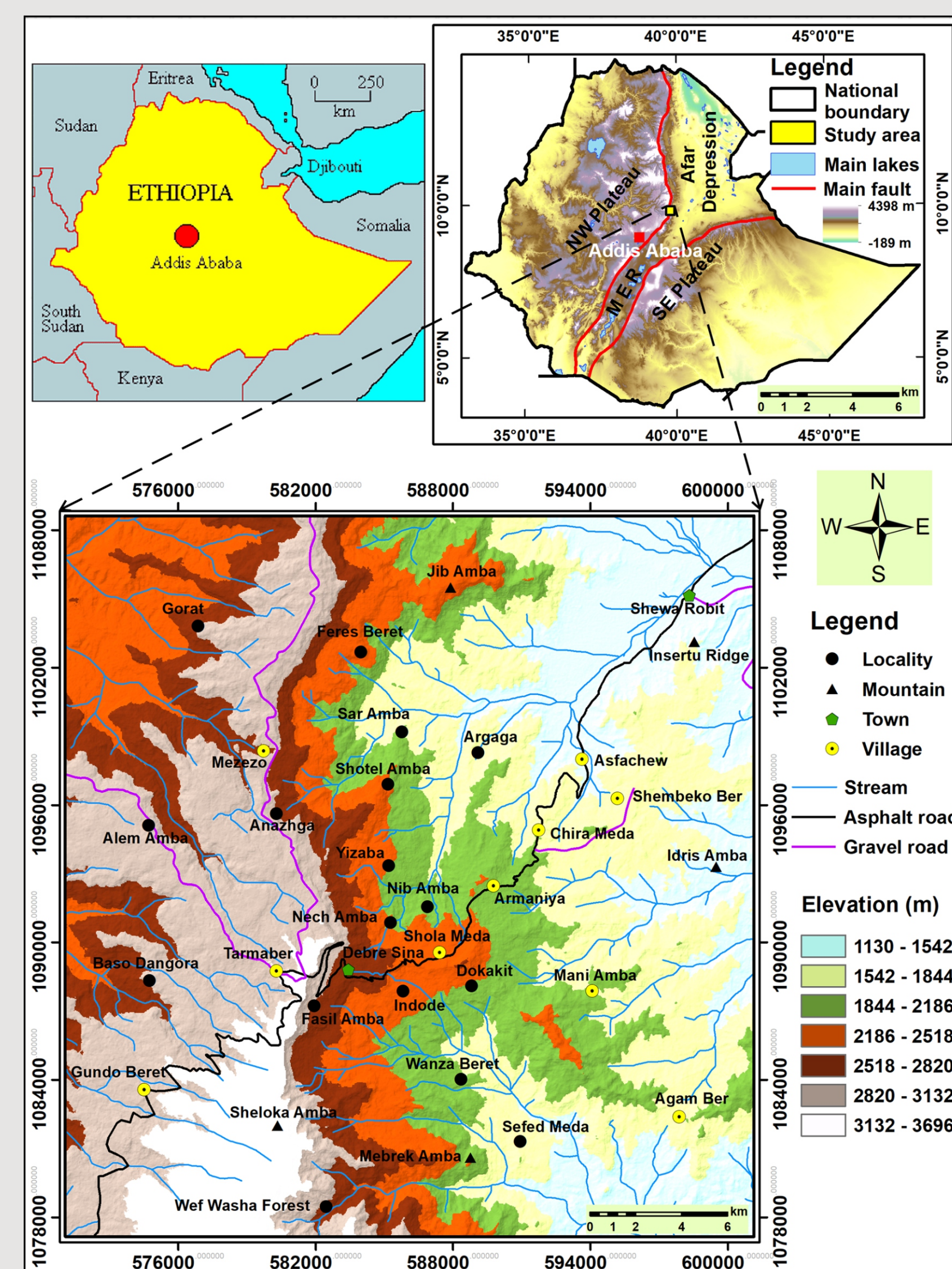
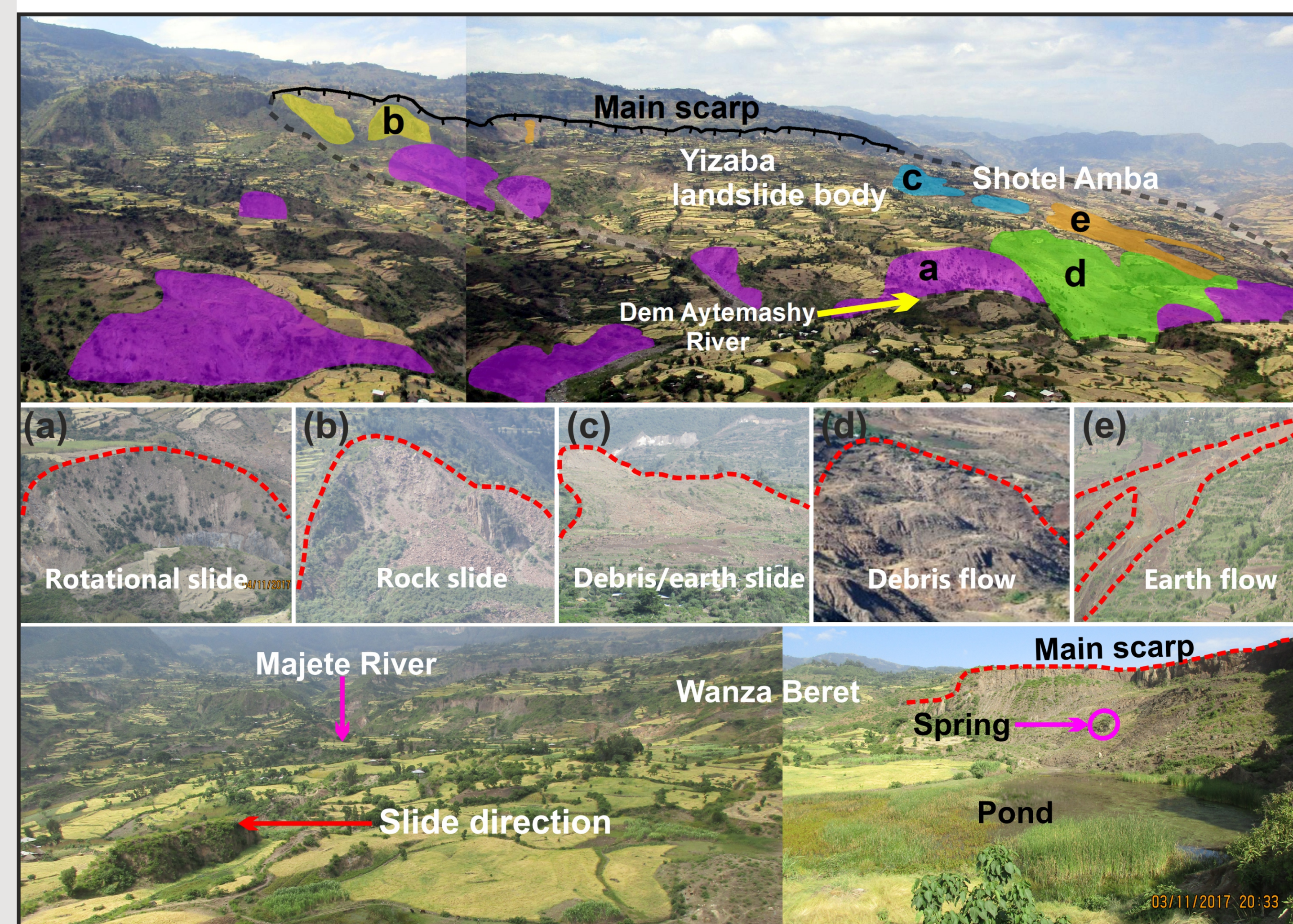
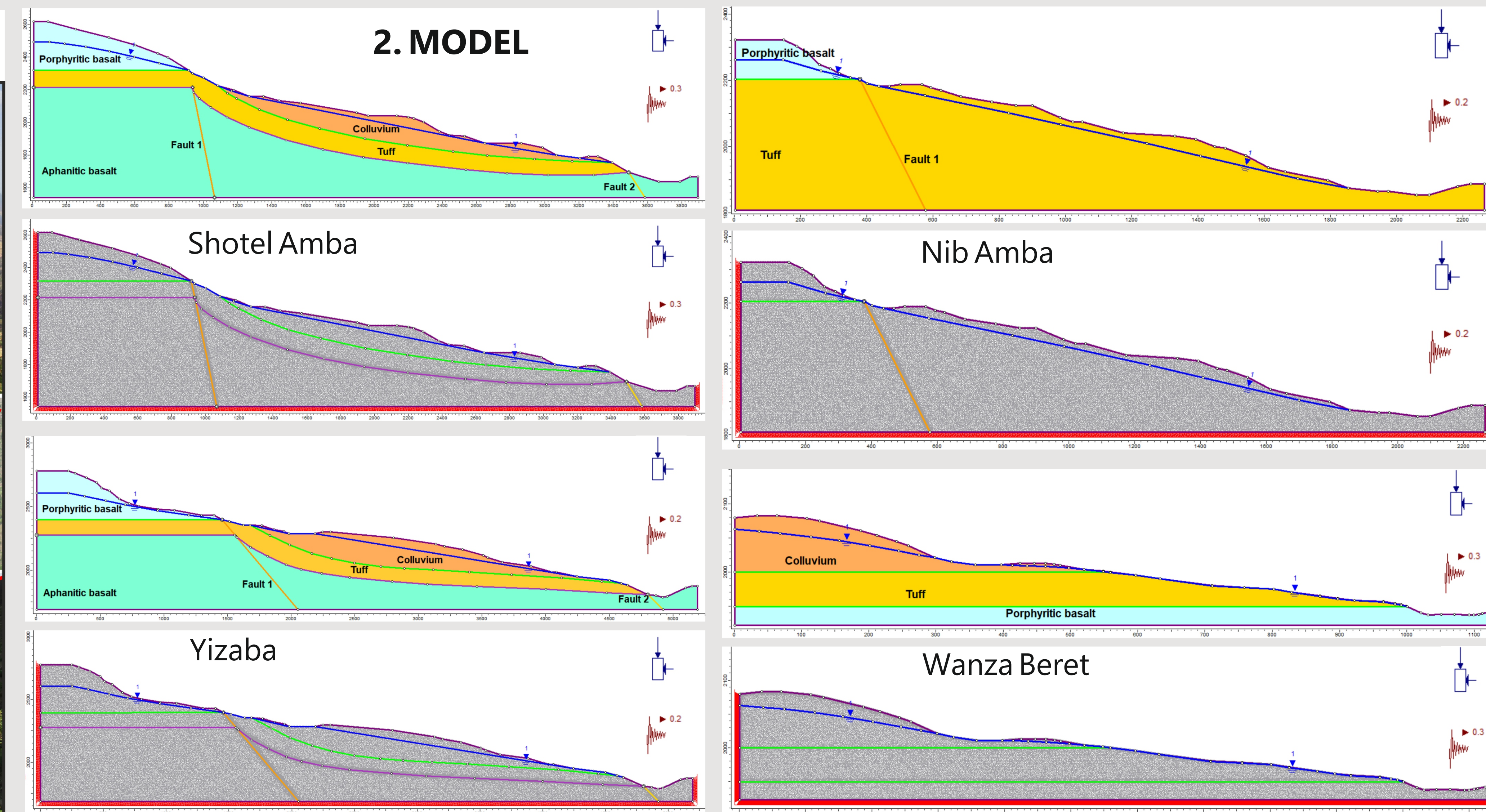




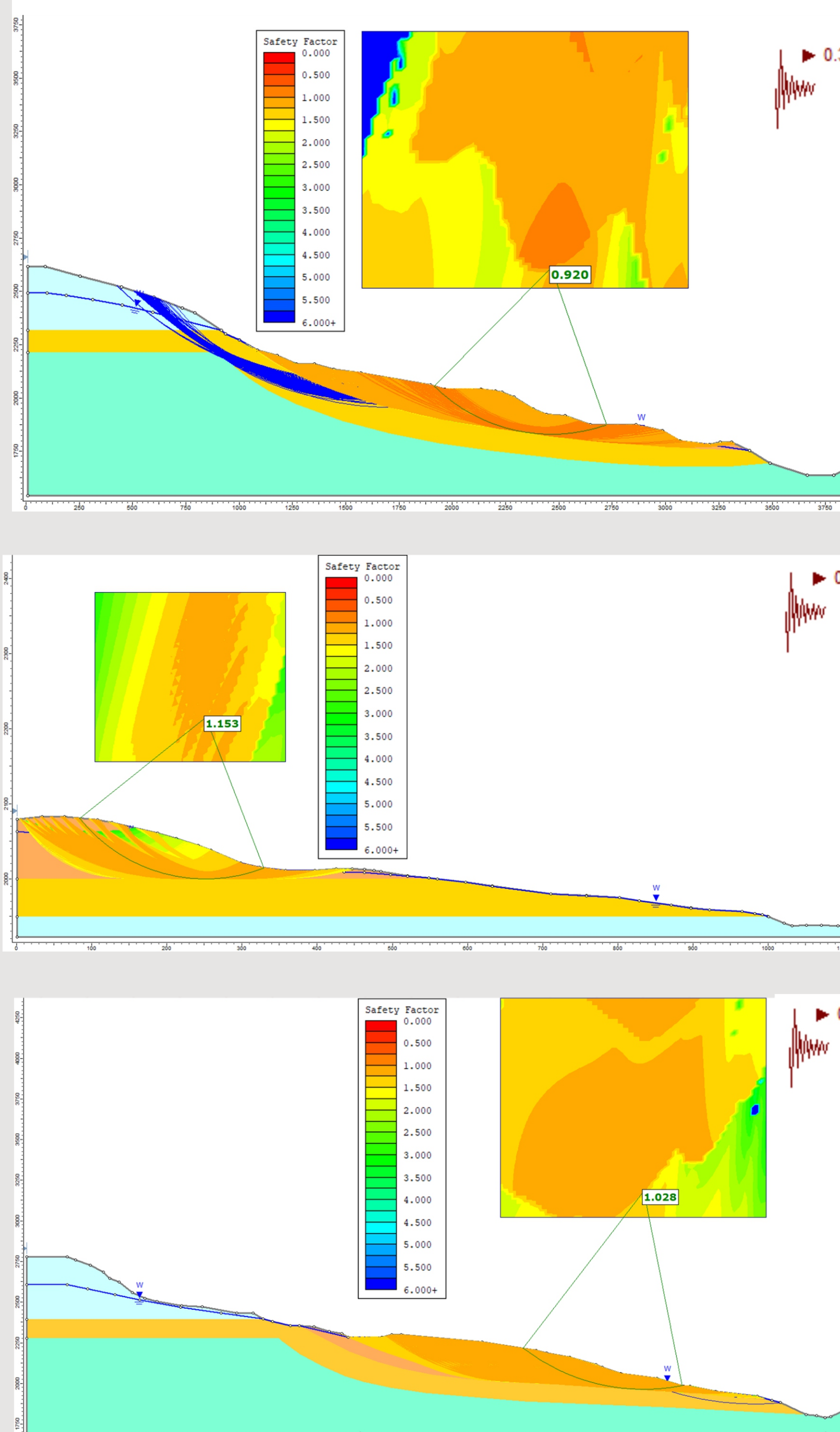
1. INTRODUCTION



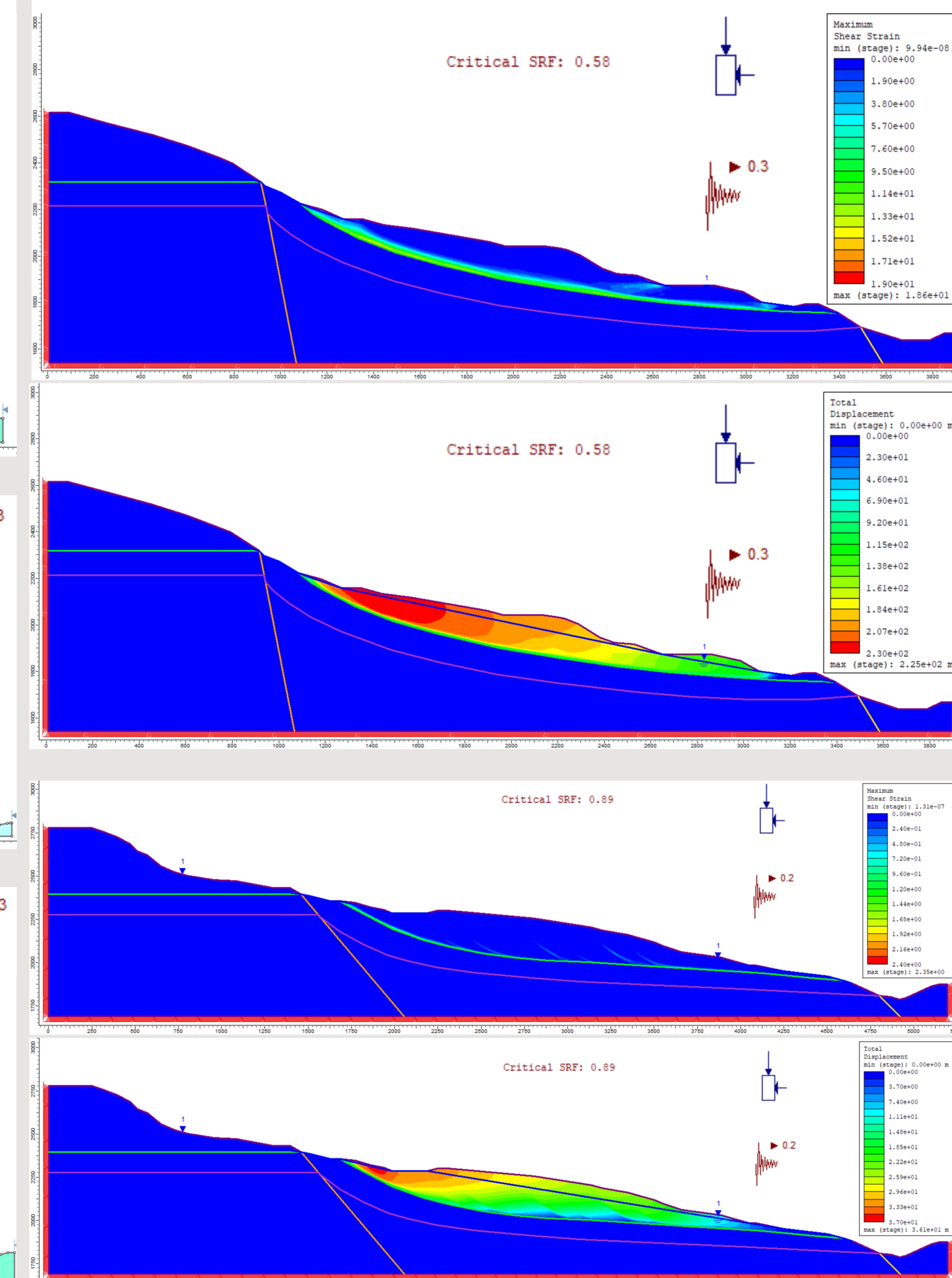
2. MODEL



3. LIMIT EQUILIBRIUM ANALYSIS



4. FINITE ELEMENT ANALYSIS



5. RESULTS

Slope section	LEM Min. FS ($\alpha h=0$)				FEM ($\alpha h=0$)	
	BSM	JSM	SM	MPM	Critical SRF	Max. total displacement (m)
Shotel Amba	2.26	2.16	2.27	2.27	1.51	23.2
Yizaba	2.59	2.52	2.59	2.59	1.87	15.6
Nib Amba	11.31	10.46	11.31	11.17	1.95	0.52
Wanza Beret	2.67	2.53	2.67	2.67	2.01	0.84

Slope section	Seismic load αh	LEM Min. FS				FEM	
		BSM	JSM	SM	MPM	Critical SRF	Max. total displacement (m)
Shotel Amba	0.3	0.98	0.92	1.01	1.02	0.58	225
Yizaba	0.2	1.06	1.02	1.07	1.07	0.89	36.1
Nib Amba	0.2	4.76	4.39	4.75	4.62	1.03	1.3
Wanza Beret	0.3	1.23	1.15	1.25	1.24	0.84	1.9

LEM= Limit Equilibrium Method
 BSM= Bishop's Simplified Method
 JSM= Janbu's Simplified Method
 SM= Spencer's Method
 MPM= Morgenstern-Price Method
 FEM= Finite Element Method