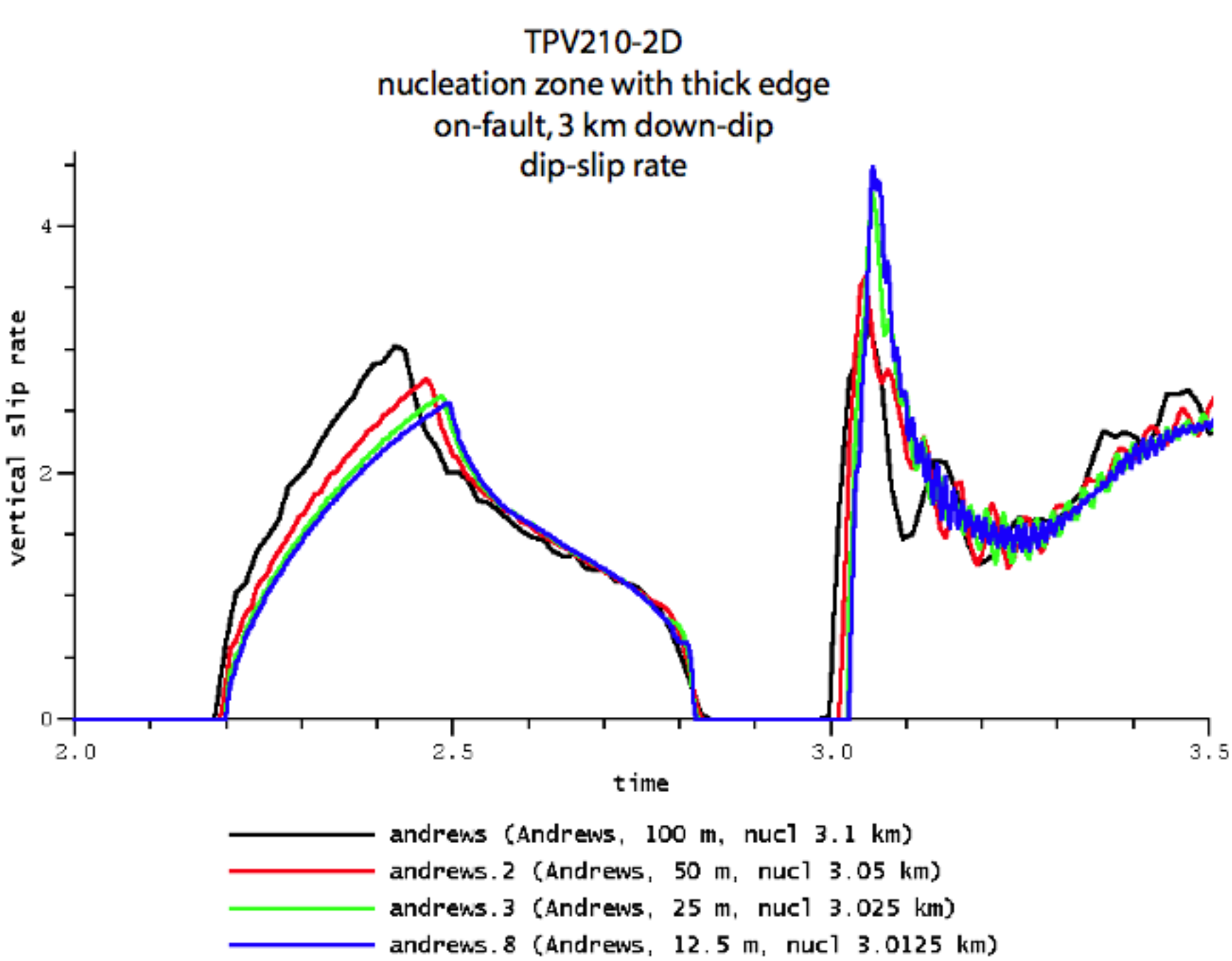
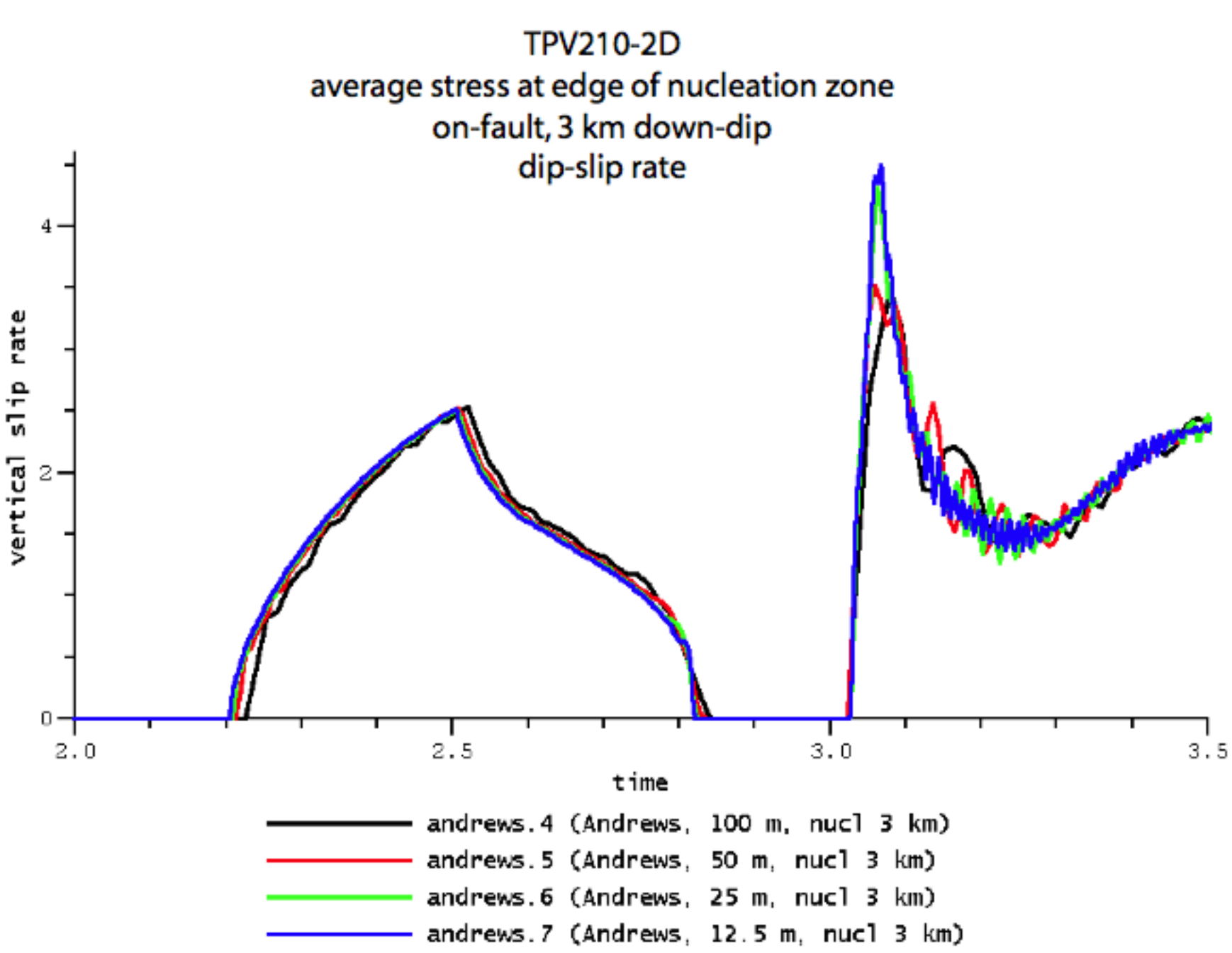
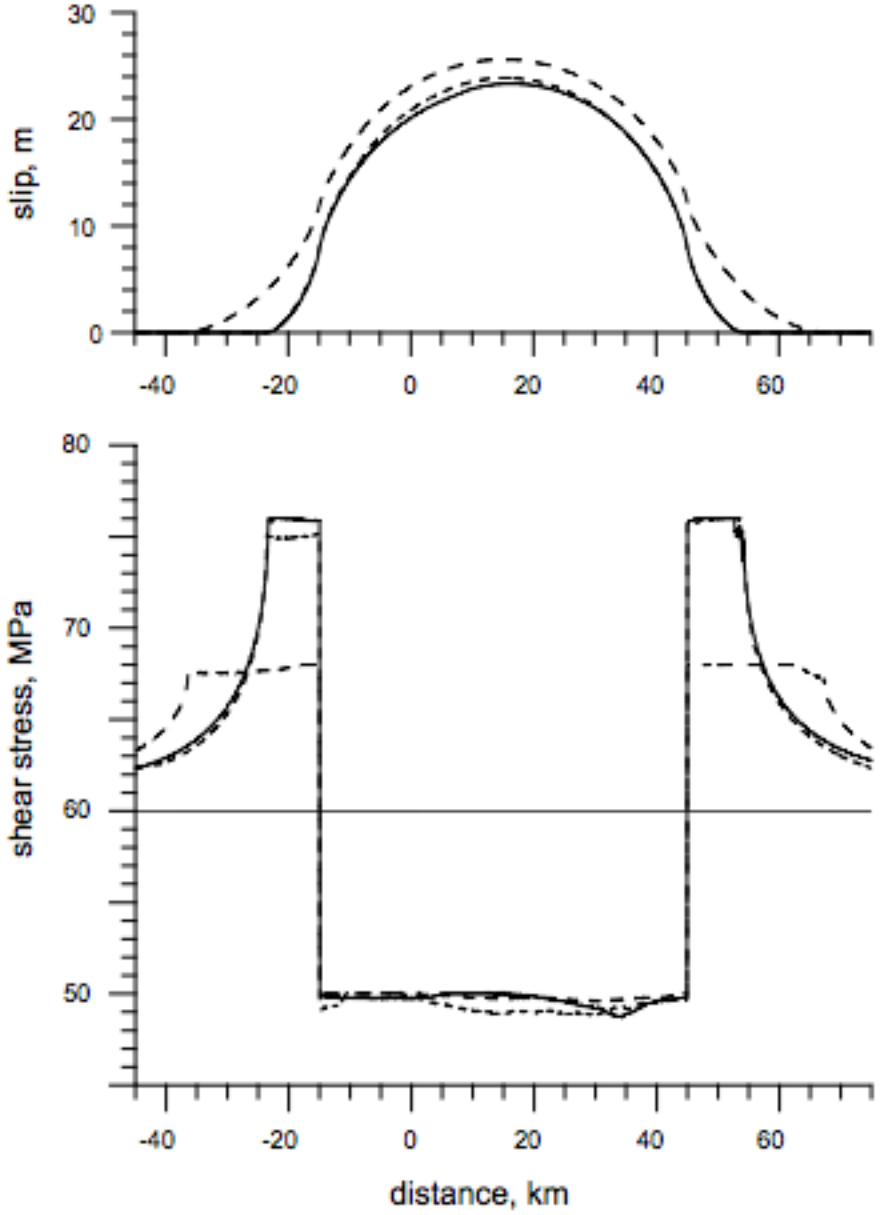

TPV210-2D
nucleation zone with thick edge
on-fault, 3 km down-dip
dip-slip rate
vertical slip rate
0
2
4
2.0
2.5
3.0
3.5
time
andrews (Andrews, 100 m, nucl 3.1 km)
andrews.2 (Andrews, 50 m, nucl 3.05 km)
andrews.3 (Andrews, 25 m, nucl 3.025 km)
andrews.8 (Andrews, 12.5 m, nucl 3.0125 km)


TPV210-2D
average stress at edge of nucleation zone
on-fault, 3 km down-dip
dip-slip rate
vertical slip rate
0
2
4
2.0
2.5
3.0
3.5
time
andrews.4 (Andrews, 100 m, nucl 3 km)
andrews.5 (Andrews, 50 m, nucl 3 km)
andrews.6 (Andrews, 25 m, nucl 3 km)
andrews.7 (Andrews, 12.5 m, nucl 3 km)


slip, m
30
20
10
0
-40
-20
0
20
40
60
shear stress, MPa
80
70
60
50
-40
-20
0
20
40
60
distance, km

Case	Sub-Rayleigh	Supershear, hard stop	Supershear, soft stop
Static friction, inside	0.76	0.68	0.68
Kinetic friction, inside	0.5	0.5	0.5
Static friction, outside	0.76	0.76	0.68
Kinetic friction, outside	0.76	0.76	0.68
D_c	0.346 m	0.5 m	0.5 m
Potency	1.20×10^6 m^3/m	1.22×10^6 m^3/m	1.48×10^6 m^3/m
Elastic energy released	66.3 TJ/m	67.3 TJ/m	82.8 TJ/m
Total friction work	61.1 TJ/m	62.2 TJ/m	77.0 TJ/m
Total fracture work	1.79 TJ/m	1.52 TJ/m	3.32 TJ/m
Radiated energy	3.42 TJ/m	3.58 TJ/m	2.46 TJ/m
Apparent stress	2.86 MPa	2.93 MPa	1.66 MPa