Appendix C Results using Appendix D Hypocenter Distribution Model

C.1 STRIKE–SLIP RUPTURE RESULTS

C.1.1 Changes in the Mean of the Log Normal 5% Damped Pseudo-Spectral Acceleration

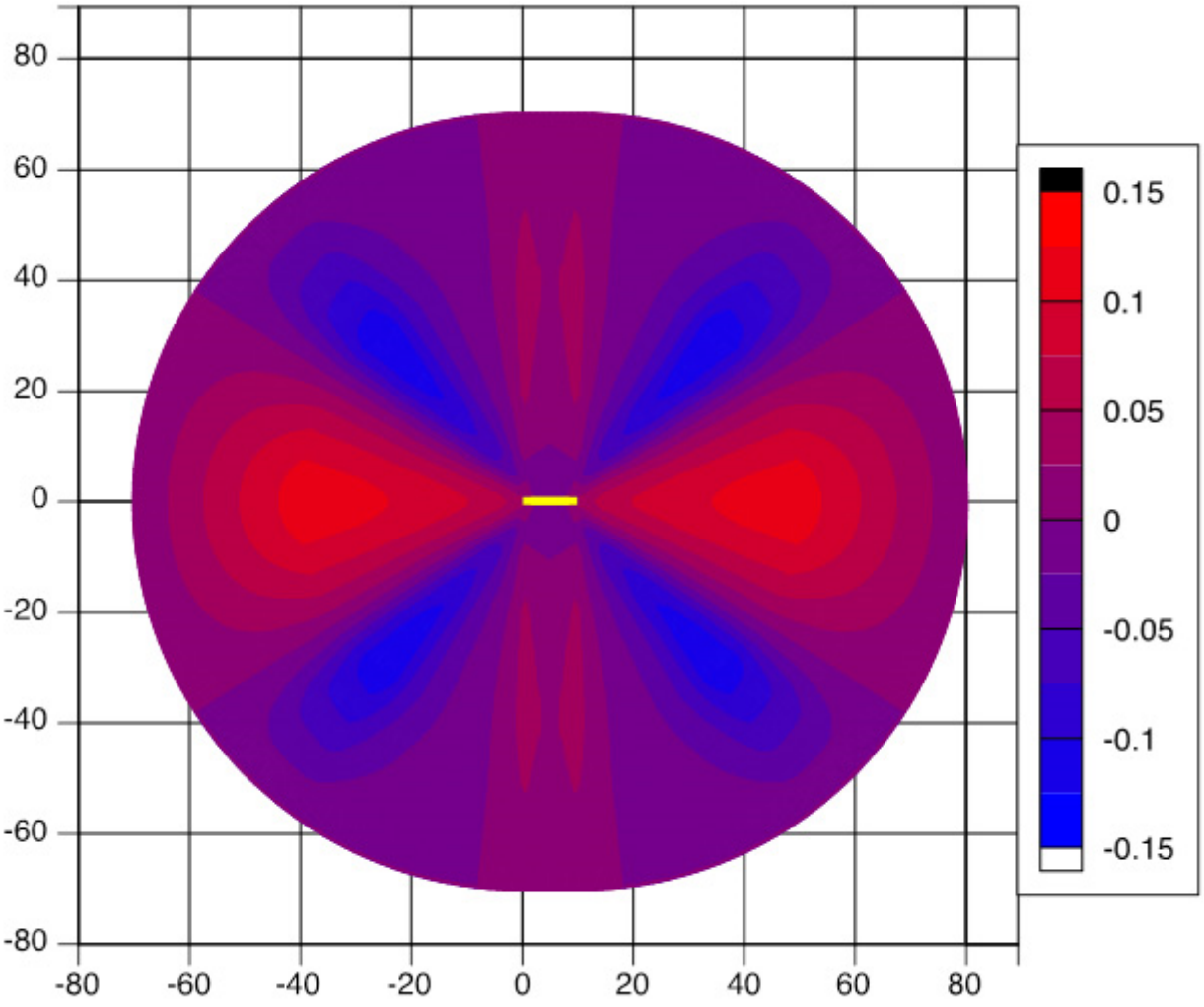

Figure C.1 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

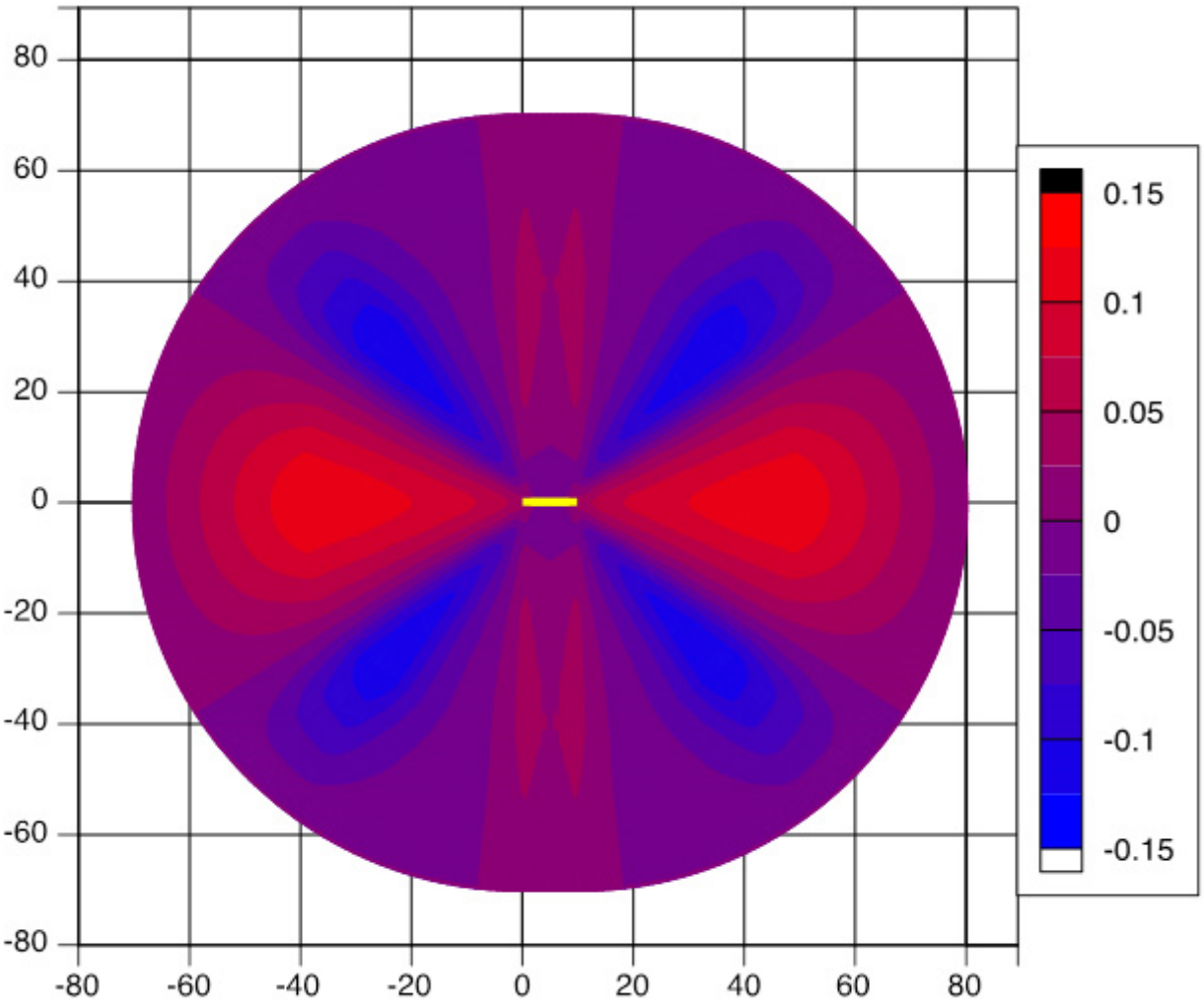

Figure C.2 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

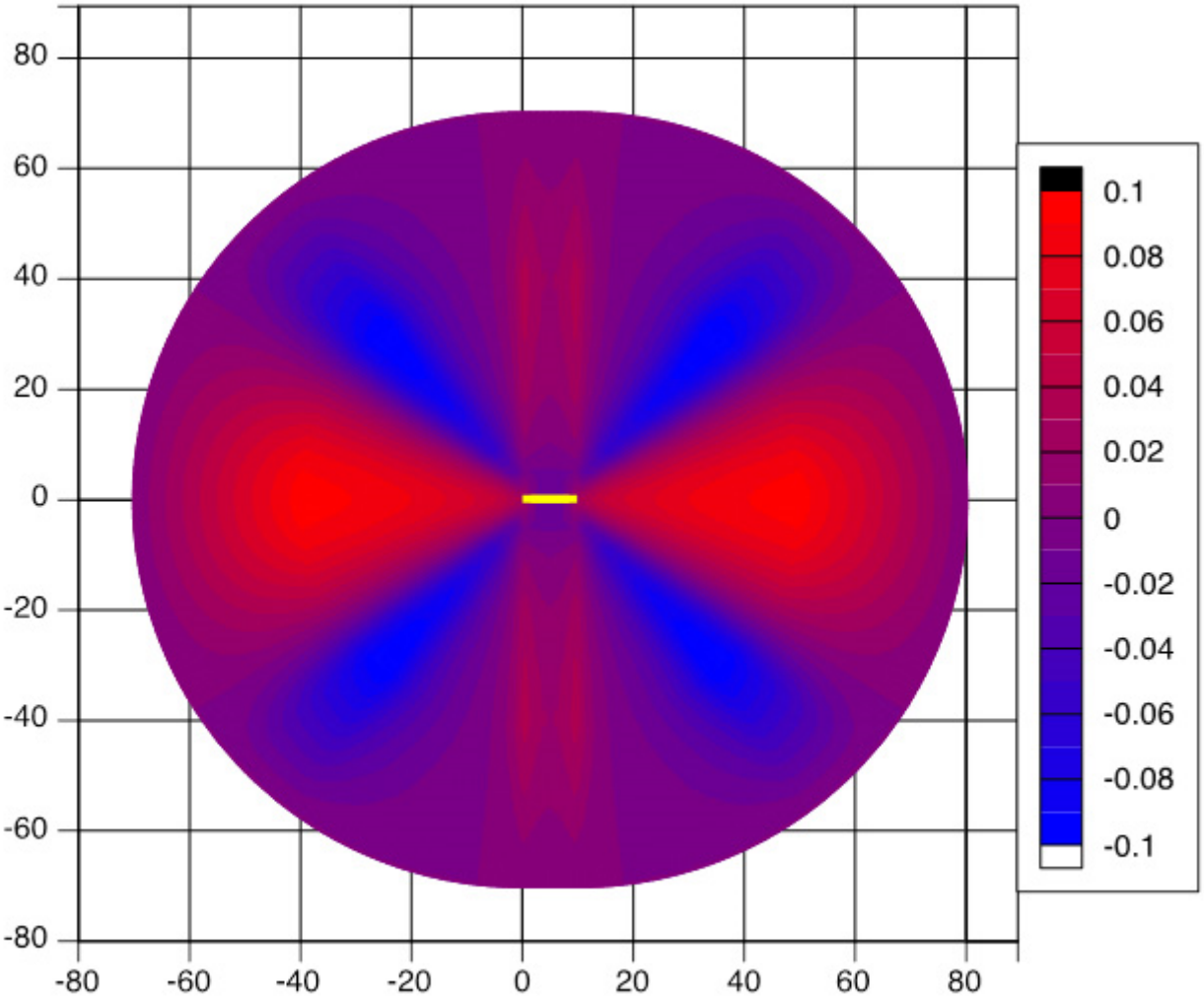

Figure C.3 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

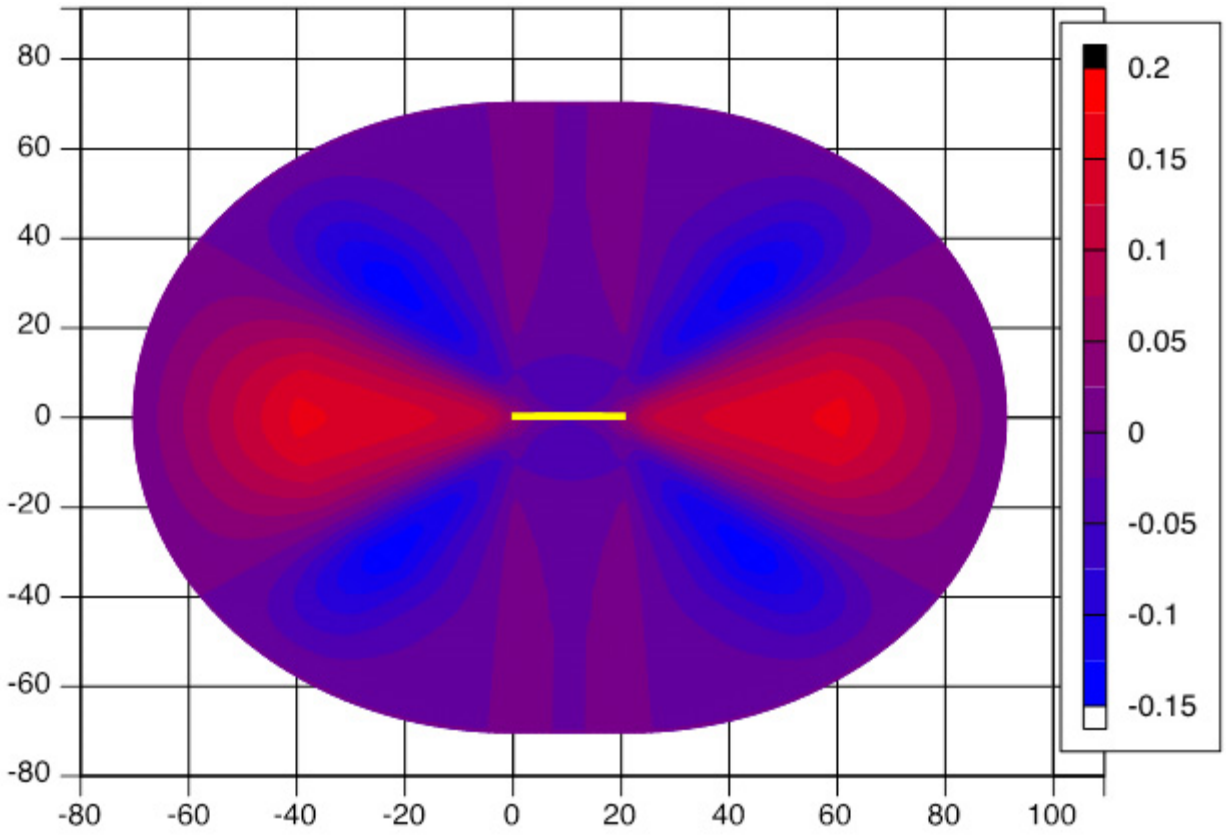

Figure C.4 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

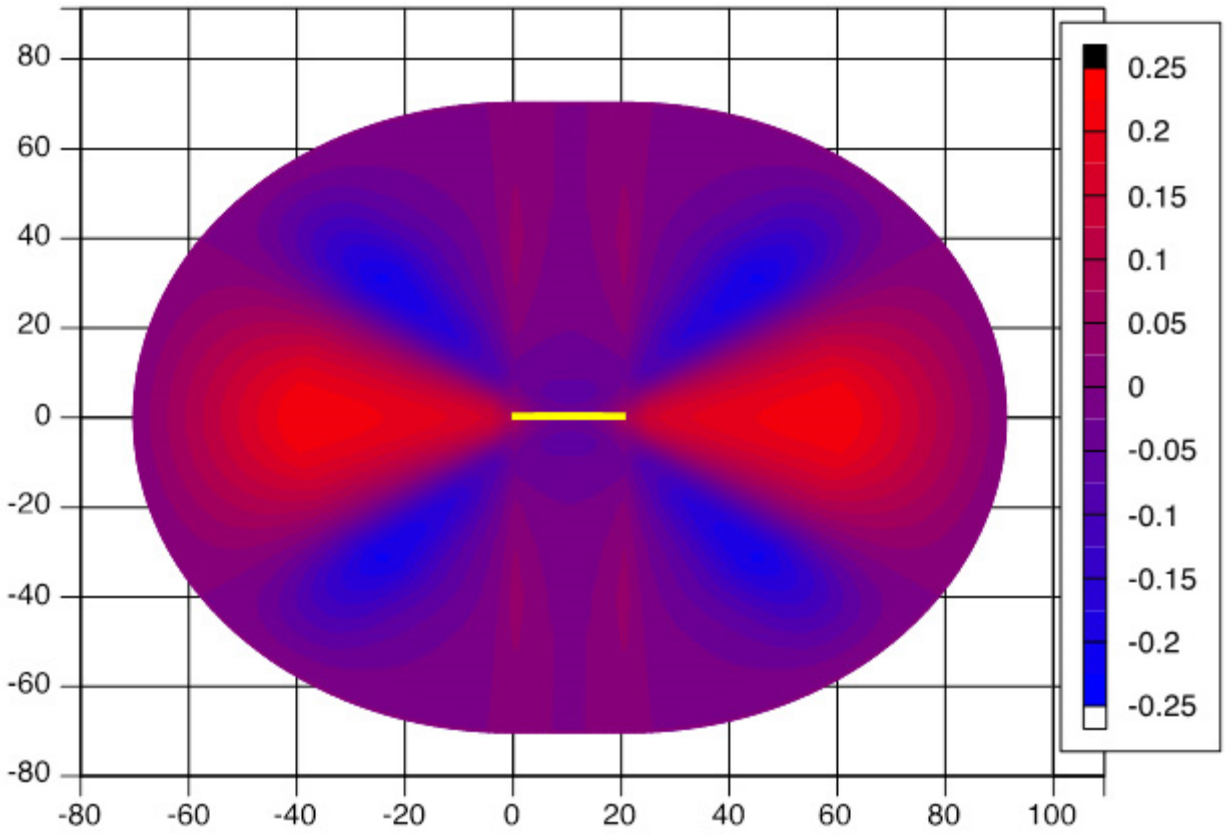

Figure C.5 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

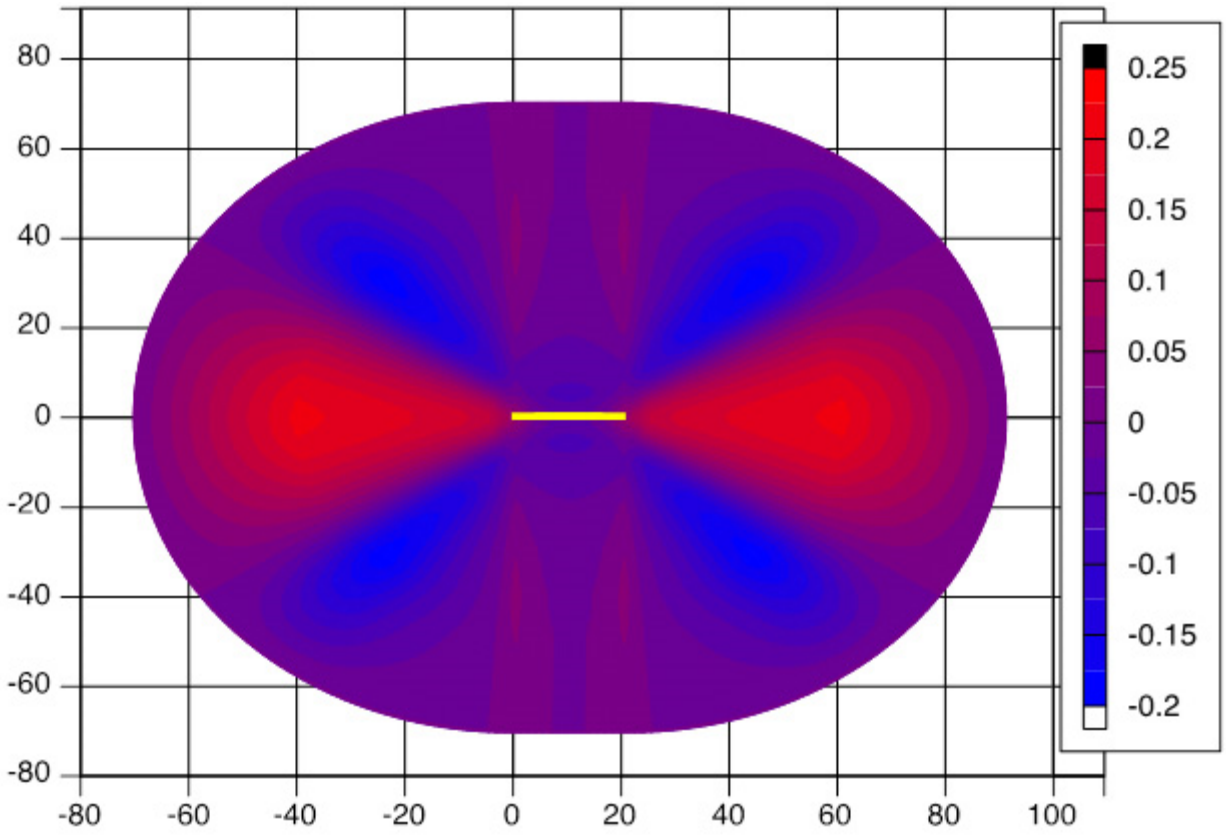

Figure C.6 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

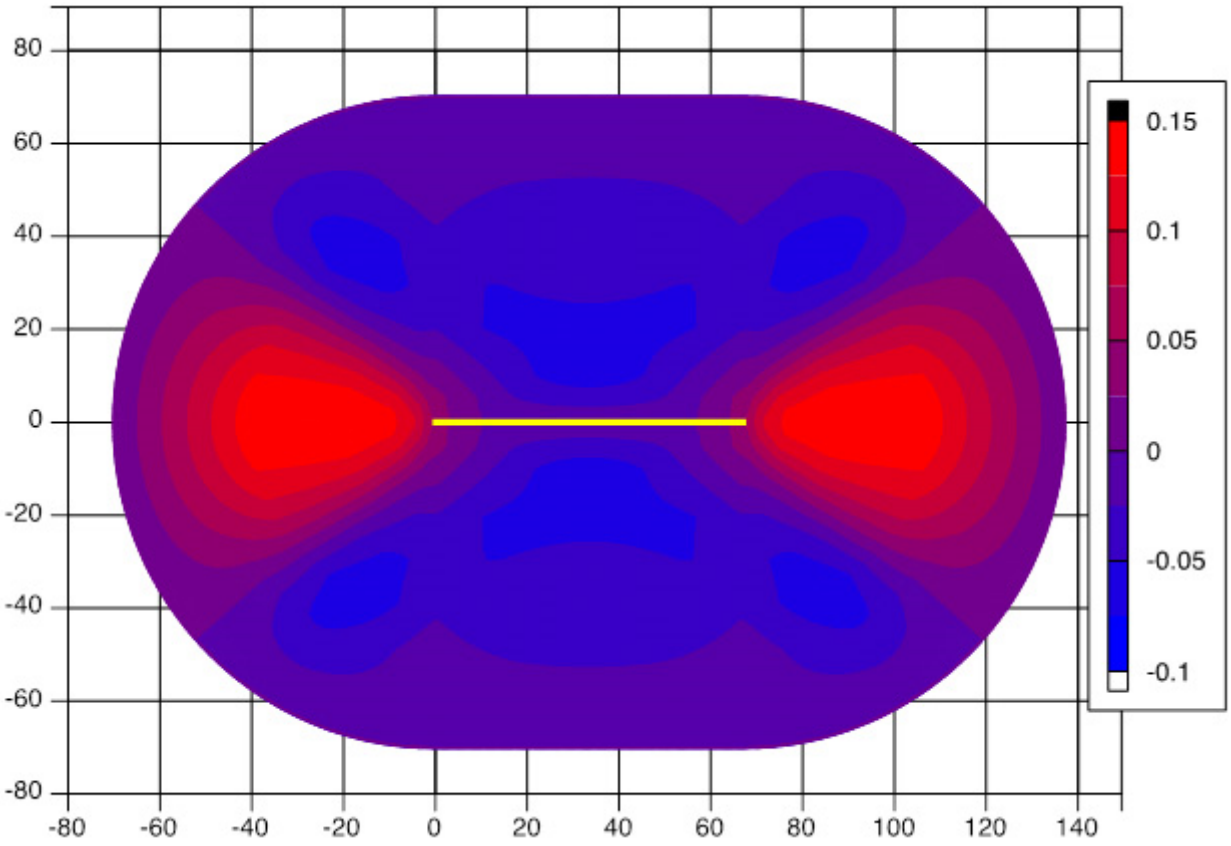

Figure C.7 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

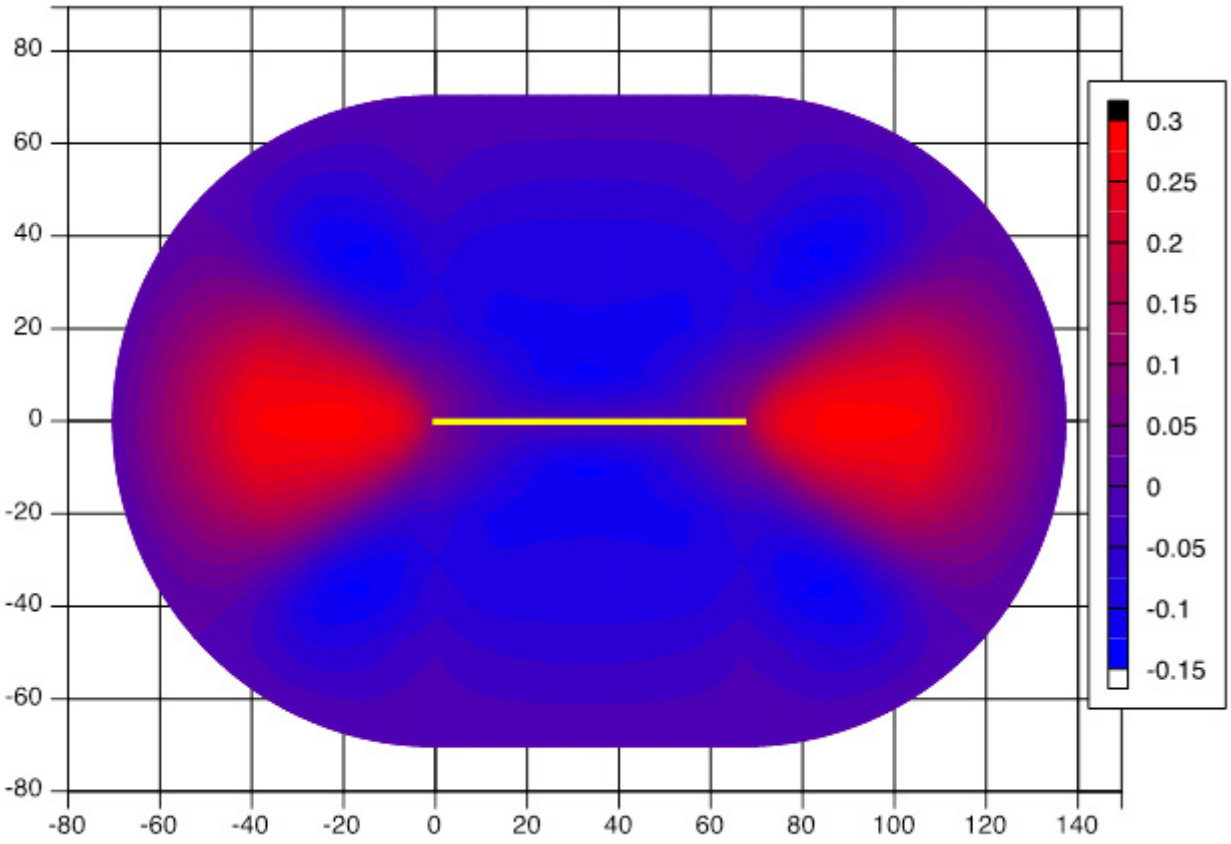

Figure C.8 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

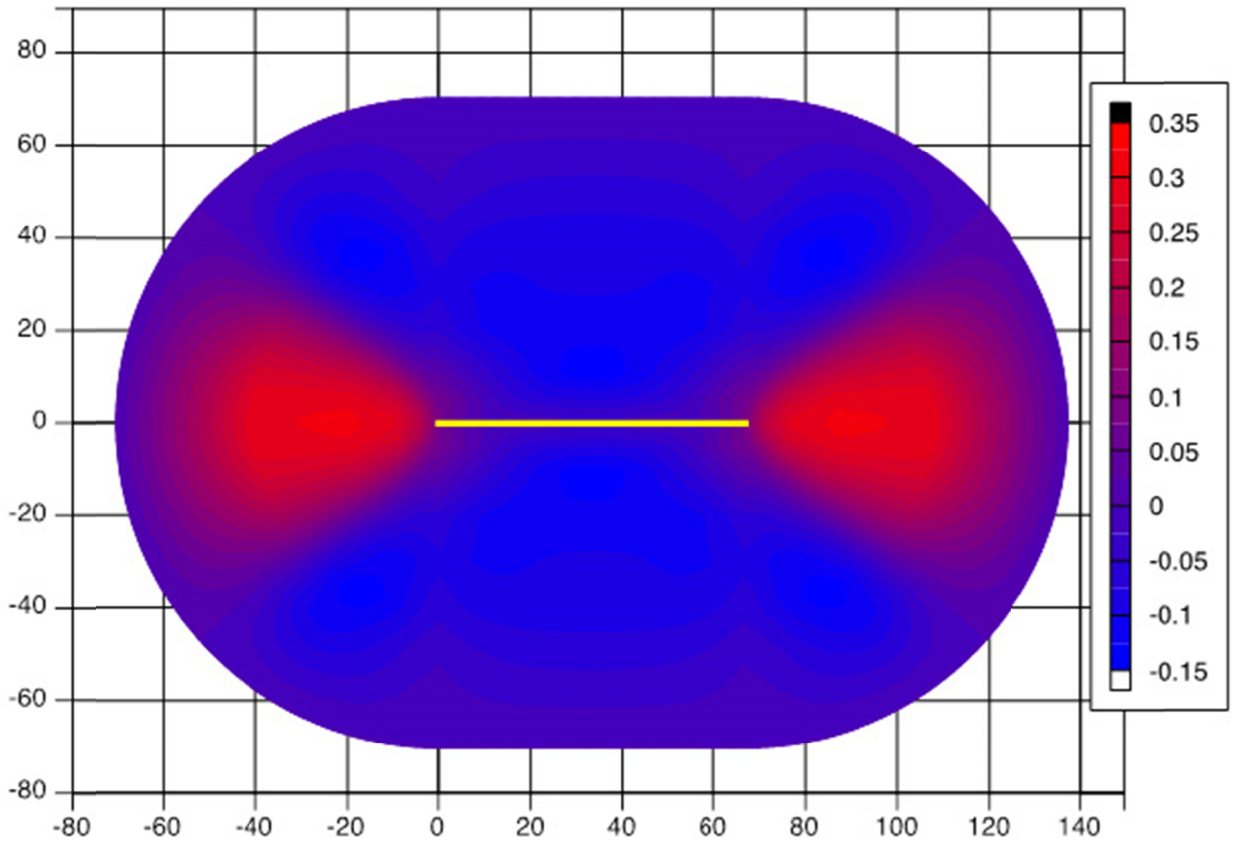

Figure C.9 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

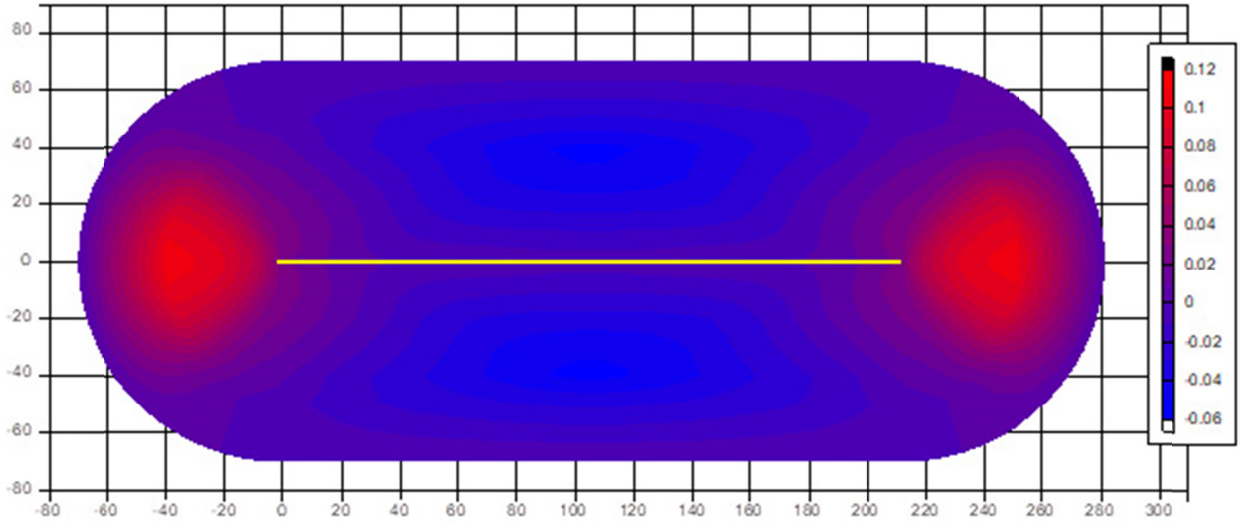

Figure C.10 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

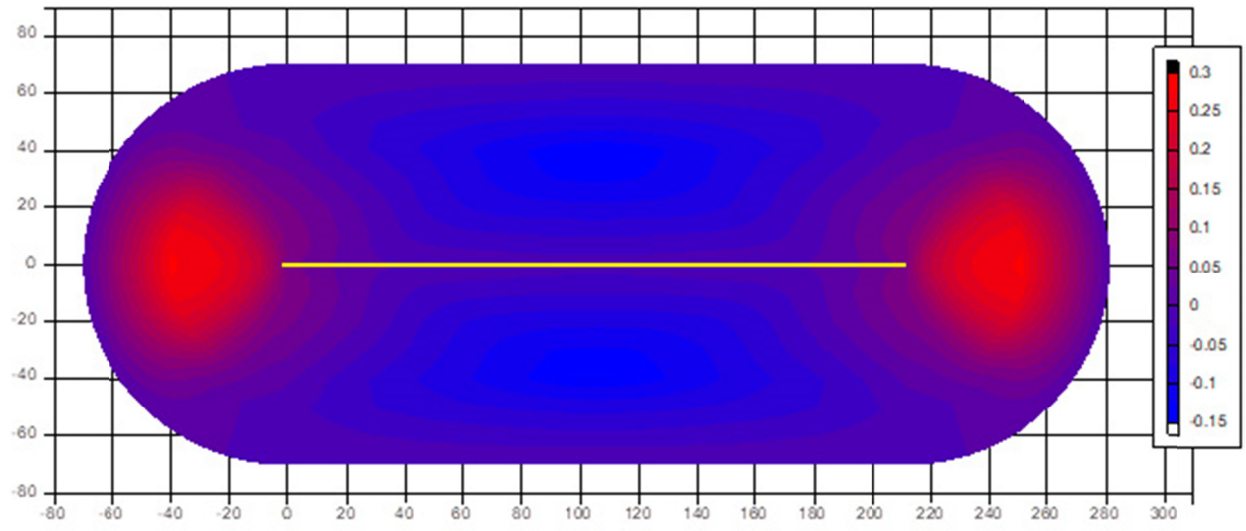

Figure C.11 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

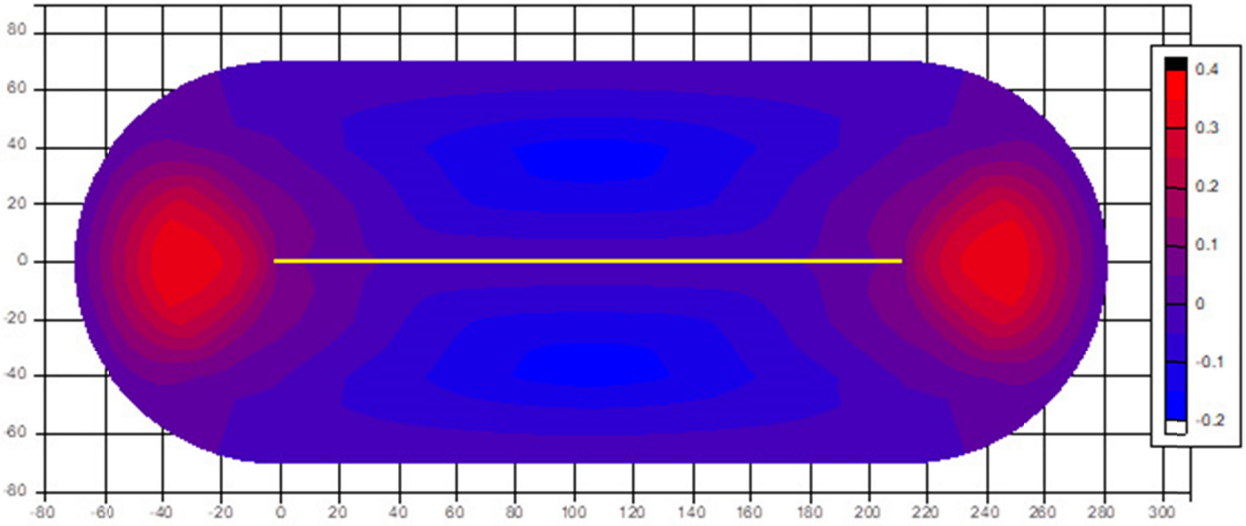

Figure C.12 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

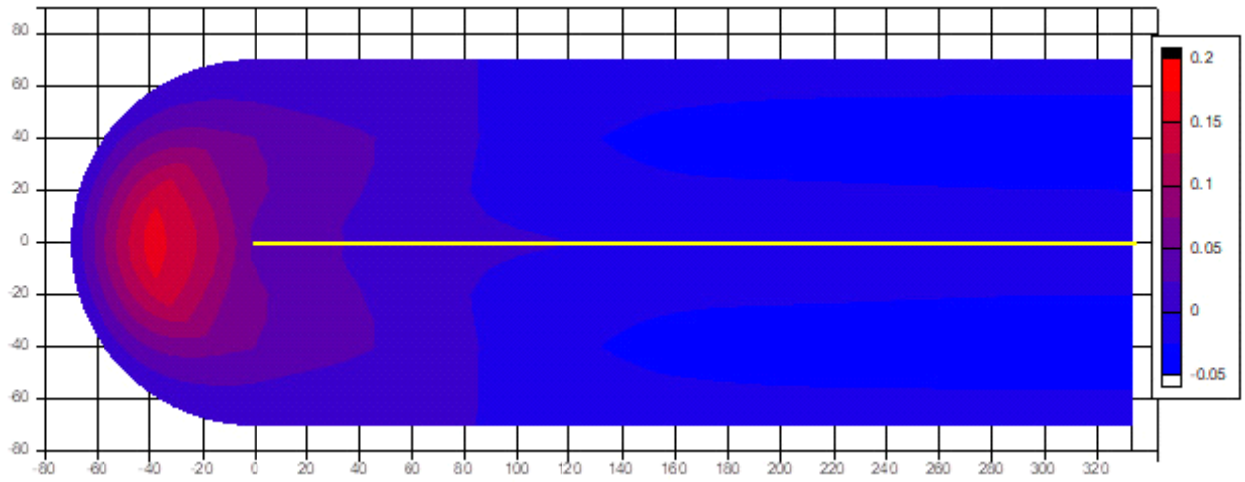

Figure C.13 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.**

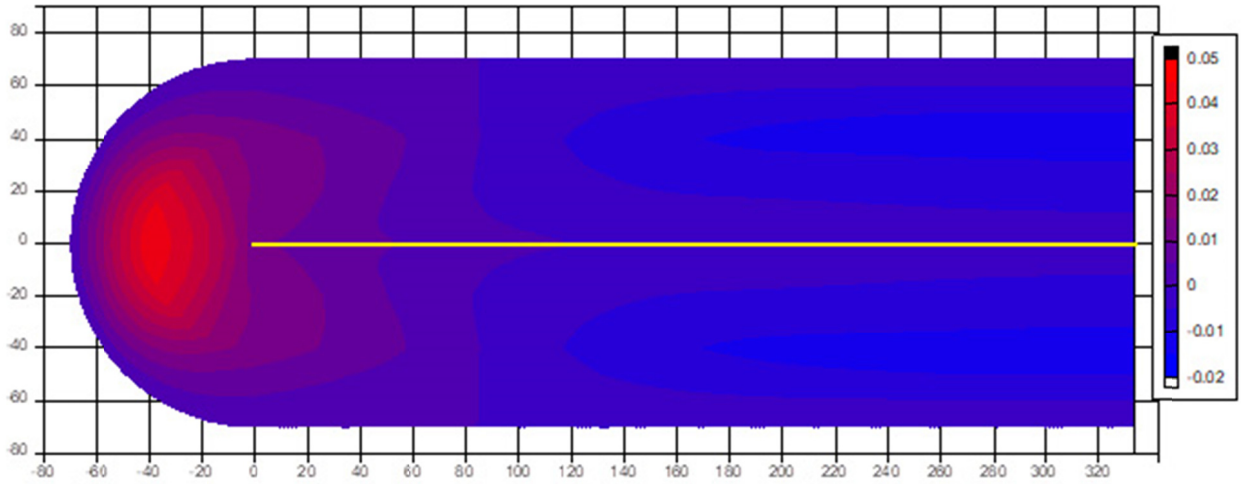

Figure C.14 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.**

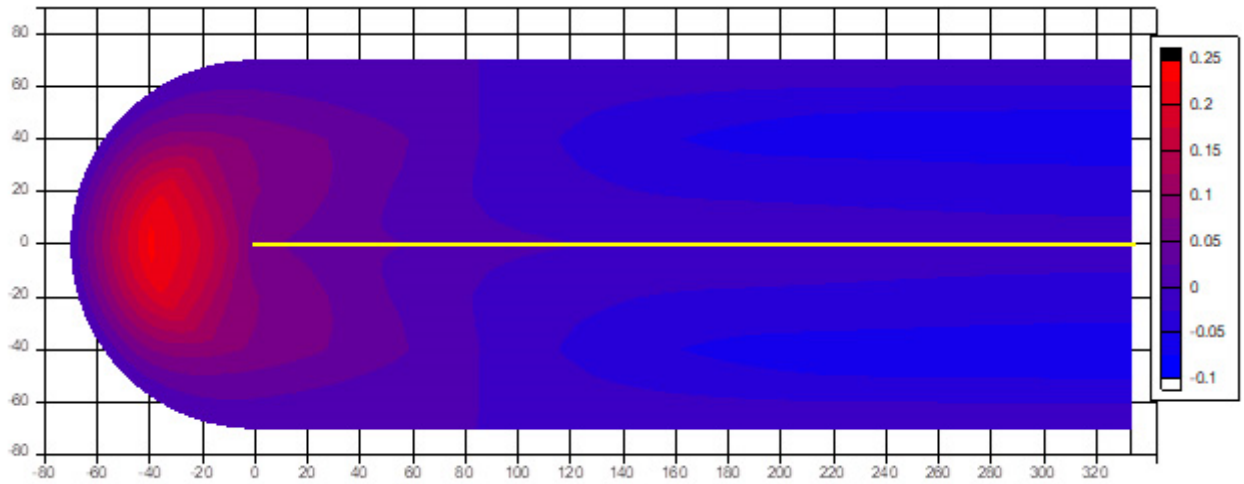

Figure C.15 **Change in the mean of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.**

C.1.2 Changes in the Standard Deviation of the Log Normal 5% Damped Pseudo-Spectral Acceleration

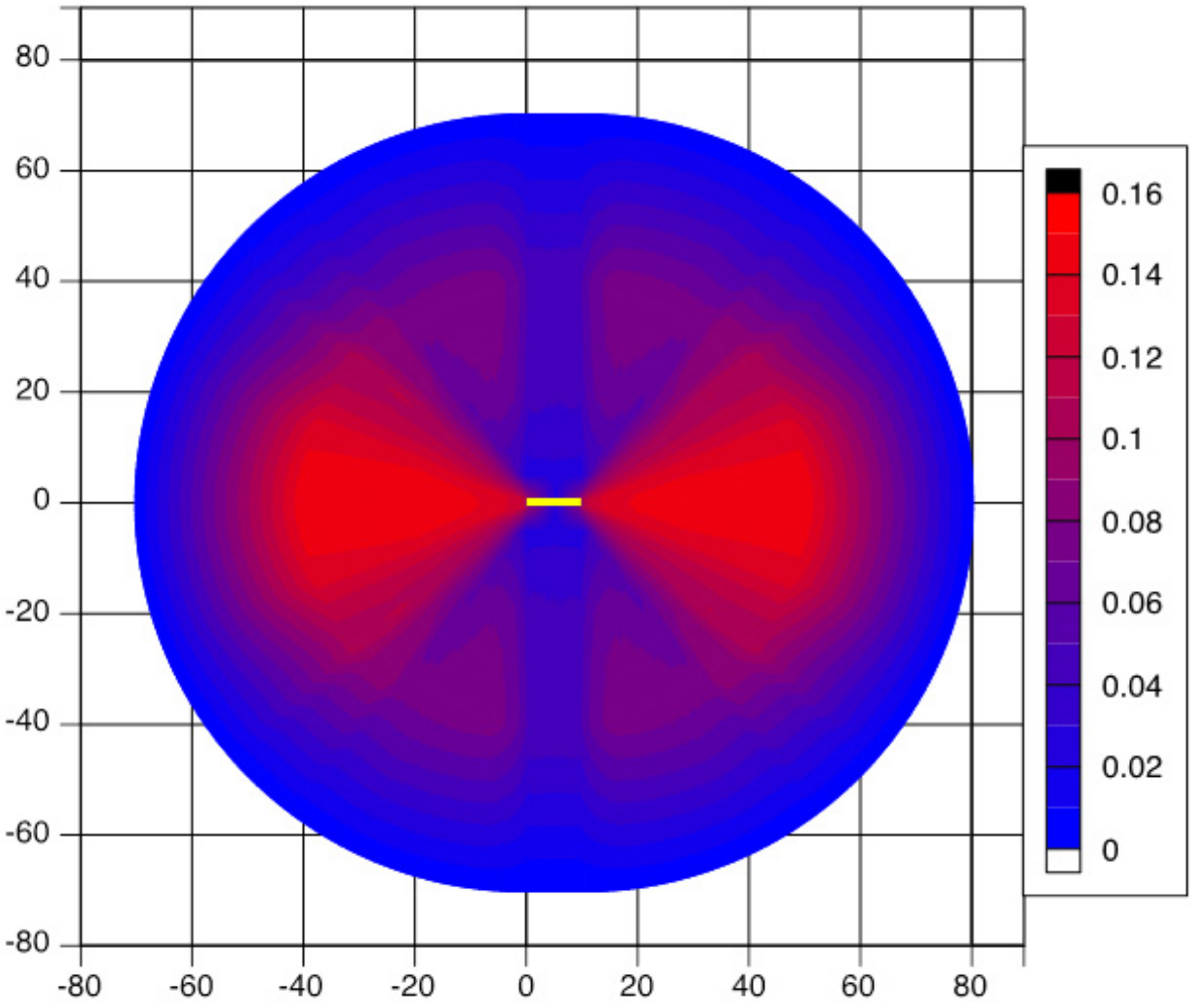

Figure C.16 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

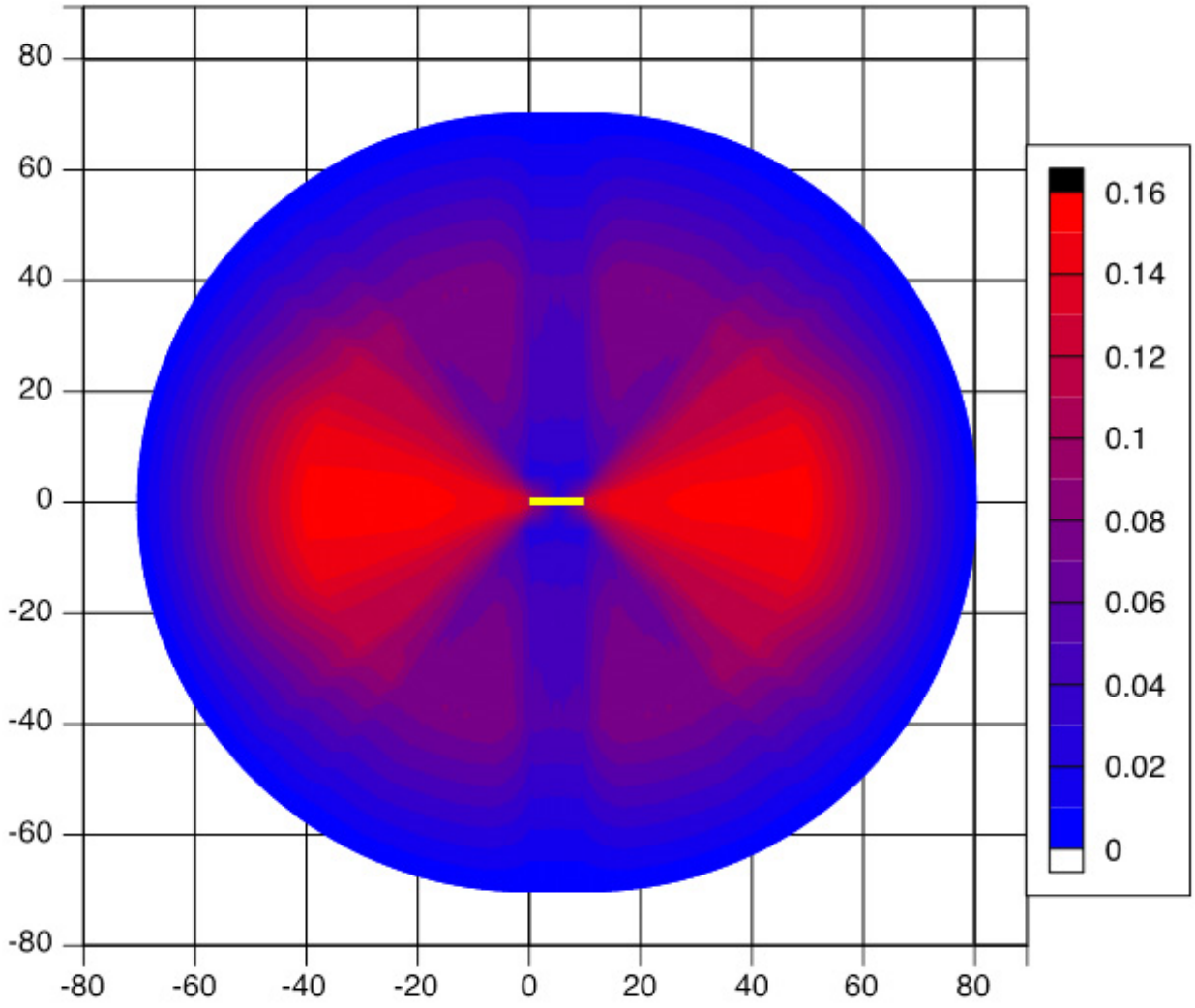

Figure C.17 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

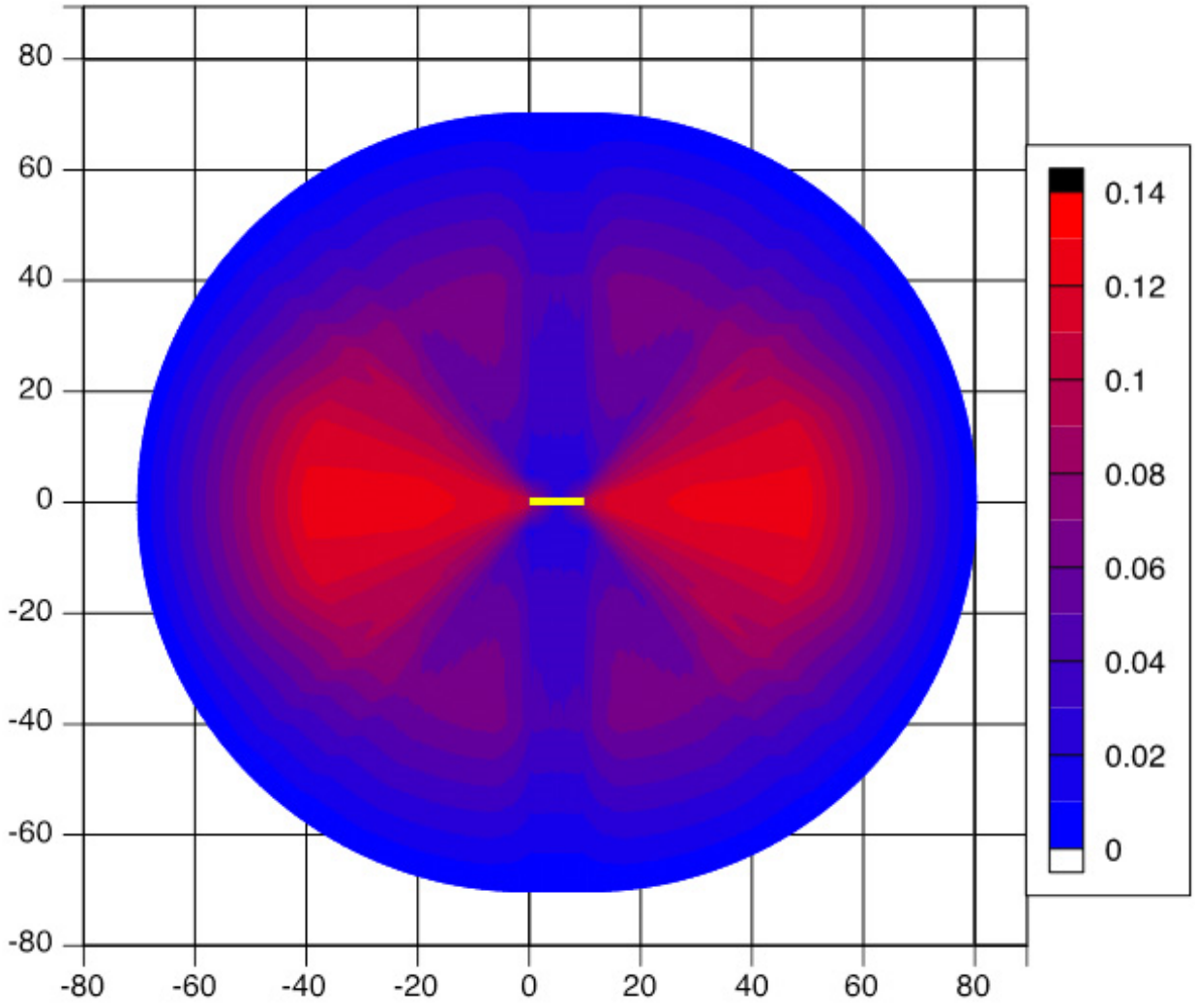

Figure C.18 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture.**

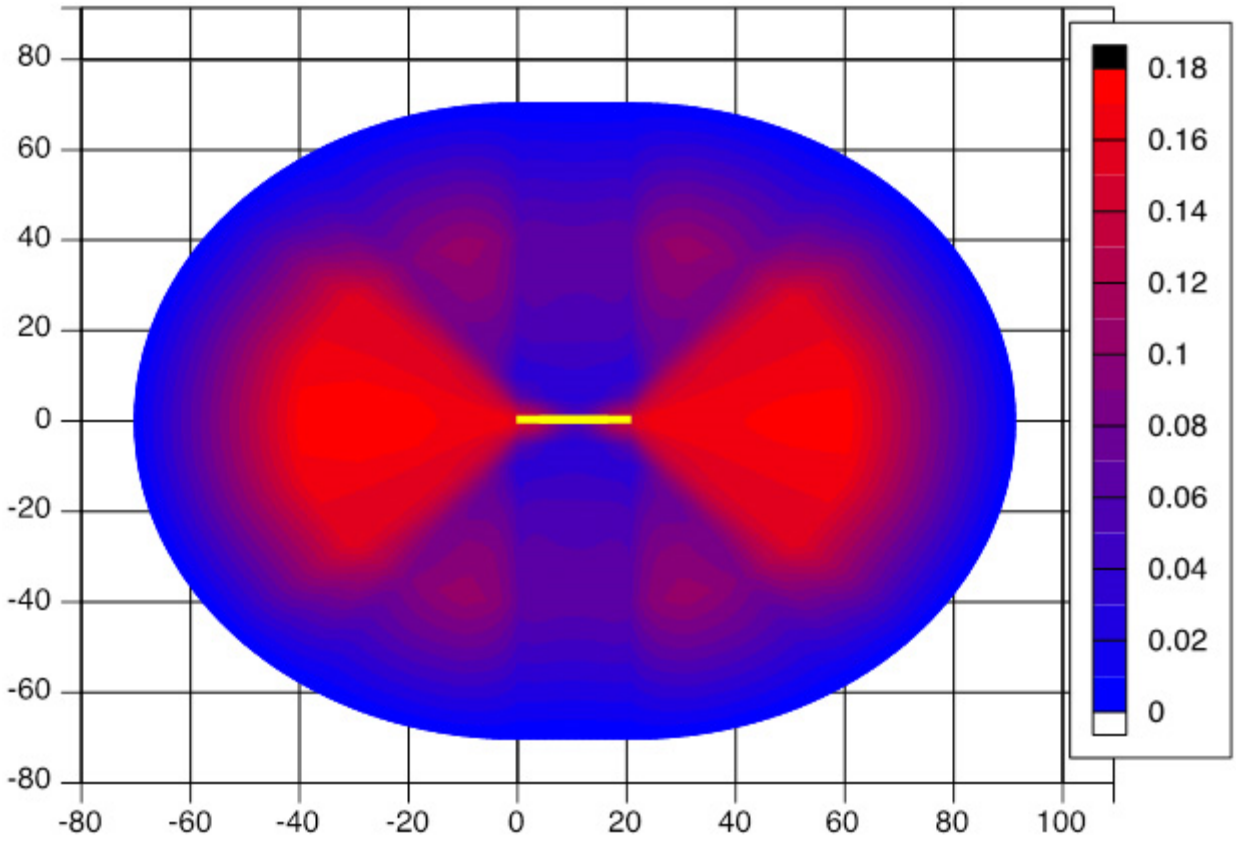

Figure C.19 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

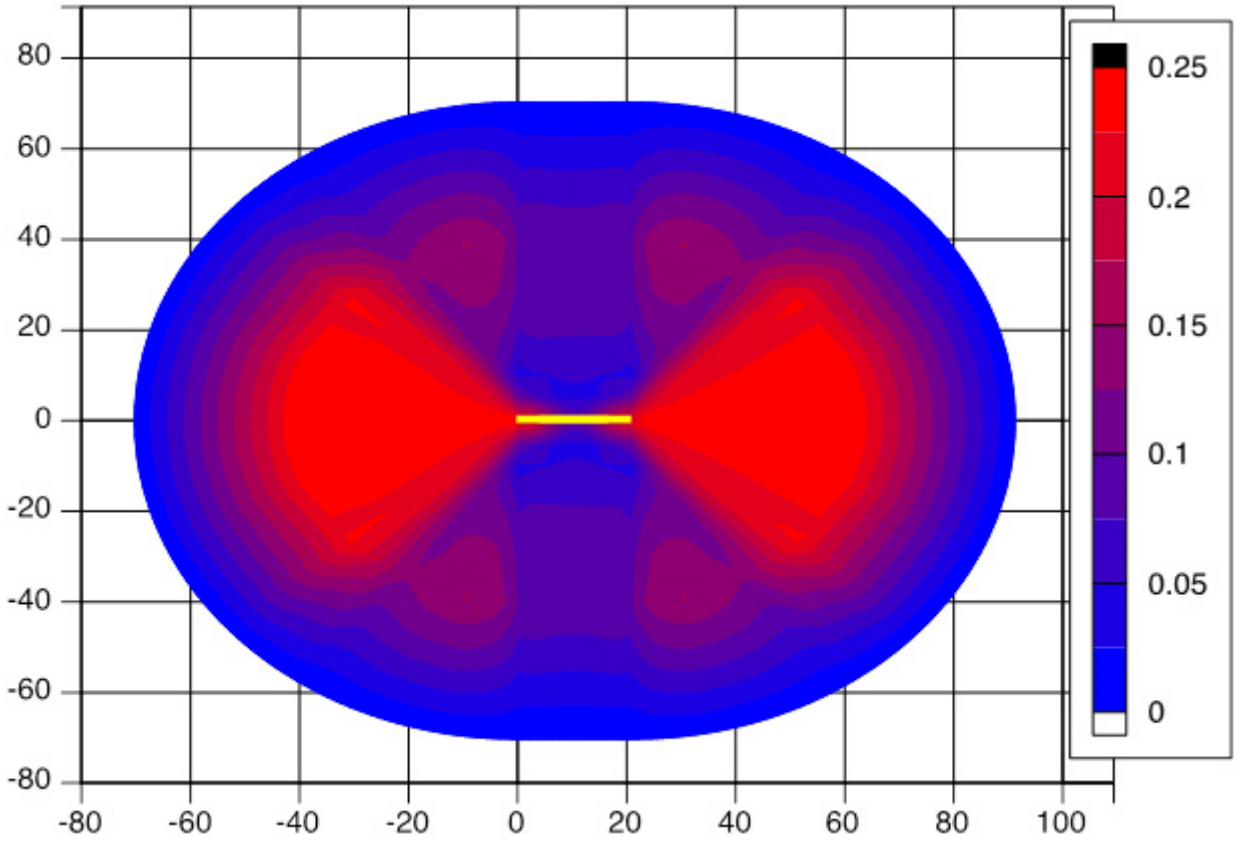

Figure C.20 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

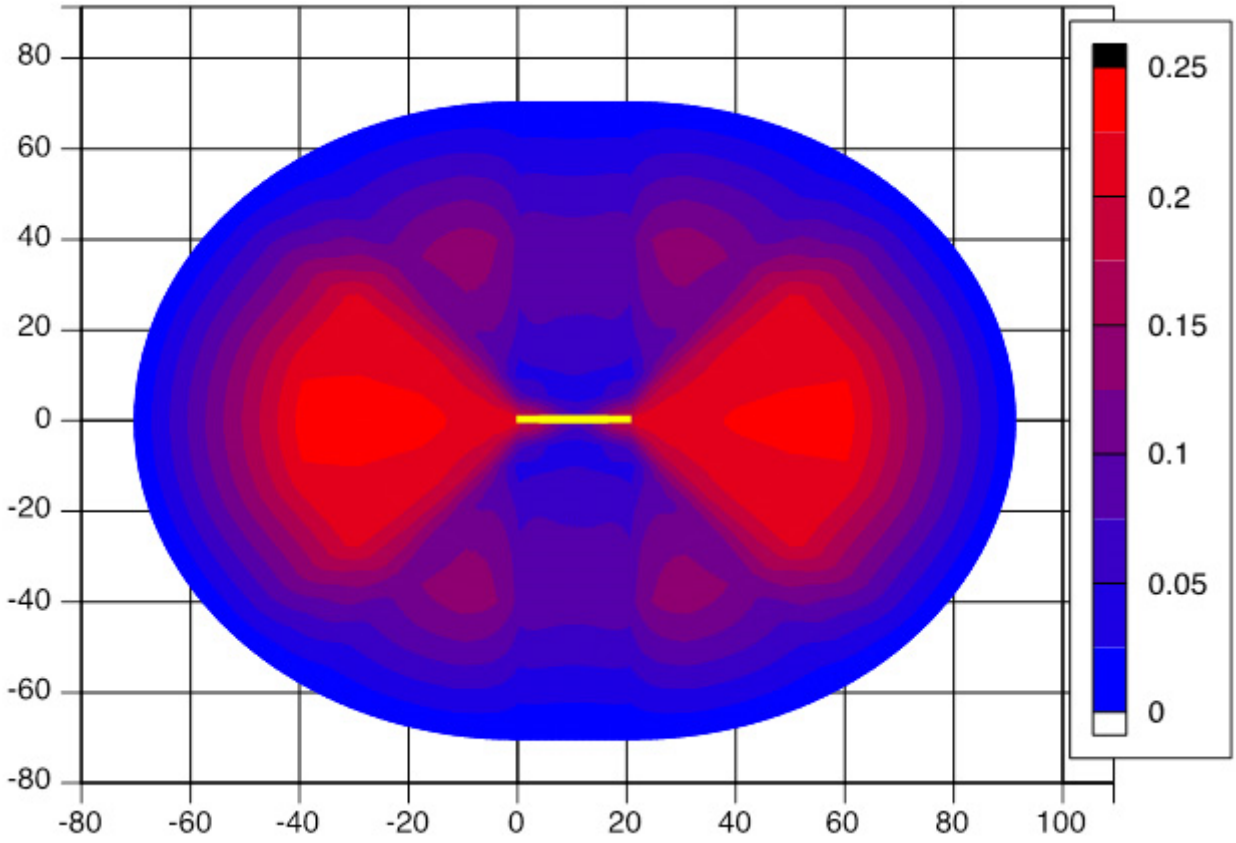

Figure C.21 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture.**

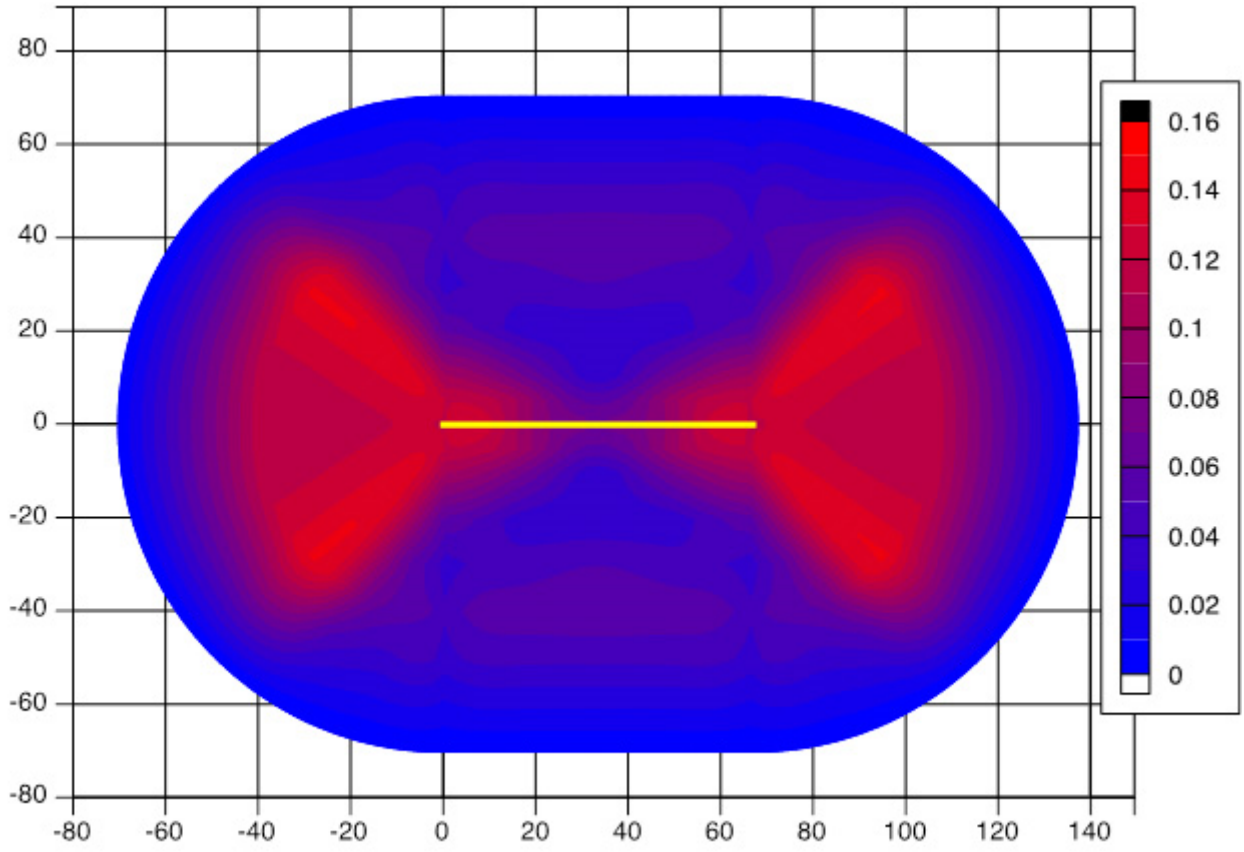

Figure C.22 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

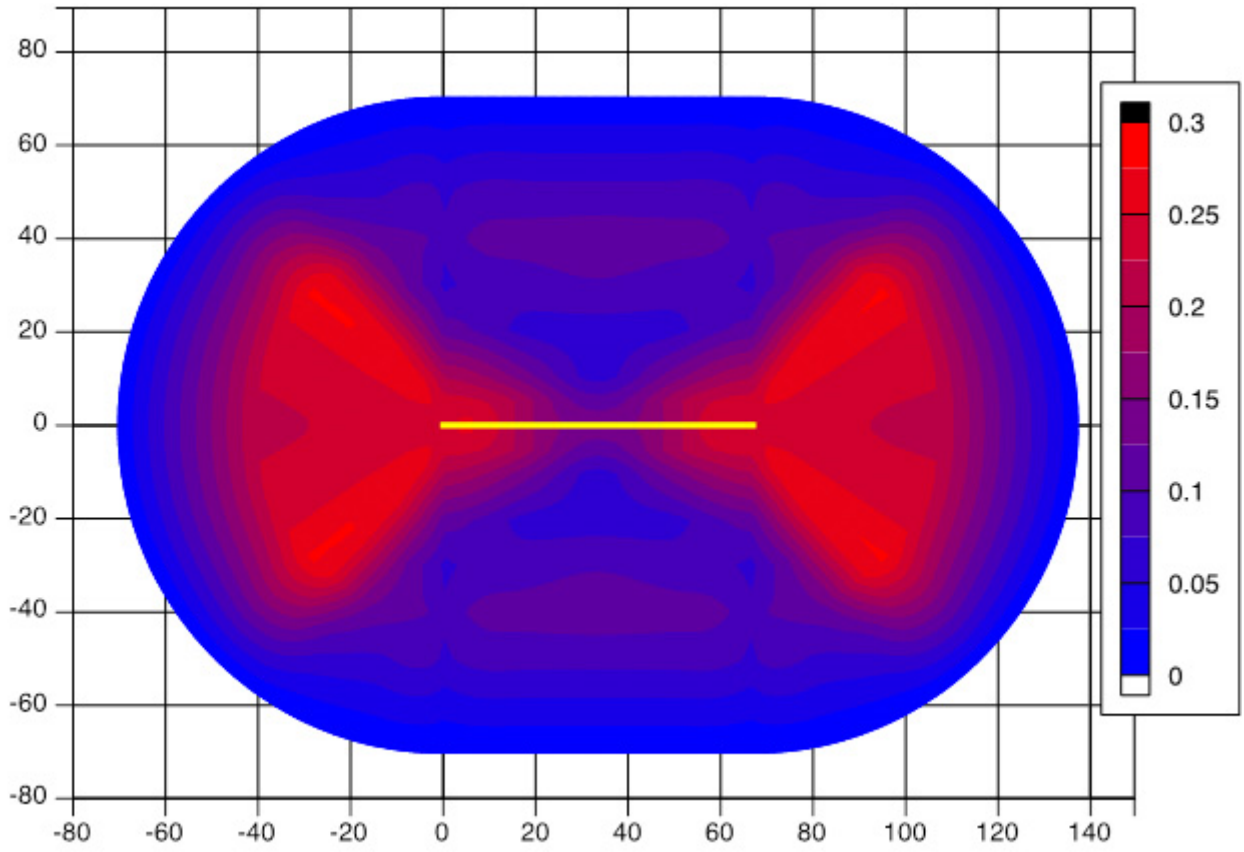

Figure C.23 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

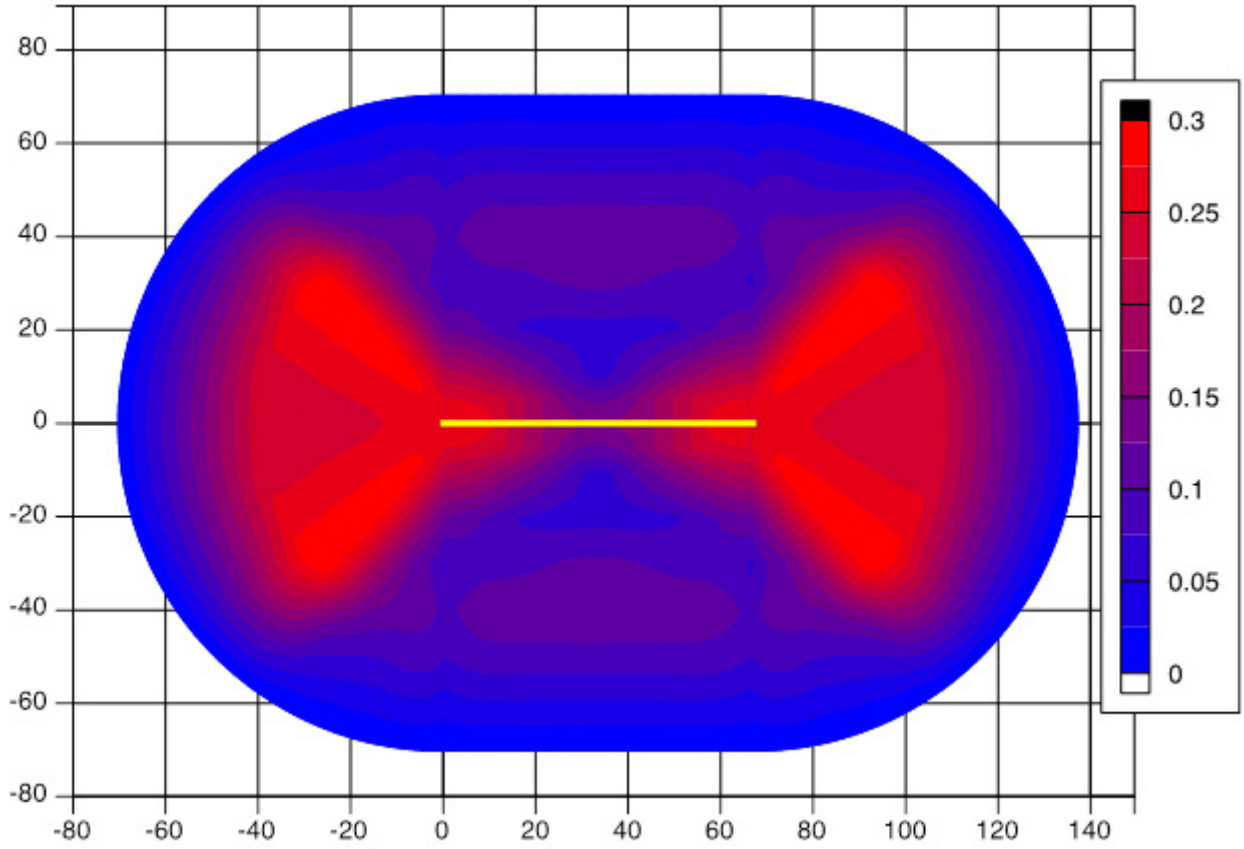

Figure C.24 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture.**

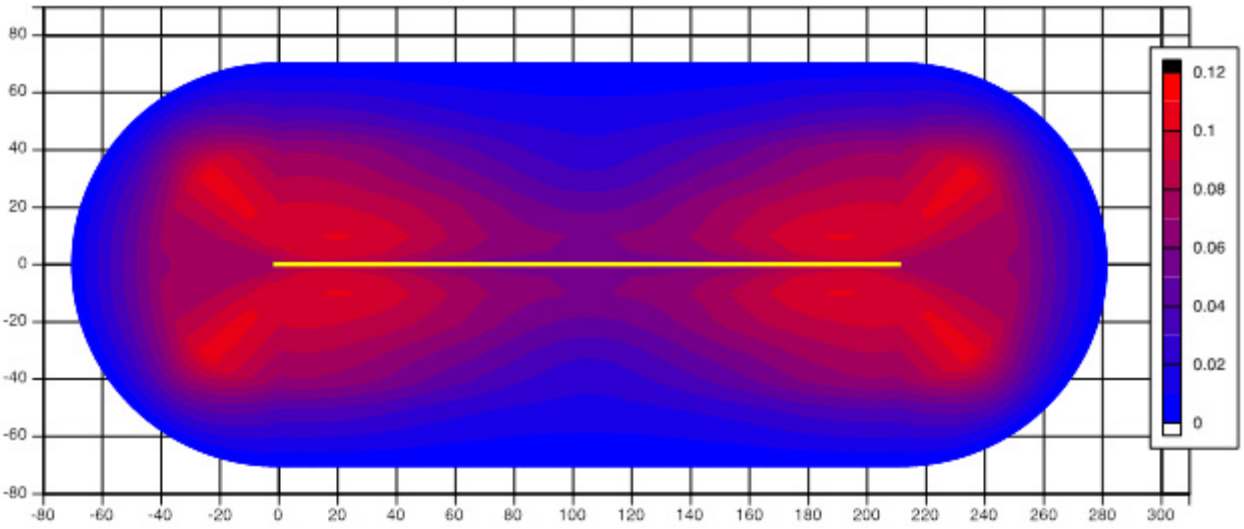

Figure C.25 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

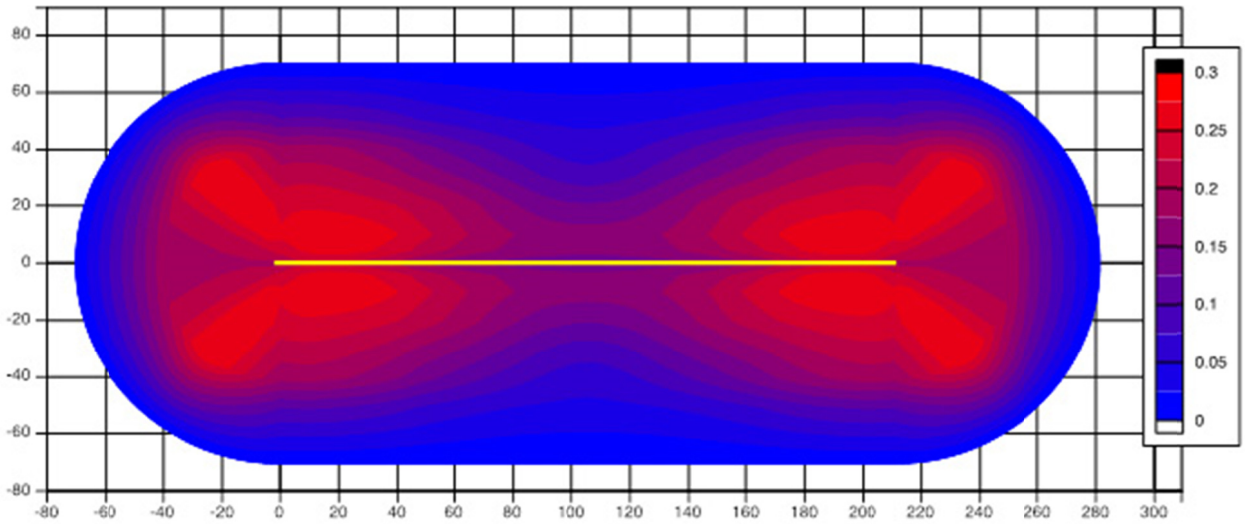

Figure C.26 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

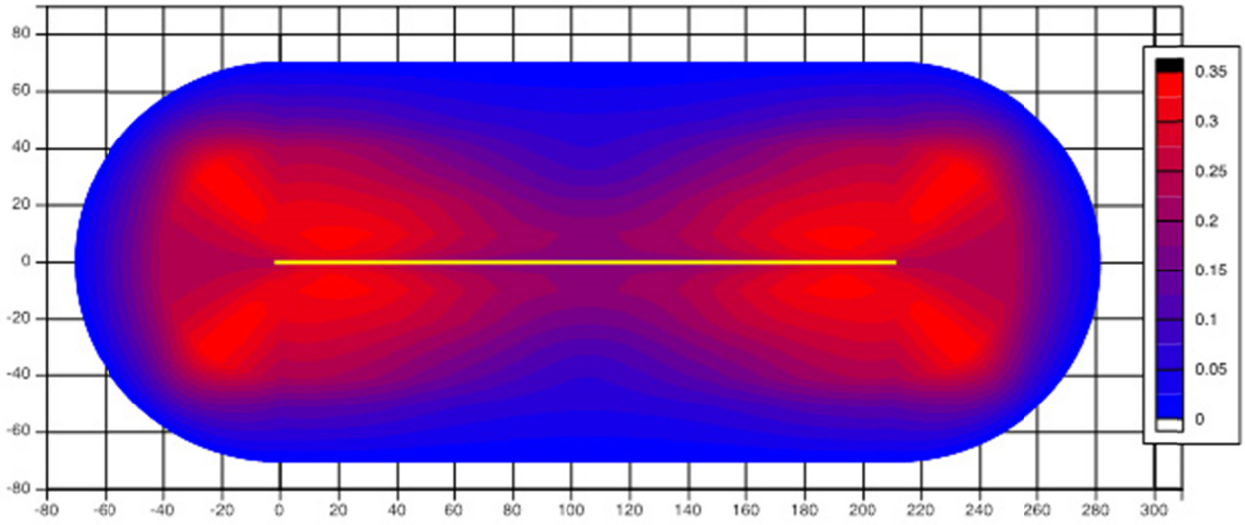

Figure C.27 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture.**

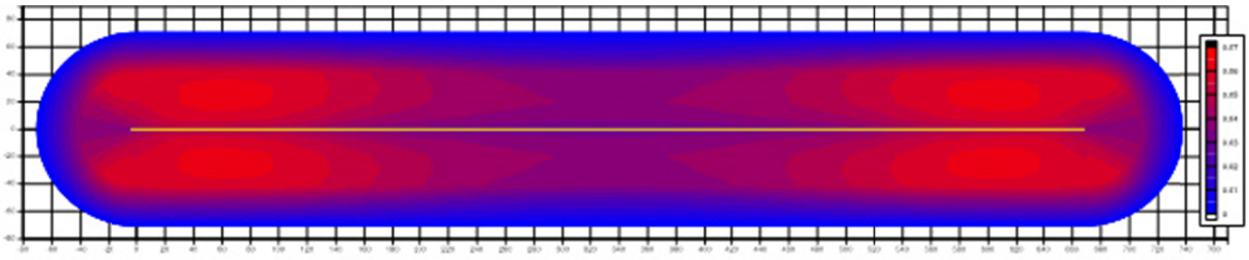

Figure C.28 Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.

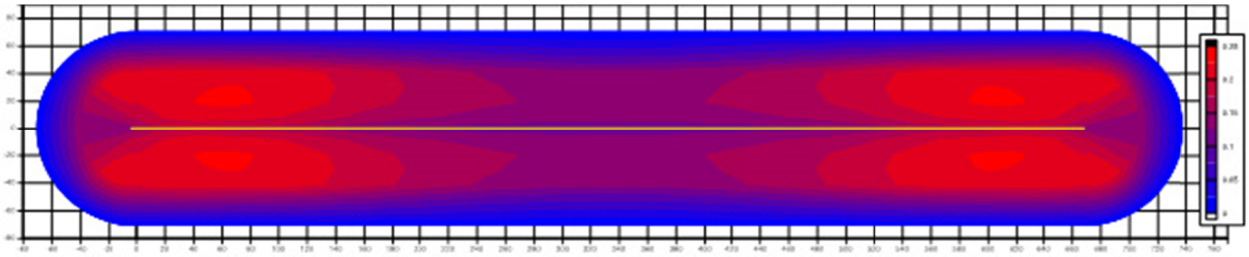

Figure C.29 Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.

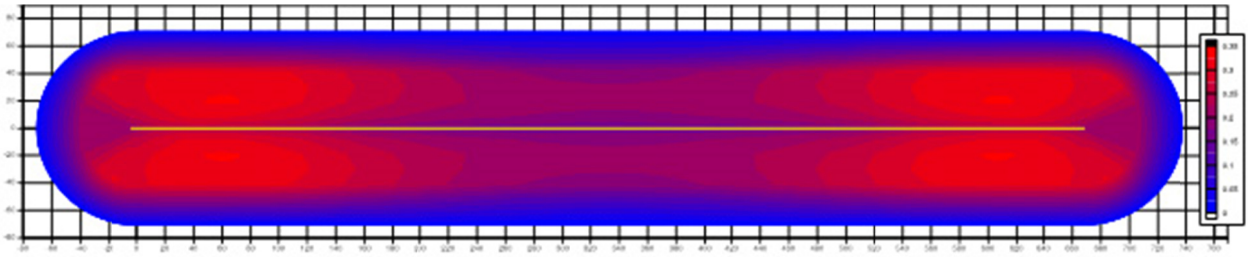

Figure C.30 Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due o the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture.

C.1.3 Changes in the Standard Deviation of the Log Normal 5% Damped Pseudo-Spectral Acceleration with ϕ_2 Reduction

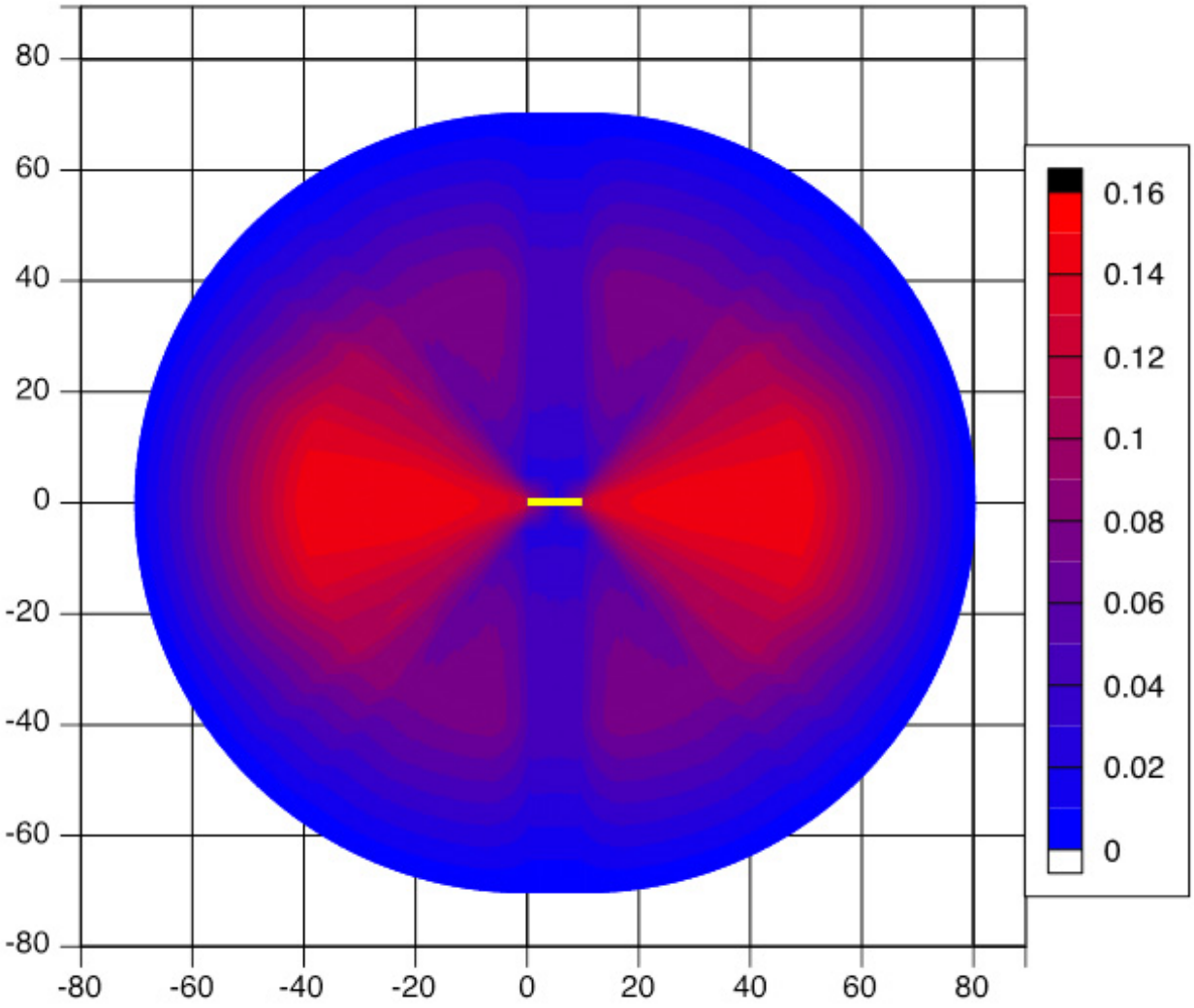

Figure C.31 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture with ϕ_2 reduction.**

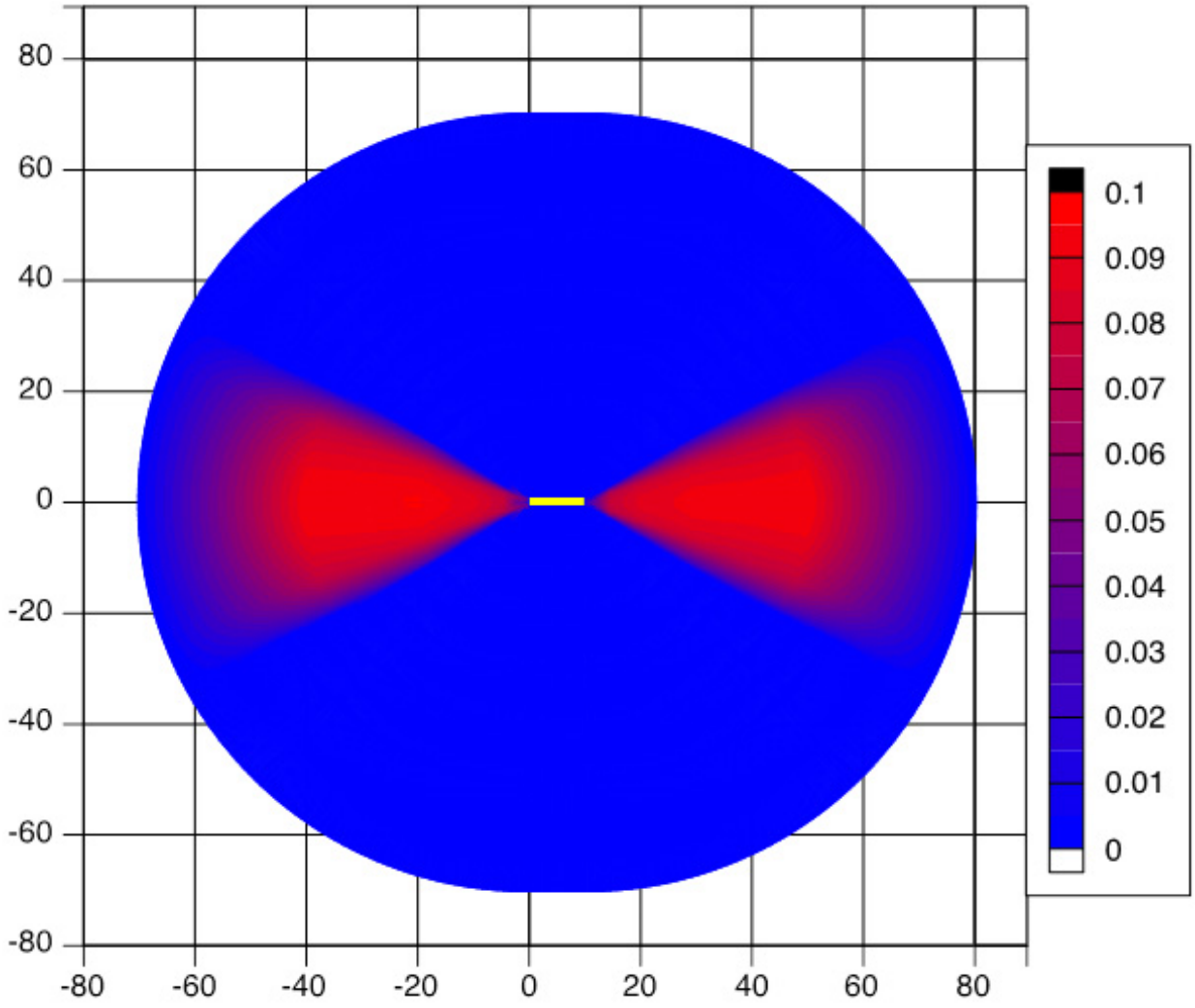

Figure C.32 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture with ϕ_2 reduction.**

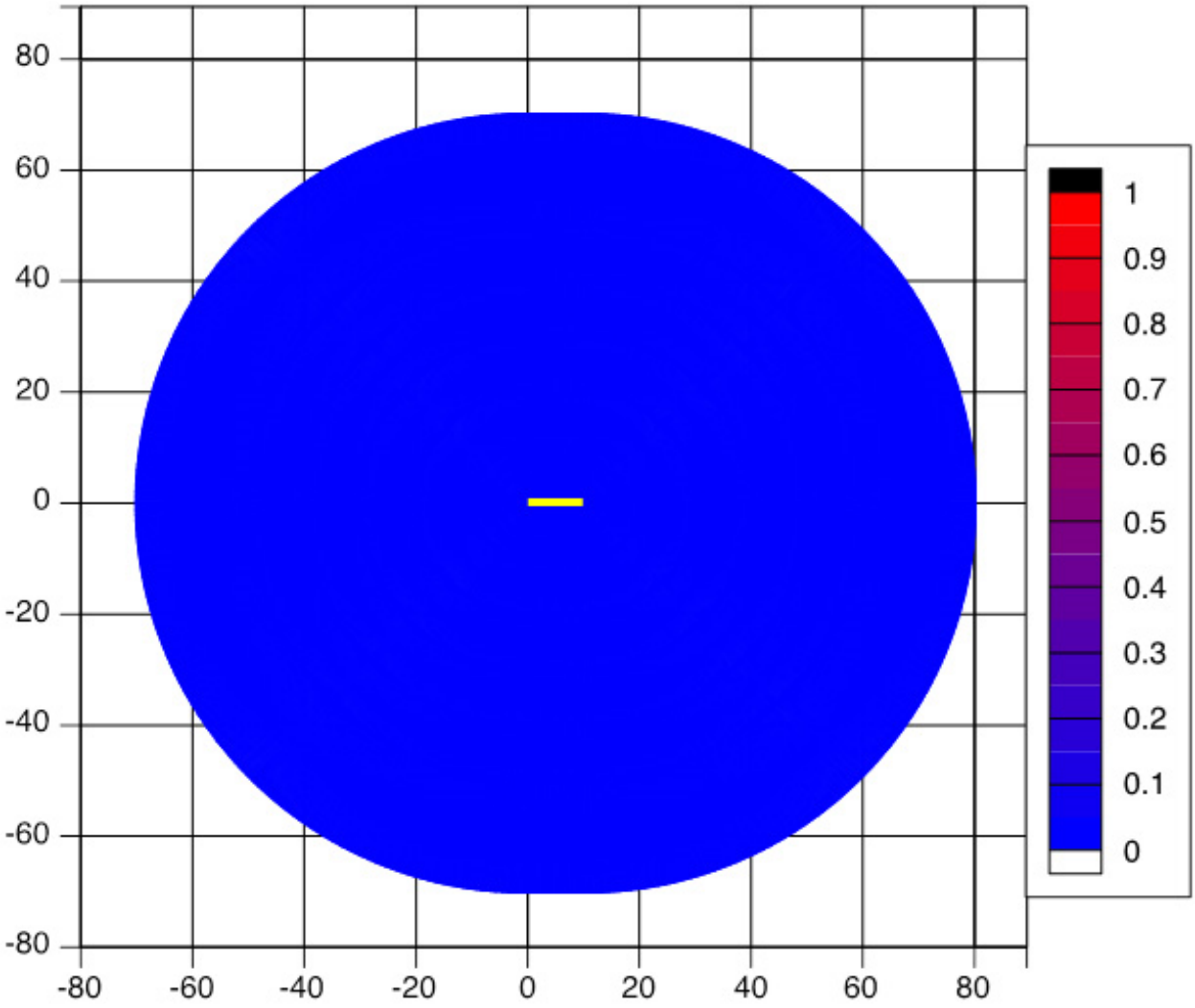

Figure C.33 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6, strike–slip rupture with ϕ_2 reduction.**

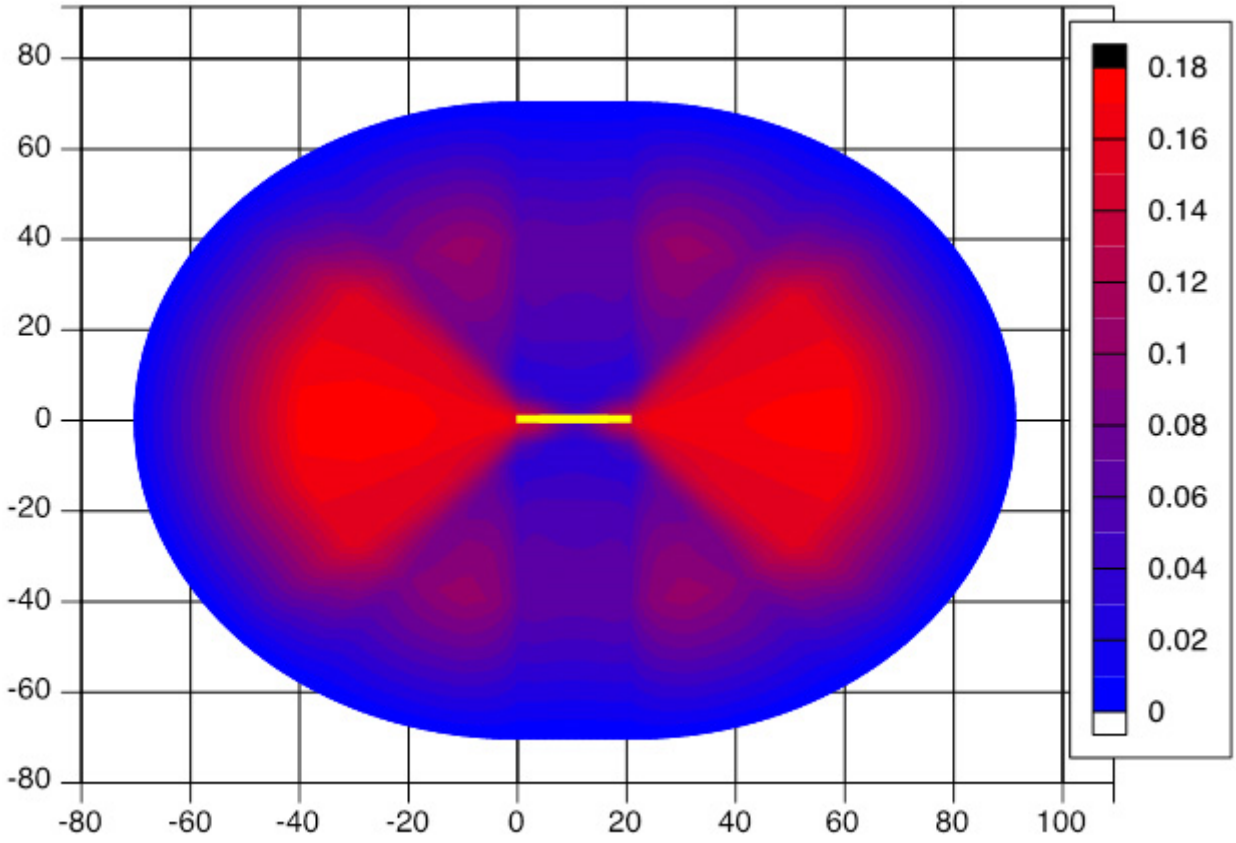

Figure C.34 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture with ϕ_2 reduction.**

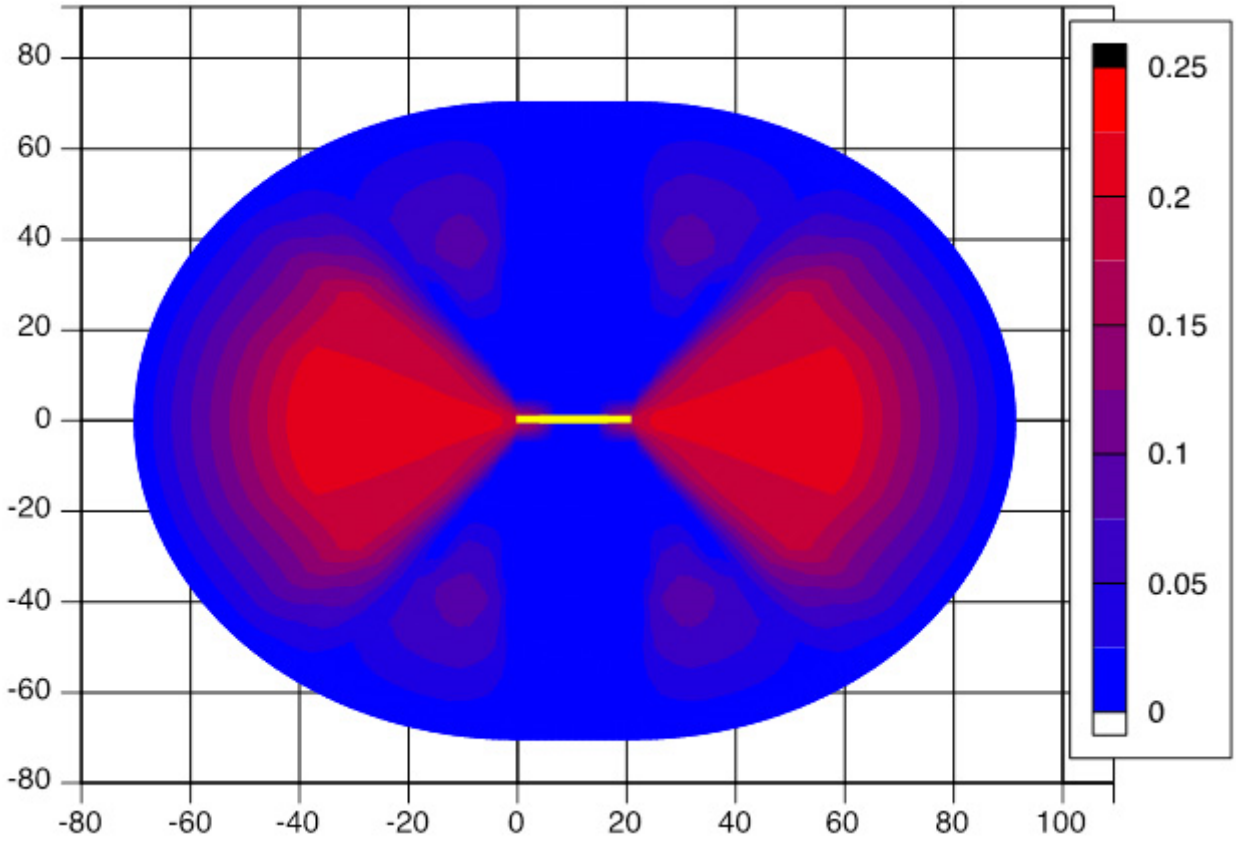

Figure C.35 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture with ϕ_2 reduction.**

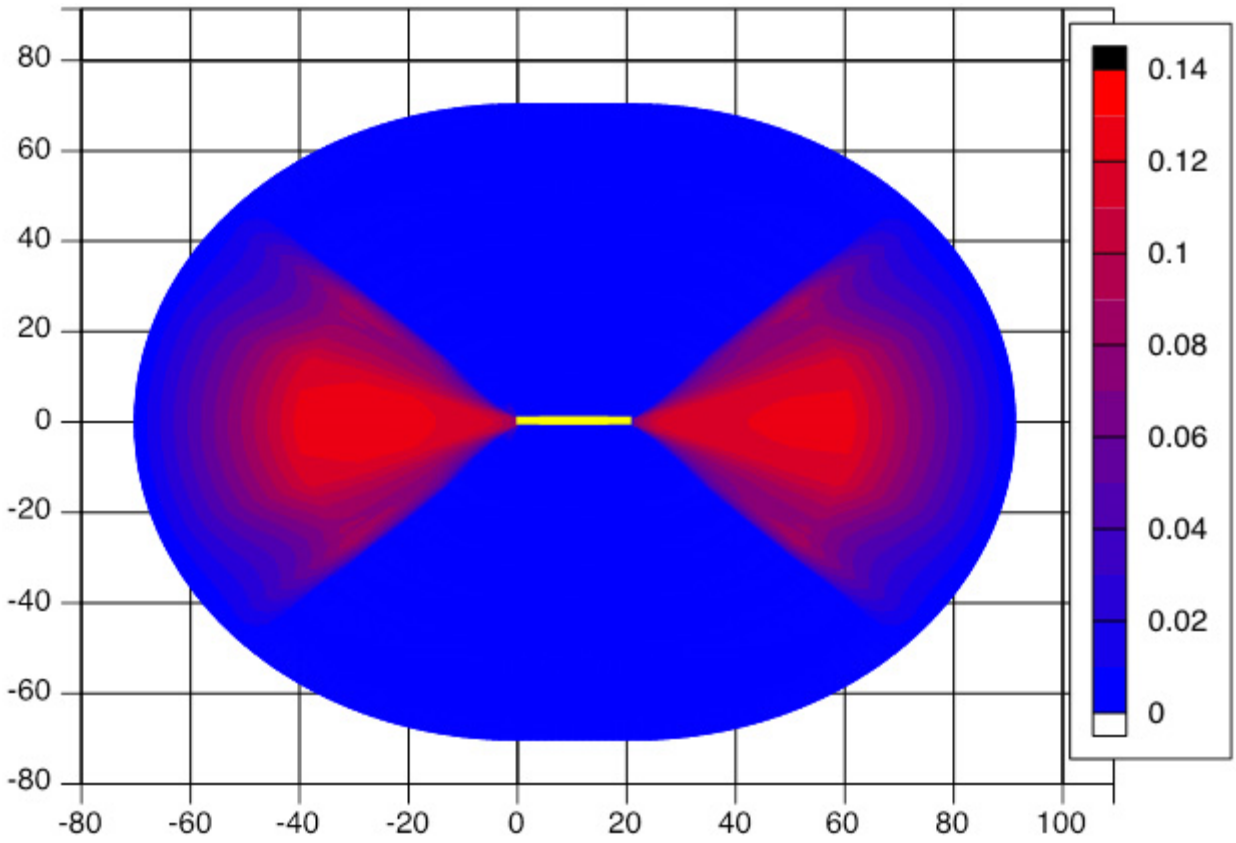

Figure C.36 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 6.5, strike–slip rupture with ϕ_2 reduction.**

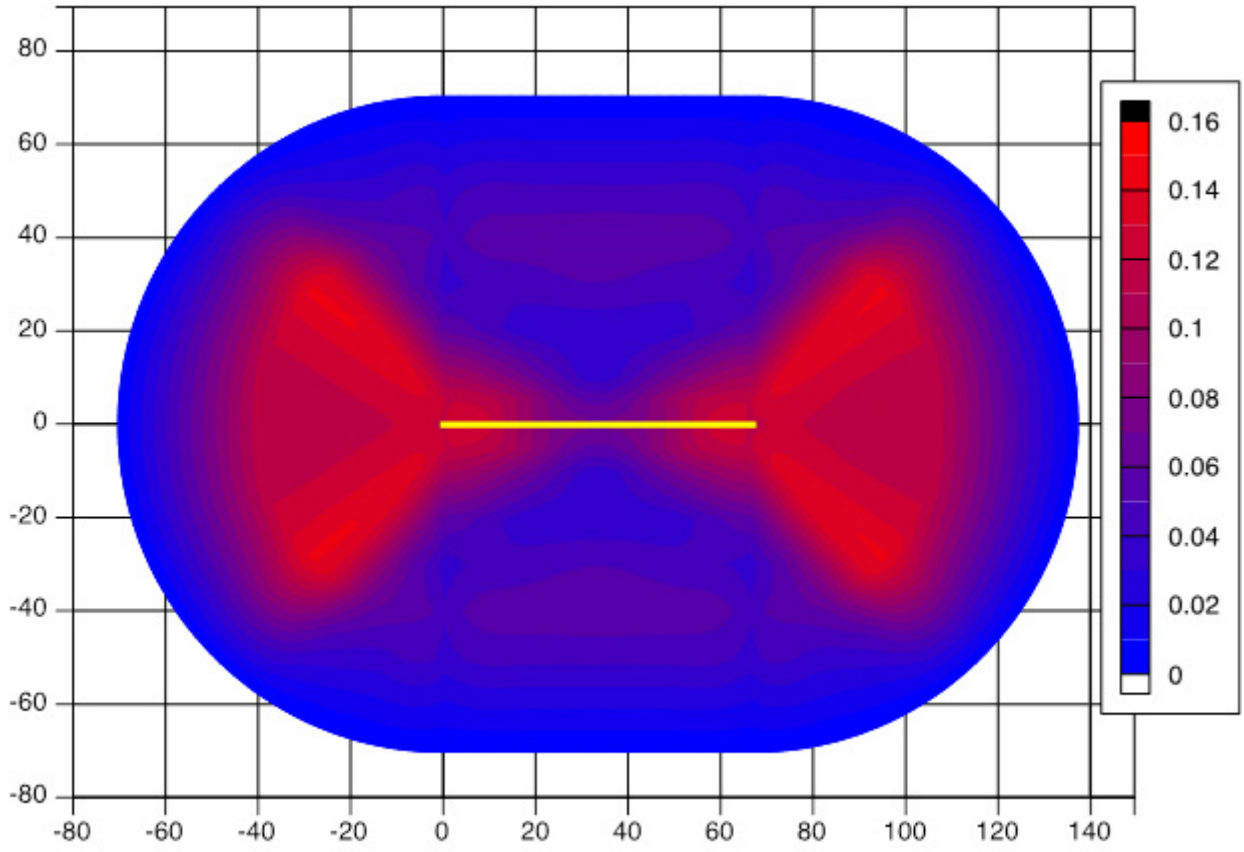

Figure C.37 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture with ϕ_2 reduction.**

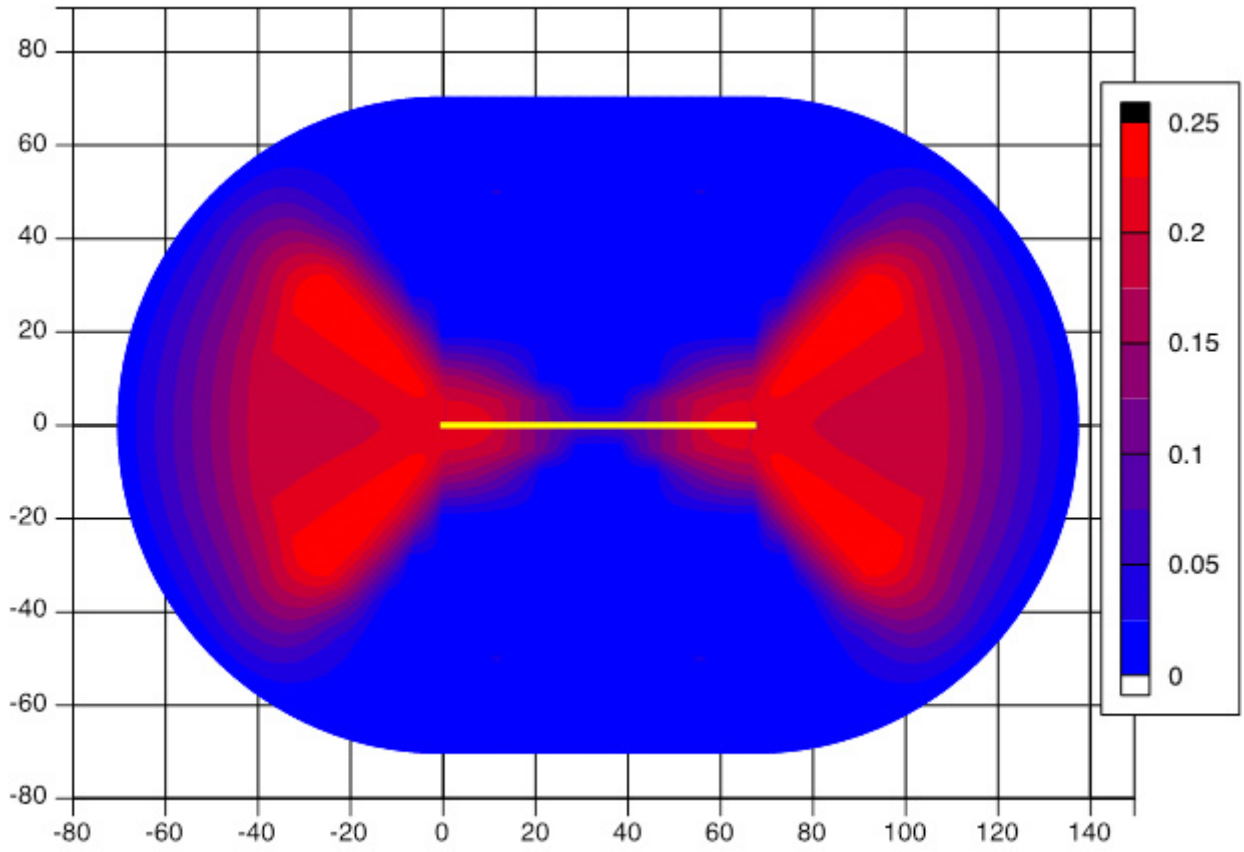

Figure C.38 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture with ϕ_2 reduction.**

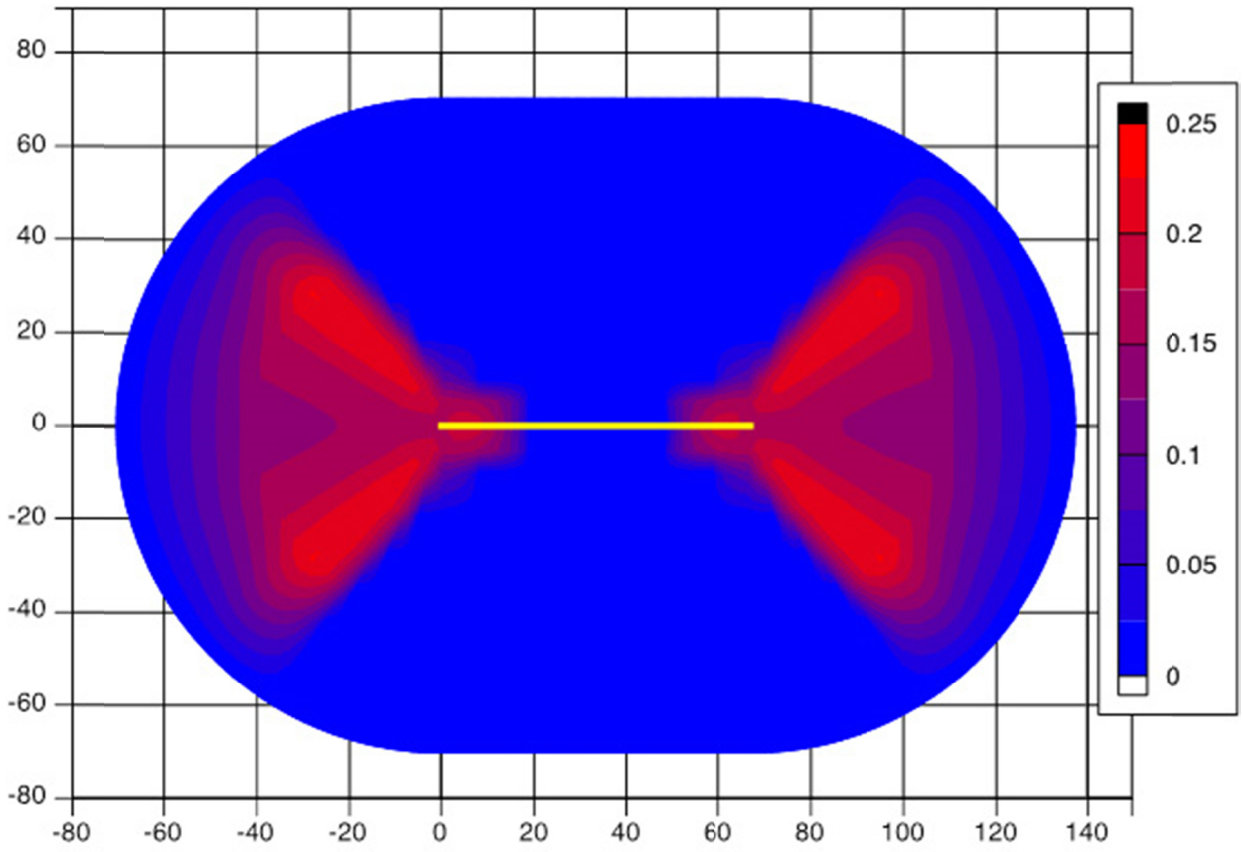

Figure C.39 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7, strike–slip rupture with ϕ_2 reduction.**

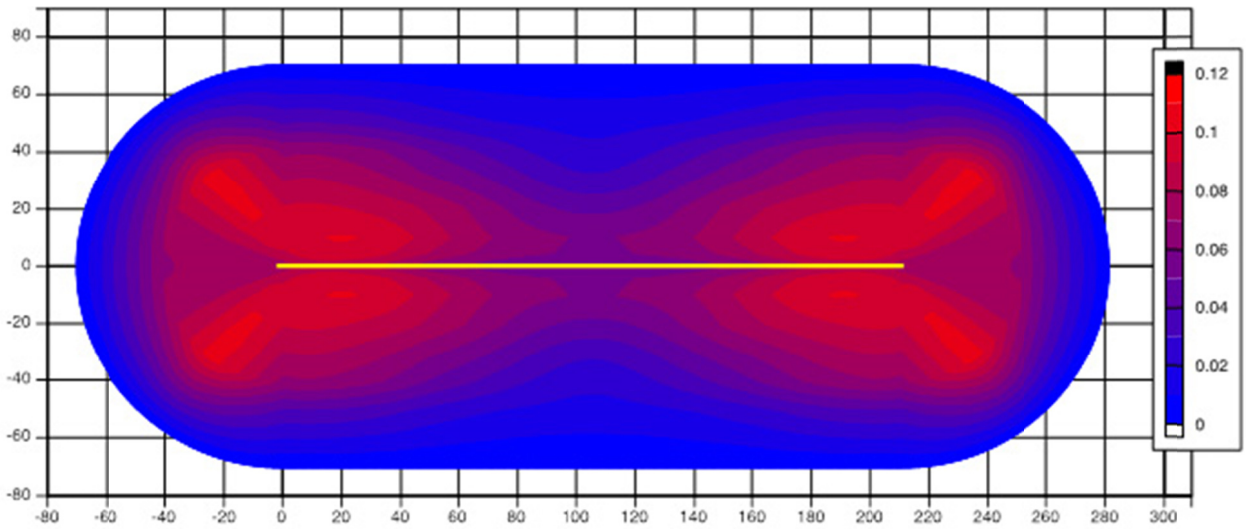

Figure C.40 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture with ϕ_2 reduction.**

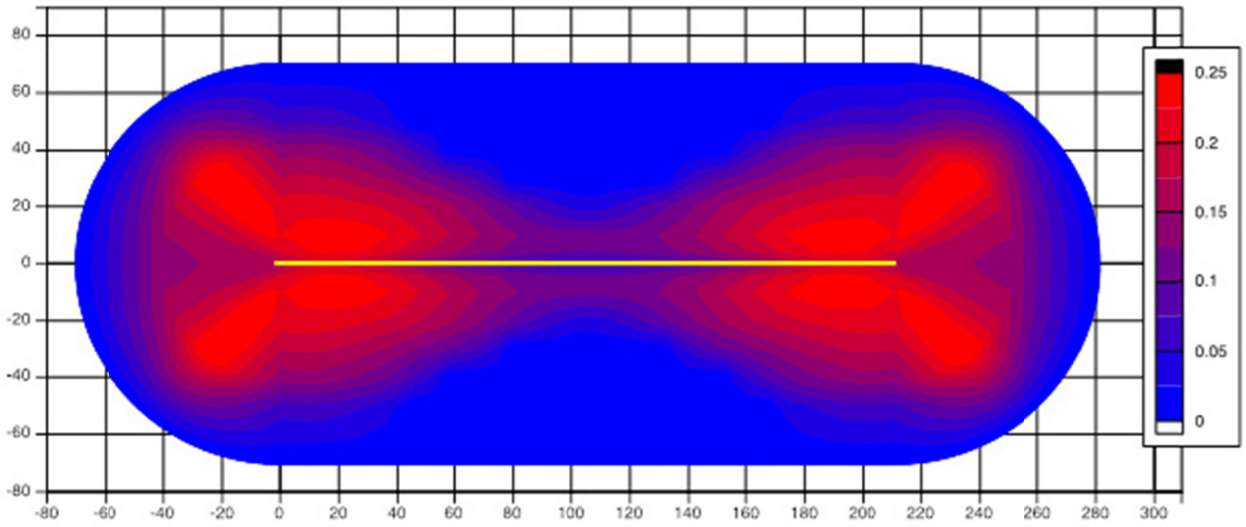

Figure C.41 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture with ϕ_2 reduction.**

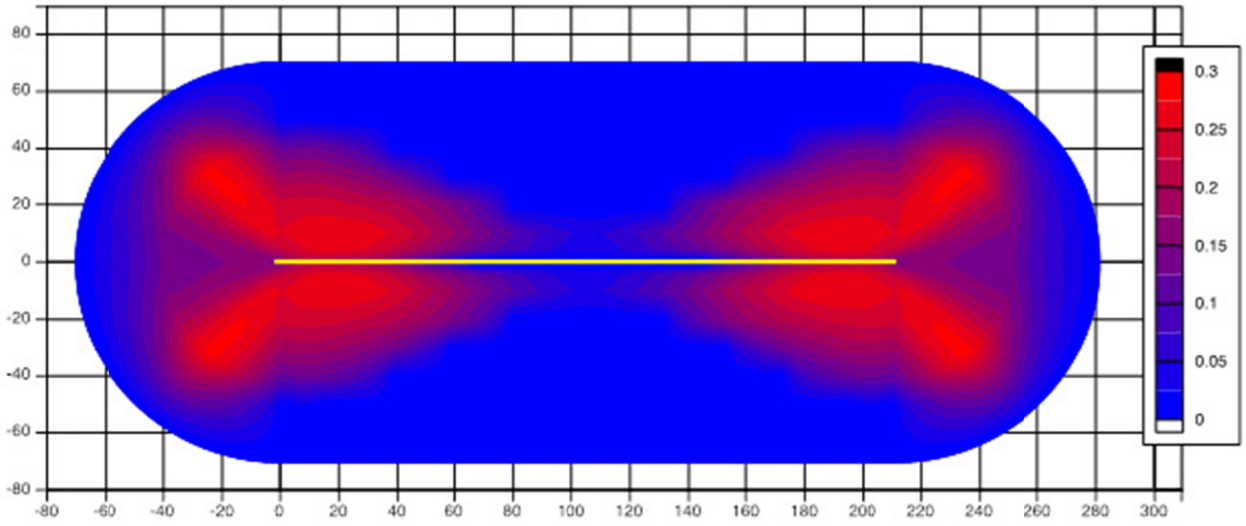

Figure C.42 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 7.5, strike–slip rupture with ϕ_2 reduction.**

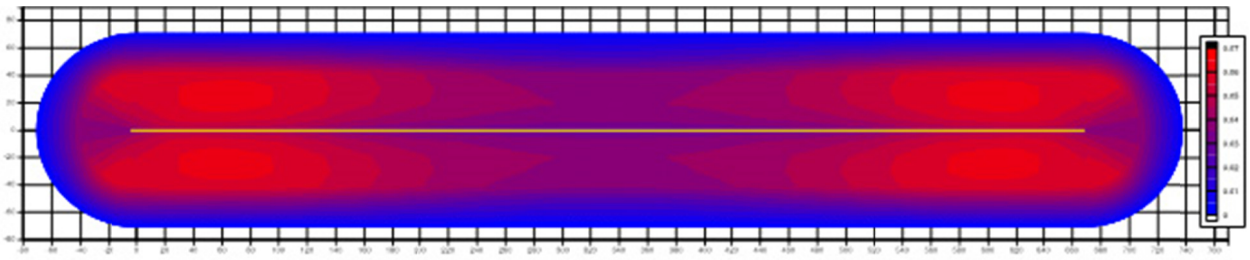

Figure C.43 Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 1 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture with ϕ_2 reduction.

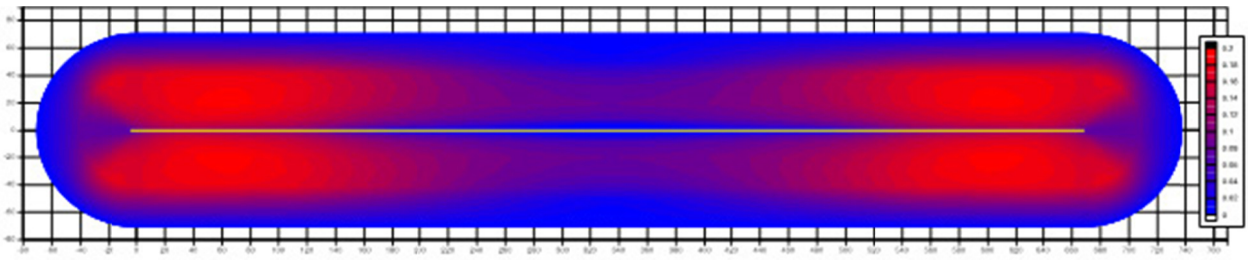

Figure C.44 Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 3 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture with ϕ_2 reduction.

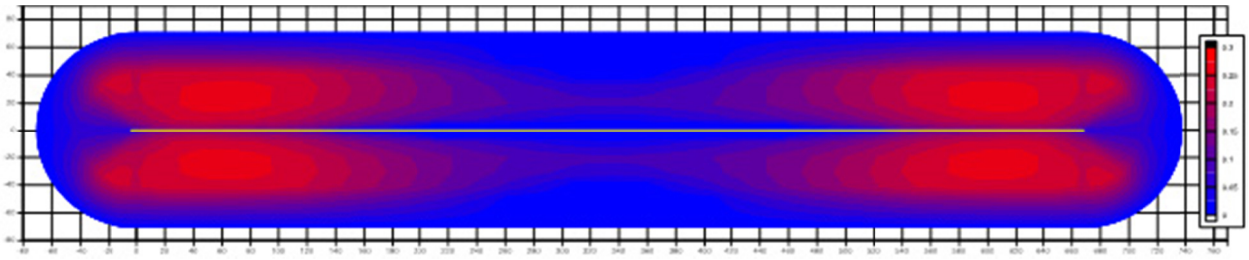

Figure C.45 **Change in the standard deviation of the natural log of the 5% damped pseudo-spectral acceleration at 5 sec due to the randomization of hypocenters using hypocenter distribution model from Appendix D for a moment-magnitude 8, strike–slip rupture with ϕ_2 reduction.**