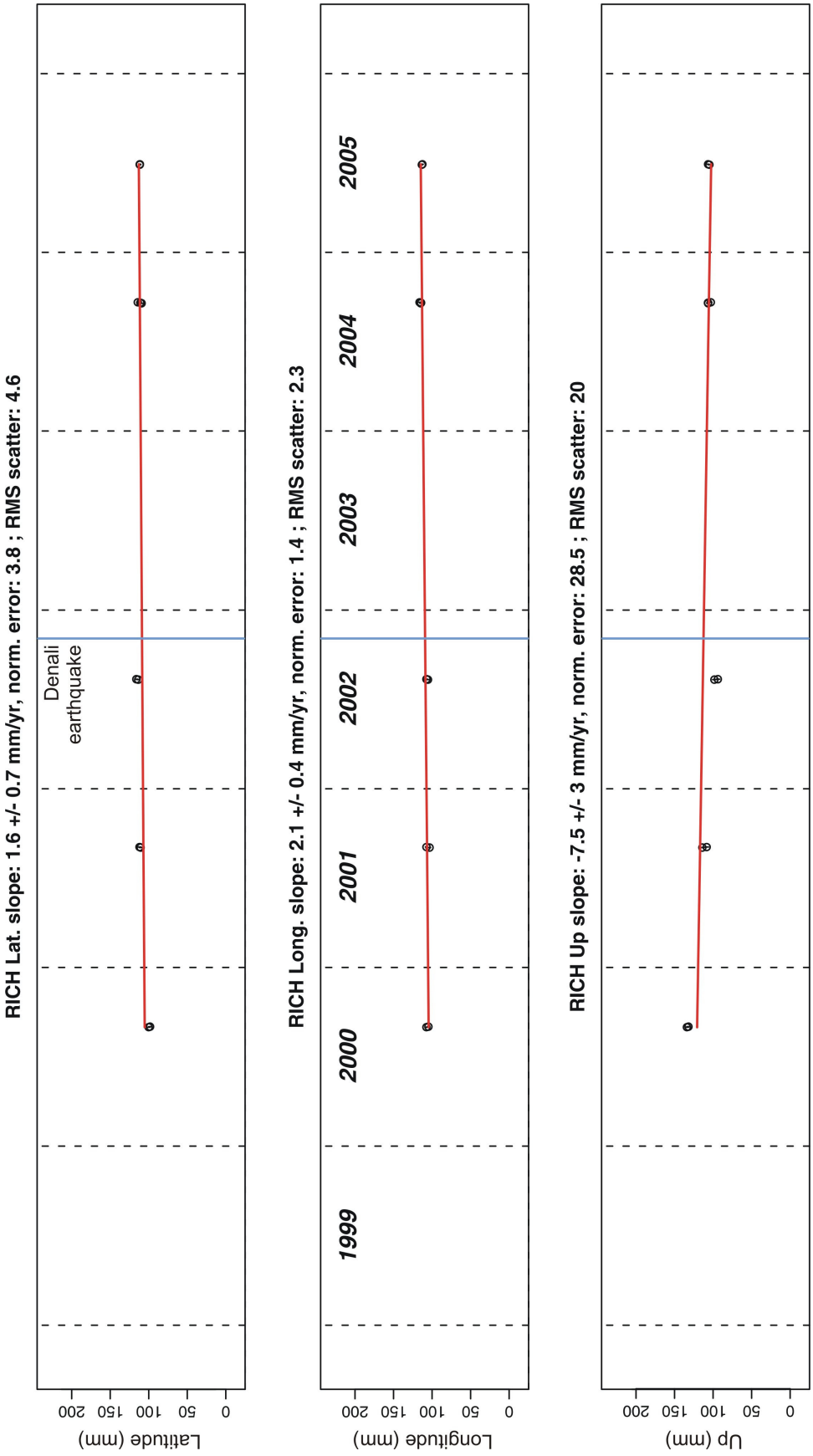

MOTD - Denali step. Lat. slope: 7 +/- 0.7 mm/yr, norm. error: 0.9 ; RMS scatter: 2.9
Denali earthquake
Latitude (mm)
0 50 100 150 200
MOTD - Denali step. Long. slope: -0.8 +/- 0.8 mm/yr, norm. error: 1.1 ; RMS scatter: 3.5
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
MOTD - Denali step. Up slope: 1 +/- 2 mm/yr, norm. error: 2.6 ; RMS scatter: 8
Up (mm)
0 50 100 150 200

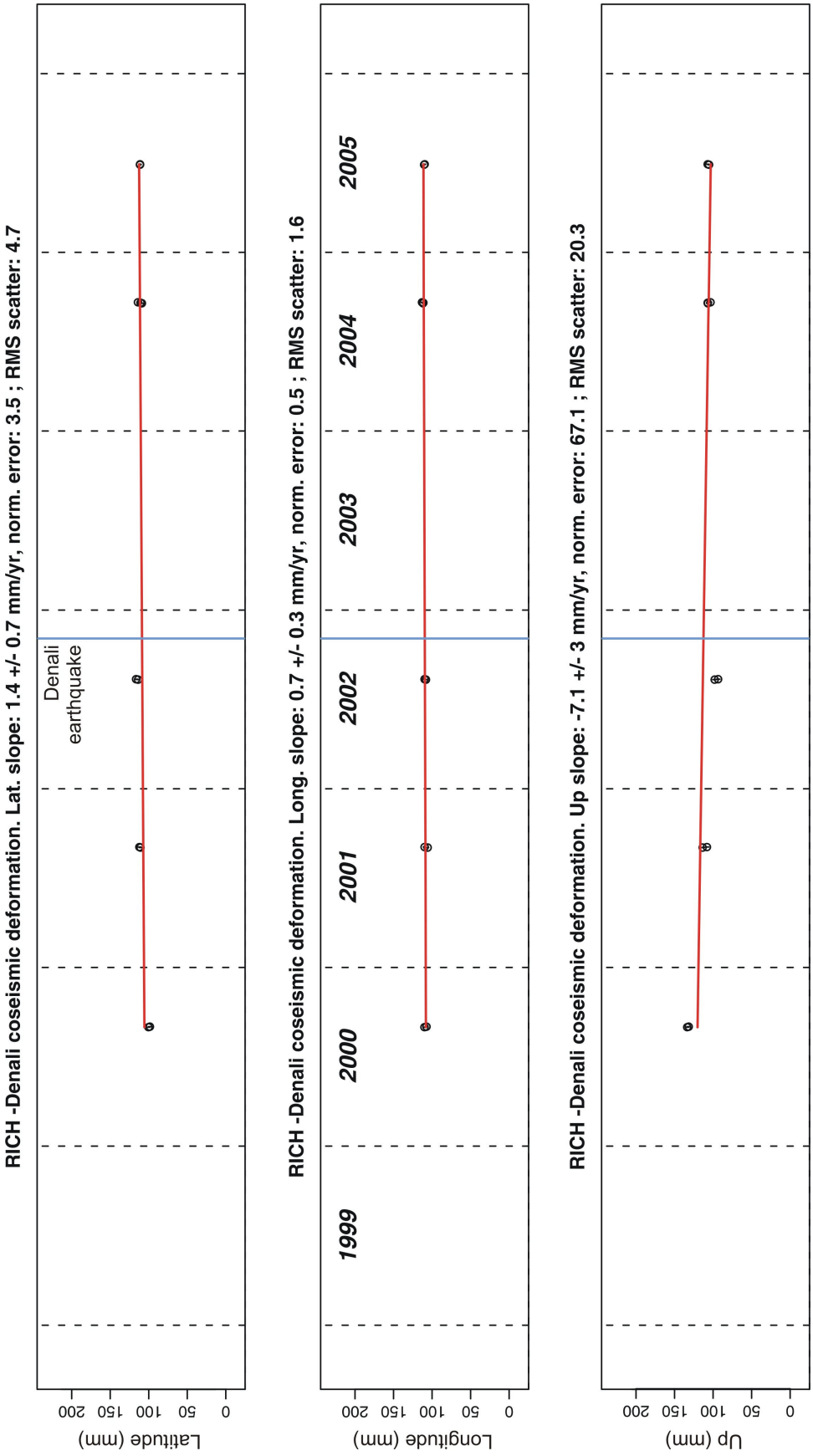

NSLM Lat. slope: 9.1 +/- 0.3 mm/yr, norm. error: 0.7 ; RMS scatter: 2.2
Denali earthquake
Latitude (mm)
0
50
100
150
200
NSLM Long. slope: 2.7 +/- 0.5 mm/yr, norm. error: 2.5 ; RMS scatter: 3.5
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
NSLM Up slope: 4.7 +/- 1.8 mm/yr, norm. error: 10 ; RMS scatter: 10.6
Up (mm)
0
50
100
150
200

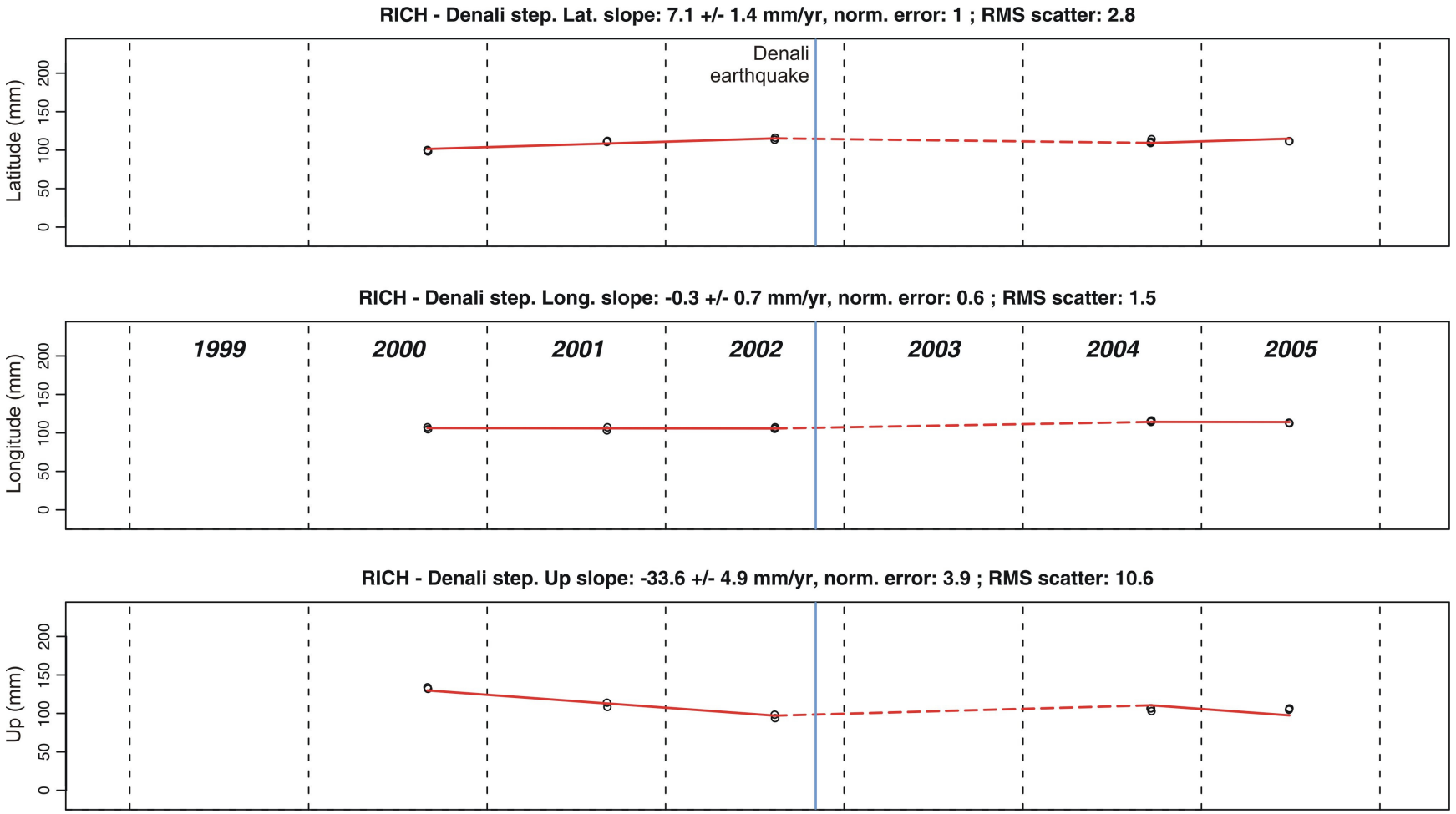

NSLM -Denali coseismic deformation. Lat. slope: 6.9 +/- 0.7 mm/yr, norm. error: 2.9 ; RMS scatter: 4
Denali earthquake
Latitude (mm)
0
50
100
150
200
NSLM -Denali coseismic deformation. Long. slope: 2.5 +/- 0.5 mm/yr, norm. error: 2 ; RMS scatter: 3.4
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
NSLM -Denali coseismic deformation. Up slope: 4.3 +/- 1.8 mm/yr, norm. error: 20.2 ; RMS scatter: 10.4
Up (mm)

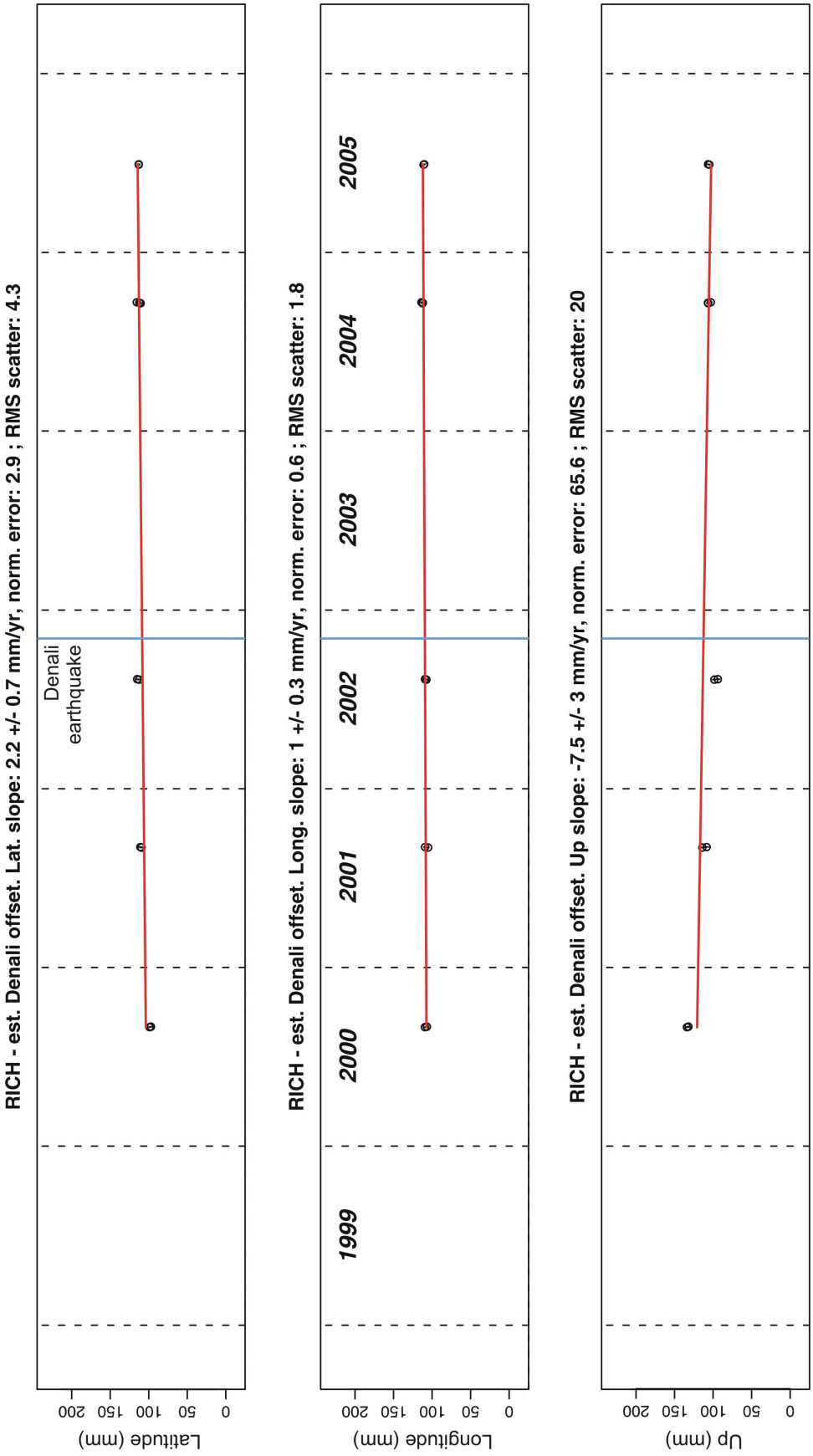

NSLM -Denali co- and postseismic deformation. Lat. slope: 6.7 +/- 0.7 mm/yr, norm. error: 2.8 ; RMS scatter: 4
Denali earthquake
Latitude (mm)
0
50
100
150
200
NSLM -Denali co- and postseismic deformation. Long. slope: 4.2 +/- 0.6 mm/yr, norm. error: 2.2 ; RMS scatter: 3.6
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
NSLM -Denali co- and postseismic deformation. Up slope: 4.3 +/- 1.8 mm/yr, norm. error: 20.2 ; RMS scatter: 10.4
Up (mm)

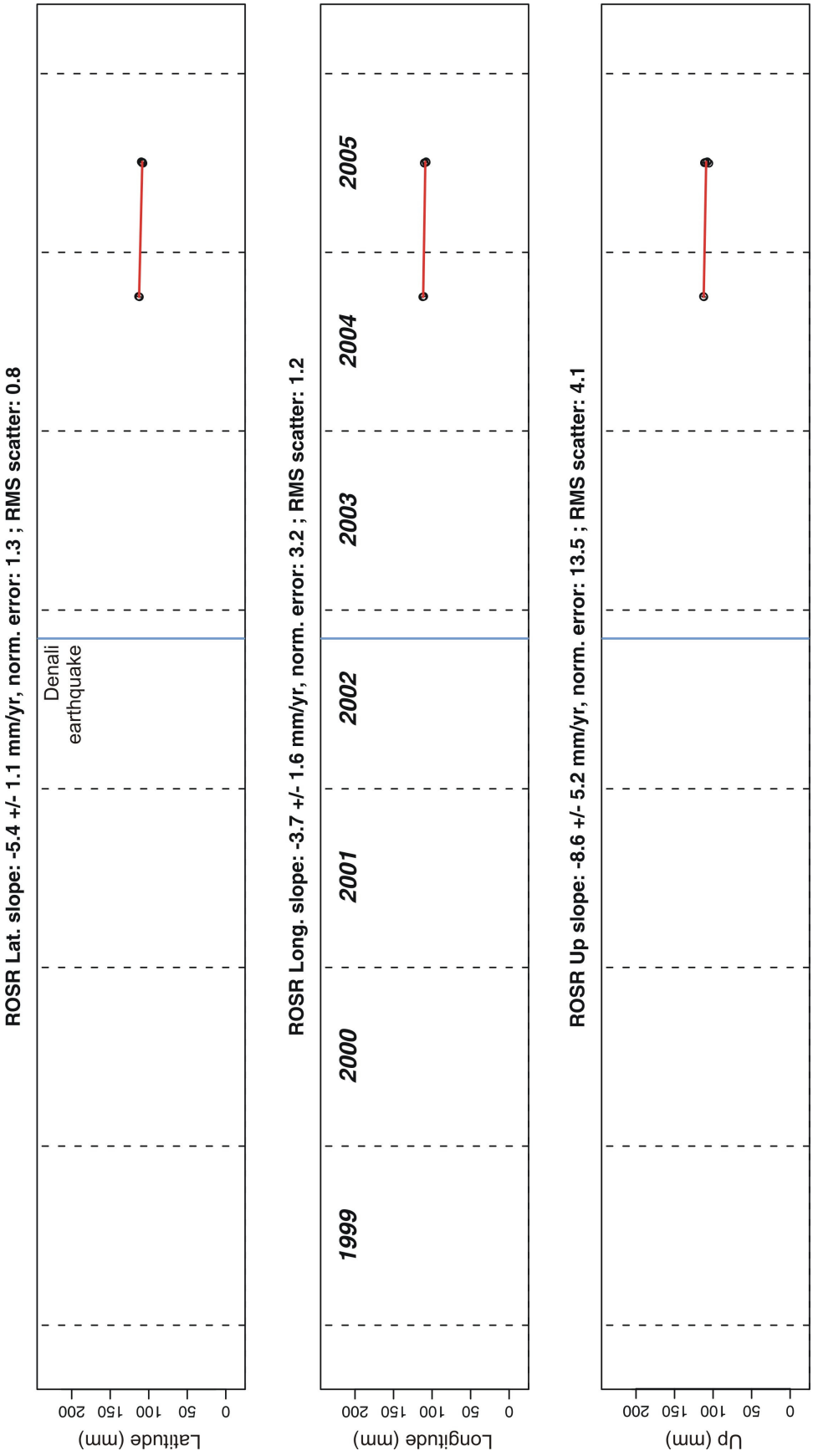

NSLM - Denali step. Lat. slope: 8.6 +/- 0.5 mm/yr, norm. error: 0.7 ; RMS scatter: 2.1
Denali earthquake
Latitude (mm)
0 50 100 150 200
NSLM - Denali step. Long. slope: 2.1 +/- 0.8 mm/yr, norm. error: 1.1 ; RMS scatter: 3.4
Longitude (mm)
0 50 100 150 200
NSLM - Denali step. Up slope: 2.8 +/- 2.3 mm/yr, norm. error: 3.1 ; RMS scatter: 9.5
Up (mm)
0 50 100 150 200
1999
2000
2001
2002
2003
2004
2005

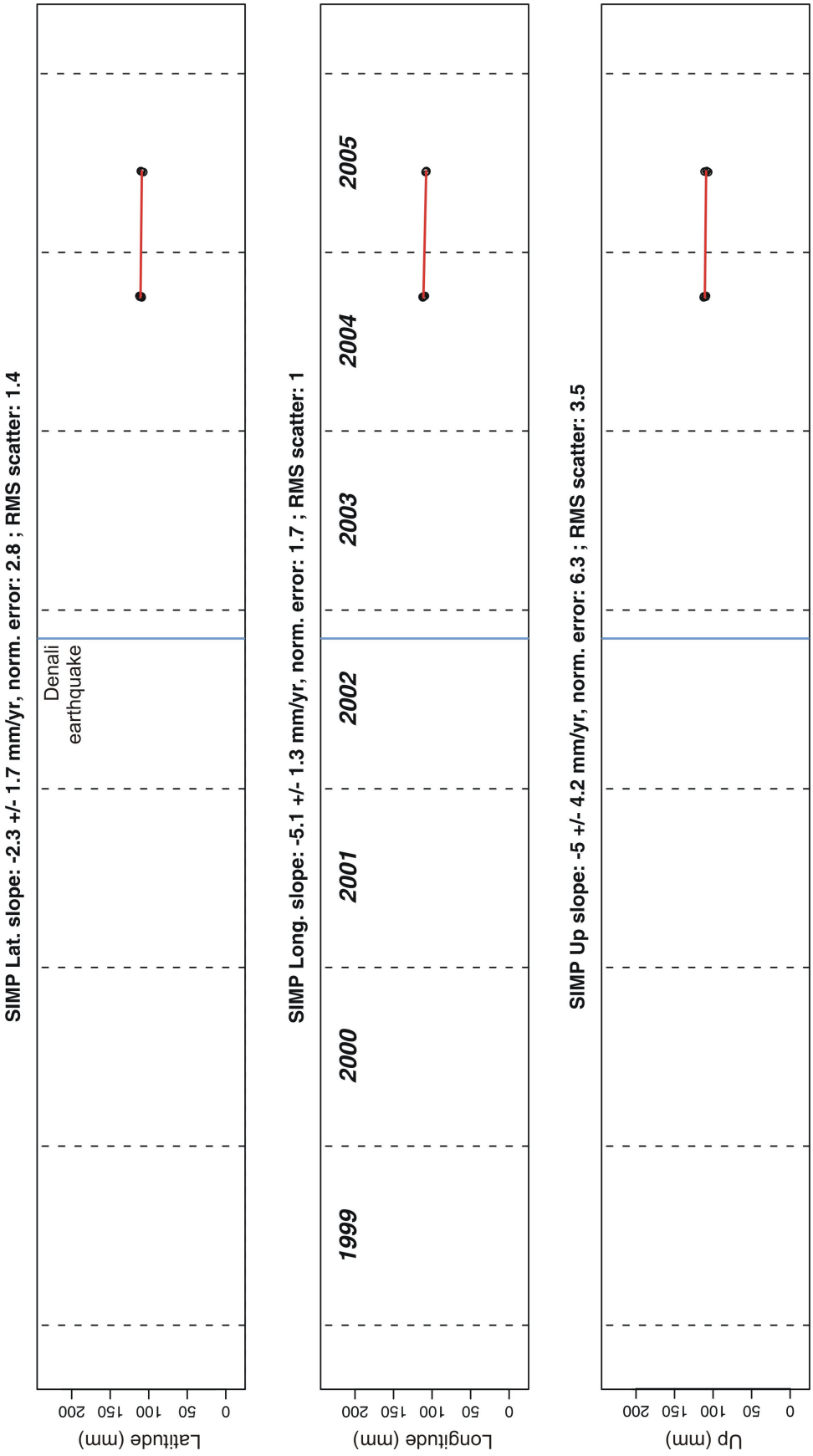

RICH Lat. slope: 1.6 +/- 0.7 mm/yr, norm. error: 3.8 ; RMS scatter: 4.6
Denali earthquake
Latitude (mm)
0
50
100
150
200
RICH Long. slope: 2.1 +/- 0.4 mm/yr, norm. error: 1.4 ; RMS scatter: 2.3
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0
50
100
150
200
RICH Up slope: -7.5 +/- 3 mm/yr, norm. error: 28.5 ; RMS scatter: 20
Up (mm)
0
50
100
150
200

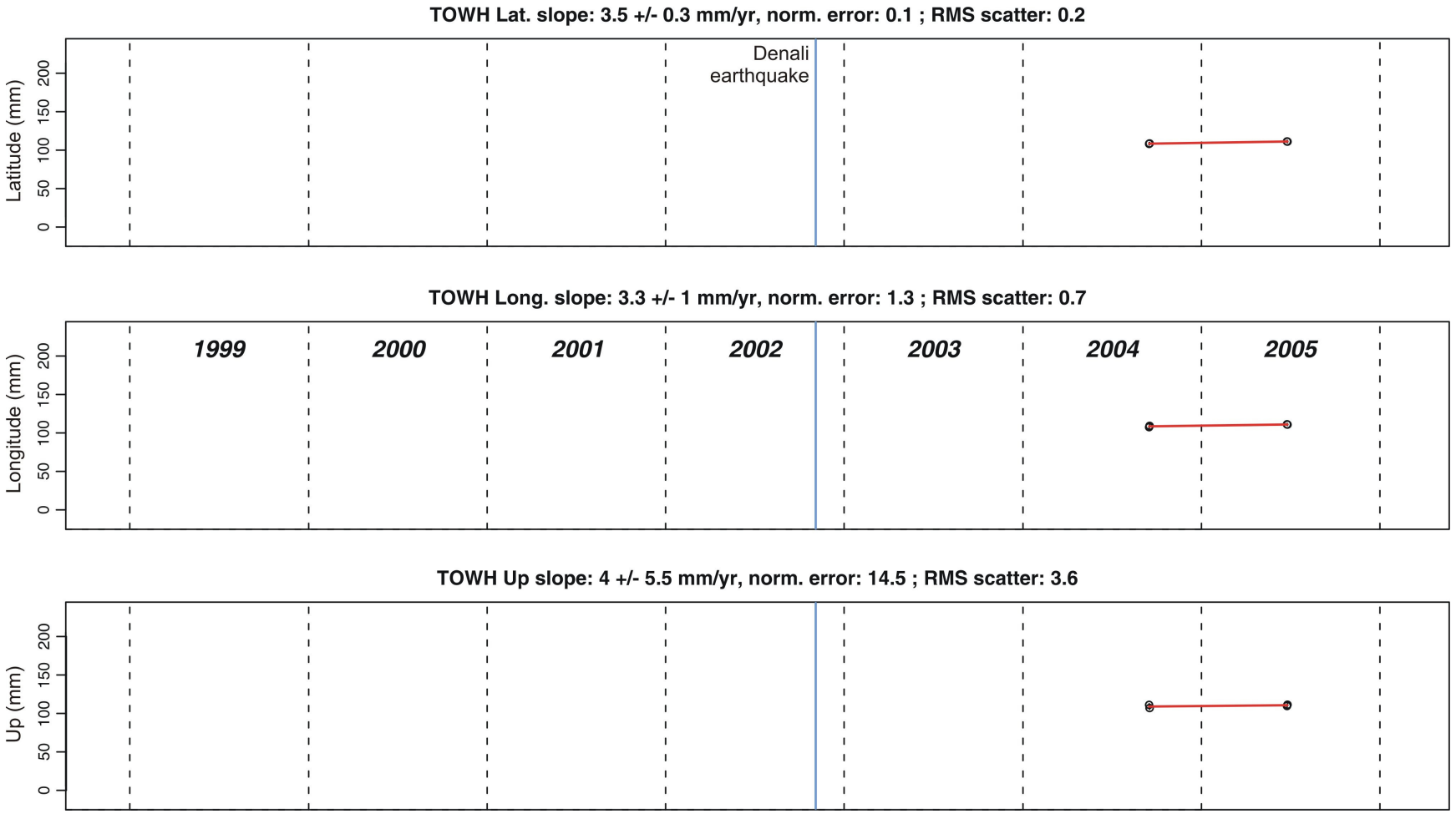

RICH -Denali coseismic deformation. Lat. slope: 1.4 +/- 0.7 mm/yr, norm. error: 3.5 ; RMS scatter: 4.7
Latitude (mm)
Denali earthquake
RICH -Denali coseismic deformation. Long. slope: 0.7 +/- 0.3 mm/yr, norm. error: 0.5 ; RMS scatter: 1.6
Longitude (mm)
RICH -Denali coseismic deformation. Up slope: -7.1 +/- 3 mm/yr, norm. error: 67.1 ; RMS scatter: 20.3
Up (mm)
0
50
100
150
200
1999
2000
2001
2002
2003
2004
2005

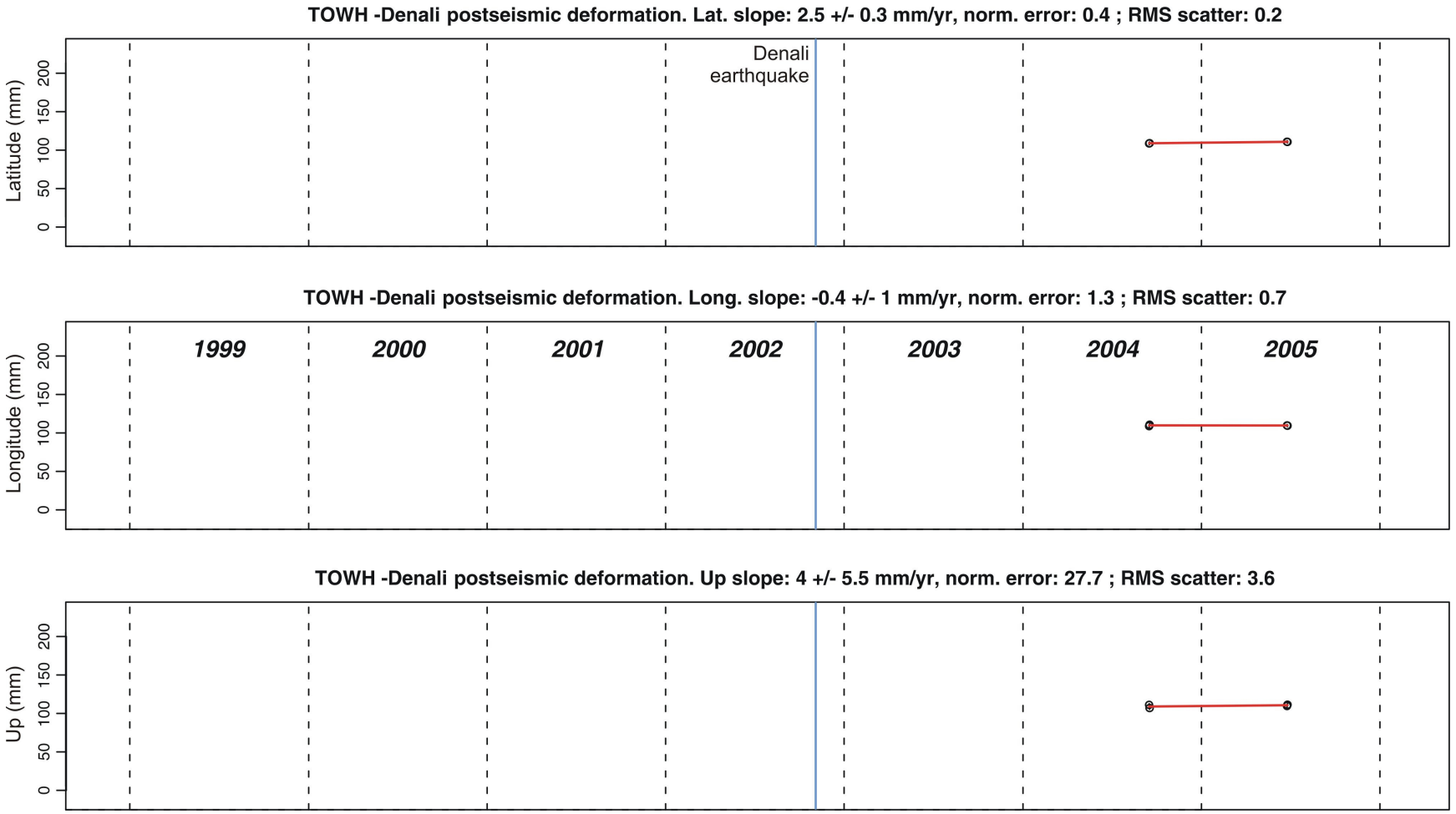

RICH - Denali step. Lat. slope: 7.1 +/- 1.4 mm/yr, norm. error: 1 ; RMS scatter: 2.8
Latitude (mm)
0
50
100
150
200
Denali
earthquake
RICH - Denali step. Long. slope: -0.3 +/- 0.7 mm/yr, norm. error: 0.6 ; RMS scatter: 1.5
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
RICH - Denali step. Up slope: -33.6 +/- 4.9 mm/yr, norm. error: 3.9 ; RMS scatter: 10.6
Up (mm)

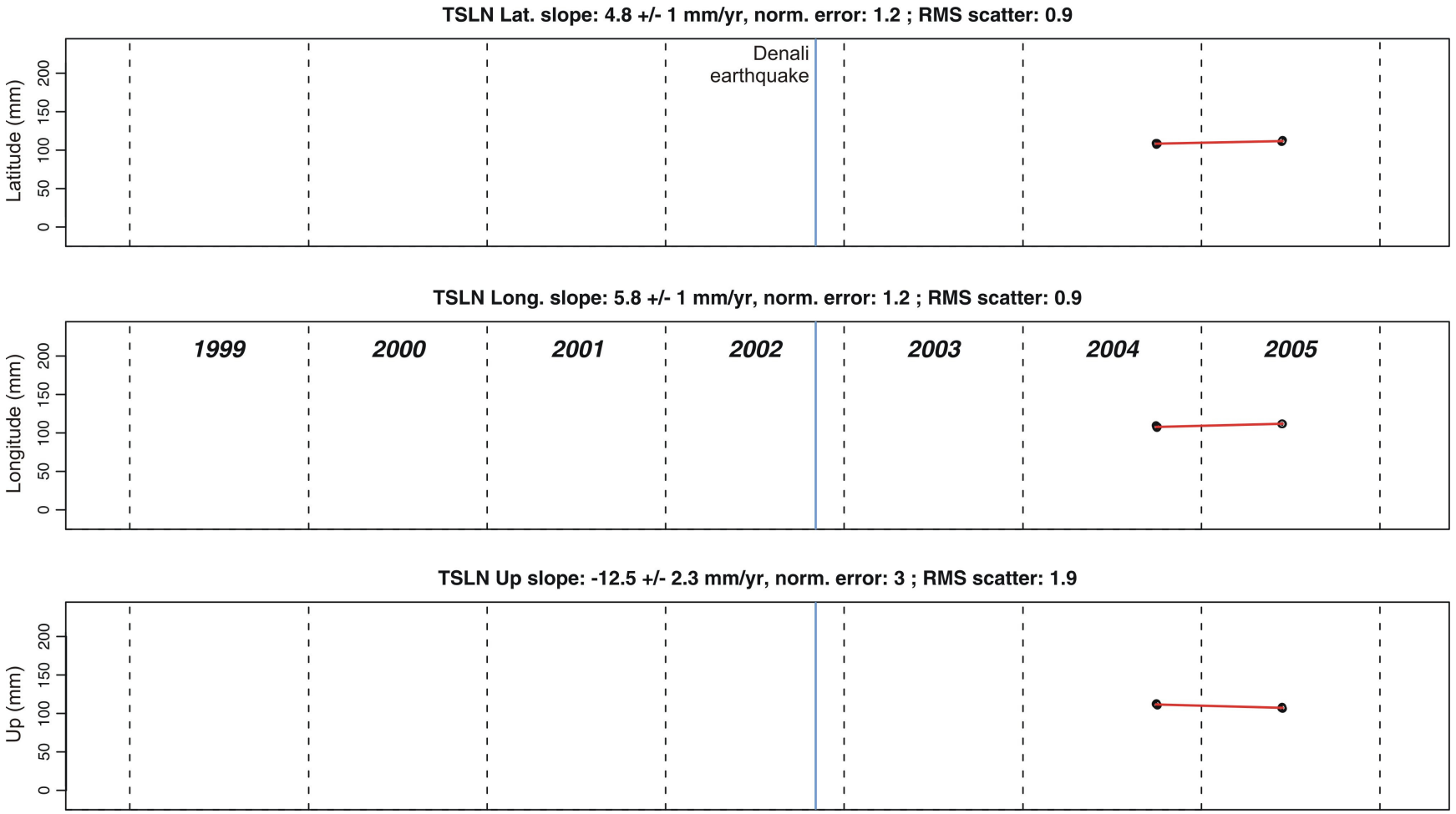

RICH - est. Denali offset. Lat. slope: 2.2 +/- 0.7 mm/yr, norm. error: 2.9 ; RMS scatter: 4.3
Denali earthquake
Latitude (mm)
0
50
100
150
200
RICH - est. Denali offset. Long. slope: 1 +/- 0.3 mm/yr, norm. error: 0.6 ; RMS scatter: 1.8
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
RICH - est. Denali offset. Up slope: -7.5 +/- 3 mm/yr, norm. error: 65.6 ; RMS scatter: 20
Up (mm)

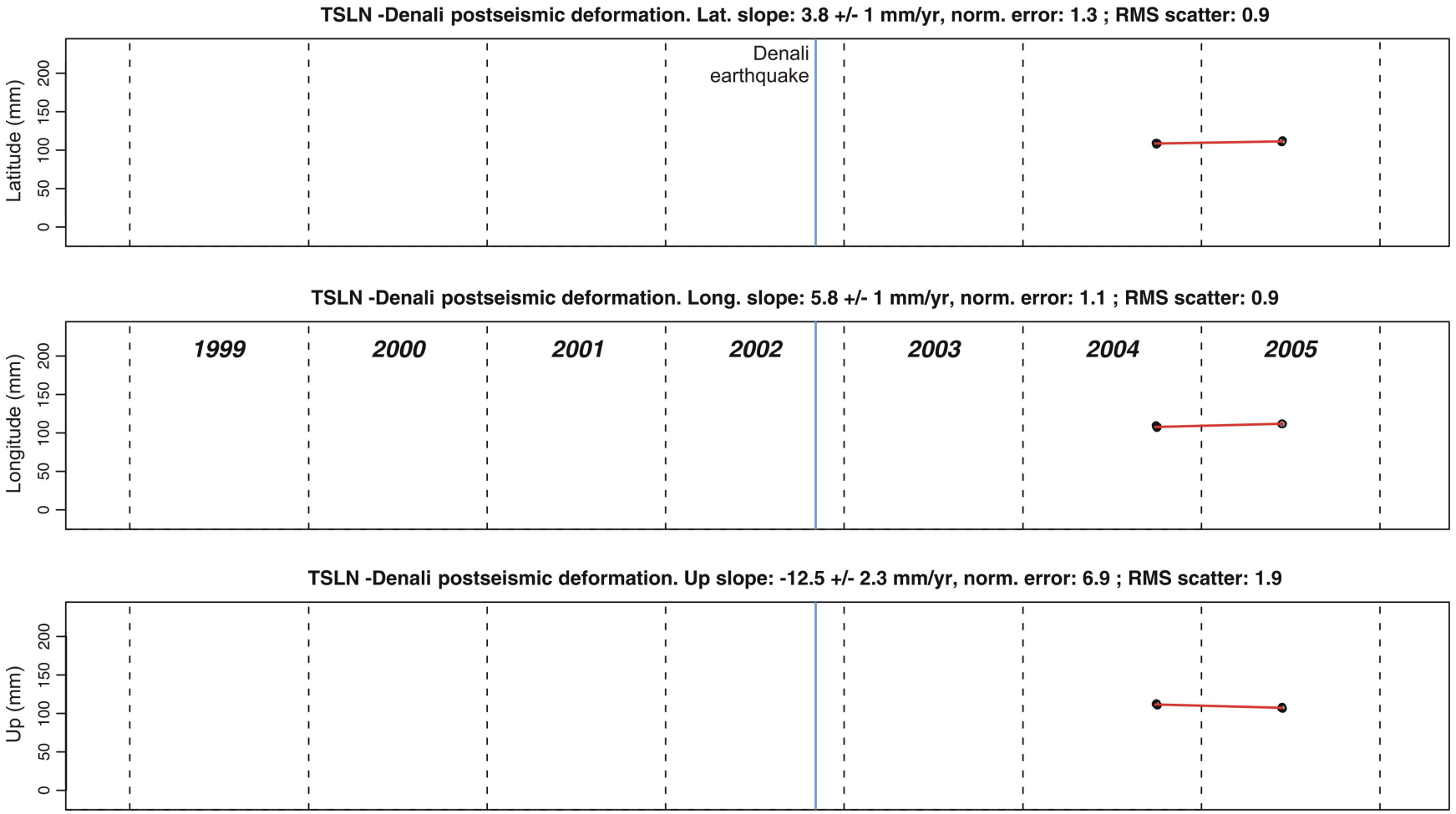

ROSR Lat. slope: -5.4 +/- 1.1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.8
Denali earthquake
Latitude (mm)
0 50 100 150 200
ROSR Long. slope: -3.7 +/- 1.6 mm/yr, norm. error: 3.2 ; RMS scatter: 1.2
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
0 50 100 150 200
ROSR Up slope: -8.6 +/- 5.2 mm/yr, norm. error: 13.5 ; RMS scatter: 4.1
Up (mm)
0 50 100 150 200

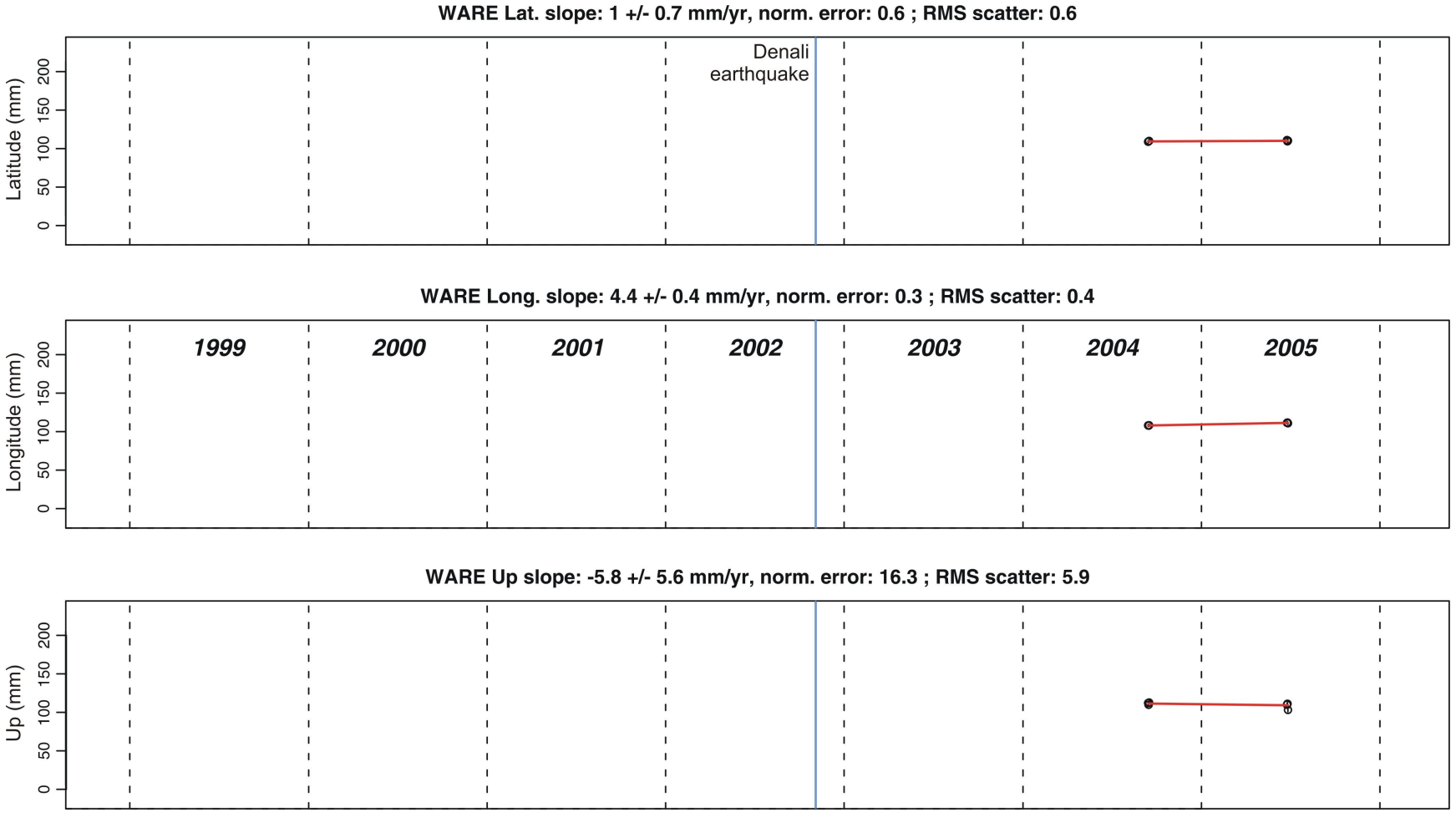

SIMP Lat. slope: -2.3 +/- 1.7 mm/yr, norm. error: 2.8 ; RMS scatter: 1.4
Latitude (mm)
0
50
100
150
200
Denali earthquake
SIMP Long. slope: -5.1 +/- 1.3 mm/yr, norm. error: 1.7 ; RMS scatter: 1
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
SIMP Up slope: -5 +/- 4.2 mm/yr, norm. error: 6.3 ; RMS scatter: 3.5
Up (mm)

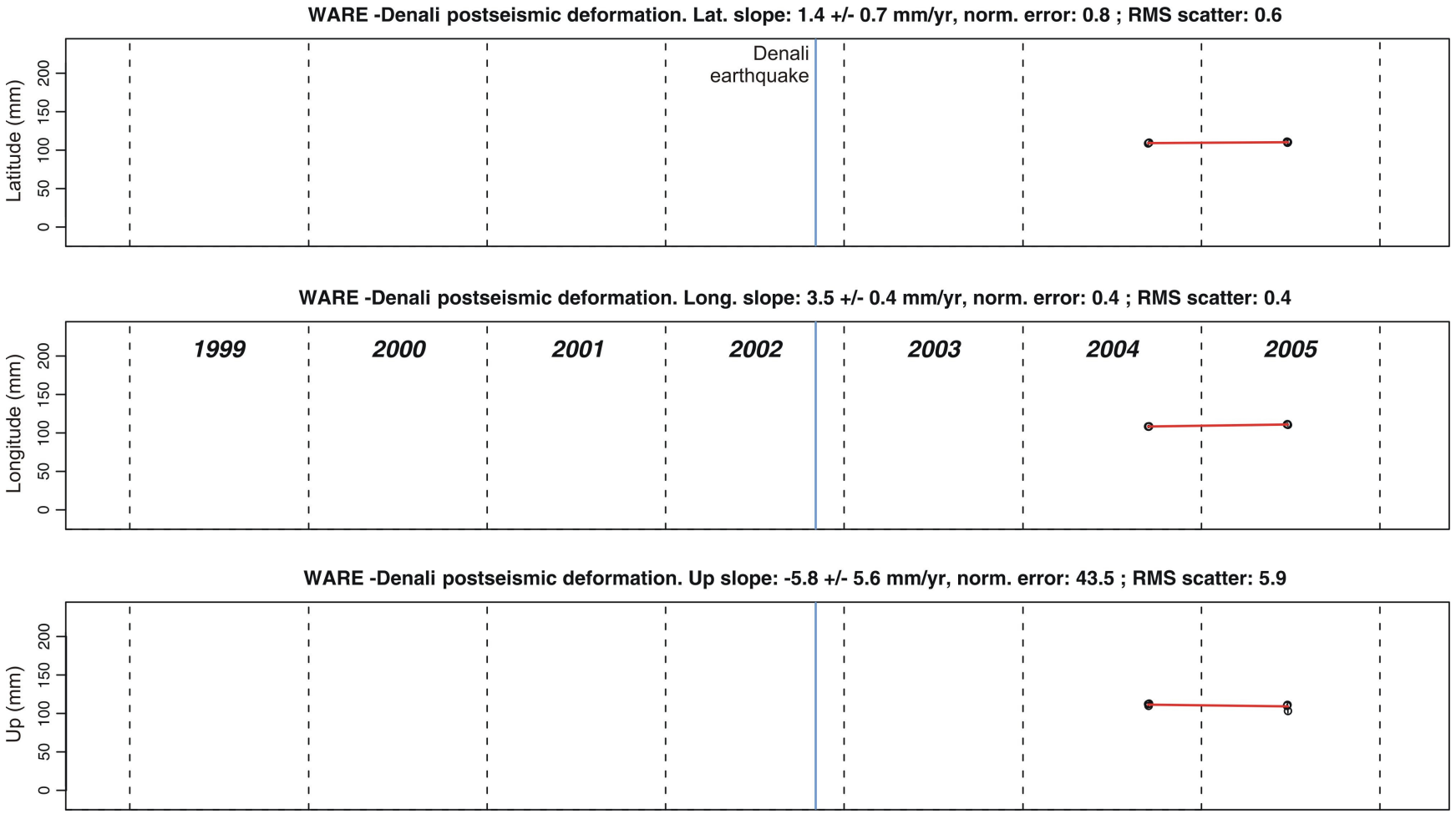

TOWH Lat. slope: 3.5 +/- 0.3 mm/yr, norm. error: 0.1 ; RMS scatter: 0.2
Latitude (mm)
0
50
100
150
200
Denali
earthquake
TOWH Long. slope: 3.3 +/- 1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.7
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
TOWH Up slope: 4 +/- 5.5 mm/yr, norm. error: 14.5 ; RMS scatter: 3.6
Up (mm)

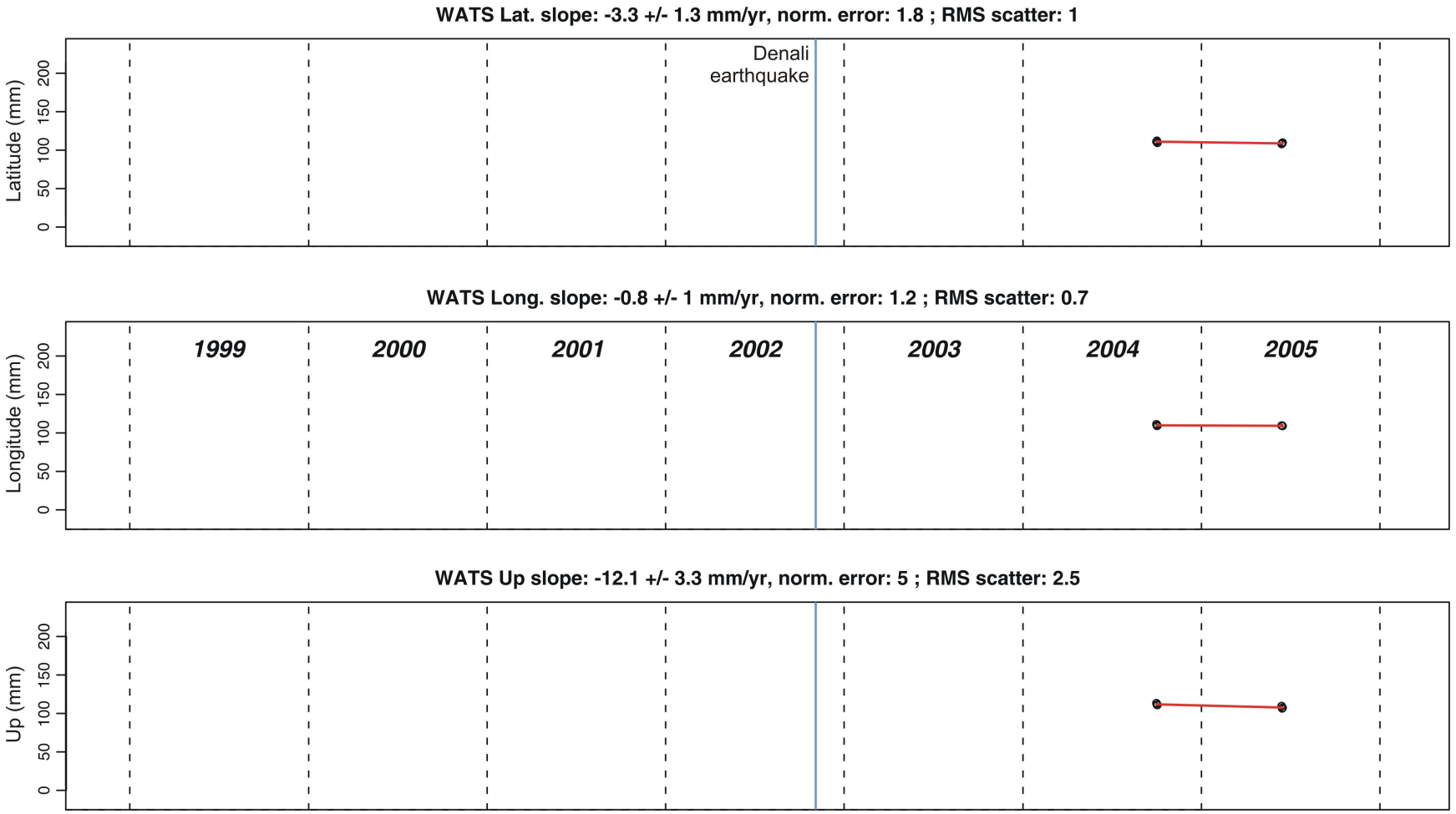

TOWH -Denali postseismic deformation. Lat. slope: 2.5 +/- 0.3 mm/yr, norm. error: 0.4 ; RMS scatter: 0.2
Latitude (mm)
0
50
100
150
200
Denali
earthquake
TOWH -Denali postseismic deformation. Long. slope: -0.4 +/- 1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.7
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
TOWH -Denali postseismic deformation. Up slope: 4 +/- 5.5 mm/yr, norm. error: 27.7 ; RMS scatter: 3.6
Up (mm)

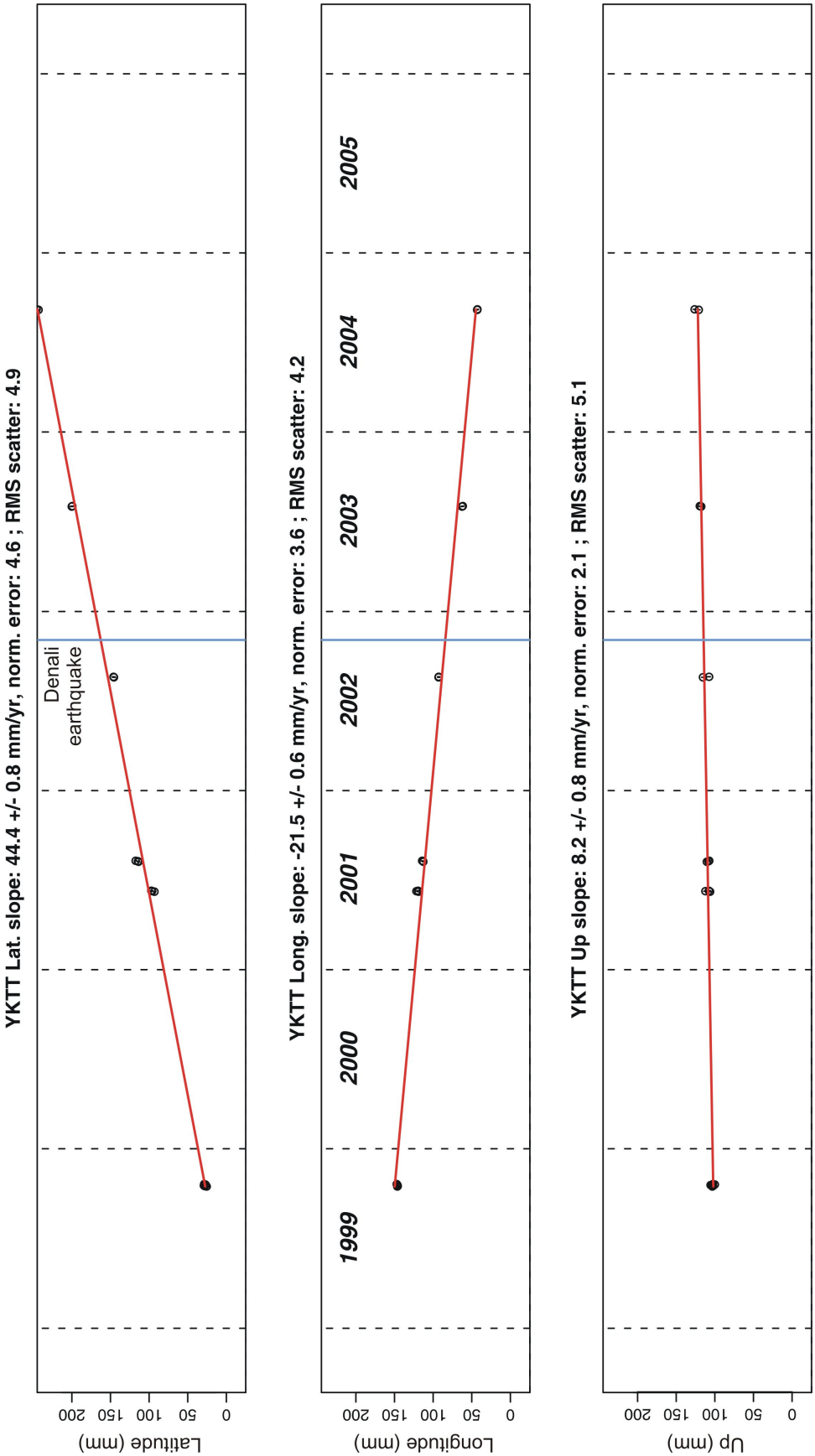

TSLN Lat. slope: 4.8 +/- 1 mm/yr, norm. error: 1.2 ; RMS scatter: 0.9
Latitude (mm)
0
50
100
150
200
Denali
earthquake
TSLN Long. slope: 5.8 +/- 1 mm/yr, norm. error: 1.2 ; RMS scatter: 0.9
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
TSLN Up slope: -12.5 +/- 2.3 mm/yr, norm. error: 3 ; RMS scatter: 1.9
Up (mm)

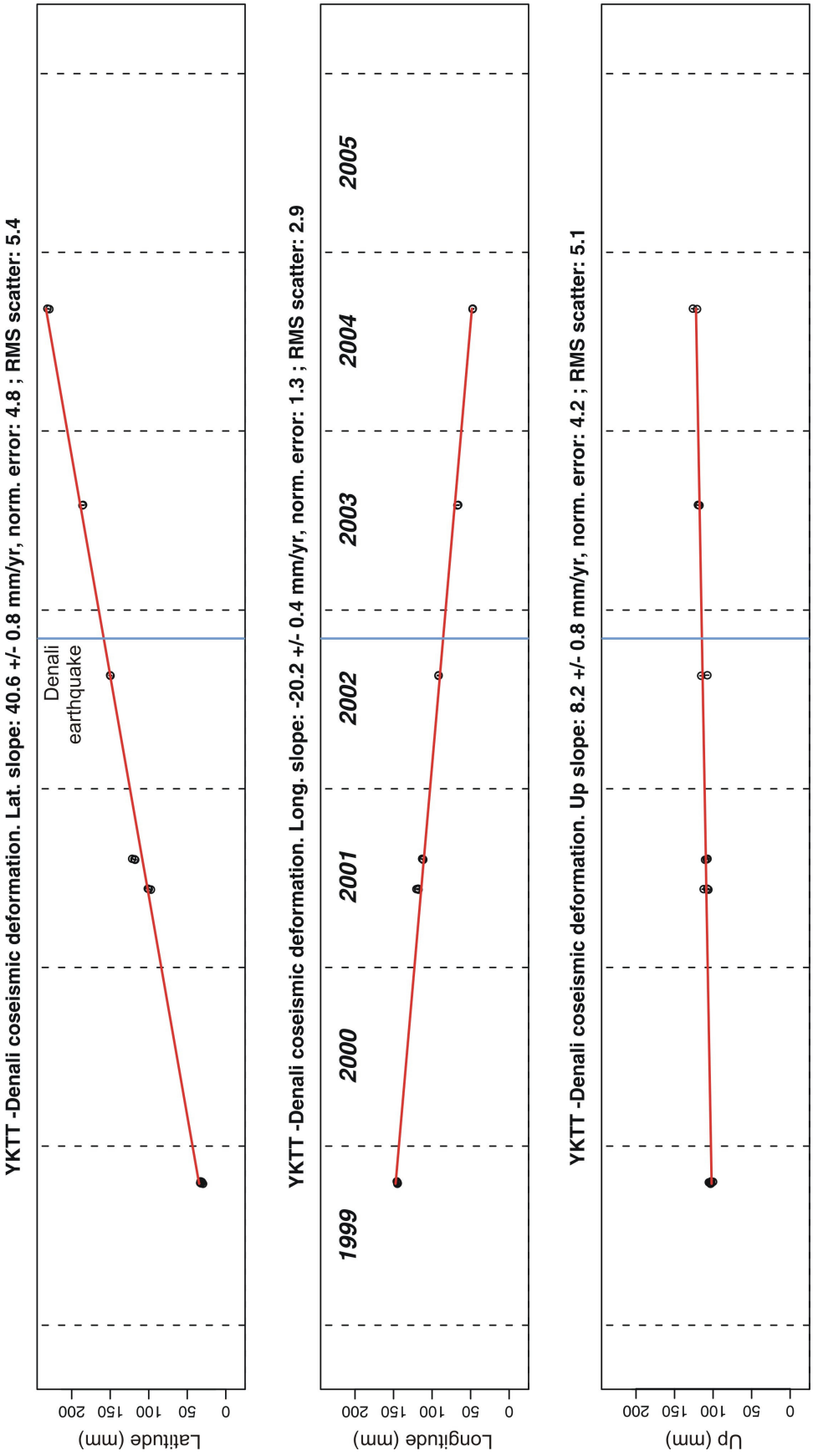

TSLN -Denali postseismic deformation. Lat. slope: 3.8 +/- 1 mm/yr, norm. error: 1.3 ; RMS scatter: 0.9
Latitude (mm)
0
50
100
150
200
Denali
earthquake
TSLN -Denali postseismic deformation. Long. slope: 5.8 +/- 1 mm/yr, norm. error: 1.1 ; RMS scatter: 0.9
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
TSLN -Denali postseismic deformation. Up slope: -12.5 +/- 2.3 mm/yr, norm. error: 6.9 ; RMS scatter: 1.9
Up (mm)

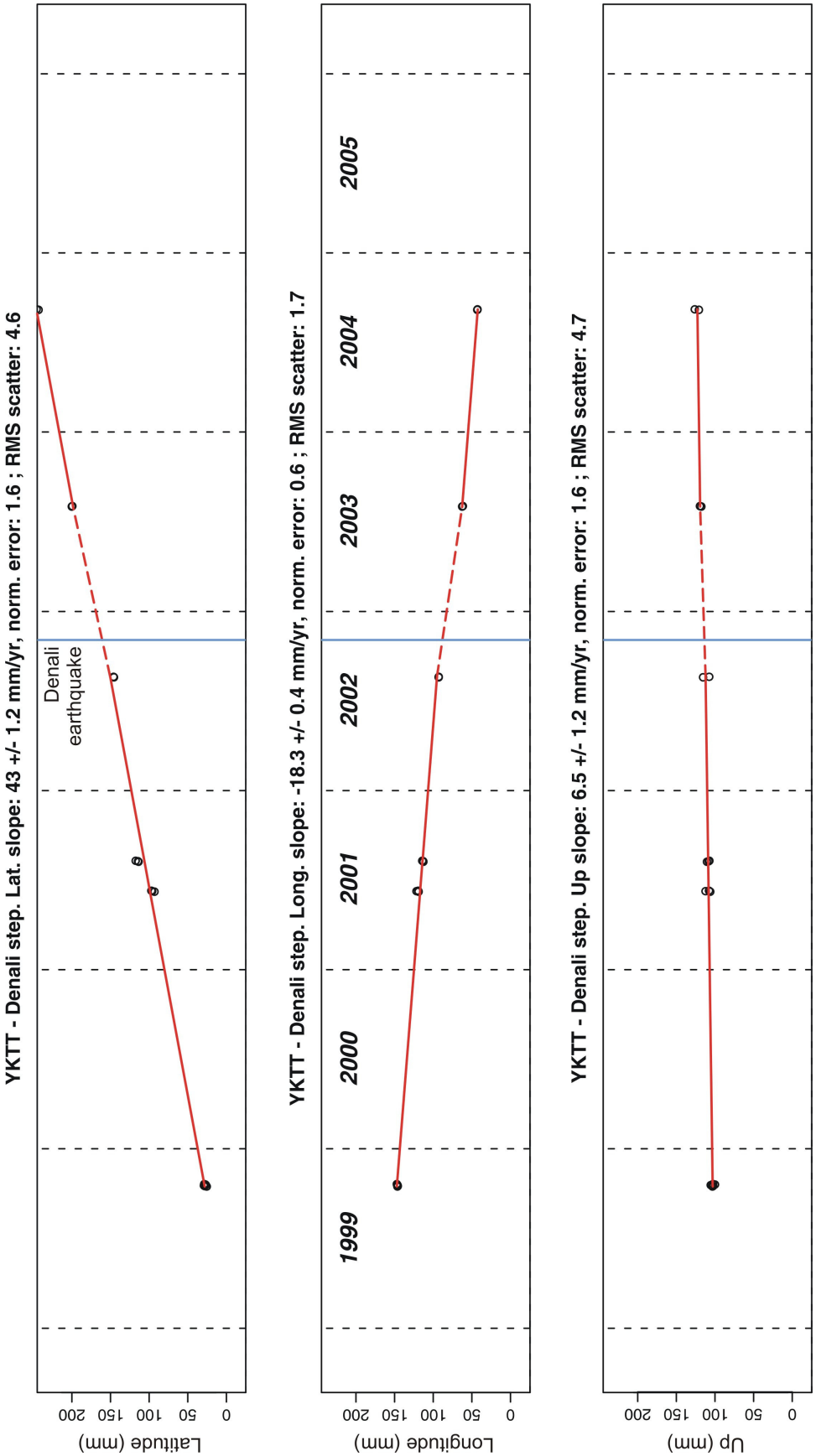

WARE Lat. slope: 1 +/- 0.7 mm/yr, norm. error: 0.6 ; RMS scatter: 0.6
Latitude (mm)
0
50
100
150
200
Denali
earthquake
WARE Long. slope: 4.4 +/- 0.4 mm/yr, norm. error: 0.3 ; RMS scatter: 0.4
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
WARE Up slope: -5.8 +/- 5.6 mm/yr, norm. error: 16.3 ; RMS scatter: 5.9
Up (mm)


WARE -Denali postseismic deformation. Lat. slope: 1.4 +/- 0.7 mm/yr, norm. error: 0.8 ; RMS scatter: 0.6
Latitude (mm)
0
50
100
150
200
Denali
earthquake
WARE -Denali postseismic deformation. Long. slope: 3.5 +/- 0.4 mm/yr, norm. error: 0.4 ; RMS scatter: 0.4
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
WARE -Denali postseismic deformation. Up slope: -5.8 +/- 5.6 mm/yr, norm. error: 43.5 ; RMS scatter: 5.9
Up (mm)


WATS Lat. slope: -3.3 +/- 1.3 mm/yr, norm. error: 1.8 ; RMS scatter: 1
Latitude (mm)
0
50
100
150
200
Denali
earthquake
WATS Long. slope: -0.8 +/- 1 mm/yr, norm. error: 1.2 ; RMS scatter: 0.7
Longitude (mm)
1999
2000
2001
2002
2003
2004
2005
WATS Up slope: -12.1 +/- 3.3 mm/yr, norm. error: 5 ; RMS scatter: 2.5
Up (mm)


YKTT Lat. slope: 44.4 +/- 0.8 mm/yr, norm. error: 4.6 ; RMS scatter: 4.9
Denali earthquake
Latitude (mm)
0 50 100 150 200
YKTT Long. slope: -21.5 +/- 0.6 mm/yr, norm. error: 3.6 ; RMS scatter: 4.2
Longitude (mm)
0 50 100 150 200
1999 2000 2001 2002 2003 2004 2005
YKTT Up slope: 8.2 +/- 0.8 mm/yr, norm. error: 2.1 ; RMS scatter: 5.1
Up (mm)
0 50 100 150 200


YKTT -Denali coseismic deformation. Lat. slope: 40.6 +/- 0.8 mm/yr, norm. error: 4.8 ; RMS scatter: 5.4
Denali earthquake
Latitude (mm)
0
50
100
150
200
YKTT -Denali coseismic deformation. Long. slope: -20.2 +/- 0.4 mm/yr, norm. error: 1.3 ; RMS scatter: 2.9
1999
2000
2001
2002
2003
2004
2005
Longitude (mm)
YKTT -Denali coseismic deformation. Up slope: 8.2 +/- 0.8 mm/yr, norm. error: 4.2 ; RMS scatter: 5.1
Up (mm)


YKTT - Denali step. Lat. slope: 43 +/- 1.2 mm/yr, norm. error: 1.6 ; RMS scatter: 4.6
Denali earthquake
Latitude (mm)
0 50 100 150 200
YKTT - Denali step. Long. slope: -18.3 +/- 0.4 mm/yr, norm. error: 0.6 ; RMS scatter: 1.7
1999 2000 2001 2002 2003 2004 2005
Longitude (mm)
0 50 100 150 200
YKTT - Denali step. Up slope: 6.5 +/- 1.2 mm/yr, norm. error: 1.6 ; RMS scatter: 4.7
Up (mm)
0 50 100 150 200

# APPENDIX D

## Earthquake Magnitude Relations, Intervals of Completeness and Recurrence Relations

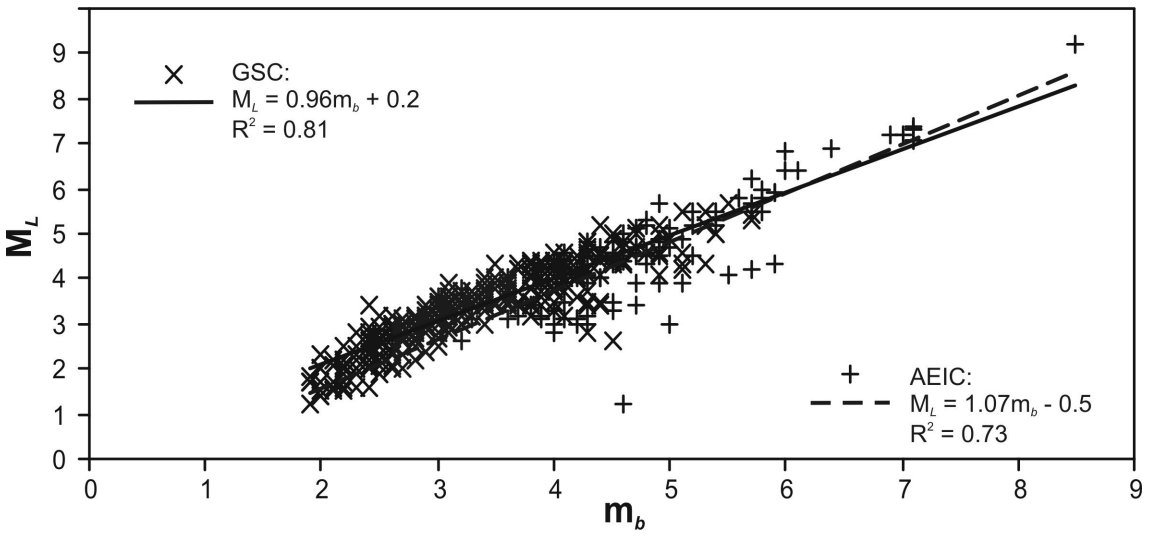



**Figure D1.** $M_L$-$m_b$ relationship for events in the northern Canadian cordillera (GSC catalogue) and Alaska (AEIC catalogue).

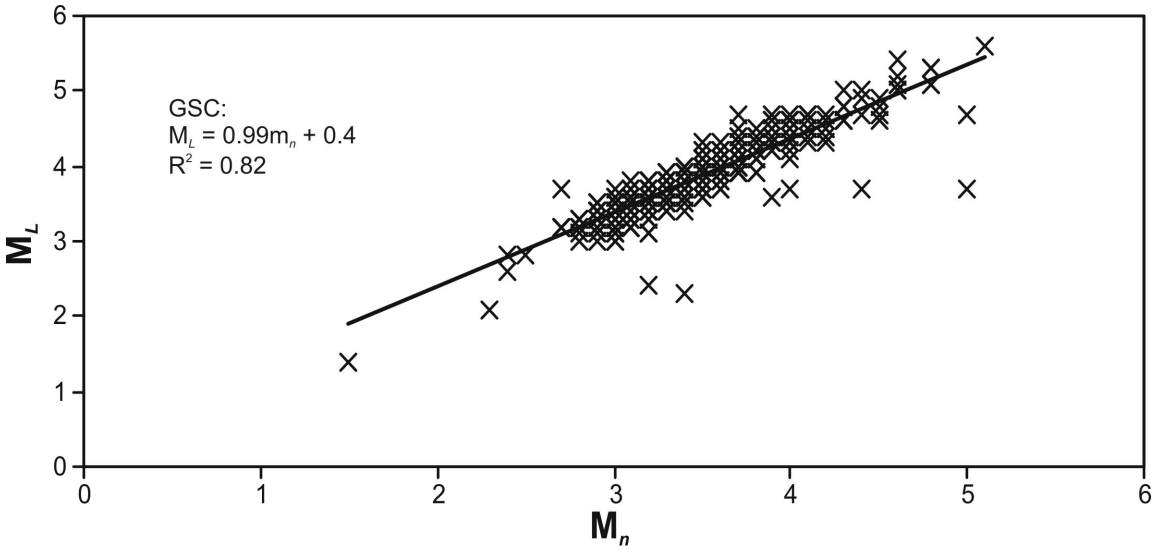



**Figure D2.** $M_L$-$M_n$ relationship for events in the northern Canadian cordillera (GSC catalogue).

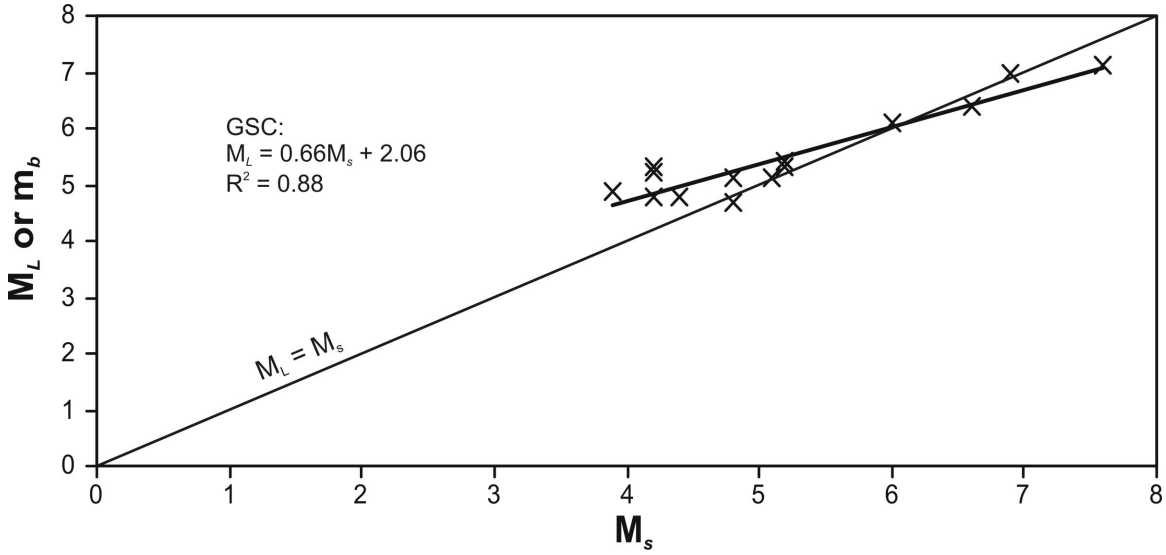



**Figure D3.** $M_L$-$M_s$ relationship for events in the northern Canadian cordillera (GSC catalogue). Thin line shows the expected relationship ($M_L = M_s$).

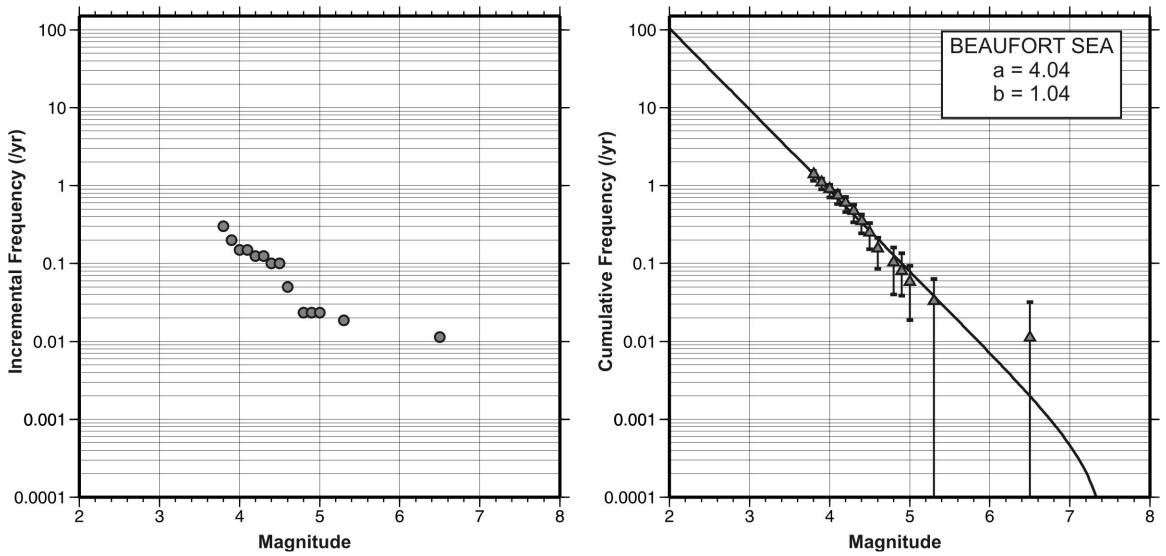



**Figure D4.** Beaufort Sea region: incremental and cumulative frequency distribution.

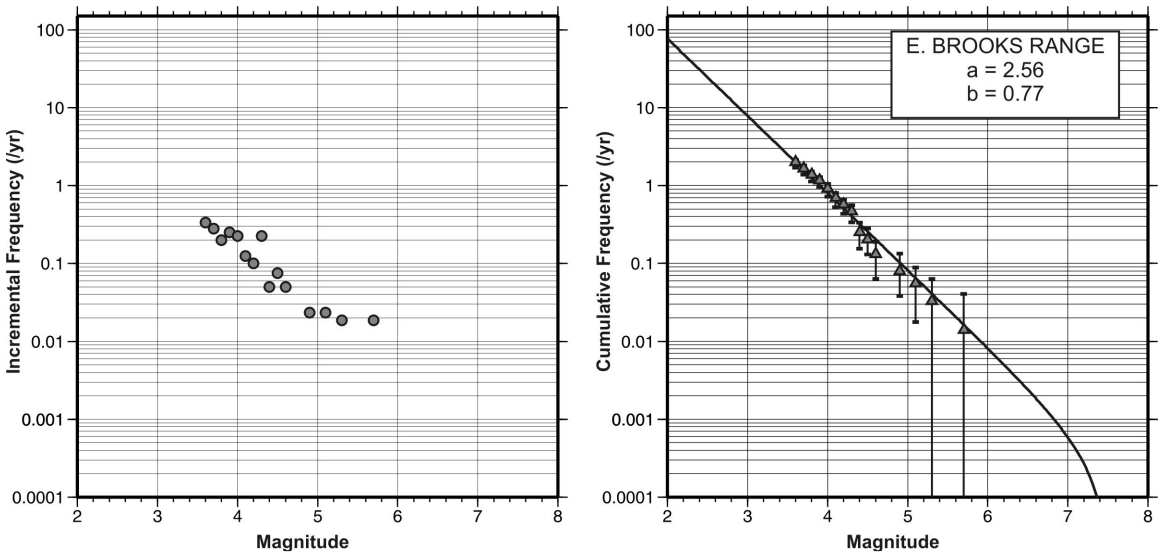



**Figure D5.** Eastern Brooks Range region: incremental and cumulative frequency distribution.

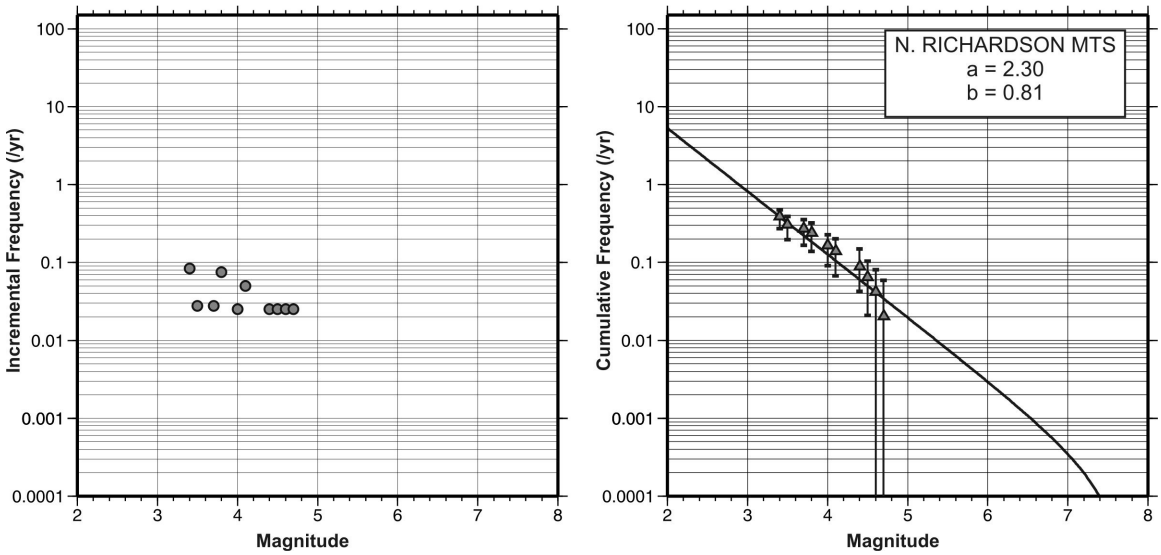



**Figure D6.** N. Richardson Mountains region: incremental and cumulative frequency distribution.

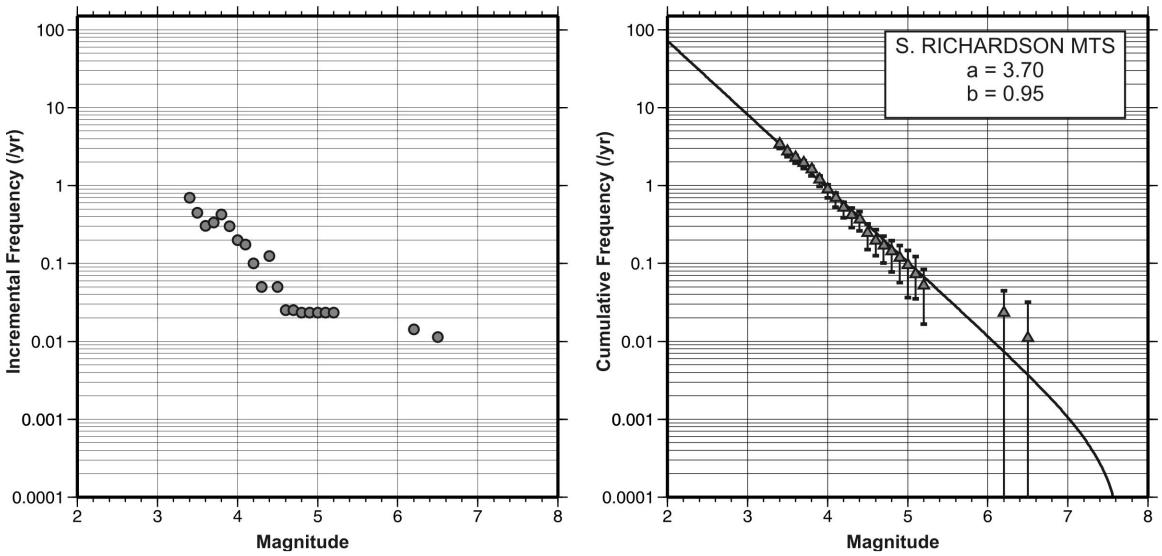



**Figure D7.** S. Richardson Mountains region: incremental and cumulative frequency distribution.

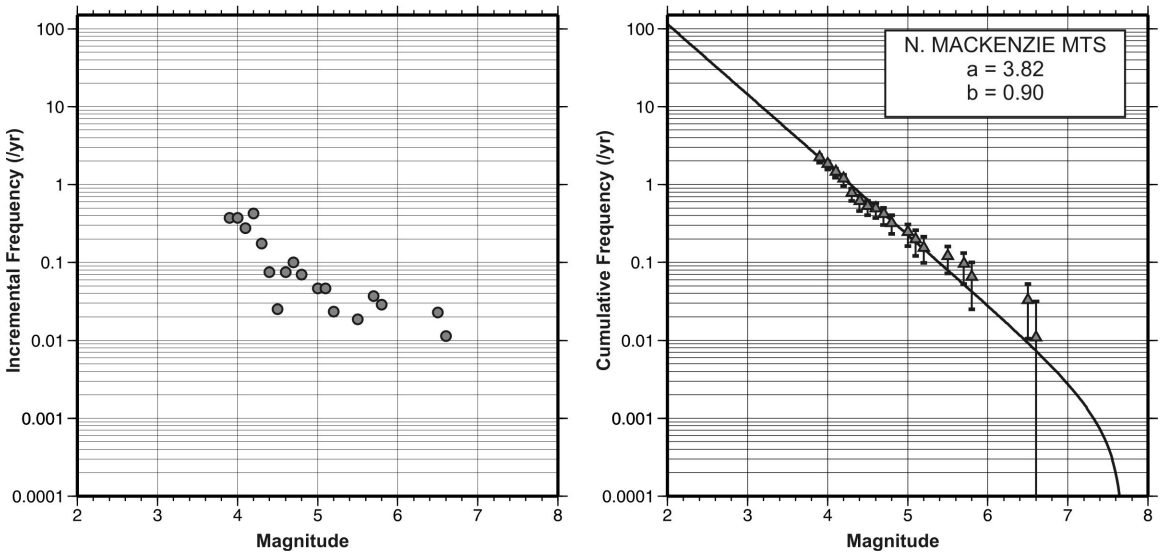



**Figure D8.** N. Mackenzie Mountains: incremental and cumulative frequency distribution.

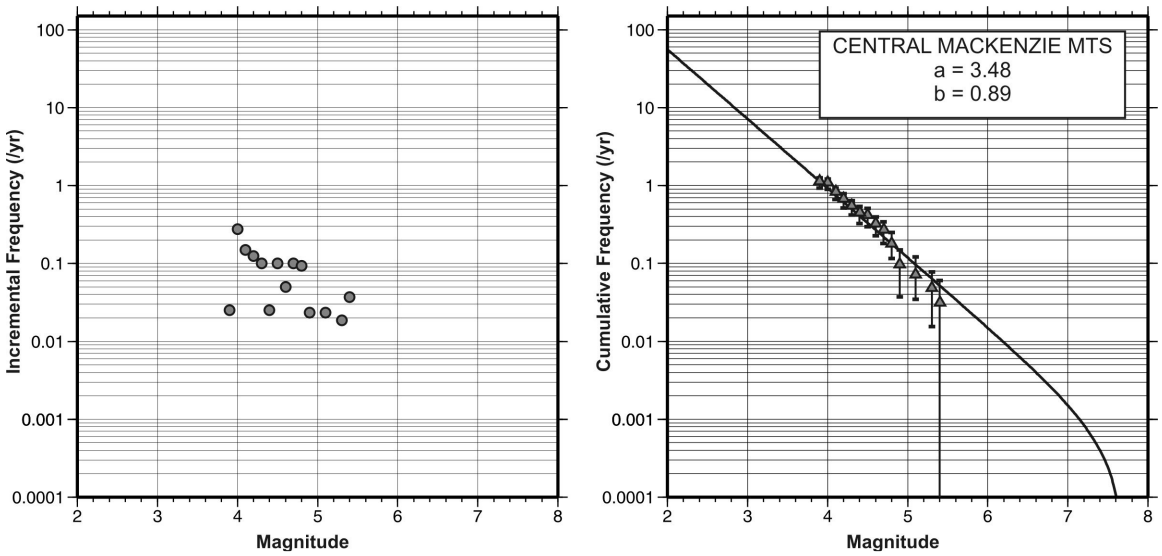



**Figure D9.** Central Mackenzie Mountains: incremental and cumulative frequency distribution.

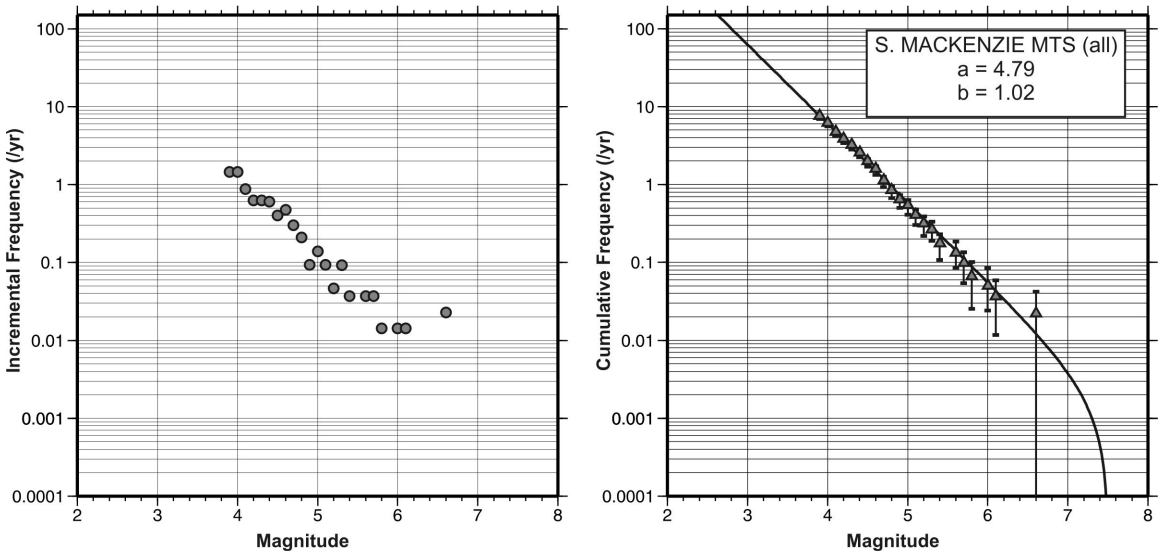



**Figure D10.** S. Mackenzie Mountains: incremental and cumulative frequency distribution. All events included.

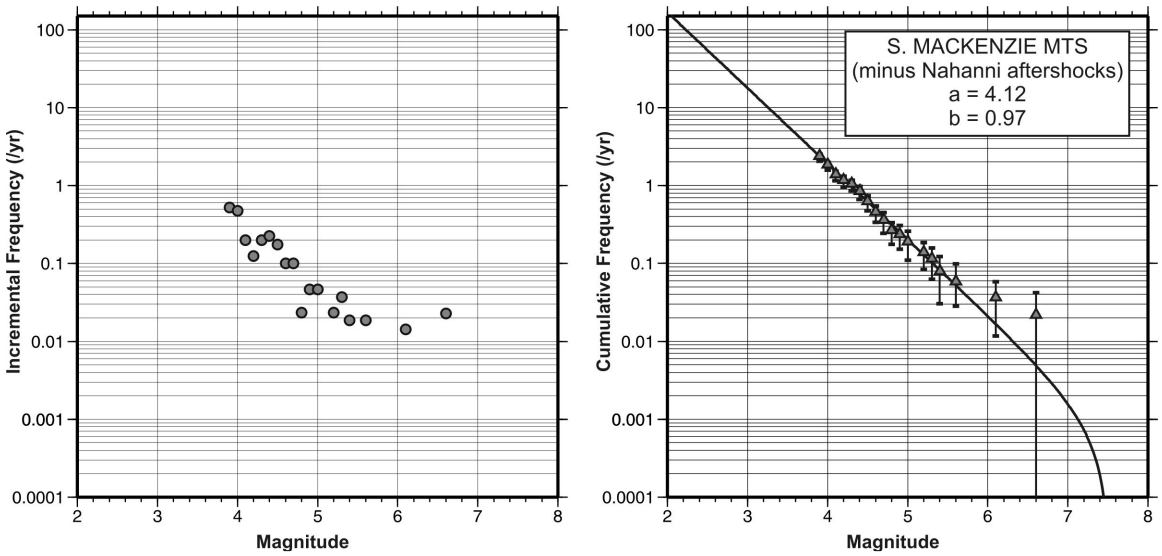



**Figure D11.** S. Mackenzie Mountains 2: incremental and cumulative frequency distribution. Nahanni aftershocks 1985-1986 removed.

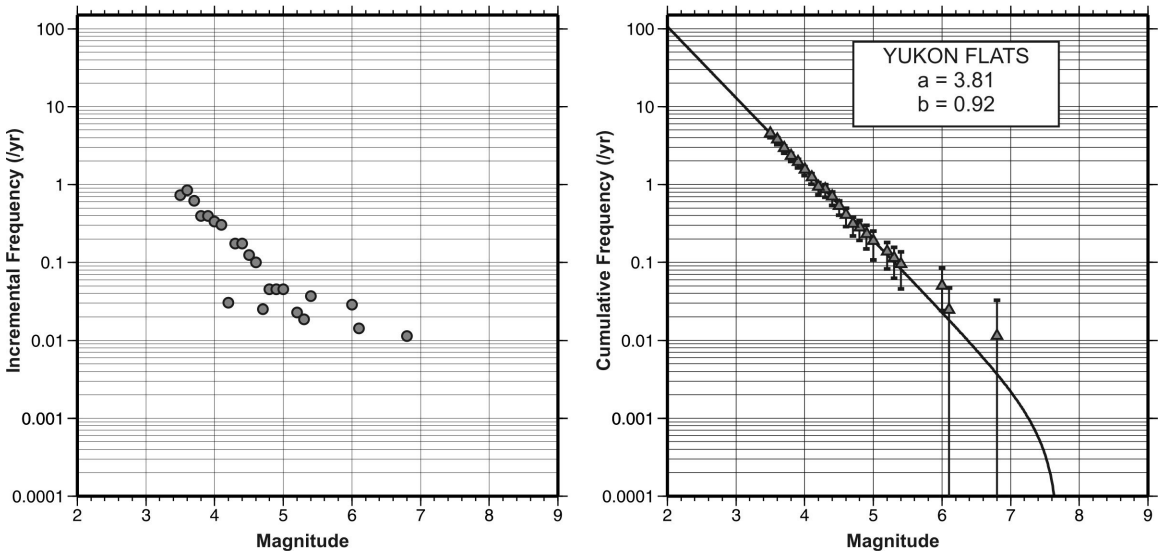



**Figure D12.** Yukon Flats region: incremental and cumulative frequency distribution.

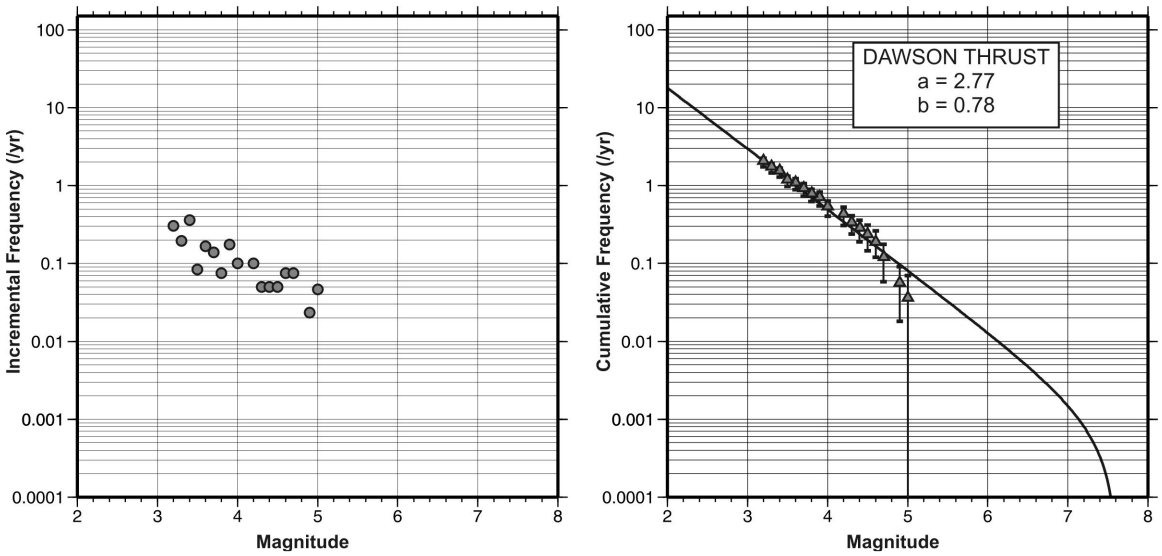



**Figure D13.** Dawson thrust region: incremental and cumulative frequency distribution.

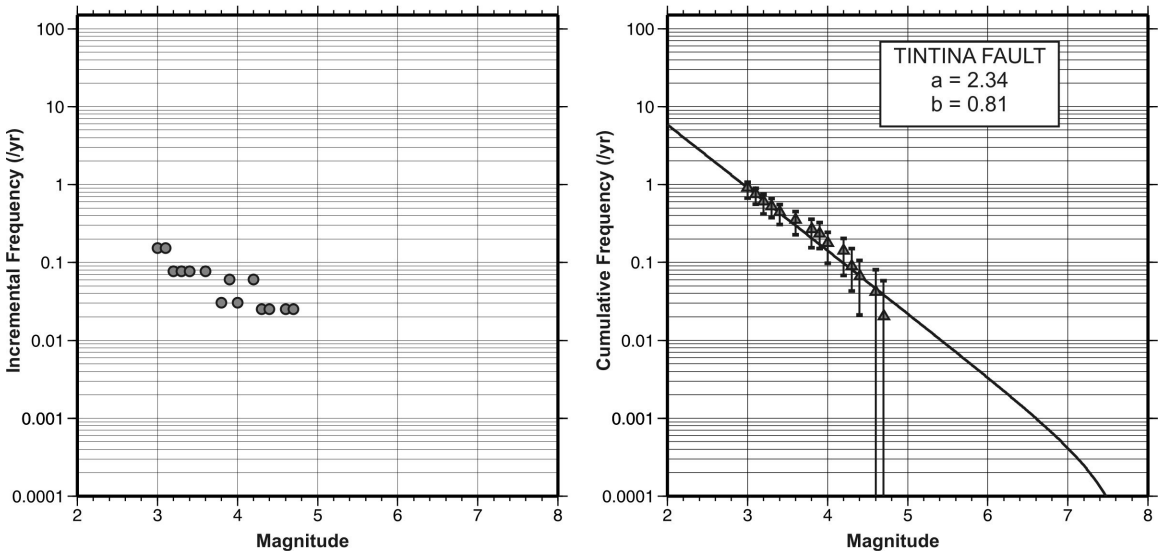



**Figure D14.** Tintina fault region: incremental and cumulative frequency distribution.

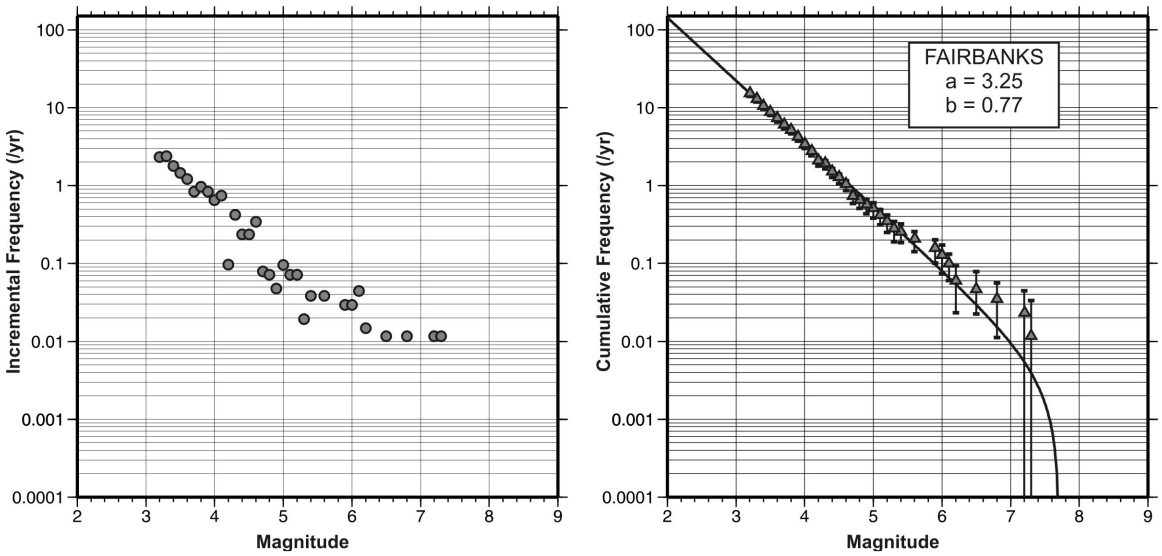



**Figure D15.** Fairbanks region: incremental and cumulative frequency distribution.

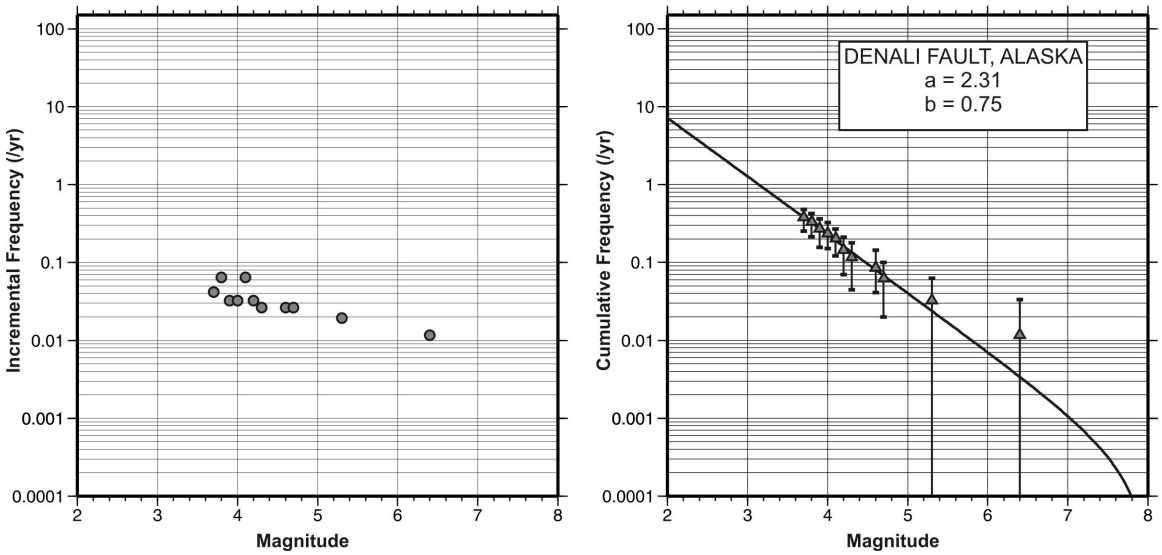



**Figure D16.** Denali fault, Alaska region: incremental and cumulative frequency distribution.

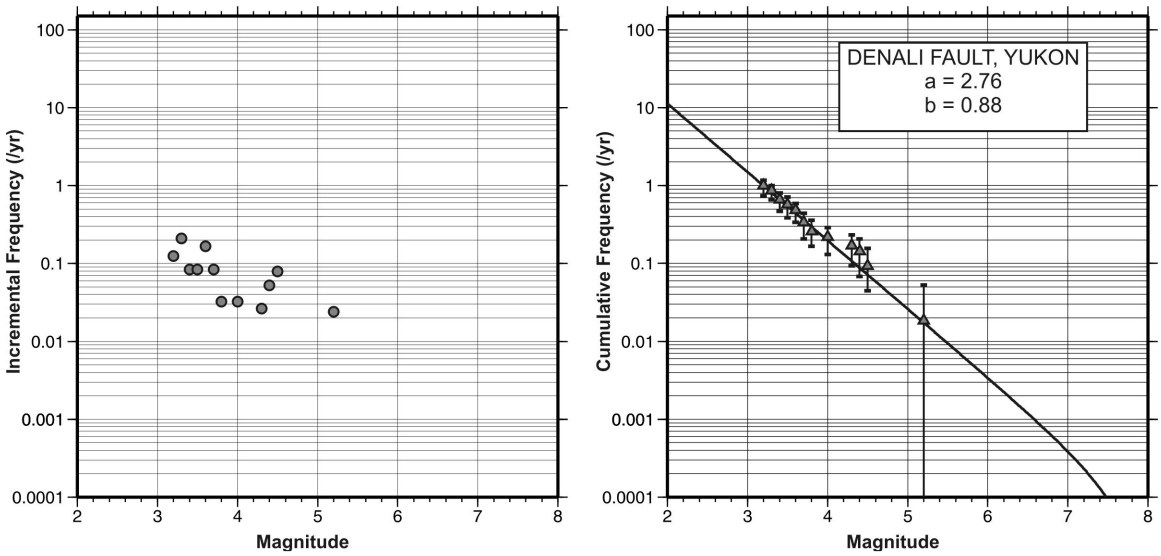



**Figure D17.** Denali fault, Yukon region: incremental and cumulative frequency distribution.

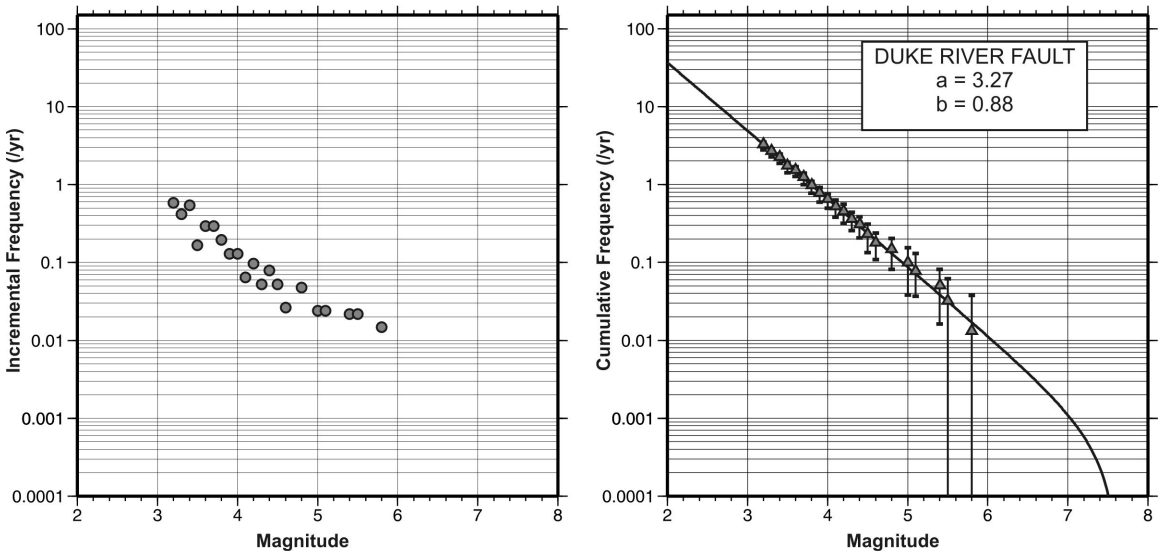



**Figure D18.** Duke River fault region: incremental and cumulative frequency distribution.

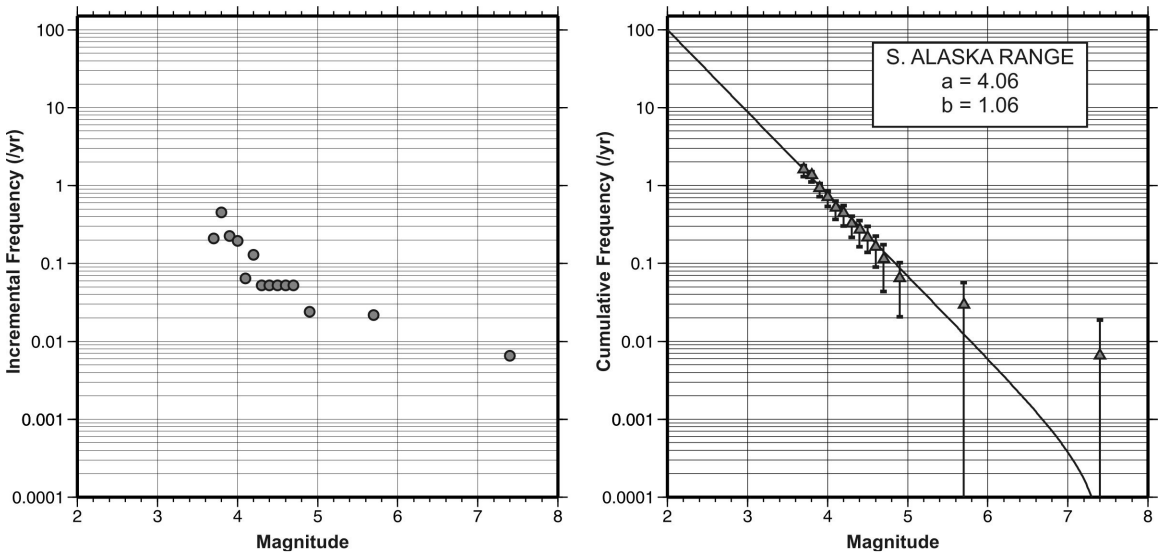



**Figure D19.** S. Alaska Range region: incremental and cumulative frequency distribution.

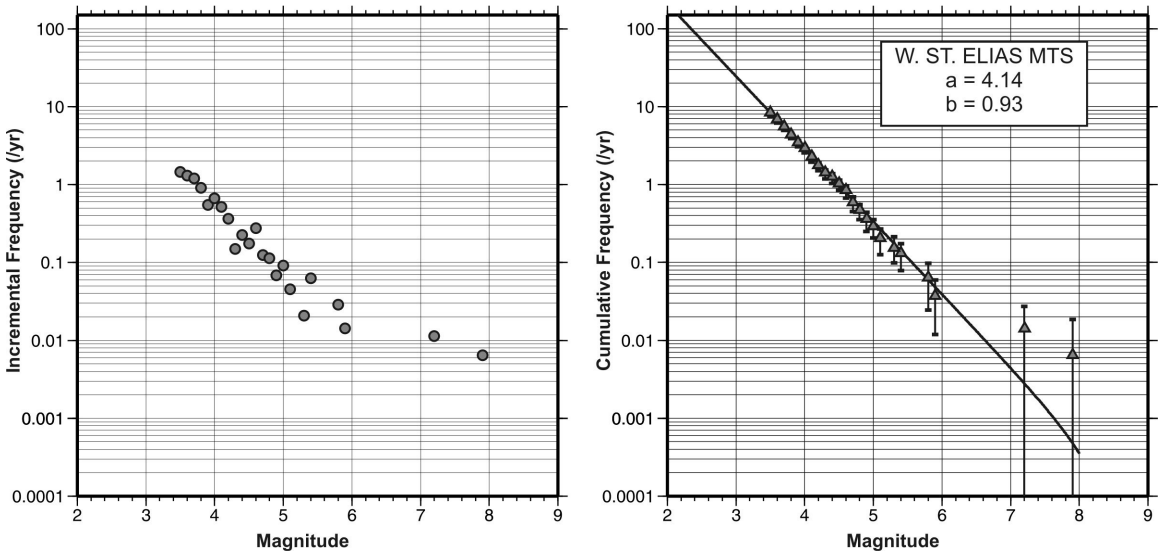



**Figure D20.** W. St. Elias Mountains region: incremental and cumulative frequency distribution.

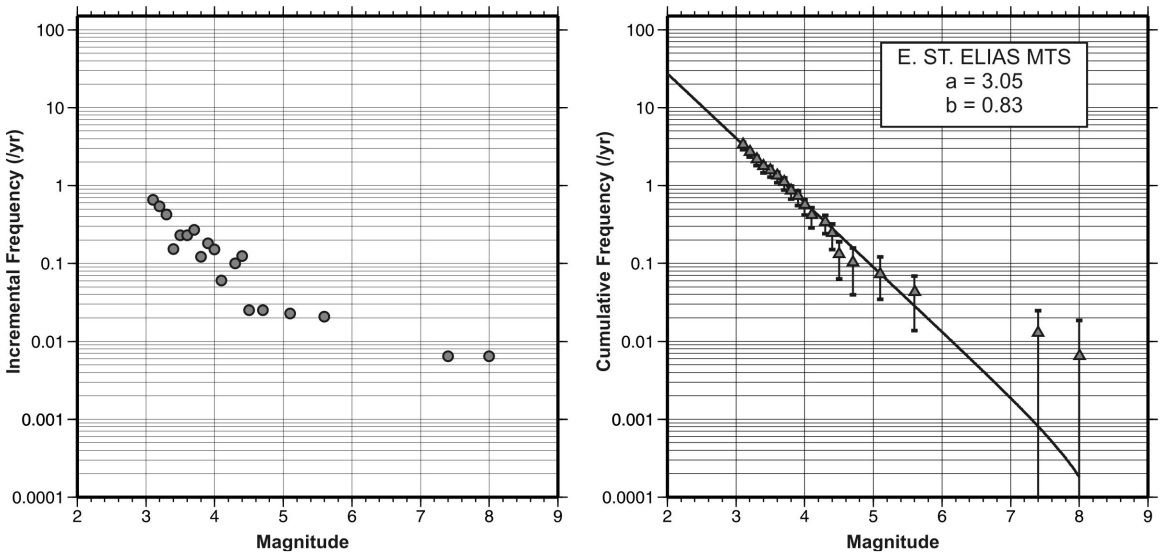



**Figure D21.** E. St. Elias Mountains region: incremental and cumulative frequency distribution.

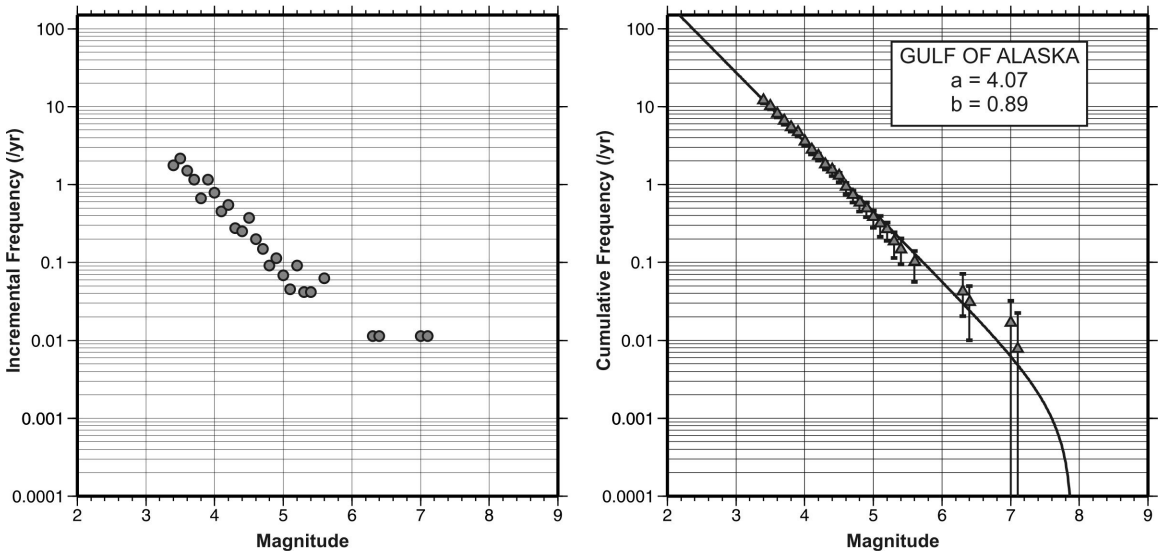



**Figure D22.** Gulf of Alaska region: incremental and cumulative frequency distribution.

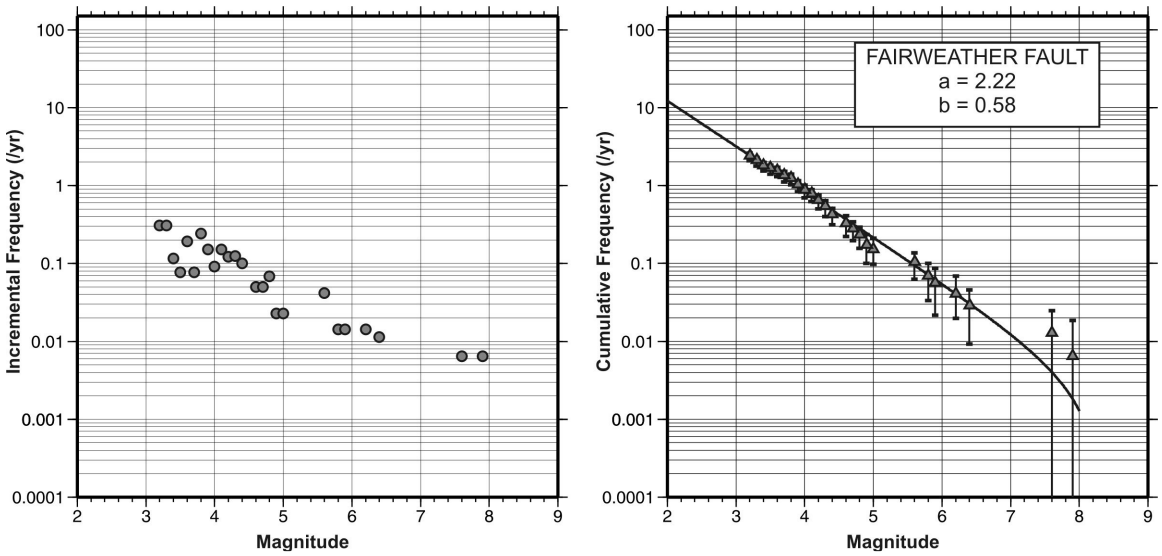



**Figure D23.** Fairweather fault region: incremental and cumulative frequency distribution.

**Table D1.** Magnitude intervals of completeness used for each region.

| Regions | Date | Complete Magnitude Detection Limit |
|---|---|---|
| Beaufort Sea, | 1899 | 7.2 |
| Richardson Mts, | 1917 | 6.3 |
| Brooks Range, | 1935 | 5.8 |
| | 1951 | 5.3 |
| | 1962 | 4.8 |
| | 1965 | 3.8 |
| | 1969 | 3.3 |
| | 1982 | 3.0 |
| Mackenzie Mts, | 1899 | 7.2 |
| Dawson thrust | 1917 | 6.3 |
| | 1935 | 5.8 |
| | 1951 | 5.3 |
| | 1962 | 4.8 |
| | 1965 | 3.8 |
| | 1969 | 3.3 |
| | 1982 | 3.2 |
| Tintina fault, | 1917 | 6.3 |
| Yukon Flats, | 1935 | 5.8 |
| Fairbanks, | 1951 | 5.3 |
| Denali F, Alaska | 1961 | 4.8 |
| | 1965 | 4.3 |
| | 1972 | 3.8 |
| | 1979 | 3.0 |
| St. Elias Mts, | 1850 | 7.3 |
| Denali F, Yukon, | 1917 | 6.3 |
| Duke River F, | 1935 | 5.8 |
| S. Alaska Range, | 1957 | 5.3 |
| Gulf of Alaska, | 1961 | 4.8 |
| Fairweather F | 1965 | 4.3 |
| | 1972 | 3.8 |
| | 1979 | 3.0 |

# APPENDIX E

## Cascadia Buried Soil Data

**Table E1.** Depth of 1700 horizon and estimated 1700 Cascadia coseismic subsidence.

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source[1] | Means of estimation |
|---|---|---|---|---|---|
| **VANCOUVER ISLAND** | | | | | |
| **Deserted Lake, Hisnit Inlet, Nootka Sound** | | | | | |
| 49.767 | 126.5 | | 0.1 ± 0.4[3] | 1 | diatoms in lake core |
| **Port Alberni** | | | | | |
| 49.259 | 124.813 | 0.29 | 0 ± 0.5[4] | 2 | pm[2] ac; pm bc (via 2.8 cm sd) |
| 49.257 | 124.821 | 0.56 | 0 ± 0.5[4] | 2 | pm ac; pm bc (via 5.6 cm sd) |
| 49.256 | 124.823 | 0.67 | 0 ± 0.5[4] | 2 | pm ac; pm bc (via 7 cm sd) |
| 49.254 | 124.821 | 0.56 | 0.3 ± 0.5[4] | 2 | pm ac; Triglochin, mp bc (via 2.5 cm sd) |
| 49.254 | 124.838 | 0.4 | 0 ± 0.5[4] | 2 | pm ac; pm bc (via 5 cm sd) |
| 49.253 | 124.814 | 0.59 | 0 ± 0.5[4] | 2 | pm ac; pm bc (via 1.8 cm sd) |
| 49.251 | 124.835 | 0.35 | 0.3 ± 0.5[4] | 2 | pm ac; Triglochin, mp bc (via 3.5 cm sd) |
| 49.25 | 124.833 | | 0 ± 0.5 | 2 | Triglochin, mp ac; Triglochin, mp bc |
| 49.2495 | 124.831 | 0.26 | 0 ± 0.5[4] | 2 | pm ac; pm bc (via 1.8 cm sd) |
| **Tofino area** | | | | | |
| 49.15 | 125.866 | 0.34 | 0.55 ± 0.25 | 3 | sd, om ac; mp bc. Foraminifera: QFA |
| 49.148 | 125.857 | 0.27 | | 4 | |
| 49.117 | 125.872 | 0.32 | | 4 | |
| 49.113 | 125.877 | 0.19 | | 4 | |
| 49.105 | 125.817 | 0.22 | | 4 | |
| 49.101 | 125.826 | 0.5 | 0.55 ± 0.55[5] | 4 | TS. Juncus, pm ac; Carex, rm bc |
| 49.098 | 125.853 | 0.27 | 0.71 ± 0.3 | 3,5 | foraminifera: Q-mode factor analysis |
| 49.097 | 125.848 | 0.3 | | 4 | |
| 49.097 | 125.846 | 0.3 | 0.5 ± 0.3 | 6 | pm, umm pollen ac; p, fet pollen bc |
| 49.095 | 125.844 | 0.3 | 0.69 ± 0.3 | 6 | pm, lm pollen ac; p, hm pollen bc (via 3 cm sd) |
| 49.095 | 125.843 | 0.26 | 0.65 ± 0.3 | 6 | pm, lmm pollen ac; p, hhm pollen bc (via ~ 2cm sd) |
| 49.09 | 125.73 | 0.17 | | 4 | |
| 49.077 | 125.747 | 0.2 | | 4 | |
| 48.952 | 125.57 | 0.15 | | 4 | |
| 48.948 | 125.568 | 0.13 | | 4 | |
| **WASHINGTON** | | | | | |
| **Quinault River** | | | | | |
| 47.346 | 47.346 | | 0 ± 0.5 | 7 | Carex, rm ac; Carex, rm bc |
| **Copalis River Estuary** | | | | | |
| 47.127 | 124.162 | | 0.95 ± 0.55[6] | 8 | Triglochin, rm ac; Distichlis, mp bc |
| 47.12 | 124.162 | 0.95 | 1.45 ± 0.65[7] | 9 | Triglochin, pm/rm ac; Spruce, Western red cedar, p bc |
| 47.117 | 124.167 | | 1.7 ± 0.5[8] | 8 | Triglochin, rm ac; Spruce, p bc |
| **Grays Harbour** | | | | | |
| 47.038 | 124.03 | | 2.0 ± 0.4 | 8 | m ac; Spruce, mp bc |
| 46.996 | 124.136 | | 1.65 ± 0.55[8] | 10 | rm ac; mp bc |
| 46.994 | 124.139 | | 1.75 ± 0.45[5] | 10 | rm ac; Spruce, pm bc |
| 46.978 | 123.775 | | 1.85 ± 0.4[6] | 10 | TS. rm ac; Spruce, pm bc |
| 46.975 | 123.778 | | 2.05 ± 0.35[6] | 8 | m ac; Spruce, mp bc |
| 46.975 | 123.778 | | 1.85 ± 0.4[6] | 11 | rm, 8% org, 22% fr. diatoms ac; Spruce, pm, 43% org, 66% fr. diatoms bc |
| 46.945 | 123.723 | | 1.9 ± 0.4[6] | 8 | m ac; Spruce, pm bc |
| 46.943 | 123.732 | | 1.5 ± 0.4[5] | 8 | Carex, rm ac; Spruce, pm bc |
| 46.9 | 123.985 | | 1.65 ± 0.35[7] | 8 | m ac; Potentilla, pm bc |
| 46.895 | 123.987 | | 1.65 ± 0.45[8] | 11 | rm, 9% org, 8% fr. diatoms ac; p, 56% org, 52% fr. diatoms bc |
| 46.891 | 123.849 | 0.69 | 0.85 ± 0.3 | 12 | pollen, diatoms, forams: TWINSPAN and DCA analysis |
| 46.891 | 123.892 | 0.66 | | 12 | |
| 46.89 | 123.985 | | 1.65 ± 0.35[8] | 8 | m ac; Potentilla, mp bc |
| 46.888 | 123.869 | 0.6 | | 12 | |
| 46.886 | 123.835 | 0.39 | | 12 | |
| **Willapa Bay** | | | | | |
| 46.702 | 123.831 | 0.75 | | 13 | |
| 46.678 | 123.774 | 0.45 | | 13 | |
| 46.67 | 123.733 | | 1.8 ± 0.5[6] | 8 | Carex, rm ac; Spruce, pm bc |
| 46.668 | 123.807 | 0.58 | | 13 | |
| 46.631 | 123.919 | 1.06 | | 13 | |
| 46.631 | 123.917 | 0.55 | 1 ± 0.4[4] | 14 | tf diatoms ac; hm diatoms bc |
| 46.63 | 123.909 | 0.97 | | 13 | |
| 46.629 | 123.907 | 0.75 | 1.2 ± 0.4[6] | 14 | tf diatoms ac; Spruce roots bc |
| 46.628 | 123.905 | 0.95 | | 14 | |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 46.628 | 123.963 | | 2.05 ± 0.45[6] | 8 | Triglochin, rm ac; Spruce, p bc |
| 46.628 | 123.91 | | 2.0 ± 0.5 | 8 | m ac; Spruce, pm bc |
| 46.622 | 123.902 | 1.2 | | 13 | |
| 46.621 | 123.899 | 0.95 | 1.3 ± 0.5[4] | 14 | tf/ lowest lm diatoms ac; Spruce bc |
| 46.613 | 123.898 | | 1.8 ± 0.5[6] | 8 | Triglochin, rm ac; Spruce, pm bc |
| 46.612 | 123.892 | 0.75 | 1.3 ± 0.5[4] | 14 | tf/ lowest lm diatoms ac; Spruce bc |
| 46.611 | 123.893 | 0.95 | | 13 | |
| 46.596 | 124.038 | | 1.75 ± 0.5[9] | 7 | rm ac; mp bc |
| 46.582 | 124.023 | | 2.25 ± 0.4[7] | 8 | m ac; Spruce, p bc |
| 46.38 | 124.016 | | 1.75 ± 0.5[9] | 7 | rm ac; mp bc |
| 46.352 | 123.958 | | 2.25 ± 0.4[7] | 8 | m ac; Spruce, p bc |
| **OREGON** | | | | | |
| **Columbia River** | | | | | |
| 46.332 | 123.698 | | 2.15 ± 0.55[6] | 8 | m ac; Spruce, pm bc |
| 46.328 | 123.697 | | 2.15 ± 0.55[6] | 8 | m ac; Spruce, pm bc |
| 46.253 | 123.447 | | 2.15 ± 0.75[8] | 10 | rm ac; pm ac |
| 46.252 | 123.445 | 0.68 | 0.8 ± 0.7[8] | 10,15 | Spruce, pm ac; Spruce, mp bc |
| 46.2315 | 123.585 | 1.26 | | 15 | |
| 46.223 | 123.603 | 1.06 | | 15 | |
| 46.227 | 123.42 | 1 | 0.5 ± 0.4[7] | 10,15 | Scirpus, rm ac; slpm bc |
| 46.222 | 123.423 | 1 | | 15 | |
| 46.203 | 123.862 | 0.66 | | 16 | |
| 46.2 | 123.573 | 1.3 | 2.35 ± 0.65[7] | 10,17 | m ac; Spruce, p bc |
| 46.2 | 123.572 | 1.3 | 2.05 ± 0.65[6] | 10,17 | rm ac; Spruce, mp bc |
| 46.177 | 123.748 | 1.08 | 2.05 ± 0.65[6] | 10 | rm ac; Spruce, mp bc |
| 46.177 | 123.748 | | 1.95 ± 0.65[6] | 10 | rm ac; mp bc |
| 46.177 | 123.75 | 0.9 | 2.05 ± 0.65[6] | 10 | TS. rm ac; Spruce, mp bc |
| 46.175 | 123.748 | 1.1 | | 10 | |
| 46.155 | 123.862 | | 2.05 ± 0.65[8] | 10,16 | rm ac; p bc |
| 46.143 | 123.79 | 0.8 | 1.45 ± 0.75[7] | 10 | slpm ac; Spruce, pm bc |
| 46.14 | 123.273 | 1.04 | | 15 | |
| 46.138 | 123.272 | | 0 ± 0.5 | 10,15 | slpm ac; slpm bc |
| **Necanicum River Estuary** | | | | | |
| 46.005 | 123.915 | 0.7 | | 18 | |
| 46.005 | 123.912 | | 1.1 ± 0.35[6] | 10,18 | TS. rm ac; pm bc |
| 45.995 | 123.912 | 0.62 | | 18 | |
| 45.993 | 123.917 | 0.48 | | 18 | |
| 45.988 | 123.915 | 0.55 | | 18 | |
| 45.988 | 123.913 | | 1.1 ± 0.35[6] | 10,11 | rm, 12% org, 10% fr. diatoms ac; pm, 40% org, 68% fr. diatoms bc |
| 45.984 | 123.918 | 0.78 | | 18 | |
| 45.983 | 123.917 | 0.7 | | 19 | |
| 45.983 | 123.918 | 0.33 | | 18 | |
| 45.982 | 123.92 | 0.91 | | 18 | |
| 45.982 | 123.918 | 0.55 | | 18 | |
| 45.982 | 123.917 | 0.47 | | 18 | |
| 45.982 | 123.918 | 0.7 | | 18 | |
| 45.981 | 123.918 | 1 | | 18 | |
| 45.981 | 123.918 | 0.76 | | 18 | |
| 45.98 | 123.918 | | 0.5 ± 0.5[7] | 10,18 | pm, 20% org ac; mp, 37% org bc |
| 45.898 | 123.953 | 0.64 | | 19 | |
| **Tillamook Bay** | | | | | |
| 45.56 | 123.897 | | 1.1 ± 0.4[6] | 10,11 | TS. slpm ac; shrub roots, mp bc |
| 45.508 | 123.878 | 0.55 | 1.55 ± 0.4[8] | 10,11 | TS. rm, 4% org, 8% fr. diatoms ac; mp, 46% org, 72% fr. diatoms bc |
| 45.495 | 123.93 | 0.43 | 1.55 ± 0.4[8] | 10,11 | rm, 14% org, 0% fr. diatoms ac; pm, 53% org, 60% fr. diatoms bc |
| **Netarts Bay** | | | | | |
| 45.642 | 123.898 | 0.45 | | 10 | |
| 45.508 | 123.882 | 0.55 | | 11 | |
| 45.494 | 123.935 | 0.43 | | 11 | |
| 45.432 | 123.852 | 0.62 | | 11 | |
| 45.418 | 123.935 | | 1.1 ± 0.4[6] | 10,18 | TS. Triglochin, rm, 3% org ac; Juncus, mp, 36% org bc |
| 45.411 | 123.935 | | 0.7 ± 0.6 | 19 | tf/lm pollen, utf/lm diatoms bc; hm pollen, ulm/hm diatoms ac |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 45.398 | 123.93 | | 0.6 ± 0.35[5] | 9,17 | m ac; pm bc |
| 45.38 | 123.966 | 0.56 | 0.4 ± 0.35 | 20 | tf/lm/hm pollen, ulm/hm diatoms bc; hm pollen, hm/backswamp diatoms ac |
| 45.375 | 123.972 | 0.51 | | 21 | |
| 45.372 | 123.963 | 0.5 | | 18 | |
| 45.372 | 123.965 | 0.77 | | 21 | |
| 45.37 | 123.963 | 0.63 | | 18 | |
| 45.369 | 123.957 | 0.73 | | 18 | |
| 45.368 | 123.977 | 0.49 | | 21 | |
| 45.368 | 123.958 | | 1.1 ± 0.4[6] | 10,18 | TS. rm, mostly br. diatoms ac; mp, mostly br. diatoms bc |
| 45.368 | 123.96 | 0.59 | | 18 | |
| 45.368 | 123.963 | 0.56 | | 18 | |
| 45.368 | 123.965 | 0.6 | | 18 | |
| 45.367 | 123.97 | 0.56 | | 22 | |
| 45.367 | 123.965 | | 0.45 ± 0.35[7] | 10,18 | slpm, dominantly fr. diatoms ac; pm, mostly fr., some br. diatoms bc |
| 45.369 | 123.964 | 0.56 | 1.3 ± 0.35[6] | 22 | br./mar. diatoms, 5-10% org (tf) ac; fr./br./mar. diatoms, 13-27% org (very hm) bc |
| 45.367 | 123.966 | 0.5 | | 18 | |
| 45.365 | 123.972 | 0.79 | | 21 | |
| 45.365 | 123.963 | 0.75 | | 18 | |
| **Nestucca Bay** | | | | | |
| 45.211 | 123.943 | 0.73 | | 18 | |
| 45.206 | 123.93 | 0.7 | | 18 | |
| 45.188 | 123.948 | 0.73 | | 18 | |
| 45.187 | 123.95 | 0.75 | | 18 | |
| 45.187 | 123.952 | 0.73 | | 18 | |
| 45.187 | 123.948 | | 0.7 ± 0.5[5] | 10,18 | rm, 10% org ac; pm, 26% org bc |
| 45.187 | 123.947 | | 1.2 ± 0.5[6] | 10,18 | TS. rm ac; mp bc |
| 45.166 | 123.945 | 0.61 | | 18 | |
| 45.163 | 123.943 | 0.6 | | 18 | |
| 45.161 | 123.937 | 0.76 | | 18 | |
| 45.155 | 123.93 | 0.32 | | 18 | |
| 45.154 | 123.928 | 0.93 | | 18 | |
| 45.153 | 123.932 | 0.73 | | 18 | |
| 45.032 | 123.987 | 0.5 | 1.05 ± 0.4[6] | 10 | Triglochin, rm ac; mp bc. |
| **Siletz Bay** | | | | | |
| 44.935 | 123.987 | 0.92 | | 23 | |
| 44.935 | 123.987 | 0.4 | | 23 | |
| 44.931 | 124.003 | 0.85 | | 23 | |
| 44.931 | 124.008 | 0.85 | | 23 | |
| 44.931 | 124.003 | 0.47 | 0.65 ± 0.45[6] | 23 | slpm to barren m ac; pm bc |
| 44.931 | 124.008 | 0.81 | | 23 | |
| 44.93 | 124.008 | 0.85 | | 23 | |
| 44.93 | 124.008 | | 0.75 ± 0.55[5] | 10,11 | rm, 13% org, 14% fr. diatoms ac; pm, 19% org, 58% fr. diatoms bc |
| 44.93 | 124.003 | | 0.65 ± 0.5[8] | 10,23 | rm ac; slpm bc |
| 44.929 | 124.012 | 0.44 | | 23 | |
| 44.929 | 123.999 | 0.81 | | 23 | |
| 44.929 | 123.999 | 0.95 | | 23 | |
| 44.929 | 124.013 | 0.59 | | 23 | |
| 44.929 | 124.013 | 0.51 | | 23 | |
| 44.927 | 124.013 | 0.59 | | 23 | |
| 44.915 | 123.998 | 0.89 | | 23 | |
| 44.918 | 124.012 | | 0.5 ± 0.4[7] | 10,23 | slpm ac; pm bc |
| 44.918 | 123.998 | 0.9 | | 23 | |
| 44.917 | 124.012 | 0.34 | 0.45 ± 0.35[6] | 23 | slpm ac; pm bc |
| 44.912 | 123.999 | 0.5 | | 18 | |
| 44.91 | 124 | 0.91 | | 23 | |
| 44.908 | 124 | | 0.55 ± 0.45[5] | 10,23 | TS. rm ac; pm bc |
| 44.902 | 124.007 | 0.62 | | 23 | |
| 44.901 | 124.027 | 0.61 | 0.65 ± 0.4[6] | 23 | rm ac; pm bc (via 15 cm sd) |
| 44.901 | 124.027 | 0.45 | | 23 | |
| 44.9 | 124.027 | 0.46 | 0.5 ± 0.4[5] | 23 | rm ac; pm bc |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 44.9 | 124.028 | 0.62 | | 18 | |
| 44.9 | 124.027 | 0.46 | 0.52 ± 0.4[5] | 23 | rm ac; pm bc (via 2 cm sd) |
| 44.899 | 124.028 | 0.29 | 0.5 ± 0.4[5] | 23 | rm ac; pm bc |
| 44.898 | 124.028 | 0.4 | 0.5 ± 0.4[5] | 23 | rm ac; pm bc |
| 44.898 | 124.028 | | 0.85 ± 0.35[6] | 10,18,23 | rm ac; mp bc |
| 44.898 | 124.028 | 0.62 | | 18 | |
| 44.898 | 124.03 | 0.57 | 0.55 ± 0.4[6] | 23 | rm ac; pm bc (via 5 cm sd) |
| 44.898 | 124.028 | 0.48 | 0.91 ± 0.3[6] | 23 | rm ac; mp bc (via 1 cm sd) |
| 44.897 | 124.032 | 0.5 | 0.9 ± 0.3[6] | 23 | rm ac; mp bc |
| 44.897 | 124.03 | 0.59 | | 23 | |
| 44.897 | 124.03 | 0.5 | | 23 | |
| 44.897 | 124.028 | | 0.4 ± 0.35[7] | 10,23 | slpm ac; pm bc |
| 44.896 | 124.028 | 0.35 | 0.4 ± 0.3[9] | 23 | slpm ac; pm bc |
| 44.895 | 124.003 | 0.63 | | 18 | |
| 44.895 | 123.998 | | 0.55 ± 0.45[5] | 10,11 | rm, 9% org, 12% fr. diatoms ac; pm, 21% org, 64% fr. diatoms bc |
| 44.894 | 124.028 | 0.39 | 0.5 ± 0.4[5] | 23 | rm ac; pm bc |
| 44.894 | 124.028 | 0.19 | | 18 | |
| 44.893 | 124.028 | 0.4 | | 23 | |
| 44.892 | 124.03 | 0.43 | | 18 | |
| 44.892 | 124.028 | 0.35 | | 23 | |
| 44.891 | 124.003 | 0.8 | | 18 | |
| 44.89 | 124.002 | 0.63 | | 23 | |
| 44.889 | 123.999 | 1.17 | | 18 | |
| 44.889 | 124.003 | 1 | | 23 | |
| 44.888 | 123.998 | 0.55 | | 23 | |
| 44.888 | 123.995 | 0.42 | 0.4 ± 0.3[6] | 23 | pm ac; mp bc |
| 44.888 | 124.005 | 0.8 | | 23 | |
| 44.887 | 123.997 | 0.79 | | 23 | |
| 44.887 | 124.008 | 0.44 | | 23 | |
| 44.887 | 124.007 | 0.72 | | 18 | |
| 44.887 | 123.995 | 0.44 | | 18 | |
| 44.886 | 123.993 | 0.56 | | 23 | |
| 44.885 | 123.995 | 0.75 | 0.6 ± 0.5[7] | 23 | rm ac; pm bc |
| 44.883 | 123.983 | 0.8 | | 23 | |
| **Yaquina Bay** | | | | | |
| 44.633 | 123.92 | 0.38 | | 10 | |
| 44.633 | 123.92 | | 0.5 ± 0.3[5] | 10 | slpm ac; mp bc |
| 44.624 | 124.001 | 0.37 | | 24 | |
| 44.617 | 124.044 | 0.74 | | 24 | |
| 44.613 | 124.041 | 0.72 | 0 ± 0.5 | 10,18,24 | rm, 14% org, mostly br. diatoms ac; rm, 13% org, mostly br. diatoms bc |
| 44.613 | 124.034 | 0.45 | | 24 | |
| 44.61 | 124.042 | 0.73 | | 18 | |
| 44.61 | 124.042 | 0.36 | | 18 | |
| 44.61 | 124.042 | 0.85 | | 18 | |
| 44.608 | 124.042 | | 0.1 ± 0.5[6] | 10,23 | slpm ac; pm bc |
| 44.601 | 124.023 | 0.36 | | 24 | |
| 44.599 | 124.019 | 0.31 | | 24 | |
| 44.597 | 124.021 | 0.4 | | 24 | |
| 44.597 | 123.92 | 0.52 | | 18 | |
| 44.596 | 123.905 | 0.72 | | 18 | |
| 44.596 | 123.92 | 0.52 | | 18 | |
| 44.595 | 123.918 | 0.42 | | 18 | |
| 44.595 | 123.903 | 0.74 | | 18 | |
| 44.595 | 124.009 | 0.31 | | 24 | |
| 44.595 | 123.917 | 0.42 | | 18 | |
| 44.594 | 123.907 | 0.4 | | 18 | |
| 44.593 | 123.91 | 0.9 | | 18 | |
| 44.593 | 124.032 | 0.47 | | 24 | |
| 44.592 | 123.91 | 0.82 | | 18 | |
| 44.592 | 123.91 | 0.6 | | 18 | |
| 44.592 | 124.032 | 0.58 | | 24 | |
| 44.589 | 124.011 | 0.49 | 0.3 ± 0.4[4] | 24 | rm ac, pm bc |
| 44.578 | 124.022 | 0.4 | | 24 | |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 44.577 | 124.006 | 0.47 | 0.5 ± 0.4[4] | 24 | rm ac; mp bc |
| 44.575 | 123.971 | 0.4 | 0.5 ± 0.4[6] | 10,24 | rm ac; mp bc |
| 44.574 | 123.957 | 0.42 | | 18 | |
| 44.573 | 124.008 | 1.12 | | 18 | |
| 44.572 | 123.957 | | 0.3 ± 0.4[9] | 10,18 | rm ac; pm bc |
| 44.572 | 124.01 | 0.75 | | 18 | |
| 44.57 | 124.008 | | 0.1 ± 0.5[6] | 10,18,24 | slpm, mostly br. diatoms ac; pm, mostly br. diatoms bc |
| 44.57 | 124.008 | 0.35 | | 18 | |
| 44.569 | 124.003 | 0.76 | | 18 | |
| 44.568 | 124.007 | 0.72 | | 18 | |
| 44.56 | 124 | 0.8 | | 18 | |
| 44.559 | 124.002 | 0.74 | | 18 | |
| 44.556 | 123.987 | 0.9 | | 18 | |
| **Alsea Bay** | | | | | |
| 44.432 | 124.023 | 0.43 | 0 ± 0.5 | 10,18,25 | TS. mp, 41% org ac; mp, 32% org bc |
| 44.431 | 124.027 | 0.27 | | 18 | |
| 44.423 | 124.028 | 0.71 | | 18 | |
| 44.422 | 124.038 | 0.35 | | 18 | |
| 44.42 | 124.015 | 0.4 | | 18 | |
| 44.419 | 124.015 | 0.34 | | 18 | |
| 44.418 | 124.027 | 0.45 | | 18 | |
| 44.418 | 124.015 | 0.42 | 0.2 ± 0.3[6] | 10,18,25 | mp, 37% org ac; mp, 48% org bc |
| 44.418 | 124.013 | 0.53 | | 18 | |
| 44.418 | 124.035 | 0.65 | | 18 | |
| 44.417 | 124.013 | 0.45 | | 18 | |
| 44.417 | 124.008 | 0.45 | | 18 | |
| 44.415 | 124.04 | 0.4 | | 18 | |
| 44.414 | 123.99 | 0.54 | | 18 | |
| 44.414 | 124.015 | 0.46 | | 18 | |
| 44.413 | 124.015 | | 0.4 ± 0.5[7] | 10,25 | rm ac; slpm bc |
| 44.413 | 123.998 | | 0.75 ± 0.45[8] | 10,25 | pm, 24% org ac; mp, 30% org bc |
| 44.413 | 123.988 | 0.56 | | 18 | |
| 44.413 | 124.018 | 0.33 | | 18 | |
| 44.414 | 124.054 | 0.63 | | 26 | |
| 44.411 | 124.052 | 0.62 | | 26 | |
| 44.409 | 124.055 | 0.6 | | 26 | |
| 44.409 | 124.053 | 0.73 | | 26 | |
| 44.408 | 124 | 0.4 | | 18 | |
| 44.408 | 124.034 | 0.57 | | 26 | |
| 44.408 | 124.039 | 0.53 | | 26 | |
| 44.408 | 124.048 | 0.59 | | 26 | |
| 44.407 | 124.048 | 0.72 | | 26 | |
| 44.407 | 124.043 | 0.55 | | 26 | |
| 44.407 | 124.032 | 0.42 | | 26 | |
| 44.406 | 124.044 | 0.59 | | 26 | |
| 44.405 | 124.038 | 0.7 | | 26 | |
| 44.405 | 124.033 | 0.5 | | 26 | |
| **Siuslaw** | | | | | |
| 44.016 | 123.852 | 1.62 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 44.015 | 123.848 | 0.75 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 44.013 | 123.948 | 0.75 | | 27 | |
| 44.007 | 123.9 | 0.9 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 44.002 | 123.993 | 0.65 | 0.55 ± 0.45[4] | 27 | pm ac; mp bc |
| 44.002 | 123.993 | 0.69 | 0.8 ± 0.5[6] | 10,27 | slpm, mostly br. diatoms ac; mp, mostly br. diatoms bc |
| 44.001 | 123.992 | 1.18 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.996 | 124.068 | | 0 ± 0.5[4] | 27 | m ac; m bc |
| 43.989 | 124.045 | 1.5 | | 27 | |
| 43.987 | 124.077 | 0.94 | 0.5 ± 0.4[6] | 10,27 | mp ac; p bc |
| 43.983 | 124.013 | 0.5 | 0.55 ± 0.45[8] | 10,27 | pm ac; mp bc |
| 43.983 | 124.012 | 0.7 | 1.1 ± 0.5[4] | 27 | m ac; mp bc |
| 43.982 | 124.013 | 1 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.967 | 124.05 | | 0 ± 0.5 | 10,27 | mp, mostly fr., some br. diatoms ac; mp, mostly fr., some br. diatoms bc |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| **Umpqua** | | | | | |
| 43.742 | 124.045 | 1.62 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.734 | 124.094 | 0.84 | 0 ± 0.5 | | pm ac; pm bc ( via 10 cm sd) |
| 43.732 | 124.118 | 0.64 | 0 ± 0.5[4] | 27 | slpm ac; slpm bc (via 7 cm sd) |
| 43.732 | 124.133 | 0.87 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.731 | 124.135 | 1 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.73 | 124.135 | 0.92 | 0.4 ± 0.4[4] | 27 | ms ac; slpm bc |
| 43.729 | 124.135 | 0.85 | 0.4 ± 0.4[4] | 27 | slsm ac; slpm bc |
| 43.729 | 124.025 | 1 | 0.8 ± 0.5[4] | | slpm ac; mp bc |
| 43.712 | 124.122 | | 0.5 ± 0.5[7] | 10,27 | slpm, mostly br. diatoms ac; slpm, mostly br. diatoms bc |
| 43.711 | 124.122 | 0.42 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.708 | 124.112 | 0.65 | 0 ± 0.5[4] | 27 | mp ac; mp (via 4 cm sd) bc |
| 43.705 | 124.07 | | 0 ± 0.5 | 10,27 | p ac; mp bc |
| 43.705 | 124.072 | 0.32 | 0 ± 0.5[4] | 27 | mp ac; mp (via 4cm sd) bc |
| 43.695 | 123.973 | 1.71 | | 27 | |
| 43.694 | 123.973 | 1.7 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.687 | 123.995 | 1.4 | 0.4 ± 0.4[4] | 27 | m ac; slpm bc |
| 43.685 | 124.008 | 0.71 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.682 | 124.002 | 0.72 | 1.1 ± 0.5[4] | 27 | m ac; mp bc |
| 43.682 | 124.002 | 0.72 | 1.1 ± 0.5[4] | 27 | m ac; mp bc |
| 43.679 | 124.085 | 0.81 | 0.5 ± 0.5[7] | 10,27 | slpm ac; pm bc |
| 43.676 | 124.085 | 0.87 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.675 | 124.062 | 1.52 | 0.55 ± 0.45[4] | 27 | m ac; pm (via 4 cm detritus) bc |
| 43.672 | 124.062 | 0.85 | 0.4 ± 0.4[4] | 27 | sm ac; slpsm bc |
| 43.671 | 124.168 | 1.52 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| **Coos Bay** | | | | | |
| 43.498 | 124.127 | 1.25 | | 27 | |
| 43.488 | 124.212 | 0.69 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.487 | 124.217 | 0.4 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.484 | 124.173 | 0.77 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.483 | 124.162 | 0.7 | | 27 | |
| 43.483 | 124.16 | 0.7 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.482 | 124.162 | 0.78 | 0.55 ± 0.45[4] | 27 | pm ac; mp bc |
| 43.481 | 124.162 | 0.91 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.481 | 124.17 | 0.72 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.468 | 124.203 | 0.84 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.467 | 124.193 | 0.43 | 0.6 ± 0.6[4] | 28 | pm, roots, ac; mp, roots bc |
| 43.466 | 124.205 | 0.86 | 0.5 ± 0.5[4] | 27 | slpm ac; pm bc |
| 43.465 | 124.225 | | 0 ± 0.5 | 10,27 | mp ac; mp bc |
| 43.465 | 124.205 | 0.7 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.463 | 124.225 | 0.65 | 0.55 ± 0.45[4] | 27 | pm ac; mp bc |
| 43.431 | 124.168 | 0.58 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.43 | 124.168 | 0.83 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.418 | 124.187 | | 0 ± 0.5 | 10,27 | pm, mostly fr., some br. diatoms ac; pm, mostly br. diatoms bc |
| 43.408 | 124.045 | 1.18 | 0.4 ± 0.4[4] | 27 | m ac; slpm bc |
| 43.406 | 124.23 | 0.97 | 0.55 ± 0.45[4] | 27 | pm bc; mp ac |
| 43.405 | 124.228 | 0.43 | 0.7 ± 0.6[4] | 27 | pm ac; slsp bc |
| 43.398 | 124.072 | 0.98 | 0.8 ± 0.5[4] | 27 | slpm bc; mp ac |
| 43.393 | 124.23 | 0.78 | 0.5 ± 0.5[4] | 27 | slpm bc; pm ac |
| 43.393 | 124.233 | 0.43 | 0 ± 0.5 | | p ac; p bc (oxidised zone) |
| 43.39 | 124.235 | 1.8 | | 27 | |
| 43.386 | 124.083 | 0.82 | 0.9 ± 0.6[4] | 27 | slpm ac; p bc |
| 43.385 | 124.083 | 1 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.37 | 124.103 | 0.59 | 0.4 ± 0.4[4] | 27 | slsm ac; slpm bc |
| 43.368 | 124.105 | | 0 ± 0.5[4] | 27 | pm ac; pm bc |
| 43.365 | 124.137 | 1 | 0.4 ± 0.4[4] | 27 | m ac; slpm bc (via 13.5 cm detritus) |
| 43.36 | 124.125 | 0.9 | 0.4 ± 0.4[4] | 27 | m ac; slpm bc |
| 43.359 | 124.055 | 0.9 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.358 | 124.083 | 0.75 | 0.7± 0.6[4] | 27 | pm ac; p bc |
| 43.358 | 124.083 | 0.6 | 0.4 ± 0.4[4] | 27 | m ac; slpm bc |
| 43.358 | 124.083 | 0.65 | 0 ± 0.5[4] | 27 | no evidence of subsidence in upper 3m: gradual m to pm to p |
| 43.357 | 124.087 | 1.05 | 0.55 ± 0.45[4] | 27 | pm ac; mp bc |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 43.349 | 124.217 | 1 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.348 | 124.208 | 0.57 | 0.5 ± 0.5[7] | 10,27 | slpm ac; pm bc |
| 43.347 | 124.208 | 0.52 | 0.8 ± 0.5[4] | 27 | slpm ac; mp bc |
| 43.347 | 124.088 | 1.2 | | 13 | |
| 43.346 | 124.302 | 0.55 | 1.1± 0.6[4] | 27 | slpm ac; p bc (via 5 cm sd; 15 cm detritus) |
| 43.345 | 124.302 | 0.5 | 1.05 ± 0.6[4] | 27 | slpm ac; p bc (via 10 cm sd; 7 cm detritus) |
| 43.342 | 124.312 | 0.51 | 1.1 ± 0.5[4] | 27 | m ac; mp bc |
| 43.342 | 124.312 | 0.92 | 1.1 ± 0.5[4] | 27 | m ac; mp bc (via 25 cm sd) |
| 43.338 | 124.305 | 0.83 | | 10 | |
| 43.335 | 124.303 | 0.46 | 0.5 ± 0.5[5] | 10 | rm ac; pm bc |
| 43.329 | 124.375 | 0.75 | 1.1 ± 0.5[4] | 27 | sm ac; msp bc |
| 43.329 | 124.373 | 0.6 | 1.1 ± 0.5[4] | 27 | sm ac; msp bc |
| 43.323 | 124.237 | 1.32 | 1.1 ± 0.5[4] | 27 | m ac; mp bc |
| 43.319 | 124.217 | | 0 ± 0.5 | 10,27 | pm ac; pm bc |
| 43.315 | 124.308 | 0.77 | 1.1 ± 0.5[8] | 10,27,29 | m ac; mp bc |
| 43.315 | 124.31 | 0.61 | | 10 | |
| 43.315 | 124.31 | 0.78 | 1.1 ± 0.5[4] | 27,30 | m ac; mp bc |
| 43.315 | 124.308 | 0.79 | | 10 | |
| 43.313 | 124.152 | 0.85 | 0.55 ± 0.45[4] | 27 | m ac; pm bc |
| 43.299 | 124.329 | 0.38 | | 31 | |
| 43.292 | 124.325 | | 0.2 ± 0.5[6] | 10 | rm ac; slpm bc |
| 43.292 | 124.325 | 0.78 | | 10 | |
| 43.288 | 124.318 | 0.49 | | 10 | |
| 43.287 | 124.288 | | 0 ± 0.5 | 10 | rm ac; rm bc |
| 43.285 | 124.287 | 0.76 | | 10 | |
| 43.284 | 124.287 | 0.6 | | 10 | |
| 43.283 | 124.32 | 0.7 | | 10 | |
| 43.282 | 124.532 | 0.36 | | 10 | |
| 43.281 | 124.316 | 0.5 | | 28,32 | |
| 43.281 | 124.32 | 0.79 | | 10 | |
| 43.281 | 124.3161 | 0.6 | | 32 | |
| 43.28 | 124.315 | 0.43 | | 32 | |
| 43.28 | 124.3151 | 0.53 | | 32 | |
| 43.28 | 124.3152 | 0.5 | | 32 | |
| 43.28 | 124.314 | 0.5 | | 32 | |
| 43.28 | 124.314 | 0.44 | | 28,32 | |
| 43.28 | 124.3141 | 0.57 | | 28,32 | |
| 43.28 | 124.3147 | 0.68 | | 32 | |
| 43.28 | 124.3141 | 0.47 | 0.7 ± 0.4 | 28,32 | llm forams and diatoms ac; hm forams and diatoms bc |
| 43.28 | 124.3143 | 0.6 | | 32 | |
| 43.28 | 124.3144 | 0.53 | | 32 | |
| 43.28 | 124.3166 | 0.76 | | 32 | |
| 43.277 | 124.317 | 0.45 | 0.5 ± 0.5[5] | 10,28 | rm ac; pm bc |
| 43.273 | 124.327 | 0.59 | | 10 | |
| **Coquille** | | | | | |
| 43.195 | 124.282 | | 0.2 ± 0.4[6] | 10 | rm ac; slpm bc |
| 43.195 | 124.532 | 0.78 | | 10 | |
| 43.195 | 124.282 | 1 | | 10 | |
| 43.172 | 124.337 | 0.61 | | 10 | |
| 43.168 | 124.34 | | 0.5 ± 0.5[5] | 10 | rm ac; pm bc |
| 43.168 | 124.295 | | 0 ± 0.5 | 10 | pm ac; pm bc |
| 43.168 | 124.34 | 0.58 | | 10 | |
| 43.165 | 124.348 | | 0 ± 0.5 | 10,33 | slpm ac; slpm bc |
| 43.162 | 124.3623 | 0.76 | 1.15 ± 0.75[4] | 34 | m/pm ac; Spruce, p bc |
| 43.161 | 124.348 | | 1.2 ± 0.8[4] | 28 | lm/intertidal m ac; Spruce, p bc |
| 43.158 | 124.368 | 1 | | 33 | |
| 43.148 | 124.389 | 0.57 | 1.05 ± 0.75[4] | 34 | m/pm ac; p bc |
| 43.147 | 124.384 | 0.52 | | 34 | |
| 43.147 | 124.377 | | 0 ± 0.5 | 10,33 | slpm ac; slpm bc |
| 43.144 | 124.395 | 0.62 | 1.05 ± 0.75[4] | 34 | m/p, ac; p bc |
| 43.133 | 124.395 | 0.59 | 0.75 ± 0.65[8] | 10,33 | pm ac; Spruce, p bc |
| 43.1315 | 124.4 | 1 | 0.5 ± 0.5[4] | 33 | slpsm ac; pm bc |
| 43.129 | 124.4 | 0.65 | 0.8 ± 0.5[4] | 33 | slpm ac; mp bc |
| 43.075 | 124.37 | 0.94 | 0.5 ± 0.5[4] | 33 | m/slpm ac; pm bc |
| 43.071 | 124.405 | 0.89 | 0.5 ± 0.5[4] | 33 | slpm ac; pm bc |

**Table E1. (**Continued)

| Latitude (°N) | Longitude (° W) | 1700 horizon depth (m) | Subsidence estimate (m) | Data source | Means of estimation |
|---|---|---|---|---|---|
| 43.028 | 124.405 | 0.99 | 0.95 0.85[4] | 33 | m ac; pm/p bc |
| 43.023 | 124.398 | | 0 ± 0.5[4] | 33 | no evidence of subsidence in upper 3m: gradual m at base to pm to p at top |
| 42.913 | 124.445 | | 0 ± 0.5[4] | 33 | only 2m of core: gradual m at base to pm to mp at top |
| 42.746 | 124.478 | | 0 ± 0.5[4] | 33 | upper 4 m all mp |
| **CALIFORNIA** | | | | | |
| **Clam Beach** | | | | | |
| 40.93 | 124.12 | | - 0.5 ± 0.5[10] | 35 | Uplifted marine terrace, beach sediment covered by sequences of dunes with weak soils on top (developed between events) |
| **Humboldt Bay** | | | | | |
| 40.899 | 124.126 | 0.84 | 0.4 ± 0.35[4] | 36 | Triglochin, m/pm ac; Spruce, p bc |
| 40.898 | 124.126 | 0.97 | 0.4 ± 0.35[4] | 36 | Triglochin, m/pm ac; Spruce, p bc |
| 40.895 | 124.127 | 0.91 | 0.4 ± 0.35[4] | 36 | Triglochin, m/pm ac; Spruce, p bc |
| 40.885 | 124.136 | 1.02 | | 36 | |
| 40.878 | 124.139 | 1.32 | | 36 | |
| 40.873 | 124.142 | 1.21 | | 36 | |
| 40.87 | 124.148 | | 0.8 ± 0.5[6] | 35-37 | Salicornia, Mili. Fusca (foram), rm ac; Grindelia, mp bc |
| 40.869 | 124.147 | 1.31 | 0.26 ± 0.3[4] | 36 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.865 | 124.146 | 0.93 | | 36 | |
| 40.865 | 124.149 | 1.14 | 0.26 ± 0.3[4] | 36 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.863 | 124.15 | 1.29 | | 36 | |
| 40.859 | 124.152 | 1.06 | | 36 | |
| 40.856 | 124.153 | 1.15 | | 36 | |
| 40.85 | 124.077 | | 0 ± 0.5 | 36 | m ac; m bc |
| 40.845 | 124.08 | | 1.05 ± 0.75[6] | 10 | m ac; p bc |
| 40.827 | 124.15 | 1.29 | 0.26 ± 0.3[4] | 36 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.803 | 124.135 | | 1.05 ± 0.75[6] | 10 | m ac; p bc |
| 40.698 | 124.207 | | 0 ± 0.5 | 10 | m ac; m bc |
| 40.677 | 124.215 | | 0.95 ± 0.65[6] | 10 | m ac; mp bc |
| **Eel River** | | | | | |
| 40.658 | 124.303 | | 0 ± 0.5 | 38 | m ac; m bc |
| 40.617 | 124.323 | | 0.4 ± 0.5[4] | 38 | pm ac; mp bc |
| **Cape Mendocino: Singley Flat** | | | | | |
| 40.427 | 124.403 | | - 0.5 ± 0.5[10] | 39,40 | no direct evidence for terrace from 1700 event, but series of Holocene platforms many km long, youngest dated 610-955 yrs BP, overlain by debris flow deposit (240-465 yrs BP) which may correlate with 1700 EQ. No. of platforms is a min. no. of possible events. |

[1] Data sources: 1, Hutchinson et al., 2000; 2, Clague and Bobrowsky, 1994b; 3, Guilbault et al., 1996; 4, Clague and Bobrowsky, 1994a; 5, Guilbault et al., 1995; 6, Hughes et al., 2002; 7, Peterson et al., 2000; 8, Atwater, 1988; 9, Atwater, 1992; 10, Peterson et al., 1997; 11, Barnett, 1997; 12, Shennan et al., 1996; 13, Atwater and Hemphill-Haley, 1997; 14, Hemphill-Haley, 1995; 15, Atwater 1994; 16, Peterson et al., 1993; 17, Peterson and Madin, 1997; 18, Darienzo, 1991; 19, Gallaway et al., 1992; 20, Shennan et al., 1998; 21, Peterson and Darienzo, 1988; 22, Darienzo and Peterson, 1990; 23, Peterson et al., 1996; 24, Peterson and Priest, 1995; 25, Peterson and Darienzo, 1996; 26, Peterson and Darienzo, 1991; 27, Briggs, 1994; 28, Nelson, 1992; 29, Darienzo and Peterson, 1995; 30, Peterson and Darienzo, 1989; 31, Nelson et al., 1998; 32, Nelson et al., 1996; 33, Briggs and Peterson, 1993; 34, Witter et al., 1997; 35, Carver and Burke, 1989; 36, Vick, 1988; 37, Jacoby et al., 1995; 38, Li, 1992; 39, Carver et al., 1994; 40, Merritts, 1996; [2] Abbreviations: ac, above 1700 contact; bc, below 1700 contact; p, peat; m, mud; sd, sand; mp, muddy peat; pm, peaty mud; slpm, slightly peaty mud; rm, rooted mud; slsp, slightly sandy peat; msp, muddy sandy peat; ms, muddy sand; sm, sandy mud; slsm, slightly sandy mud; slspm, slightly sandy peaty mud; fet, forest edge transition; hhm, higher high marsh; hm, high marsh; umm, upper middle marsh; lmm, lower middle marsh; lm, low marsh; ulm, upper low marsh; llm, lower low marsh; utf, upper tidal flat; tf, tidal flat; TS, tectonic subsidence; QFA, Q-mode factor analysis; org, organics; fr., freshwater; br., brackish; mar., marine; [3] Substantially less than 0.5 m; some subsidence indicated by presence of marine/brackish diatoms above 1700 tsunami layer; [4] New subsidence estimate; [5] Reinterpretation to < 0.5 m lower than previously published estimate; [6] Reinterpretation to ≤ 0.2 m different from published estimate; [7] Reinterpretation to < 0.5 m higher than published estimate; [8] Reinterpretation to > 0.5 m higher than published estimate; [9] Reinterpretation to > 0.5 m lower than published estimate; [10] Uplift of unknown amount indicated; 0.5 m is arbitrarily assigned.

**Table E2.** Estimated coseismic subsidence for Cascadia buried soils.

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source[1] | Means of estimation |
|---|---|---|---|---|---|---|
| **VANCOUVER ISLAND** | | | | | | |
| **Deserted Lake, Hisnit Inlet, Nootka Sound** | | | | | | |
| 49.767 | 126.5 | | 1 | 0.1 ± 0.4 | 1 | diatoms in lake core |
| **Port Alberni** | | | | | | |
| 49.259 | 124.813 | 5 | 1 | 0 ± 0.5 | 2 | pm[2] ac; pm bc (via 2.8 cm sd) |
| 49.257 | 124.821 | 7 | 1 | 0 ± 0.5 | 2 | pm ac; pm bc (via 5.6 cm sd) |
| 49.256 | 124.823 | 8 | 1 | 0 ± 0.5 | 2 | pm ac; pm bc (via 7 cm sd) |
| 49.254 | 124.821 | 9 | 1 | 0.3 ± 0.5 | 2 | pm ac; Triglochin, mp bc (via 2.5 cm sd) |
| 49.254 | 124.838 | 2 | 1 | 0 ± 0.5 | 2 | pm ac; pm bc (via 5 cm sd) |
| 49.253 | 124.814 | 10 | 1 | 0 ± 0.5 | 2 | pm ac; pm bc (via 1.8 cm sd) |
| 49.251 | 124.835 | 3 | 1 | 0.3 ± 0.5 | 2 | pm ac; Triglochin, mp bc (via 3.5 cm sd) |
| 49.25 | 124.833 | | 1 | 0 ± 0.5 | 2 | Triglochin, mp ac; Triglochin, mp bc |
| 49.2495 | 124.831 | 4 | 1 | 0 ± 0.5 | 2 | pm ac; pm bc (via 1.8 cm sd) |
| **Tofino area** | | | | | | |
| 49.15 | 125.866 | | 1 | 0.55 ± 0.25 | 3 | sd, om ac; mp bc. Foraminifera: QFA |
| 49.101 | 125.826 | 5 | 1 | 0.55 ± 0.55 | 4 | TS. Juncus, pm ac; Carex, rm bc |
| 49.098 | 125.853 | | 1 | 0.71 ± 0.3 | 3,5 | foraminifera: Q-mode factor analysis. |
| 49.097 | 125.846 | | 1 | 0.5 ± 0.3 | 6 | pm, umm pollen ac; p, fet pollen bc |
| 49.095 | 125.844 | | 1 | 0.69 ± 0.3 | 6 | pm, lm pollen ac; p, hm pollen bc (via 3 cm sd) |
| 49.095 | 125.843 | | 1 | 0.65 ± 0.3 | 6 | pm, lmm pollen ac; p, hhm pollen bc (via ~ 2cm sd) |
| **WASHINGTON** | | | | | | |
| **Quinault River** | | | | | | |
| 47.346 | 47.346 | | 1 | 0 ± 0.5 | 7 | Carex, rm ac; Carex, rm bc |
| **Copalis River Estuary** | | | | | | |
| 47.127 | 124.162 | | 1 | 0.95 ± 0.55 | 8 | Triglochin, rm ac; Distichlis, mp bc |
| 47.12 | 124.162 | | 1 | 1.45 ± 0.65 | 9 | Triglochin, pm/rm ac; Spruce, Western red cedar, p bc |
| 47.117 | 124.167 | Co-m | 1 | 1.7 ± 0.5 | 8,9 | Triglochin, rm ac; Spruce, p bc |
| | | | 2 | 0.8 ± 0.5 | 8,9 | m ac; Carex (?), pm bc |
| | | | 3 | 1.7 ± 0.5 | 8,9 | Carex (?), rm ac; p bc |
| | | | 4 | 0.6 ± 0.5 | 8,9 | m ac; Triglochin, rm/pm bc |
| **Grays Harbour** | | | | | | |
| 47.038 | 124.03 | | 1 | 2 ± 0.4 | 8 | m ac; Spruce, mp bc |
| 46.996 | 124.136 | | 1 | 1.65 ± 0.55 | 10 | rm ac; mp bc |
| 46.994 | 124.139 | | 1 | 1.75 ± 0.45 | 10 | rm ac; Spruce, pm bc |
| 46.978 | 123.775 | | 1 | 1.85 ± 0.4 | 10 | TS. rm ac; Spruce, pm bc |
| 46.975 | 123.778 | | 1 | 2.05 ± 0.35 | 8 | m ac; Spruce, mp bc |
| 46.975 | 123.778 | | 1 | 1.85 ± 0.4 | 11 | rm, 8% org, 22% fr. diatoms ac; Spruce, pm, 43% org, 66% fr. diatoms bc |
| 46.945 | 123.723 | W11 | 1 | 1.9 ± 0.4 | 8 | m ac; Spruce, pm bc |
| | | | 2 | 1.9 ± 0.4 | 8 | m ac; Spruce, pm bc |
| | | | 3 | 1.65 ± 0.4 | 8 | rm ac; Spruce, pm bc |
| | | | 4 | 0.1 ± 0.5 | 8 | m/rm ac; m bc |
| | | | 5 | 1.5 ± 0.4 | 8 | Carex, rm ac; Spruce, pm bc |
| 46.943 | 123.732 | W12 | 1 | 1.5 ± 0.4 | 8 | Carex, rm ac; Spruce, pm bc |
| | | | 2 | 1.3 ± 0.6 | 8 | m ac; pm, unidentified herbaceous plants bc |
| | | | 3 | 1.5 ± 0.4 | 8 | Carex, rm ac; Spruce (?), p bc |
| | | | 4 | 0.1 ± 0.5 | 8 | Carex, m/rm ac; m bc |
| 46.9 | 123.985 | | 1 | 1.65 ± 0.35 | 8 | m ac; Potentilla, pm bc |
| 46.895 | 123.987 | | 1 | 1.65 ± 0.45 | 11 | rm, 9% org, 8% fr. diatoms ac; p, 56% org, 52% fr. diatoms bc |
| 46.891 | 123.849 | | 1 | 0.85 ± 0.3 | 12 | pollen, diatoms, forams; TWINSPAN and DCA analysis |
| | | | 2 | 0.55 ± 0.4 | 12 | |
| | | | 3 | 0.98 ± 0.53 | 12 | |
| | | | 4 | 0.35 ± 0.3 | 12 | |
| | | | 5 | 1.13 ± 0.53 | 12 | |
| | | | 6 | 1.13 ± 0.53 | 12 | |
| | | | 7 | 1.93 ± 0.48 | 12 | |
| | | | 8 | 0.63 ± 0.48 | 12 | |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 46.89 | 123.985 | | 1 | 1.65 ± 0.35 | 8 | m ac; Potentilla, mp bc |
| | | | 2 | 0.1 ± 0.5 | 8 | m ac; m bc |
| | | | 3 | 1.65 ± 0.4 | 8 | rm ac; Spruce, p bc |
| | | | 4 | 0.1 ± 0.5 | 8 | m ac; m bc |
| | | | 5 | 1.45 ± 0.35 | 8 | Triglochin, rm ac; Potentilla, Deschampsia, p bc |
| **Willapa Bay** | | | | | | |
| 46.67 | 123.733 | | 1 | 1.8 ± 0.5 | 8 | Carex, rm ac; Spruce, pm bc |
| | | | 2 | 0.1 ± 0.5 | 8 | Carex, m/rm ac; m bc |
| | | | 3 | 1.8 ± 0.5 | 8 | Carex, rm ac; Spruce, pm bc |
| | | | 4 | 1.25 ± 0.85 | 8 | m ac; pm bc |
| | | | 5 | 1.8 ± 0.5 | 8 | Carex, rm ac; Spruce, pm bc |
| | | | 6 | 1.8 ± 0.5 | 8 | Carex, rm ac; Spruce, pm bc |
| | | | 7 | 1.15 ± 0.75 | 8 | Carex (?), m ac; pm bc |
| | | | 8 | 1.15 ± 0.75 | 8 | Carex (?), m ac; pm bc |
| 46.631 | 123.917 | | 1 | 1 ± 0.4 | 13 | tf diatoms ac; hm diatoms bc |
| 46.629 | 123.907 | | 1 | 1.2 ± 0.4 | 13 | tf diatoms diatoms ac; Spruce roots bc |
| 46.628 | 123.963 | | 1 | 2.05 ± 0.45 | 8 | Triglochin, rm ac; Spruce, p bc |
| 46.628 | 123.91 | | 1 | 2 ± 0.5 | 8 | m ac; Spruce, pm bc |
| 46.621 | 123.899 | | 1 | 1.3 ± 0.5 | 13 | tf/ lowest lm ac; Spruce bc |
| 46.613 | 123.898 | | 1 | 1.8 ± 0.5 | 8 | Triglochin, rm ac; Spruce, pm bc |
| | | | 2 | 1.2 ± 0.6 | 8 | m ac; pm/m bc |
| | | | 3 | 2.2 ± 0.4 | 8 | Triglochin, m ac; pm bc |
| 46.612 | 123.892 | | 1 | 1.3 ± 0.5 | 13 | tf/ lowest lm ac; Spruce bc |
| 46.596 | 124.038 | | 1 | 1.75 ± 0.5 | 7 | rm ac; mp bc |
| 46.582 | 124.023 | | 1 | 2.25 ± 0.4 | 8 | m ac; Spruce, p bc |
| | | | 2 | 0.1 ± 0.5 | 8 | m ac; m bc |
| | | | 3 | 2.1 ± 0.4 | 8 | rm ac; Spruce, p bc |
| | | | 4 | 1.2 ± 0.6 | 8 | m ac; pm bc |
| | | | 5 | 2.25 ± 0.4 | 8 | m ac; Spruce, p bc |
| | | | 6 | 1.15 ± 0.75 | 8 | Triglochin, m ac; pm bc |
| 46.38 | 124.016 | | 1 | 1.75 ± 0.5 | 7 | rm ac; mp bc |
| 46.352 | 123.958 | | 1 | 2.25 ± 0.4 | 8 | m ac; Spruce, p bc |
| | | | 2 | 1.8 ± 0.5 | 8 | m ac; Spruce, pm/m bc |
| | | | 3 | 0.1 ± 0.5 | 8 | Triglochin, m ac; m bc |
| | | | 4 | 1.5 ± 0.5 | 8 | Triglochin, rm ac; pm bc |
| **OREGON** | | | | | | |
| **Columbia River** | | | | | | |
| 46.332 | 123.698 | | 1 | 2.15 ± 0.55 | 8 | m ac; Spruce, pm bc |
| 46.328 | 123.697 | | 1 | 2.15 ± 0.55 | 8 | m ac; Spruce, pm bc |
| 46.253 | 123.447 | | 1 | 2.15 ± 0.75 | 10 | rm ac; pm ac |
| 46.252 | 123.445 | | 1 | 0.8 ± 0.7 | 10,14 | Spruce, pm ac; Spruce, mp bc |
| 46.227 | 123.42 | | 1 | 0.5 ± 0.4 | 10,14 | Scirpus, rm ac; slpm bc |
| 46.2 | 123.573 | | 1 | 2.35 ± 0.65 | 10,16 | m ac; Spruce, p bc |
| 46.2 | 123.572 | | 1 | 2.05 ± 0.65 | 10,16 | rm ac; Spruce, mp bc |
| 46.177 | 123.748 | | 1 | 2.05 ± 0.65 | 10 | rm ac; Spruce, mp bc |
| 46.177 | 123.748 | | 1 | 1.95 ± 0.65 | 10 | rm ac; mp bc |
| 46.177 | 123.75 | | 1 | 2.05 ± 0.65 | 10 | TS. rm ac; Spruce, mp bc |
| 46.155 | 123.862 | | 1 | 2.05 ± 0.65 | 10,15 | rm ac; p bc |
| 46.143 | 123.79 | | 1 | 1.45 ± 0.75 | 10 | slpm ac; Spruce, pm bc |
| 46.138 | 123.272 | | 1 | 0 ± 0.5 | 10,14 | slpm ac; slpm bc |
| **Necanicum River Estuary** | | | | | | |
| 46.005 | 123.912 | | 1 | 1.1 ± 0.35 | 10,17 | TS. rm ac; pm bc |
| 45.988 | 123.913 | | 1 | 1.1 ± 0.35 | 10,11 | rm, 12% org, 10% fr. diatoms ac; pm, 40% org, 68% fr. diatoms bc |
| | | | 2 | 0.5 ± 0.5 | 10,11 | pm ac; mp bc |
| | | | 3 | 1 ± 0.5 | 10,11 | rm ac; mp bc |
| 45.981 | 123.918 | | 1 | 0.6 ± 0.5 | 27 | pm ac; mp bc (via 7 cm sd) |
| | | | 2 | 0.1 ± 0.5 | 27 | pm ac; pm bc (via 4 cm sd) |
| | | | 3 | 0.1 ± 0.5 | 27 | pm ac; pm bc (via5 cm sd) |
| | | | 4 | 1.2 ± 0.5 | 27 | m ac; mp bc |
| 45.98 | 123.918 | | 1 | 0.5 ± 0.5 | 10,17 | pm, 20% org ac; mp, 37% org bc |
| **Tillamook Bay** | | | | | | |
| 45.56 | 123.897 | | 1 | 1.1 ± 0.4 | 10,11 | TS. slpm ac; shrub roots, mp bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 45.508 | 123.878 | FP | 1 | 1.55 ± 0.4 | 10,11 | TS. rm, 4% org, 8% fr. diatoms ac; mp, 46% org, 72% fr. diatoms bc. |
| | | | 2 | 0.85 ± 0.4 | 11 | rm ac; pm bc |
| 45.495 | 123.93 | | 1 | 1.55 ± 0.4 | 10,11 | rm, 14% org, 0% fr. diatoms ac; pm, 53% org, 60% fr. diatoms bc. |
| **Netarts Bay** | | | | | | |
| 45.418 | 123.935 | | 1 | 1.1 ± 0.4 | 10,17 | TS. Triglochin, rm, 3% org ac; Juncus, mp, 36% org bc |
| 45.411 | 123.935 | OF | 1 | 0.7 ± 0.6 | 19 | tf/lm pollen, utf/lm diatoms ac; hm pollen, ulm/hm diatoms bc |
| | | | 2 | 0.33 ± 0.33 | 19 | lm pollen, utf/lm diatoms ac; lm pollen, utf/lm diatoms bc |
| | | | 3 | 0.5 ± 0.5 | 19 | lm/hm pollen, utf/lm/hm diatoms ac; lm pollen, utf/lm/hm diatoms bc |
| | | | 4 | 0.56 ± 0.56 | 19 | tf/lm pollen, utf/lm/hm diatoms ac; tf/lm pollen, utf/lm/hm diatoms bc |
| 45.398 | 123.93 | | 1 | 0.6 ± 0.35 | 9,16 | m ac; pm bc |
| 45.38 | 123.966 | NB2 | 1 | 0.4 ± 0.35 | 20 | tf/lm/hm pollen, ulm/hm diatoms bc; hm pollen, hm/backswamp diatoms ac |
| 45.368 | 123.958 | | 1 | 1.1 ± 0.4 | 10,17 | TS. rm, mostly br. diatoms ac; mp, mostly br. diatoms bc |
| 45.367 | 123.965 | | 1 | 0.45 ± 0.35 | 10,17 | slpm, dominantly fr. diatoms ac; pm, mostly fr., some br. diatoms bc |
| 45.369 | 123.964 | | 1 | 1.3 ± 0.35 | 40 | br./mar. diatoms, 5-10% org (tf) ac; fr./br./mar. diatoms, 13-27% org (very hm) bc |
| | | | 2 | 0.4 ± 0.4 | 40 | m, br./mar. diatoms, 4-9% org ac; pm, br./mar. diatoms, 4-13.7% org bc |
| | | | 3 | 1.2 ± 0.3 | 40 | m/slpm, br./mar. diatoms, 3.8-8.3% org ac; pm, fr./br./mar. diatoms, 5-22% org bc |
| | | | 4 | 1.3 ± 0.5 | 40 | m/pm, br./mar. diatoms, 3.8-12% org ac; p/mp, fr./br./mar. diatoms, 10-52% org bc |
| | | | 5 | 1.2 ± 0.3 | 40 | m, br./mar. diatoms, 5% org ac; mp/pm, fr. diatoms, 27% org bc |
| | | | 6 | 0.65 ± 0.65 | 40 | m, fr. diatoms, 15% org ac; pm, fr. diatoms, 29% org bc |
| | | | 7 | 1.1 ± 0.4 | 40 | m, br./mar. diatoms, 7% org ac; p/pm, br./mar. diatoms, 17% org bc |
| **Nestucca Bay** | | | | | | |
| 45.187 | 123.948 | | 1 | 0.7 ± 0.5 | 10,17 | rm, 10% org ac; pm, 26% org bc |
| 45.187 | 123.947 | | 1 | 1.2 ± 0.5 | 10,17 | TS. rm ac; mp bc |
| 45.032 | 123.987 | | 1 | 1.05 ± 0.4 | 10 | Triglochin, rm ac; mp bc. |
| see ref. | | Hurliman 2 | 1 | 1 ± 0.5 | 18 | slpm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 3 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 5 | 1.3 ± 0.5 | 18 | m ac; mp bc |
| | | | 6 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 7 | 1 ± 0.5 | 18 | slpm ac; mp bc |
| | | | 8 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 9 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 10 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| see ref. | | Hurliman 3 | 1 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| | | | 2 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 4 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| | | | 5 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Hurliman 4 | 1 | 0.15 ± 0.4 | 18 | m ac; rm bc (via 6 cm sd) |
| | | | 2 | 0.4 ± 0.4 | 18 | m ac; slpm bc (via 8 cm sd) |
| | | | 3 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Duck 3 | 1 | 0.9 ± 0.5 | 18 | m ac; pm bc (via 8 cm sd) |
| | | | 2 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Duck 2 | 1 | 0.9 ± 0.5 | 18 | m ac; pm bc (via 8 cm sd) |
| | | | 2 | 0.1 ± 0.4 | 18 | m ac; rm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | Duck 1 | 1 | 1.35 ± 0.5 | 18 | m ac; mp bc (via 5 cm sd) |
| | | | 2 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| | | | 3 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| | | | 4 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| | | | 5 | 0.1 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Nestucca 4 | 1 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| | | | 2 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 3 | 1 ± 0.5 | 18 | slpm ac; mp bc |
| see ref. | | Nestucca 3 | 1 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 2 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| | | | 3 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| see ref. | | Little Nestucca 1 | 1 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 2 | 0.9 ± 0.5 | 18 | slpm ac; pm bc (via 35 cm sd) |
| see ref. | | Little Nestucca 4 | 1 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 4 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 5 | 0.4 ± 0.4 | 18 | m ac; pm bc (via 8 cm sd) |
| | | | 6 | 0.3 ± 0.4 | 18 | m ac; slpm bc |
| see ref. | | Nestucca 2 | 1 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 5 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| | | | 6 | 0.8 ± 0.5 | 18 | m ac; pm bc |
| see ref. | | Little Nestucca 5 | 1 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 2 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 3 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 4 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 5 | 1 ± 0.5 | 18 | slpm ac; mp bc |
| | | | 6 | 1 ± 0.5 | 18 | slpm ac; mp bc |
| | | | 7 | 0.5 ± 0.5 | 18 | slpm ac; pm bc |
| | | | 8 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 9 | 0.5 ± 0.5 | 18 | pm ac; mp bc |
| | | | 10 | 1.3 ± 0.5 | 18 | m ac; mp bc |
| **Siletz Bay** | | | | | | |
| 44.931 | 124.003 | | 1 | 0.65 ± 0.45 | 21 | slpm to barren m ac; pm bc |
| 44.93 | 124.008 | | 1 | 0.75 ± 0.55 | 10,11 | rm, 13% org, 14% fr. diatoms ac; pm, 19% org, 58% fr. diatoms bc |
| 44.93 | 124.003 | | 1 | 0.65 ± 0.5 | 10,21 | rm ac; slpm bc |
| 44.918 | 124.012 | | 1 | 0.5 ± 0.4 | 10,21 | slpm ac; pm bc |
| 44.917 | 124.012 | | 1 | 0.45 ± 0.35 | 21 | slpm ac; pm bc |
| 44.912 | 124.001 | SB33 | 1 | 0.6 ± 0.5 | 21 | rm ac; pm bc |
| | | | 2 | 0.75 ± 0.45 | 21 | m ac; pm bc |
| | | | 3 | 0.6 ± 0.5 | 21 | rm ac; pm bc |
| 44.908 | 124 | | 1 | 0.55 ± 0.45 | 10,21 | TS. rm ac; pm bc |
| 44.901 | 124.027 | | 1 | 0.65 ± 0.4 | 21 | rm ac; pm bc (via 15 cm sd) |
| 44.9 | 124.027 | | 1 | 0.5 ± 0.4 | 21 | rm ac; pm bc |
| 44.9 | 124.027 | | 1 | 0.52 ± 0.4 | 21 | rm ac; pm bc (via 2 cm sd) |
| 44.899 | 124.031 | SB12 | 1 | 1.02 ± 0.4 | 21 | Triglochin, m ac; mp bc (via 2 cm sd) |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| | | | 3 | 0.39 ± 0.3 | 21 | m ac; rm bc (via 4 cm sd) |
| | | | 4 | 0.73 ± 0.4 | 21 | m ac; pm bc (via 3 cm sd) |
| 44.899 | 124.028 | | 1 | 0.5 ± 0.4 | 21 | rm ac; pm bc |
| 44.898 | 124.028 | | 1 | 0.5 ± 0.4 | 21 | rm ac; pm bc |
| 44.898 | 124.028 | | 1 | 0.85 ± 0.35 | 10,17,21 | rm ac; mp bc |
| 44.898 | 124.03 | SB8 | 1 | 0.55 ± 0.4 | 21 | rm ac; pm bc (via 5 cm sd) |
| | | | 2 | 0.3 ± 0.3 | 21 | rm ac; slpm bc |
| | | | 3 | 0.57 ± 0.4 | 21 | Triglochin, rm ac; pm bc (via 7 cm sd) |
| 44.898 | 124.028 | | 1 | 0.91 ± 0.3 | 21 | rm ac; mp bc (via 1 cm sd) |
| | | | 2 | 0.35 ± 0.3 | 21 | m ac; rm bc |
| 44.897 | 124.032 | SB11 | 1 | 0.9 ± 0.3 | 21 | rm ac; mp bc |
| | | | 2 | 0.5 ± 0.4 | 21 | rm ac; pm bc |
| | | | 3 | 0.55 ± 0.3 | 21 | rm ac; slpm bc (via 25 cm sd) |
| | | | 4 | 0.5 ± 0.4 | 21 | rm ac; pm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 44.897 | 124.028 | | 1 | 0.4 ± 0.35 | 10,21 | slpm ac; pm bc |
| 44.896 | 124.028 | SB14 | 1 | 0.4 ± 0.3 | 21 | slpm ac; pm bc |
| | | | 2 | 0.35 ± 0.3 | 21 | m ac; rm bc |
| 44.895 | 123.998 | | 1 | 0.55 ± 0.45 | 10,11 | rm, 9% org, 12% fr. diatoms ac; pm, 21% org, 64% fr. diatoms bc |
| 44.894 | 124.028 | | 1 | 0.5 ± 0.4 | 21 | rm ac; pm bc |
| 44.893 | 124.03 | SB17 | 1 | 0.55 ± 0.3 | 21 | slpm ac; pm bc (via 25 cm sd) |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| | | | 3 | 0.65 ± 0.3 | 21 | m ac; slpm bc (via 25 cm sd) |
| | | | 4 | 0.73 ± 0.4 | 21 | m ac; pm bc (via 3 cm sd) |
| 44.893 | 124.029 | SB18 | 1 | 0.43 ± 0.3 | 21 | pm ac; mp bc (via 3 cm sd) |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| 44.891 | 124.005 | SB44 | 1 | 0.35 ± 0.3 | 21 | rm ac; slpm bc |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| 44.89 | 123.999 | SB45 | 1 | 0.35 ± 0.3 | 21 | m ac; rm bc |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| | | | 3 | 0.43 ± 0.3 | 21 | rm ac; slpm bc (via 8 cm sd) |
| 44.888 | 123.996 | SB48 | 1 | 0.45 ± 0.35 | 21 | slpm ac; pm bc |
| | | | 2 | 0.4 ± 0.3 | 21 | m ac; slpm bc |
| | | | 3 | 0.42 ± 0.3 | 21 | rm ac; slpm bc (via 7 cm sd) |
| | | | 4 | 0.67 ± 0.5 | 21 | rm ac; pm bc (via 7 cm sd) |
| | | | 5 | 0.35 ± 0.3 | 21 | rm ac; slpm bc |
| | | | 6 | 0.82 ± 0.45 | 21 | Triglochin, m ac; pm bc (via 7 cm sd) |
| 44.888 | 123.995 | | 1 | 0.4 ± 0.3 | 21 | pm ac; mp bc |
| 44.885 | 123.995 | | 1 | 0.6 ± 0.5 | 21 | rm ac; pm bc |
| **Yaquina Bay** | | | | | | |
| 44.633 | 123.92 | | 1 | 0.5 ± 0.3 | 10 | slpm ac; mp bc |
| 44.624 | 124.001 | YB-9 | 1 | 0.3 ± 0.5 | 22 | slpm ac; pm bc (via 5 cm sd) |
| | | | 2 | 0.6 ± 0.5 | 22 | rm ac; p bc (via 4 cm sd) |
| | | | 3 | 0.3 ± 0.4 | 22 | rm ac; pm bc |
| | | | 4 | 0.25 ± 0.5 | 22 | slpm ac; pm bc (via 3 cm sd) |
| | | | 5 | 0.4 ± 0.3 | 22 | slpm ac; mp bc |
| 44.613 | 124.041 | HF-1 | 1 | 0 ± 0.5 | 10,17,22 | rm, 14% org, mostly br. diatoms ac; rm, 13% org, mostly br. diatoms bc |
| | | | 2 | 0.2 ± 0.5 | 22 | rm ac; slpm bc (via 12 cm sd) |
| 44.608 | 124.042 | | 1 | 0.1 ± 0.5 | 10,21 | slpm ac; pm bc |
| 44.597 | 124.021 | YB-6 | 1 | 0.25 ± 0.4 | 22 | slpm ac; pm bc (via 2 cm sd) |
| | | | 2 | 0.4 ± 0.3 | 22 | slpm ac; mp bc (via 2 cm sd) |
| 44.595 | 124.009 | YB-10 | 1 | 0.25 ± 0.4 | 22 | slpm ac; pm bc (via 3 cm sd) |
| | | | 2 | 0.4 ± 0.4 | 22 | m ac; rm bc (via 2 cm sd) |
| | | | 3 | 0.3 ± 0.4 | 22 | rm ac; pm bc |
| 44.593 | 124.032 | YB-2 | 1 | 0.1 ± 0.5 | 22 | pm ac; pm bc (via 5 cm sd) |
| | | | 2 | 0.55 ± 0.5 | 22 | slpm ac; p bc |
| 44.589 | 124.011 | YB-11 | 1 | 0.3 ± 0.4 | 22 | rm ac; pm bc |
| | | | 2 | 0.4 ± 0.3 | 22 | slpm ac; mp bc (via 2 cm sd) |
| | | | 3 | 0.4 ± 0.3 | 22 | slpm ac; mp bc |
| | | | 4 | 0.4 ± 0.3 | 22 | slpm ac; mp bc (via 2.5 cm sd) |
| | | | 5 | 0.4 ± 0.3 | 22 | slpm ac; mp bc |
| 44.577 | 124.006 | YB-12 | 1 | 0.5 ± 0.4 | 22 | rm ac; mp bc |
| | | | 2 | 0.4 ± 0.3 | 22 | slpm ac; mp bc |
| 44.575 | 123.971 | | 1 | 0.5 ± 0.4 | 10,22 | rm ac; mp bc |
| 44.572 | 123.957 | | 1 | 0.3 ± 0.4 | 10,17 | rm ac; pm bc |
| 44.57 | 124.008 | | 1 | 0.1 ± 0.5 | 10,17,22 | slpm, mostly br. diatoms ac; pm, mostly br. diatoms bc |
| see ref. | | Slack 1 | 1 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 2 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 3 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 4 | 0.55 ± 0.4 | 18 | rm ac; pm bc (via 25 cm sd) |
| | | | 5 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 6 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 7 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 8 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 9 | 0.6 ± 0.4 | 18 | m ac; slpm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | Slack 3 | 1 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 2 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 3 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 4 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Slack 5 | 1 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 2 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 3 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | Toledo 2 | 1 | 0.25 ± 0.3 | 18 | pm ac; mp bc |
| | | | 2 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| see ref. | | Conser 2 | 1 | 0.25 ± 0.3 | 18 | slpm ac; pm bc |
| | | | 2 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 3 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 4 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| see ref. | | Blind 1 | 1 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 2 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 3 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 4 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | OC1 | 1 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 2 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| see ref. | | Oysterville 1 | 1 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| | | | 2 | 0.6 ± 0.4 | 18 | m ac; slpm bc |
| | | | 3 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| see ref. | | OC 3 | 1 | 0.25 ± 0.3 | 18 | slpm ac; pm bc |
| | | | 2 | 0.85 ± 0.4 | 18 | m ac; pm bc |
| see ref. | | Oysterville 4 | 1 | 0.4 ± 0.4 | 18 | m ac; rm bc |
| | | | 2 | 0.65 ± 0.4 | 18 | m ac; slpm bc (via 5 cm sd) |
| **Alsea Bay** | | | | | | |
| 44.432 | 124.023 | | 1 | 0 ± 0.5 | 10,17,23 | TS. mp, 41% org ac; mp, 32% org bc. |
| 44.418 | 124.015 | | 1 | 0.2 ± 0.3 | 10,17,23 | mp, 37% org ac; mp, 48% org bc |
| 44.413 | 124.015 | | 1 | 0.4 ± 0.5 | 10,23 | rm ac; slpm bc |
| 44.413 | 123.998 | | 1 | 0.75 ± 0.45 | 10,23 | pm, 24% org ac; mp, 30% org bc |
| see ref. | | AB21 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| see ref. | | AB20 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| see ref. | | AB15 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB18 | 1 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB4 | 1 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| see ref. | | AB16 | 1 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB5 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | Triglochin, rm ac; pm bc |
| | | | 5 | 1.35 ± 0.45 | 24 | m ac; mp bc |
| see ref. | | AB11 | 1 | 0.75 ± 0.45 | 24 | pm ac; mp bc |
| | | | 2 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 3 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 4 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 6 | 0.6 ± 0.5 | 24 | m ac; pm bc |
| | | | 7 | 0.45 ± 0.35 | 24 | rm ac; pm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | AB6 | 1 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| see ref. | | AB12 | 1 | 0.75 ± 0.45 | 24 | pm ac; mp bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.35 ± 0.3 | 24 | m ac; slpm bc |
| see ref. | | AB13 | 1 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB19 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB9 | 1 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 5 | 0.35 ± 0.3 | 24 | m ac; slpm bc |
| | | | 6 | 0.35 ± 0.3 | 24 | m ac; slpm bc |
| | | | 7 | 0.6 ± 0.5 | 24 | m ac; pm bc |
| | | | 8 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 9 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 10 | 0.6 ± 0.5 | 24 | m ac; pm bc |
| see ref. | | AB8 | 1 | 0.75 ± 0.45 | 24 | pm ac; mp bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 3 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 4 | 0.35 ± 0.3 | 24 | m ac; slpm bc |
| | | | 5 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 6 | 0.75 ± 0.45 | 24 | pm ac; mp bc |
| | | | 7 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| see ref. | | AB10 | 1 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 5 | 0.6 ± 0.5 | 24 | m ac; pm bc |
| | | | 6 | 0.45 ± 0.35 | 24 | slpm ac; pm bc |
| | | | 7 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 8 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| see ref. | | AB7 | 1 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 2 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 3 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 4 | 0.35 ± 0.3 | 24 | m ac; slpm bc |
| | | | 5 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 6 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| | | | 7 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| see ref. | | AB17 | 1 | 1.15 ± 0.4 | 24 | rm ac; mp bc |
| | | | 2 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 3 | 0.45 ± 0.35 | 24 | rm ac; pm bc |
| | | | 4 | 0.2 ± 0.3 | 24 | rm ac; slpm bc |
| **Siuslaw** | | | | | | |
| 44.016 | 123.852 | 218 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 44.015 | 123.848 | 219 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 3 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| 44.007 | 123.9 | 217 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.9 ± 0.6 | 25 | slpm ac; p bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 44.002 | 123.993 | 216 | 1 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 4 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 5 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| 44.002 | 123.993 | 214 | 1 | 0.8 ± 0.5 | 10,25 | slpm, mostly br. diatoms ac; mp, mostly br. diatoms bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 44.001 | 123.992 | 215 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 3 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| 43.996 | 124.068 | 209 | 1 | 0 ± 0.5 | 25 | m ac; m bc |
| | | | 2 | 1.2 ± 0.6 | 25 | m ac; p bc |
| | | | 3 | 1.2 ± 0.6 | 25 | m ac; p bc |
| 43.987 | 124.077 | 208 | 1 | 0.5 ± 0.4 | 10,25 | mp ac; p bc |
| | | | 2 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| 43.983 | 124.013 | 213 | 1 | 0.55 ± 0.45 | 10,25 | pm ac; mp bc |
| | | | 2 | 0.5 ± 0.5 | 25 | m/slpm ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.983 | 124.012 | 202 | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.982 | 124.013 | 210 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 5 | 0.5 ± 0.5 | 25 | m/slpm ac; pm bc |
| 43.967 | 124.05 | 223 | 1 | 0 ± 0.5 | 10,25 | mp, mostly fr., some br. diatoms ac; mp, mostly fr., some br. diatoms bc |
| | | | 2 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 4 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| see ref. | | SI-09 | 1 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 2 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 3 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 4 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 5 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 6 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| see ref. | | SI-12 | 1 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 2 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 3 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 4 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 5 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 6 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 7 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 8 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| see ref. | | SI-11 | 1 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 2 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 3 | 0.5 ± 0.4 | 26 | mp ac; p bc |
| | | | 4 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 5 | 0.55 ± 0.4 | 26 | mp ac; p bc (via 5 cm sd) |
| **Umpqua** | | | | | | |
| 43.742 | 124.045 | 329 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.734 | 124.094 | | 1 | 0 ± 0.5 | | pm ac; pm bc ( via 10 cm sd) |
| 43.732 | 124.118 | | 1 | 0 ± 0.5 | 25 | slpm ac; slpm bc (via 7 cm sd) |
| 43.732 | 124.133 | | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.731 | 124.135 | | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.73 | 124.135 | | 1 | 0.4 ± 0.4 | 25 | ms ac; slpm bc |
| 43.729 | 124.135 | | 1 | 0.4 ± 0.4 | 25 | slsm ac; slpm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 43.729 | 124.025 | 335 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.712 | 124.122 | | 1 | 0.5 ± 0.5 | 10,25 | slpm, mostly br. diatoms ac; slpm, mostly br. diatoms bc |
| 43.711 | 124.122 | | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.708 | 124.112 | | 1 | 0 ± 0.5 | 25 | mp ac; mp (via 4 cm sd) bc |
| 43.705 | 124.07 | | 1 | 0 ± 0.5 | 10,25 | p ac; mp bc |
| 43.705 | 124.072 | 333 | 1 | 0 ± 0.5 | 25 | mp ac; mp (via 4cm sd) bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.694 | 123.973 | 316 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.687 | 123.995 | 315 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 1.2 ± 0.6 | 25 | m ac; p bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.685 | 124.008 | 323 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.682 | 124.002 | 322 | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.682 | 124.002 | 332 | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.679 | 124.085 | 301 | 1 | 0.5 ± 0.5 | 10,25 | slpm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 5 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.676 | 124.085 | | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.675 | 124.062 | 321 | 1 | 0.55 ± 0.45 | 25 | m ac; pm (via 4 cm detritus) bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 4 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| 43.672 | 124.062 | 320 | 1 | 0.4 ± 0.4 | 25 | sm ac; slpsm bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 3 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 5 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 6 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 7 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| 43.671 | 124.168 | 338 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| see ref. | | 325 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 3 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| see ref. | | SF-06 | 1 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 26 | m ac; pm bc |
| see ref. | | SF-05 | 1 | 0.5 ± 0.5 | 26 | rm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 26 | pm/rm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 26 | rm ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 5 | 0.4 ± 0.4 | 26 | m ac; rm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | SF-03 | 1 | 0.5 ± 0.5 | 26 | rm ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 26 | rm ac; pm bc |
| | | | 3 | 0.4 ± 0.4 | 26 | m ac; rm bc |
| | | | 4 | 0.55 ± 0.45 | 26 | m ac; pm bc |
| | | | 5 | 0.55 ± 0.45 | 26 | m ac; pm bc |
| **Coos Bay** | | | | | | |
| 43.488 | 124.212 | 475 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.487 | 124.217 | 477 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 3 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| 43.484 | 124.173 | 428 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.483 | 124.16 | 448 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 4 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 5 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.482 | 124.162 | | 1 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.481 | 124.162 | 426 | 1 | 0.8 ± 0.5‡ | 25 | slpm ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 4 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| 43.481 | 124.17 | 417 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.468 | 124.203 | 423 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.467 | 124.193 | | 1 | 0.6 ± 0.6 | 26 | pm, roots, ac; mp, roots bc |
| 43.466 | 124.205 | 422 | 1 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 2 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| 43.465 | 124.225 | | 1 | 0 ± 0.5 | 10,25 | mp ac; mp bc |
| 43.465 | 124.205 | | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| 43.463 | 124.225 | 415 | 1 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 2 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.431 | 124.168 | 449 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.43 | 124.168 | 432 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.418 | 124.187 | | 1 | 0 ± 0.5 | 10,25 | pm, mostly fr., some br. diatoms ac; pm, mostly br. diatoms bc |
| 43.408 | 124.045 | 441 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 5 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 6 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.406 | 124.23 | 472 | 1 | 0.55 ± 0.45 | 25 | pm bc; mp ac |
| | | | 2 | 1.2 ± 0.6 | 25 | m ac; p bc |
| | | | 3 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 4 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 5 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| 43.405 | 124.228 | | 1 | 0.7 ± 0.6 | 25 | pm ac; slsp bc |
| 43.398 | 124.072 | 442 | 1 | 0.8 ± 0.5 | 25 | slpm bc; mp ac |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.393 | 124.23 | 420 | 1 | 0.5 ± 0.5 | 25 | slpm bc; pm ac |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 43.393 | 124.233 | 470 | 1 | 0 ± 0.5 | 25 | p ac; p bc (oxidised zone) |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 4 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 5 | 0.8 ± 0.5 | 25 | slpm ac, mp bc |
| | | | 6 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.386 | 124.083 | 444 | 1 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.385 | 124.083 | 443 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.37 | 124.103 | 466 | 1 | 0.4 ± 0.4 | 25 | slsm ac; slpm bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 4 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.368 | 124.105 | 406 | 1 | 0 ± 0.5 | 25 | pm ac; pm bc |
| | | | 2 | 0 ± 0.5 | 25 | pm ac; pm bc |
| 43.365 | 124.137 | 410 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc (via 13.5 cm detritus) |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.36 | 124.125 | 411 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| 43.359 | 124.055 | | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.358 | 124.083 | 407 | 1 | 0.7 ± 0.6‡ | 25 | pm ac; p bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| 43.358 | 124.083 | 464 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.358 | 124.083 | | 1 | 0.5 ± 0.5 | 25 | no evidence of subsidence in upper 3m: gradual m to pm to p |
| 43.358 | 124.083 | 465 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 5 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 6 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 7 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 8 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| 43.357 | 124.087 | 446 | 1 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 0.7 ± 0.6 | 25 | p/pm ac; pm bc |
| | | | 4 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 5 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| 43.349 | 124.217 | | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.348 | 124.208 | | 1 | 0.5 ± 0.5 | 10,25 | slpm ac; pm bc |
| 43.347 | 124.208 | | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| 43.346 | 124.302 | | 1 | 1.1 ± 0.6 | 25 | slpm ac; p bc (via 5 cm sd; 15 cm detritus) |
| 43.345 | 124.302 | | 1 | 1.05 ± 0.6 | 25 | slpm ac; p bc (via 10 cm sd; 7 cm detritus) |
| 43.342 | 124.312 | 403 | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.342 | 124.312 | 404 | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc (via 25 cm sd) |
| | | | 2 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| 43.335 | 124.303 | | 1 | 0.5 ± 0.5 | 10 | rm ac; pm bc |
| 43.329 | 124.375 | 462 | 1 | 1.1 ± 0.5 | 25 | sm ac; msp bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 3 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 4 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 5 | 1.2 ± 0.6 | 25 | m ac; p bc |
| | | | 6 | 1.2 ± 0.6 | 25 | m ac; p bc |
| | | | 7 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| | | | 8 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 9 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| | | | 10 | 0.5 ± 0.5 | 25 | slpm ac; pm bc |
| | | | 11 | 0.7 ± 0.6 | 25 | pm ac; p bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 43.329 | 124.373 | 401 | 1 | 1.1 ± 0.5 | 25 | sm ac; msp bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | pm ac; mp bc |
| | | | 5 | 0.5 ± 0.4 | 25 | mp ac; p bc |
| 43.323 | 124.237 | | 1 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.319 | 124.217 | | 1 | 0 ± 0.5 | 10,25 | pm ac; pm bc |
| 43.315 | 124.308 | 408 | 1 | 1.1 ± 0.5 | 10,25,27 | m ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 5 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| 43.315 | 124.31 | 409 | 1 | 1.1 ± 0.5 | 25,28 | m ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 1.1 ± 0.5 | 25 | m ac; mp bc |
| | | | 5 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.314 | 124.31 | 1,2C | 1 | 0.55 ± 0.45 | 27 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 27 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 27 | m ac; pm bc |
| | | | 4 | 0.65 ± 0.45 | 27 | m ac; pm bc (via 8 cm sd) |
| | | | 5 | 0.45 ± 0.4 | 27 | m ac; slpm bc (via 6 cm sd) |
| | | | 6 | 0.55 ± 0.45 | 27 | m ac; pm bc |
| 43.313 | 124.152 | 412 | 1 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 2 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 3 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 5 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| | | | 6 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| 43.292 | 124.325 | | 1 | 0.2 ± 0.5 | 10 | rm ac; slpm bc |
| 43.287 | 124.288 | | 1 | 0 ± 0.5 | 10 | rm ac; rm bc |
| 43.28 | 124.314 | WC | 1 | 0.7 ± 0.4 | 26,30 | llm forams and diatoms ac; hm forams and diatoms bc |
| | | | 2 | 0.85 ± 0.75 | 30 | m, lm diatoms ac; p, hm diatoms bc |
| | | | 3 | 0.65 ± 0.65 | 30 | m/rm, lm diatoms ac; mp, lm/hm diatoms ac |
| | | | 4 | 0.85 ± 0.75 | 30 | m, lm forams and diatoms ac; mp, hm forams and diatoms bc |
| | | | 5 | 0.95 ± 0.85 | 30 | m, lm forams and diatoms ac; p, hm diatoms, lm forams bc |
| | | | 6 | 0.55 ± 0.45 | 30 | rm, lm diatoms ac; mp, hm diatoms bc |
| | | | 8 | 0.55 ± 0.45 | 30 | m, lm diatoms ac; mp, hm diatoms bc |
| 43.277 | 124.317 | | 1 | 0.5 ± 0.5§ | 10,26 | rm ac; pm bc |
| see ref. | | 421 | 2 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| see ref. | | 425 | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| see ref. | | 433 | 1 | 0.7 ± 0.6 | 25 | pm ac; p bc |
| | | | 2 | 0.55 ± 0.45 | 25 | m ac; pm bc |
| see ref. | | 445 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| see ref. | | 467 | 1 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 2 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 3 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 4 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| see ref. | | 473 | 2 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| | | | 3 | 0.4 ± 0.4 | 25 | m ac; slpm bc |
| see ref. | | 473 | 1 | 0.8 ± 0.5 | 25 | slpm ac; mp bc |
| | | | 2 | 0.9 ± 0.6 | 25 | slpm ac; p bc |
| see ref. | | HI-07 | 1 | 0.55 ± 0.45 | 26 | pm, roots, herbs ac; mp, roots, herbs bc |
| | | | 2 | 0.8 ± 0.5 | 26 | rm ac; mp bc |
| see ref. | | HI-06 | 1 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 26 | m ac; pm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | HI-01 | 1 | 0.5 ± 0.5 | 26 | rm ac; pm bc |
| | | | 2 | 1.1 ± 0.5 | 26 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 26 | m ac; pm bc |
| see ref. | | HI-04 | 1 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 2 | 1.1 ± 0.5 | 26 | m ac; mp bc |
| see ref. | | HI-05 | 1 | 0.7 ± 0.6 | 26 | pm ac; p bc |
| | | | 2 | 1.1 ± 0.5 | 26 | m ac; mp bc |
| see ref. | | NS-06 | 1 | 0.8 ± 0.5 | 26 | rm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 26 | rm ac; mp bc |
| | | | 3 | 0.9 ± 0.6 | 26 | rm ac; p bc |
| see ref. | | NS-01 | 1 | 0.55 ± 0.45 | 26 | pm ac; mp bc |
| | | | 2 | 0.8 ± 0.5 | 26 | rm ac; mp bc |
| | | | 3 | 1.2 ± 0.6 | 26 | m ac; p bc |
| see ref. | | NS-03 | 1 | 0 ± 0.5 | 26 | pm ac; rm/pm bc |
| | | | 2 | 1.1 ± 0.5 | 26 | m ac; mp bc |
| | | | 3 | 1.2 ± 0.6 | 26 | m ac; p bc |
| see ref. | | NS-04 | 1 | 0 ± 0.5 | 26 | pm ac; rm/pm bc |
| | | | 2 | 0.8 ± 0.5 | 26 | rm ac; mp bc |
| | | | 3 | 1.2 ± 0.6 | 26 | m ac; p bc |
| see ref. | | Talbot Creek 2 | 1 | 0.55 ± 0.45 | 29 | m ac; pm bc |
| | | | 2 | 1 ± 0.6 | 29 | m ac; mp/pm bc |
| | | | 3 | 0.5 ± 0.5 | 29 | rm ac; pm bc |
| | | | 4 | 0.4 ± 0.4 | 29 | m ac; rm bc |
| see ref. | | Talbot Creek 4 | 1 | 0.55 ± 0.45 | 29 | pm ac; mp bc |
| | | | 2 | 0.55 ± 0.45 | 29 | m ac; pm bc |
| | | | 3 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| | | | 4 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| | | | 5 | 1.2 ± 0.6 | 29 | m ac; p bc |
| | | | 6 | 1.2 ± 0.6 | 29 | m ac; p bc |
| | | | 7 | 0.55 ± 0.45 | 29 | m ac; pm bc |
| see ref. | | Talbot Creek 6 | 1 | 0.9 ± 0.6 | 29 | rm ac; p bc |
| | | | 2 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| | | | 3 | 0.7 ± 0.6 | 29 | rm/pm ac; mp bc |
| | | | 4 | 0.8 ± 0.5 | 29 | rm ac; mp bc |
| see ref. | | Talbot Creek 3 | 1 | 0.5 ± 0.5 | 29 | rm ac; pm bc |
| | | | 2 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| see ref. | | Talbot Creek 1 | 1 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| | | | 2 | 1.15 ± 0.55 | 29 | m ac; p/mp bc |
| | | | 3 | 1.1 ± 0.5 | 29 | m ac; mp bc |
| | | | 4 | 0.9 ± 0.6 | 29 | rm ac; p bc |
| | | | 5 | 0.9 ± 0.6 | 29 | rm ac; p bc |
| | | | 6 | 0.9 ± 0.6 | 29 | rm ac; p bc |
| **Coquille River** | | | | | | |
| 43.195 | 124.282 | | 1 | 0.2 ± 0.4 | 10 | rm ac; slpm bc |
| 43.171 | 124.338 | | 2 | 1.35 ± 0.95 | 31 | |
| | | | 3 | 2 ± 1 | 31 | |
| | | | 4 | 1.15 ± 1.15 | 31 | |
| | | | 5 | 1.45 ± 1.05 | 31 | |
| | | | 6 | 1.35 ± 0.95 | 31 | |
| | | | 7 | 1.35 ± 0.95 | 31 | |
| | | | 8 | 1.15 ± 1.15 | 31 | |
| | | | 10 | 1.35 ± 0.95 | 31 | |
| | | | 11 | 0.8 ± 0.8 | 31 | |
| | | | 12 | 0.6 ± 0.6 | 31 | |
| 43.168 | 124.34 | | 1 | 0.5 ± 0.5 | 10 | rm ac; pm bc |
| 43.168 | 124.295 | | 1 | 0 ± 0.5 | 10 | pm ac; pm bc |
| 43.165 | 124.348 | | 1 | 0 ± 0.5 | 10,32 | slpm ac; slpm bc |
| 43.162 | 124.3623 | | 1 | 1.15 ± 0.75 | 33 | m/pm ac; Spruce, p bc |
| 43.161 | 124.348 | | 1 | 1.2 ± 0.8 | 26 | lm/intertidal m ac; Spruce, p bc |
| 43.148 | 124.389 | | 1 | 1.05 ± 0.75 | 33 | m/pm ac; p bc |
| 43.147 | 124.377 | | 1 | 0 ± 0.5 | 10,32 | slpm ac; slpm bc |
| 43.144 | 124.395 | | 1 | 1.05 ± 0.75 | 33 | m/pm ac; p bc |
| 43.133 | 124.395 | 501 | 1 | 0.5 ± 0.4 | 10,32 | pm ac; Spruce, p bc |
| | | | 2 | 0.4 ± 0.4 | 32 | mp ac; p bc |
| | | | 3 | 1.2 ± 0.6 | 32 | m ac; slpm bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| 43.133 | 124.395 | 508 | 1 | 1.2 ± 0.6 | 32 | m ac; p bc |
| | | | 2 | 1.2 ± 0.6 | 32 | m ac; p bc |
| | | | 3 | 1.2 ± 0.6 | 32 | m ac; p bc |
| | | | 4 | 1.2 ± 0.6 | 32 | m ac; p bc |
| 43.1315 | 124.4 | | 1 | 0.5 ± 0.5 | 32 | m ac; p bc |
| 43.129 | 124.4 | | 1 | 0.8 ± 0.5 | 32 | slpm ac; mp bc |
| 43.075 | 124.37 | 605 | 1 | 0.55 ± 0.45 | 32 | m/slpm ac; pm bc |
| | | | 2 | 0.7 ± 0.6 | 32 | pm ac; mp bc |
| | | | 3 | 1.2 ± 0.6 | 32 | pm ac; p bc |
| | | | 4 | 0.55 ± 0.45 | 32 | m ac; p bc |
| | | | 5 | 0.7 ± 0.6 | 32 | m ac; pm bc |
| 43.075 | 124.37 | 607 | 1 | 0.55 ± 0.45 | 32 | pm ac; p bc |
| | | | 2 | 0.55 ± 0.45 | 32 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 32 | m ac; pm bc |
| 43.071 | 124.405 | 601 | 1 | 0.4 ± 0.4 | 32 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 32 | m ac; slpm bc |
| | | | 3 | 0.4 ± 0.4 | 32 | m ac; pm bc |
| | | | 4 | 0.4 ± 0.4 | 32 | m ac; slpm bc |
| 43.071 | 124.405 | 606 | 1 | 0.5 ± 0.5 | 32 | m ac; slpm bc |
| | | | 2 | 0.8 ± 0.5 | 32 | slpm ac; pm bc |
| | | | 3 | 0.5 ± 0.5 | 32 | slpm ac; mp bc |
| 43.028 | 124.405 | 604 | 1 | 1.1 ± 0.5 | 32 | slpm ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 32 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 32 | pm ac; mp bc |
| | | | 4 | 1.2 ± 0.6 | 32 | m ac; pm bc |
| 43.028 | 124.405 | 610 | 1 | 1.2 ± 0.6 | 32 | m ac; p bc |
| | | | 2 | 0.55 ± 0.45 | 32 | m ac; p bc |
| | | | 3 | 0.55 ± 0.45 | 32 | m ac; pm bc |
| | | | 4 | 1.1 ± 0.5 | 32 | pm ac; mp bc |
| | | | 5 | 1.1 ± 0.5 | 32 | m ac; mp bc |
| | | | 6 | 0.55 ± 0.45 | 32 | m ac; mp bc |
| | | | 7 | 0.55 ± 0.45 | 32 | m ac; pm bc |
| 43.023 | 124.398 | 608 | 1 | 0 ± 0.5 | 32 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 32 | only 2m of core: gradual m at base to pm to mp at top |
| | | | 3 | 0.55 ± 0.45 | 32 | m ac; pm bc |
| 42.913 | 124.445 | | 1 | 0 ± 0.5 | 32 | m ac; pm bc |
| 42.746 | 124.478 | | 1 | 0 ± 0.5 | 32 | upper 4 m all mp |
| **CALIFORNIA** | | | | | | |
| **Clam Beach** | | | | | | |
| 40.93 | 124.12 | | 1 | - 0.5 ± 0.5 | 34 | Uplifted marine terrace, beach sediment covered by sequences of dunes with weak soils on top (developed between events) |
| **Humboldt Bay** | | | | | | |
| 40.899 | 124.126 | | 1 | 0.4 ± 0.35 | 35 | Triglochin, m/pm ac; Spruce, p bc |
| 40.898 | 124.126 | | 1 | 0.4 ± 0.35 | 35 | Triglochin, m/pm ac; Spruce, p bc |
| 40.895 | 124.127 | | 1 | 0.4 ± 0.35 | 35 | Triglochin, m/pm ac; Spruce, p bc |
| 40.87 | 124.148 | | 1 | 0.8 ± 0.5 | 34-36 | Salicornia, Mili. Fusca (foram), rm ac; Grindelia, mp bc |
| 40.869 | 124.147 | | 1 | 0.26 ± 0.3 | 35 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.865 | 124.149 | | 1 | 0.26 ± 0.3 | 35 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.85 | 124.077 | | 1 | 0 ± 0.5 | 35 | m ac; m bc |
| 40.845 | 124.08 | | 1 | 1.05 ± 0.75 | 10 | m ac; p bc |
| 40.827 | 124.15 | | 1 | 0.26 ± 0.3 | 35 | Triglochin, m/pm ac; Grindelia, p bc |
| 40.803 | 124.135 | | 1 | 1.05 ± 0.75 | 10 | m ac; p bc |
| 40.698 | 124.207 | | 1 | 0 ± 0.5 | 10 | m ac; m bc |
| 40.677 | 124.215 | | 1 | 0.95 ± 0.65 | 10 | m ac; mp bc |
| **Eel River** | | | | | | |
| 40.658 | 124.303 | | 1 | 0 ± 0.5 | 37 | m ac; m bc |
| 40.617 | 124.323 | | 1 | 0.4 ± 0.5 | 37 | pm ac; mp bc |
| see ref. | | ER-VC-11 | 1 | 0.7 ± 0.6 | 37 | pm ac; p/mp bc |
| | | | 2 | 0.8 ± 0.5 | 37 | rm ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 4 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 5 | 1.05 ± 0.75 | 37 | m/rm ac; p/mp bc |

**Table E2. (**Continued)

| Latitude (deg. N) | Longitude (deg. W) | Core #/ Data pt. | Soil # (below surface) | Estimated subsidence (m) | Data source | Means of estimation |
|---|---|---|---|---|---|---|
| see ref. | | ER-VC-10 | 1 | 0.55 ± 0.45 | 37 | pm ac; mp bc |
| | | | 2 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| see ref. | | ER-VC-06 | 2 | 1.05 ± 0.75 | 37 | m ac; p bc |
| | | | 3 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 4 | 0.55 ± 0.45 | 37 | pm ac; mp bc |
| | | | 5 | 1.05 ± 0.75 | 37 | m ac; p bc |
| | | | 6 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| see ref. | | ER-VC-07 | 1 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 2 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 3 | 1.05 ± 0.75 | 37 | m ac; p bc |
| | | | 4 | 1.05 ± 0.75 | 37 | m ac; p bc |
| see ref. | | ER-VC-08 | 1 | 1.05 ± 0.75 | 37 | m ac; p bc |
| | | | 2 | 1.05 ± 0.75 | 37 | m ac; p bc |
| | | | 3 | 1.05 ± 0.75 | 37 | m ac; p bc |
| see ref. | | ER-VC-09 | 2 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 3 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 4 | 0.7 ± 0.6 | 37 | pm ac; p bc |
| see ref. | | ER-VC-13 | 4? | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 5 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 6 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| see ref. | | ER-VC-04 | 2? | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 5 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 6 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| see ref. | | ER-VC-15 | 2? | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 3 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 4 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 5 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 6 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 7 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 8 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| see ref. | | ER-VC-16 | 2? | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 3 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 4 | 1 ± 0.7 | 37 | m ac; weak p bc |
| | | | 5 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 6 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| see ref. | | ER-VC-17 | 2? | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 3 | 1 ± 0.7 | 37 | m ac; weak p bc |
| | | | 4 | 1 ± 0.7 | 37 | m ac; weak p bc |
| | | | 5 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 6 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 7 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 8 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| see ref. | | ER-VC-18 | 3? | 1 ± 0.7 | 37 | m ac; weak p bc |
| | | | 4 | 0.95 ± 0.65 | 37 | m ac; mp bc |
| | | | 5 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 6 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 7 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| | | | 8 | 0.55 ± 0.45 | 37 | m ac; pm bc |
| **Cape Mendocino: Singley Flat** | | | | | | |
| 40.427 | 124.403 | | 1 | - 0.5 ± 0.5 | 38,39 | no direct evidence for terrace from 1700 event, but series of Holocene debris flow deposits (240-465 yrs BP) may correlate with 1700 EQ. 1992 CM EQ 22km long thrust, prob. Subsidiary to megathrust, uplift up to 1.4m. # platforms is a min. # of possible events. |

[1] Data sources: 1, Hutchinson et al., 2000; 2, Clague and Bobrowsky, 1994b; 3, Guilbault et al., 1996; 4, Clague and Bobrowsky, 1994a; 5, Guilbault et al., 1995; 6, Hughes et al., 2002; 7, Peterson et al., 2000; 8, Atwater, 1988; 9, Atwater, 1992; 10, Peterson et al., 1997; 11, Barnett, 1997; 12, Shennan et al., 1996; 13, Hemphill-Haley, 1995; 14, Atwater 1994; 15, Peterson et al., 1993; 16, Peterson and Madin, 1997; 17, Darienzo, 1991; 18, Darienzo et al., 1994; 19, Gallaway et al., 1992; 20, Shennan et al., 1998; 21, Peterson et al., 1996; 22, Peterson and Priest, 1995; 23, Peterson and Darienzo, 1996; 24, Peterson and Darienzo, 1991; 25, Briggs, 1994; 26, Nelson, 1992; 27, Darienzo and Peterson, 1995; 28, Peterson and Darienzo, 1989a; 29, Nelson et al., 1998b; 30, Nelson et al., 1996b;

31, Witter ete al., 2003; 32, Briggs and Peterson, 1993; 33, Witter et al., 1997; 34, Carver and Burke, 1989; 35, Vick, 1988; 36, Jacoby et al., 1995; 37, Li, 1992; 38, Carver et al., 1994; 39, Merritts, 1996; 40, Darienzo and Peterson, 1990; [2] Abbreviations: ac, above 1700 contact; bc, below 1700 contact; p, peat; m, mud; sd, sand; mp, muddy peat; pm, peaty mud; slpm, slightly peaty mud; rm, rooted mud; slsp, slightly sandy peat; msp, muddy sandy peat; ms, muddy sand; sm, sandy mud; slsm, slightly sandy mud; slspm, slightly sandy peaty mud; fet, forest edge transition; hhm, higher high marsh; hm, high marsh; umm, upper middle marsh; lmm, lower middle marsh; lm, low marsh; ulm, upper low marsh; llm, lower low marsh; utf, upper tidal flat; tf, tidal flat; TS, tectonic subsidence; QFA, Q-mode factor analysis; org, organics; fr., freshwater; br., brackish; mar., marine.