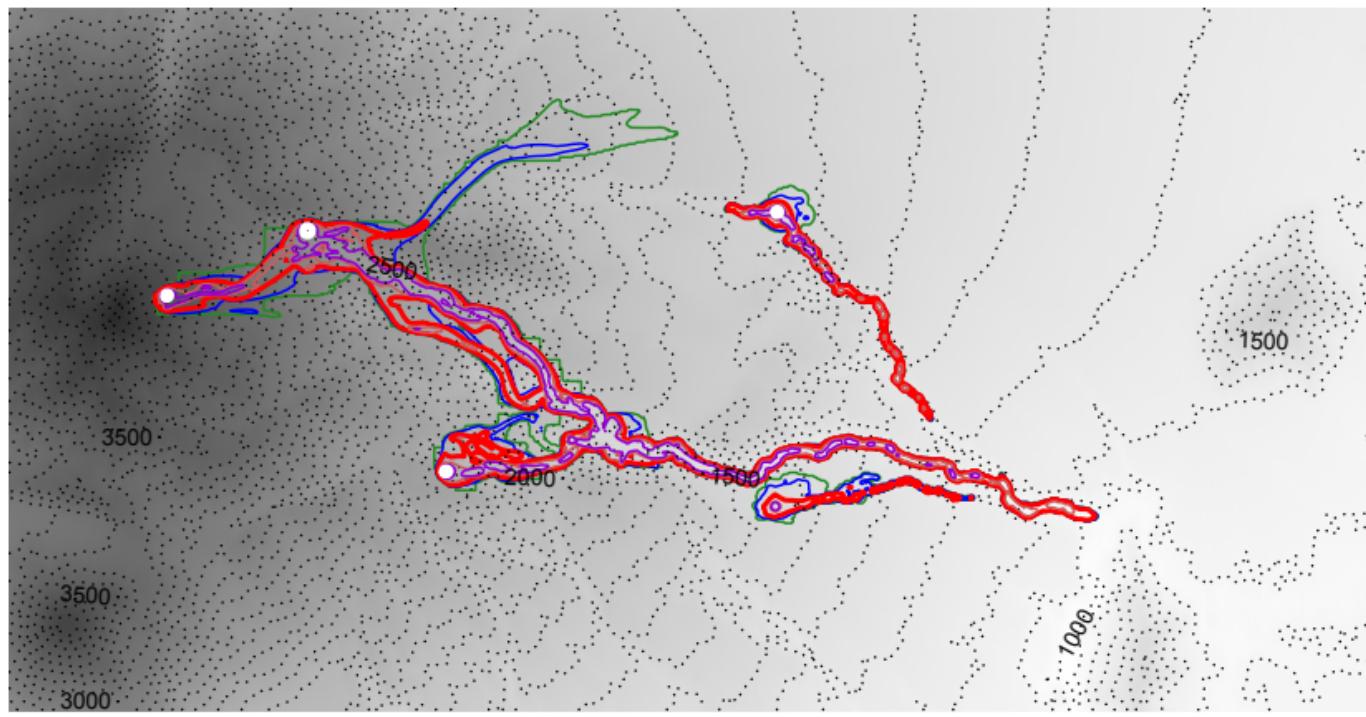


Supporting Information 3.1

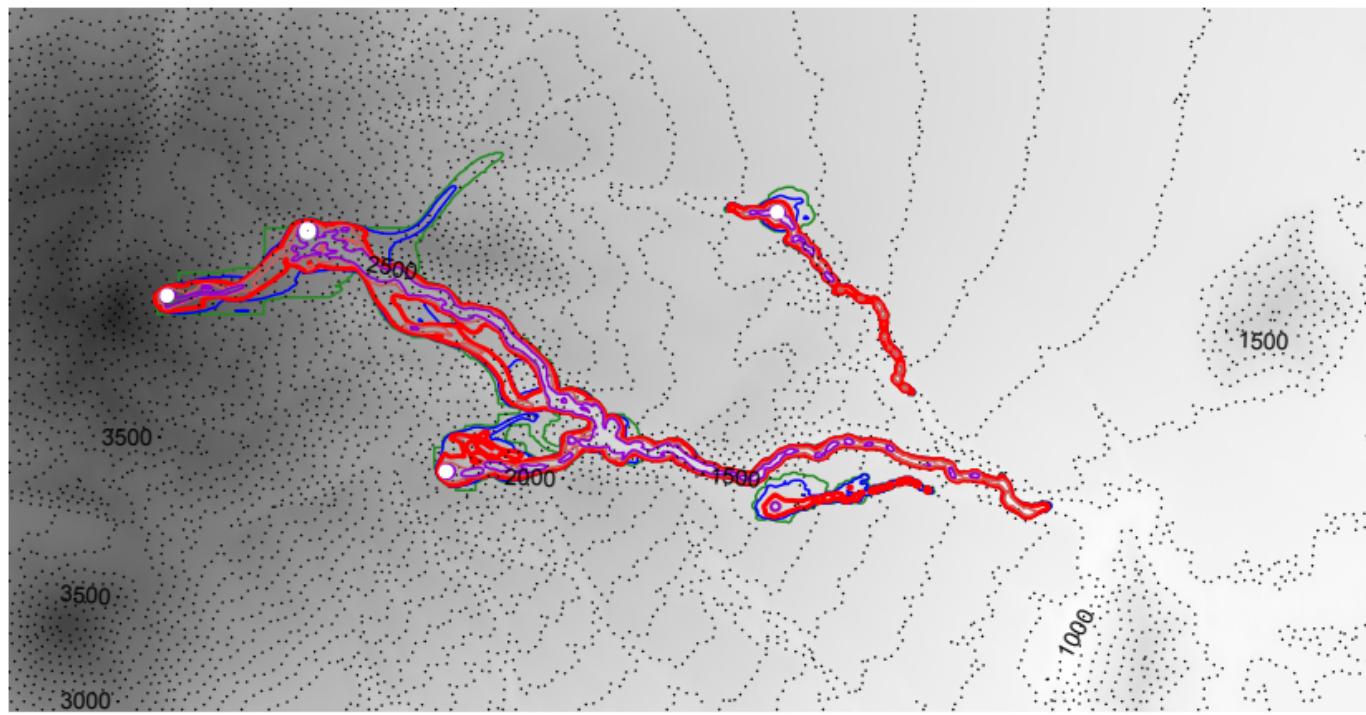
Pouliquen-Forterre
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(a) restriction on $\{\beta=0.1, \Phi_2=7^\circ\}$

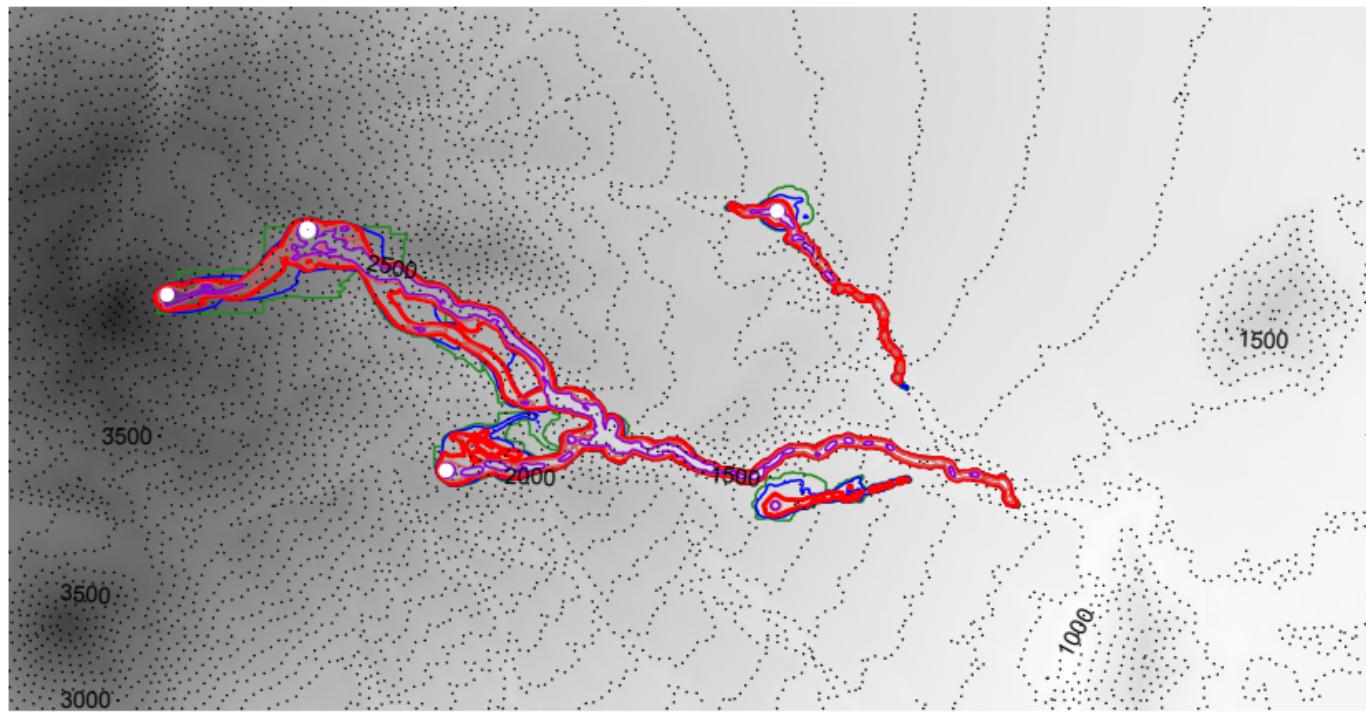
PF, V = 4.18e6, phi1 = 1, phi2 = 7, B=0.1, L=2e-1, 1200s



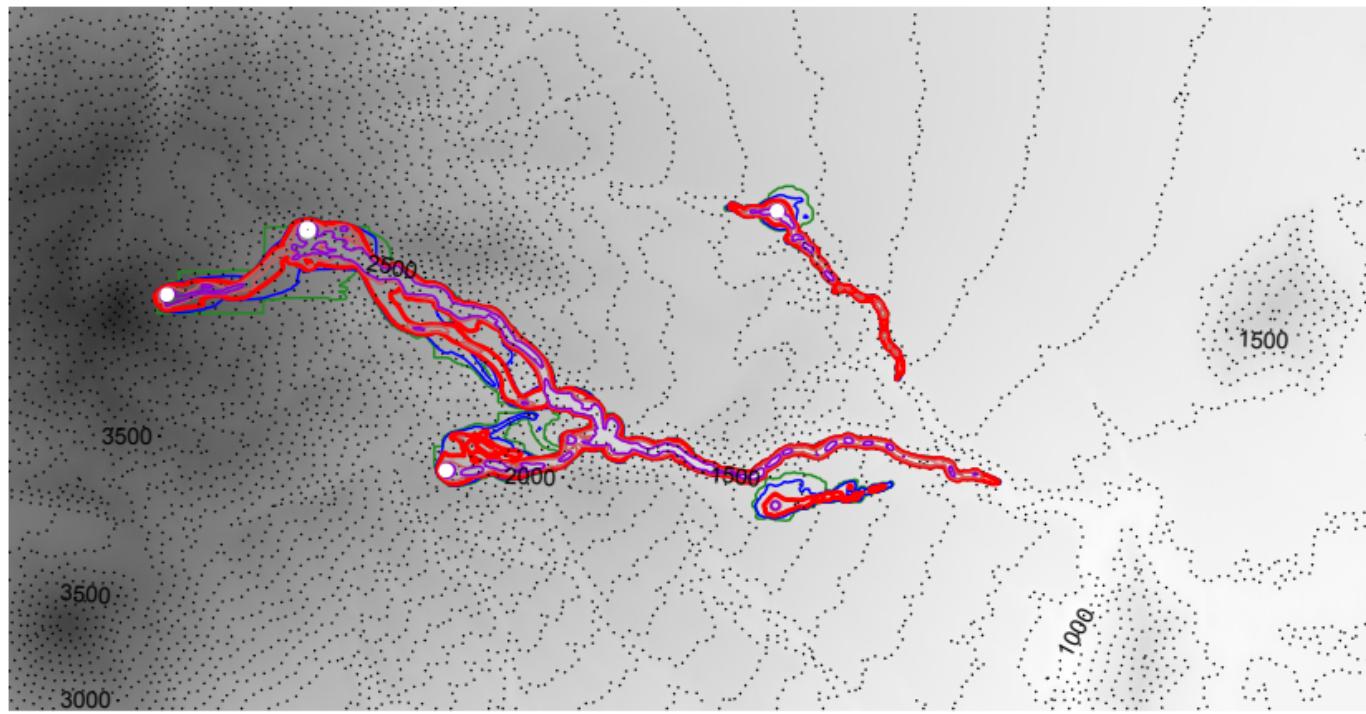
PF, V = 4.18e6, phi1 = 1, phi2 = 7, B=0.1, L=3e-1, 1200s



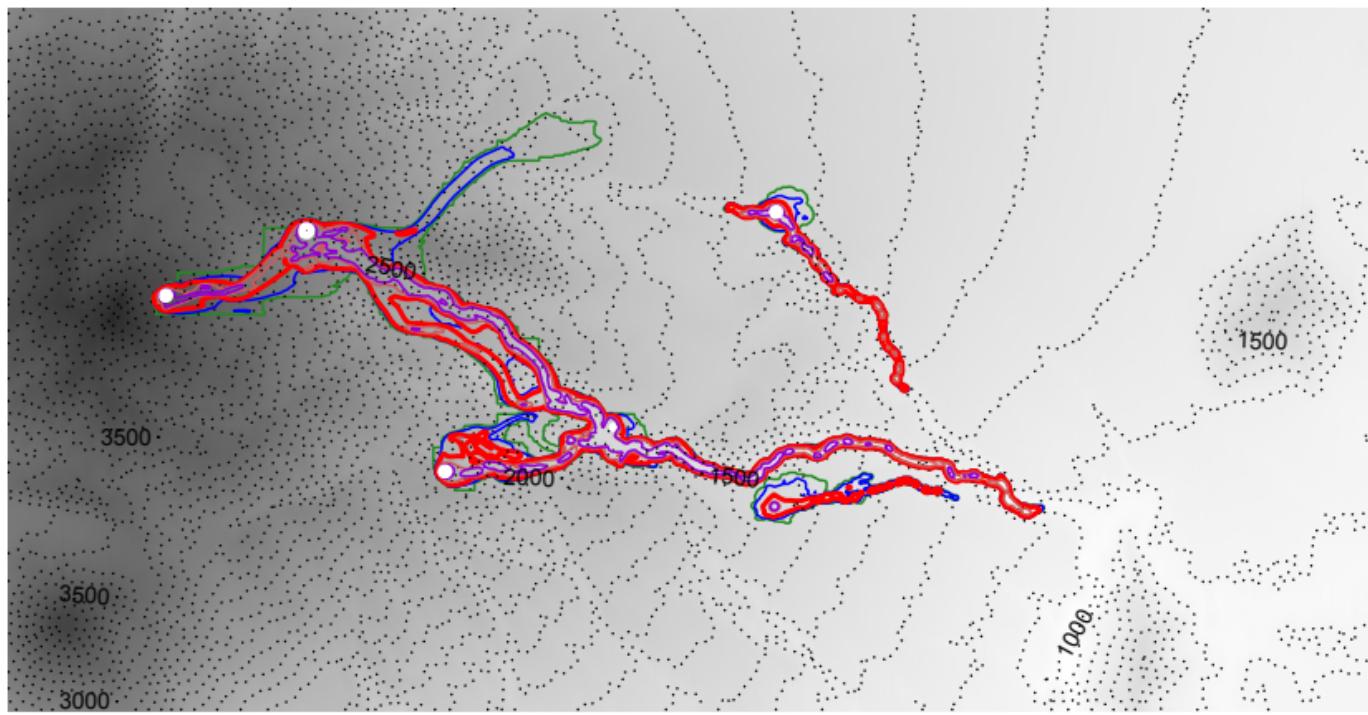
PF, V = 4.18e6, phi1 = 1, phi2 = 7, B=0.1, L=4e-1, 1200s



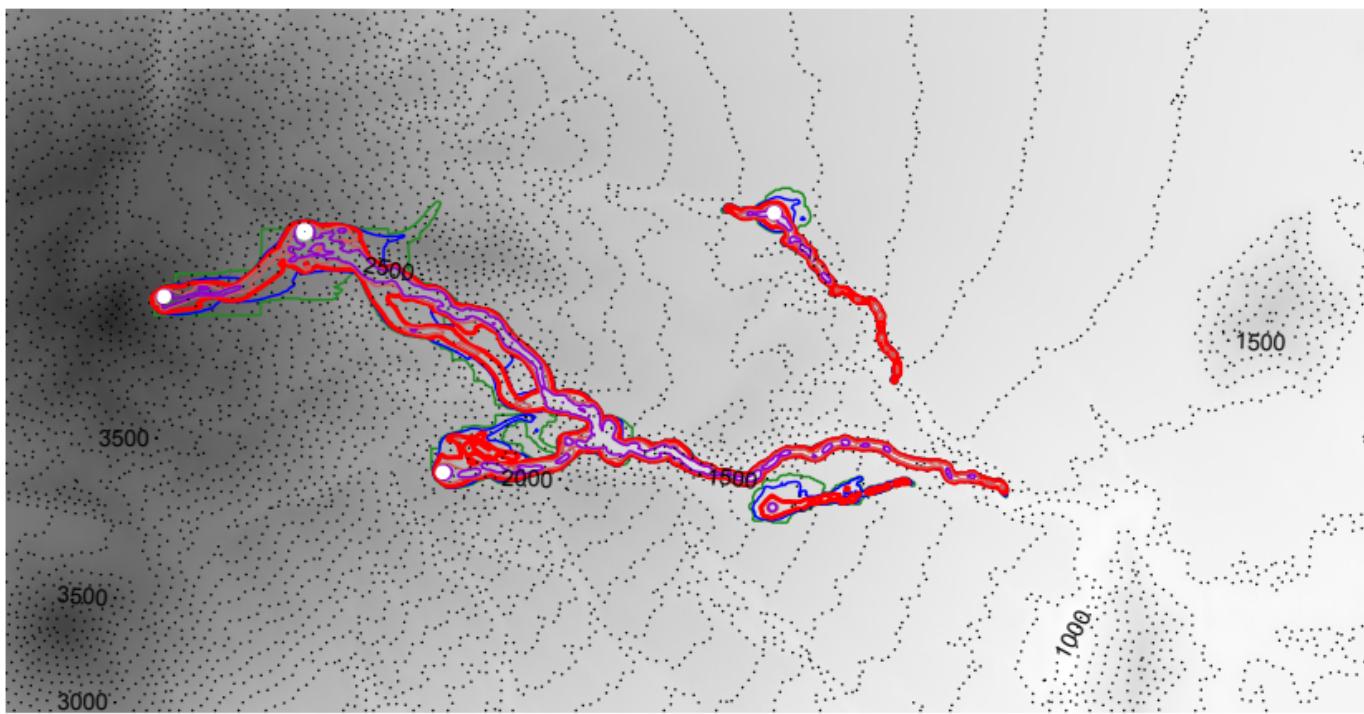
PF, V = 4.18e6, phi1 = 1, phi2 = 7, B=0.1, L=5e-1, 1200s



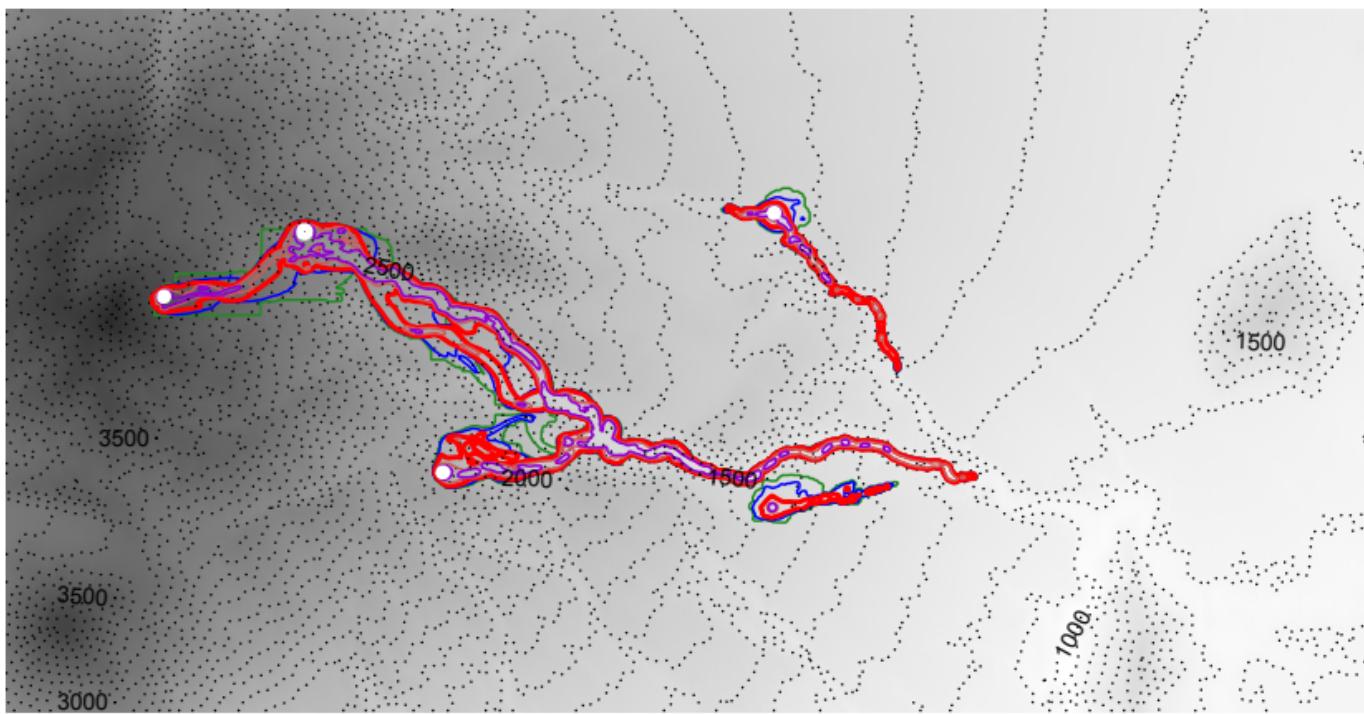
PF, V = 4.18e6, phi1 = 1.5, phi2 = 7, B=0.1, L=2e-1, 1200s



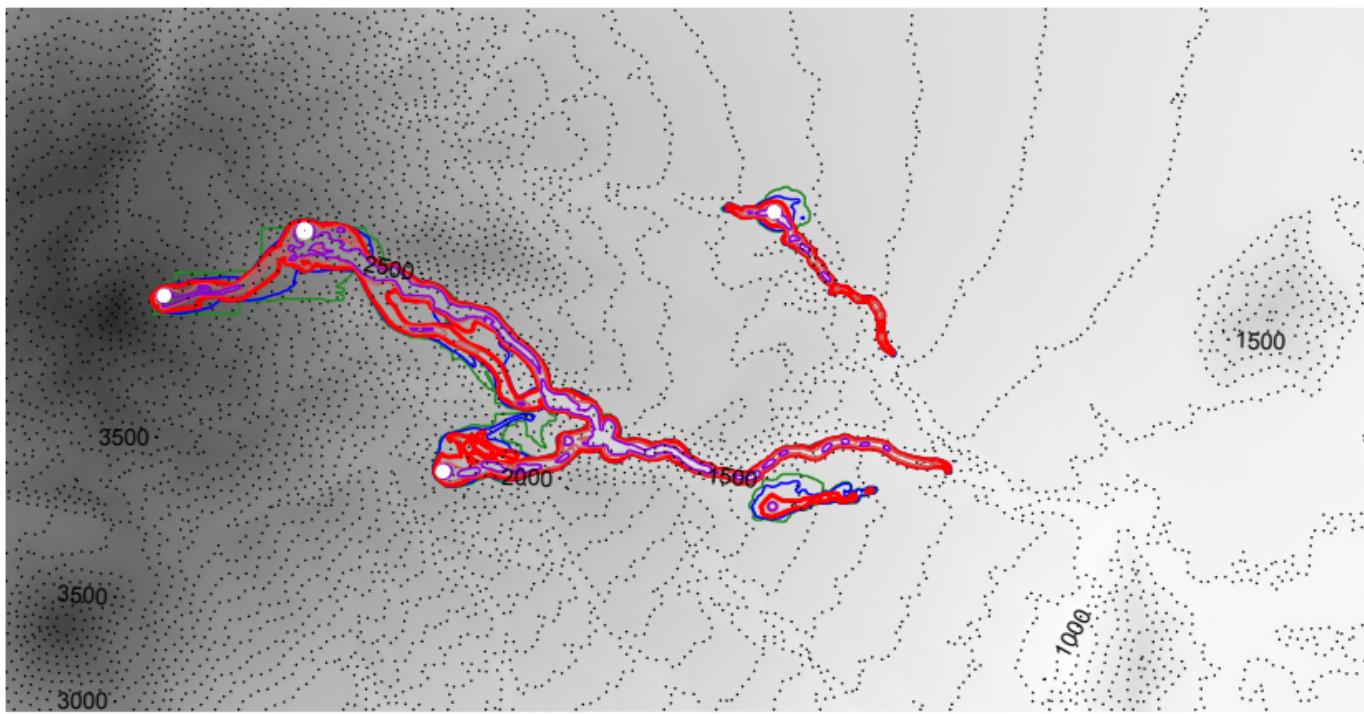
PF, V = 4.18e6, phi1 = 1.5, phi2 = 7, B=0.1, L=3e-1, 1200s



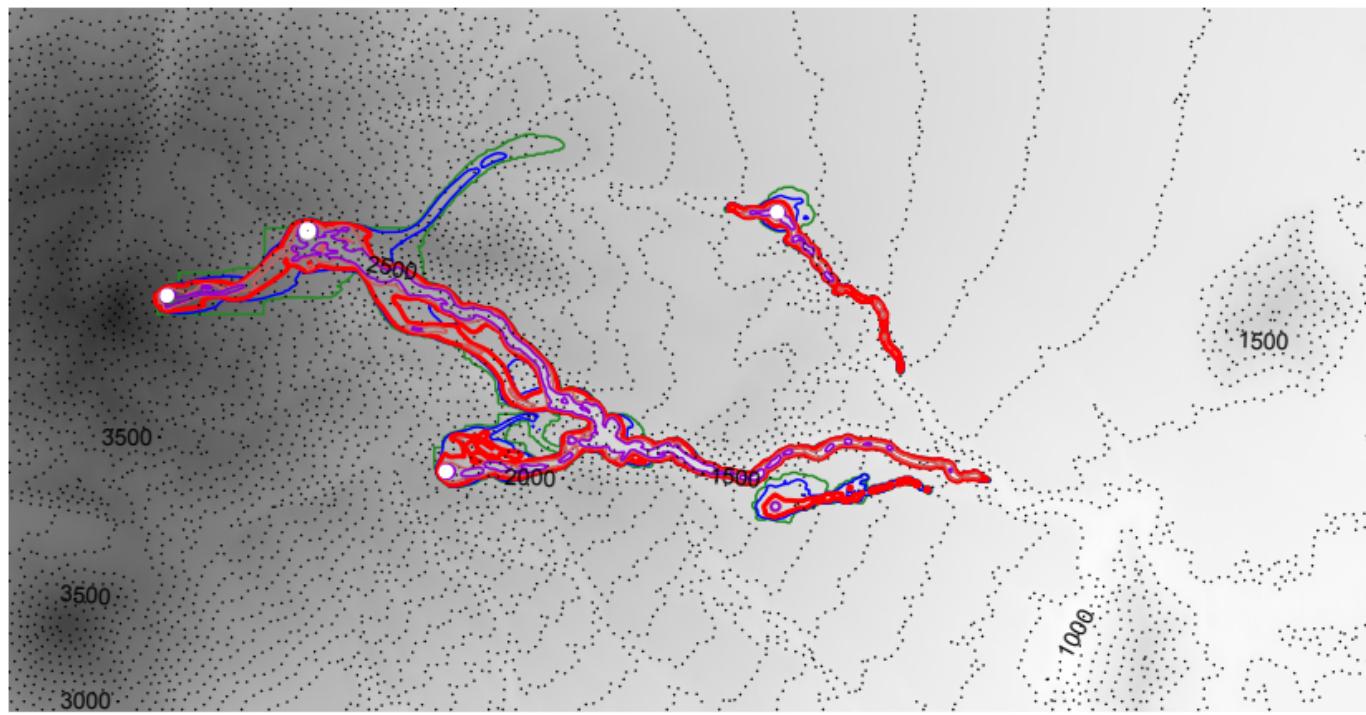
PF, V = 4.18e6, phi1 = 1.5, phi2 = 7, B=0.1, L=4e-1, 1200s



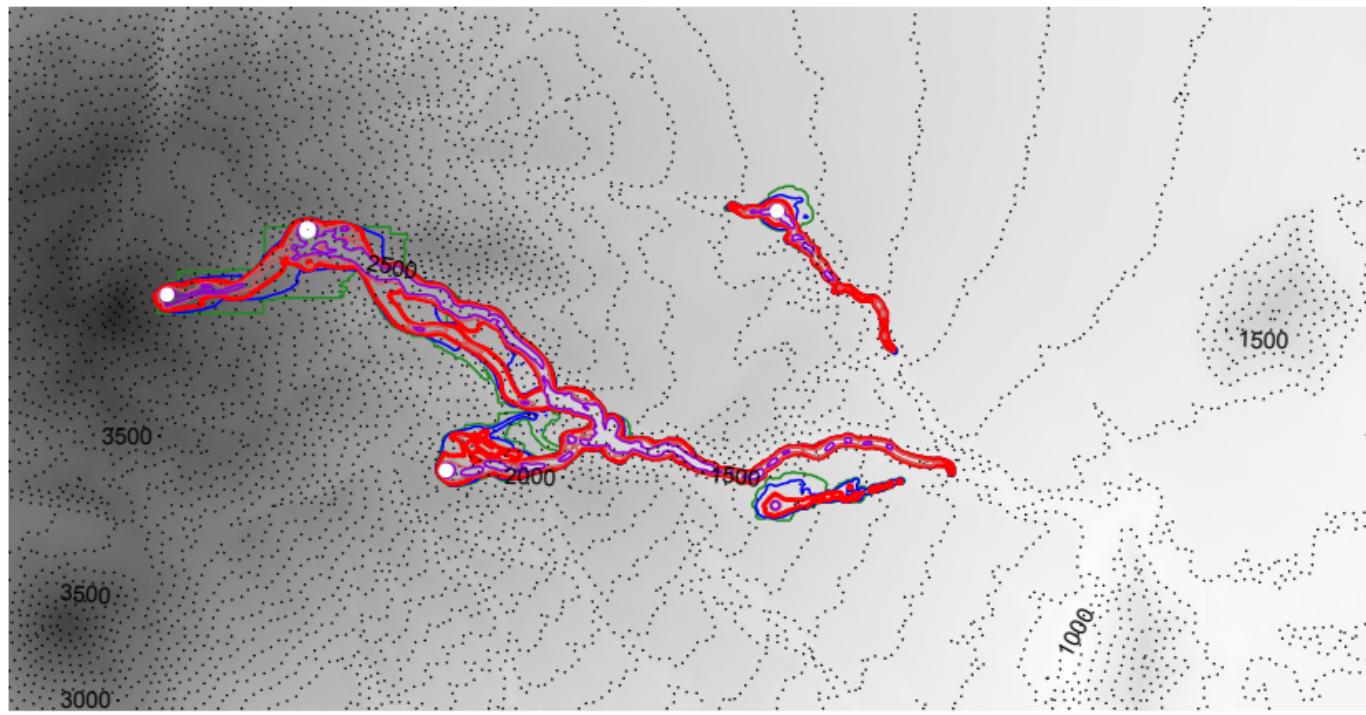
PF, V = 4.18e6, phi1 = 1.5, phi2 = 7, B=0.1, L=5e-1, 1200s



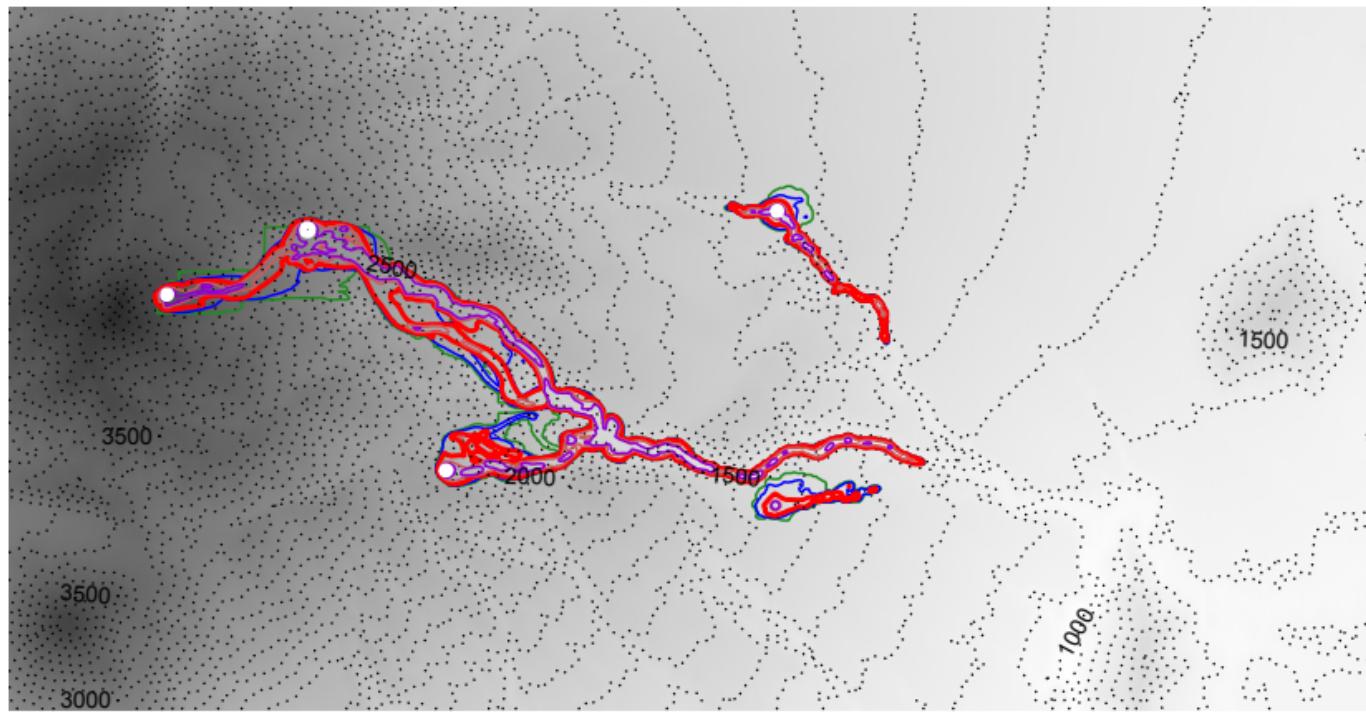
PF, V = 4.18e6, phi1 = 2, phi2 = 7, B=0.1, L=2e-1, 1200s



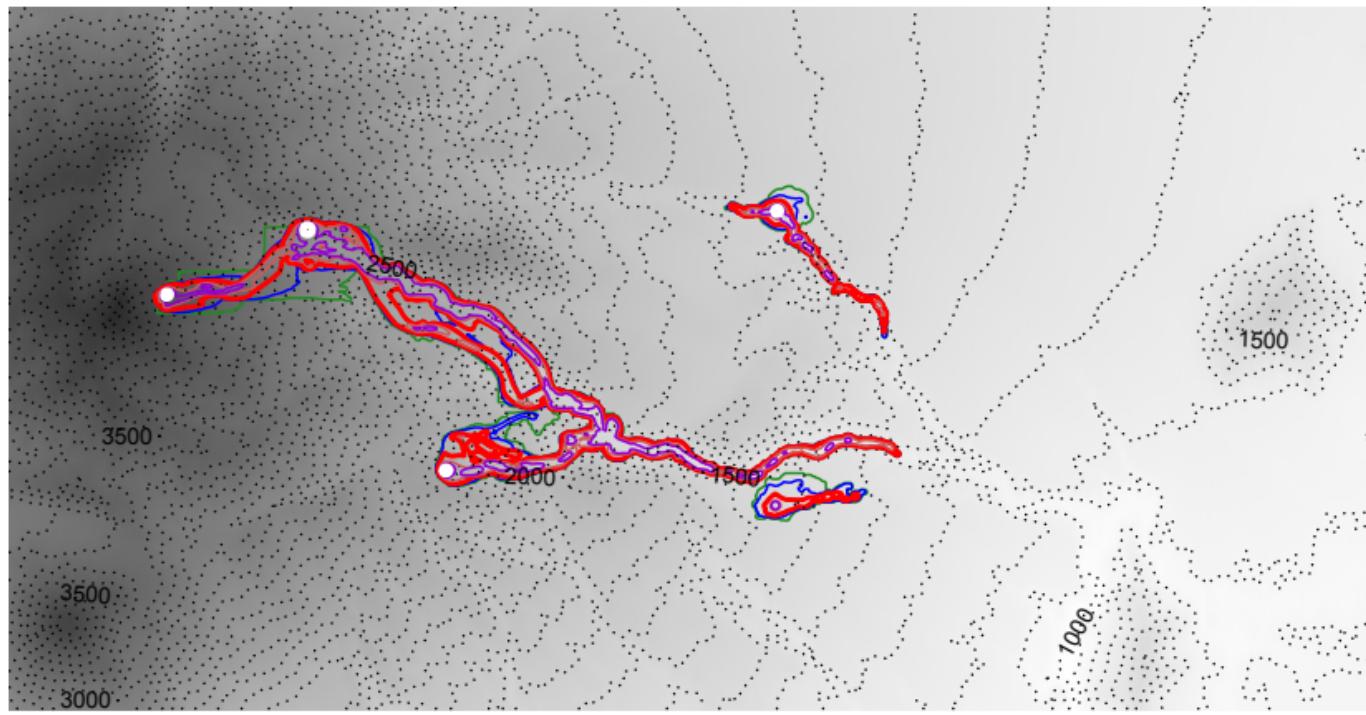
PF, V =4.18e6, phi1 =2, phi2 =7, B=0.1, L=3e-1, 1200s



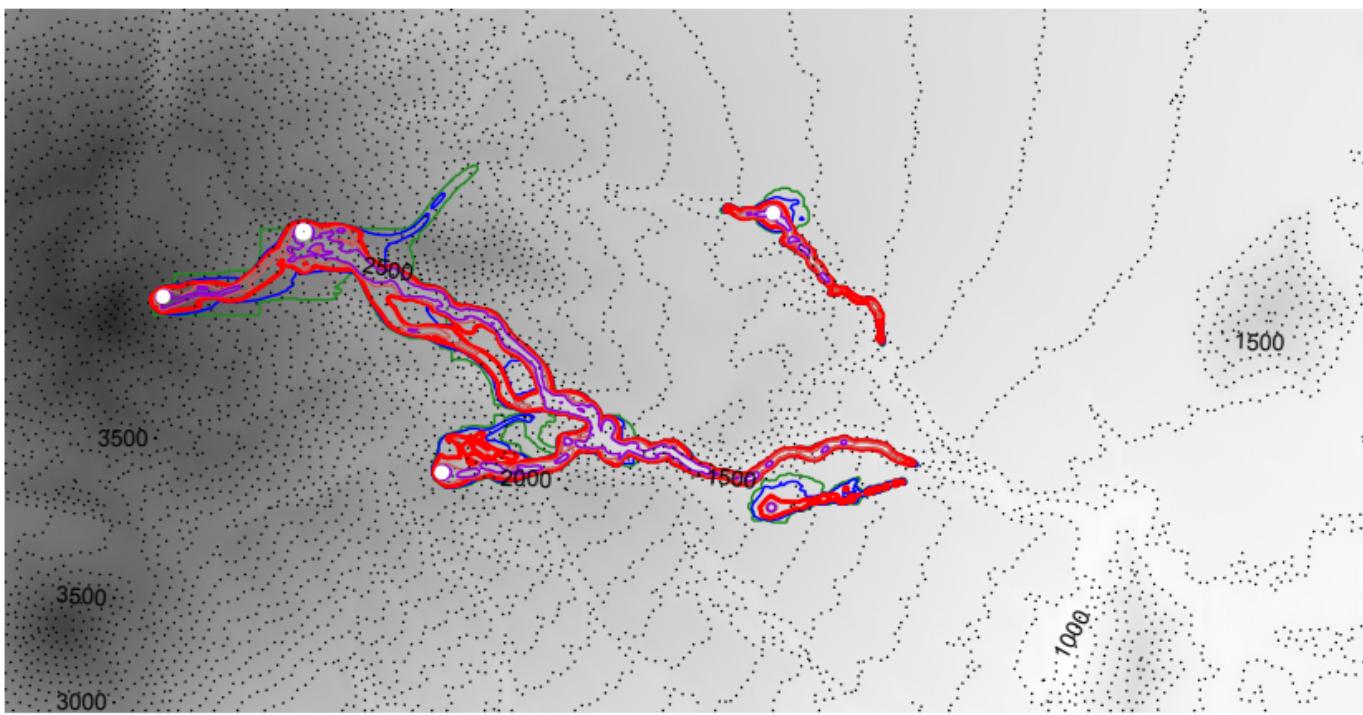
PF, V =4.18e6, phi1 =2, phi2 =7, B=0.1, L=4e-1, 1200s



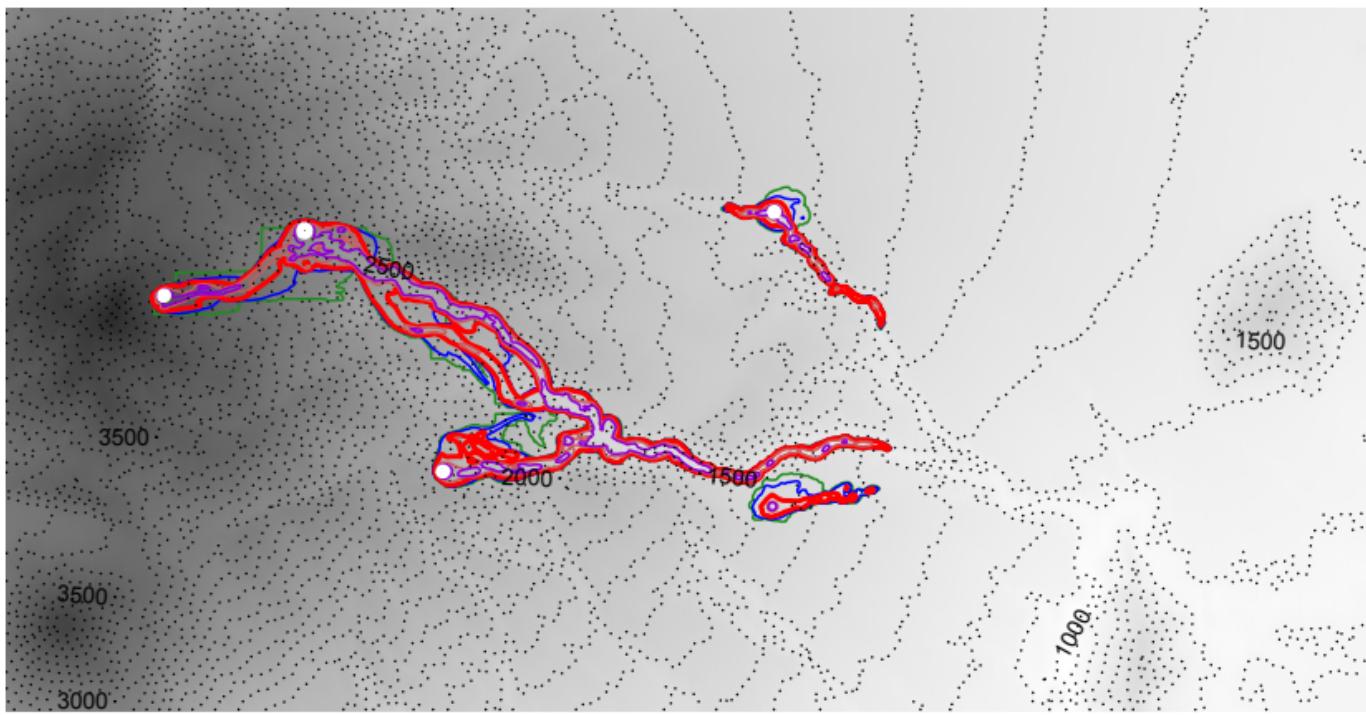
PF, V =4.18e6, phi1 =2, phi2 =7, B=0.1, L=5e-1, 1200s



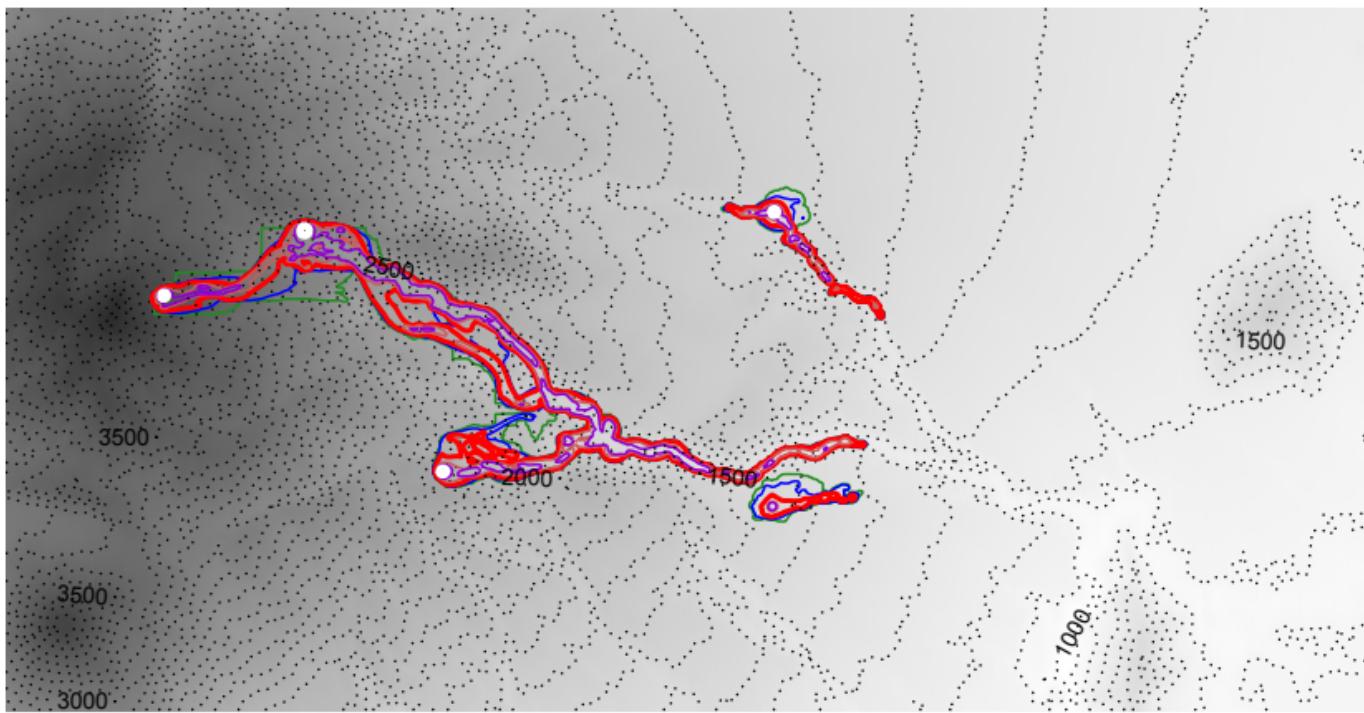
PF, V =4.18e6, phi1 =2.5, phi2 =7, B=0.1, L=2e-1, 1200s



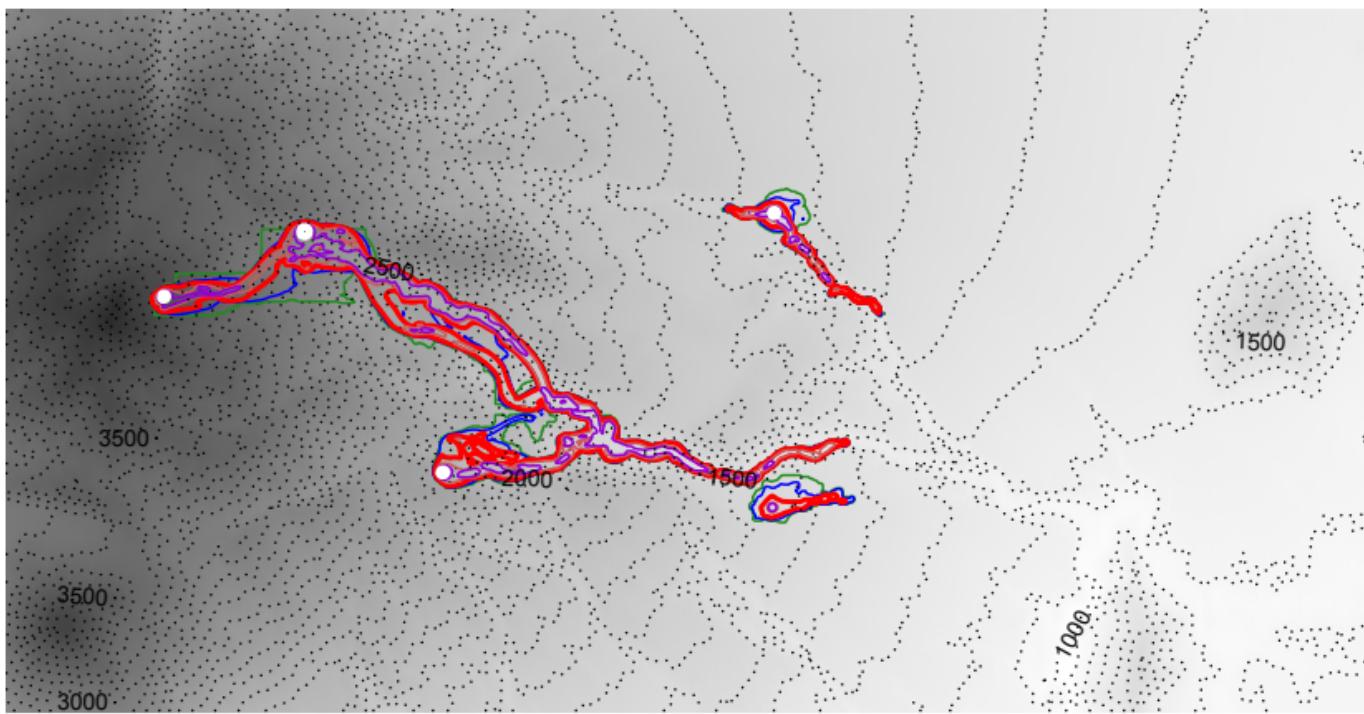
PF, V = 4.18e6, phi1 = 2.5, phi2 = 7, B=0.1, L=3e-1, 1200s



PF, V =4.18e6, phi1 =2.5, phi2 =7, B=0.1, L=4e-1, 1200s



PF, V = 4.18e6, phi1 = 2.5, phi2 = 7, B=0.1, L=5e-1, 1200s

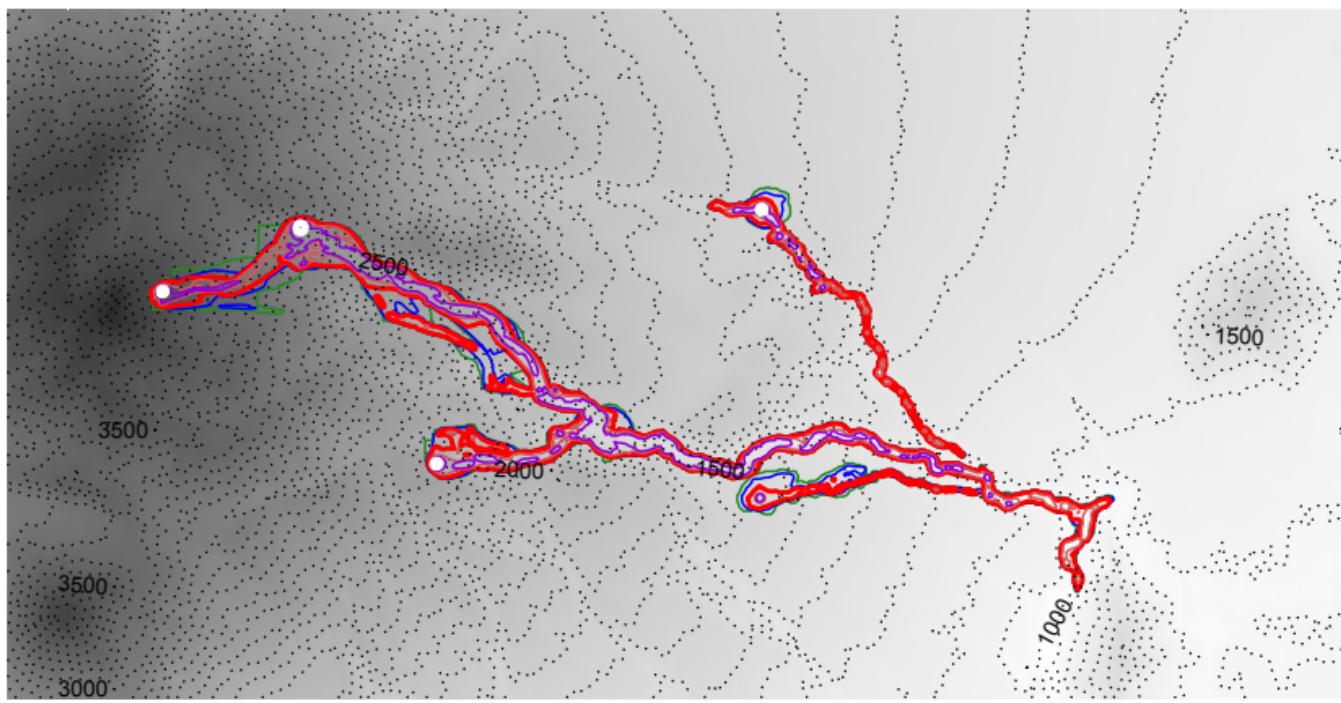


Supporting Information 3.2

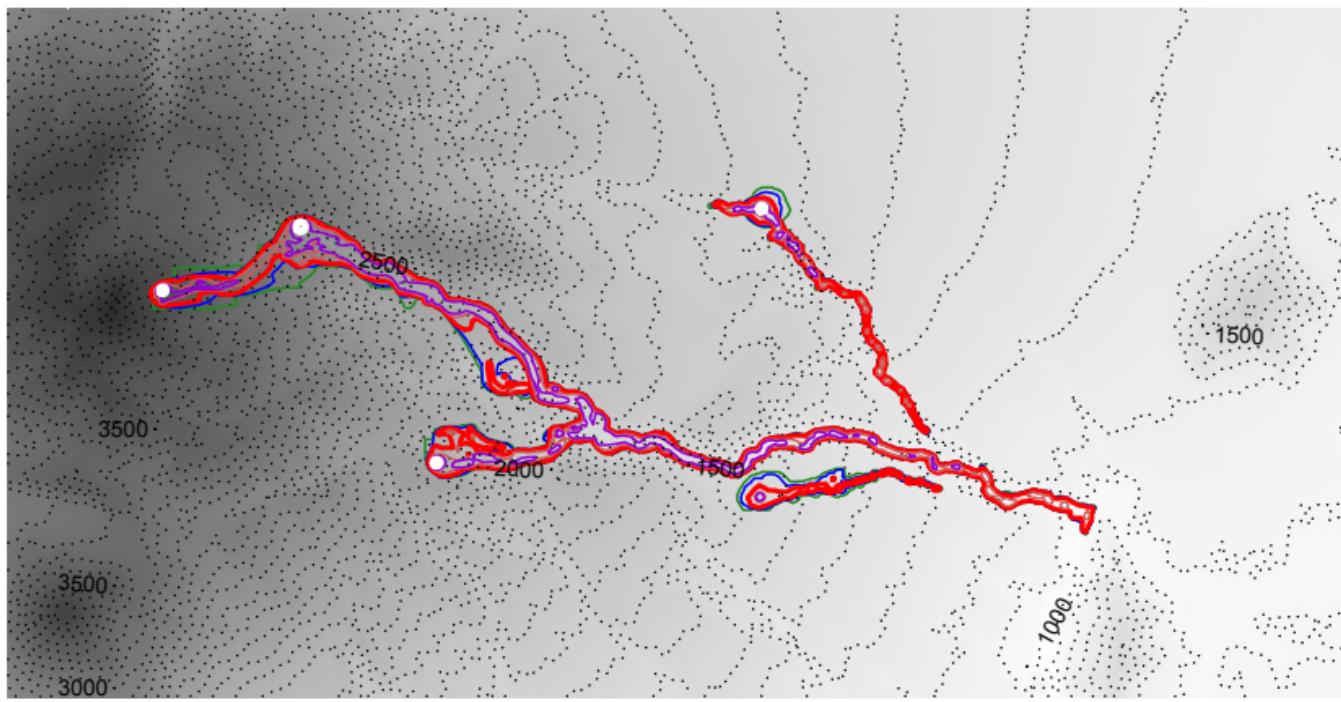
Pouliquen-Forterre
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(b) restriction on $\{\beta=0.3, \Phi_2=11^\circ\}$

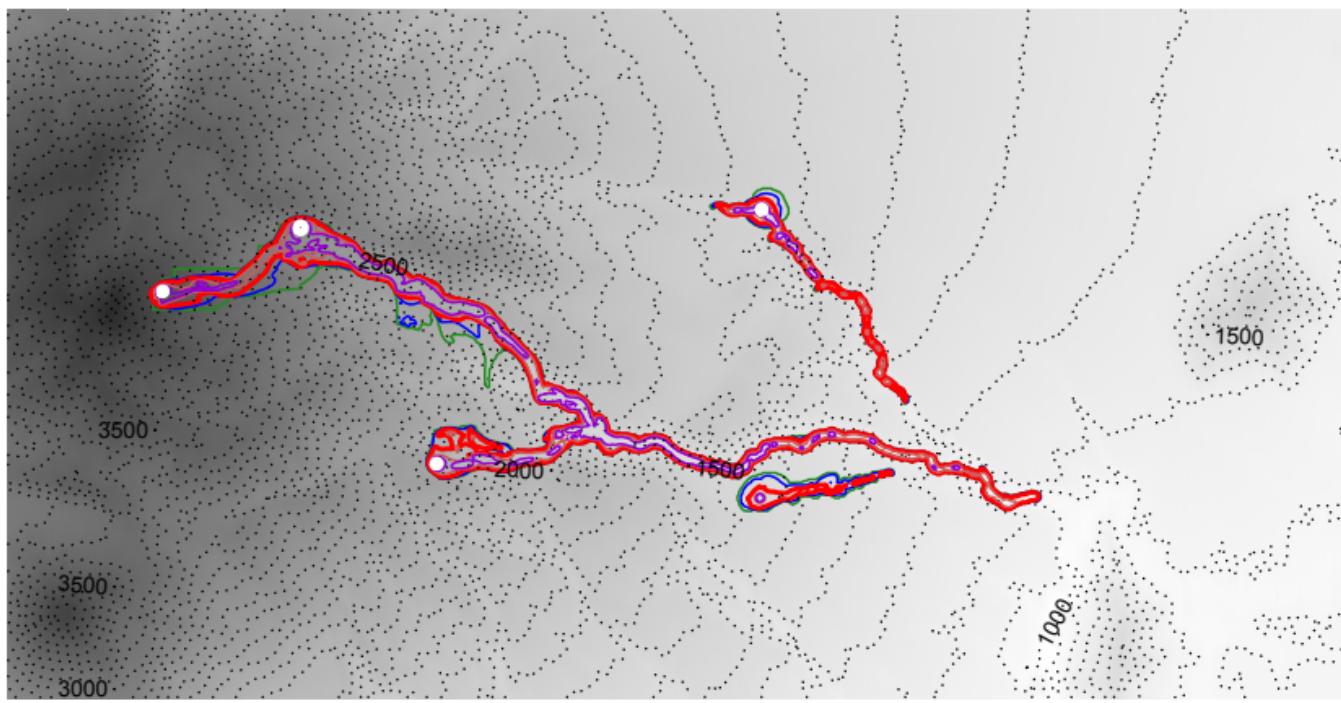
PF, V =4.18e6, phi1 =1, phi2 =11, B=0.3, L=1e-1, 1200s



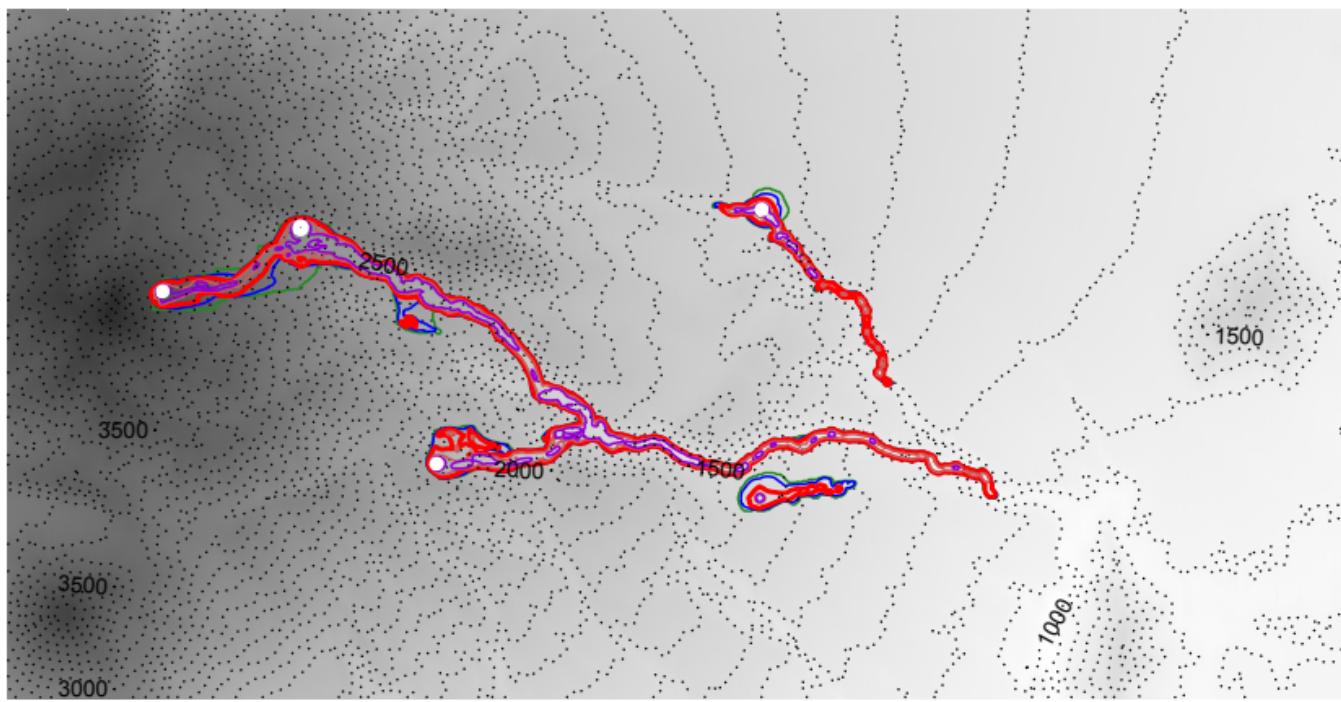
$PF, V = 4.18e6, \phi_1 = 1, \phi_2 = 11, B = 0.3, L = 2e-1, 1200s$



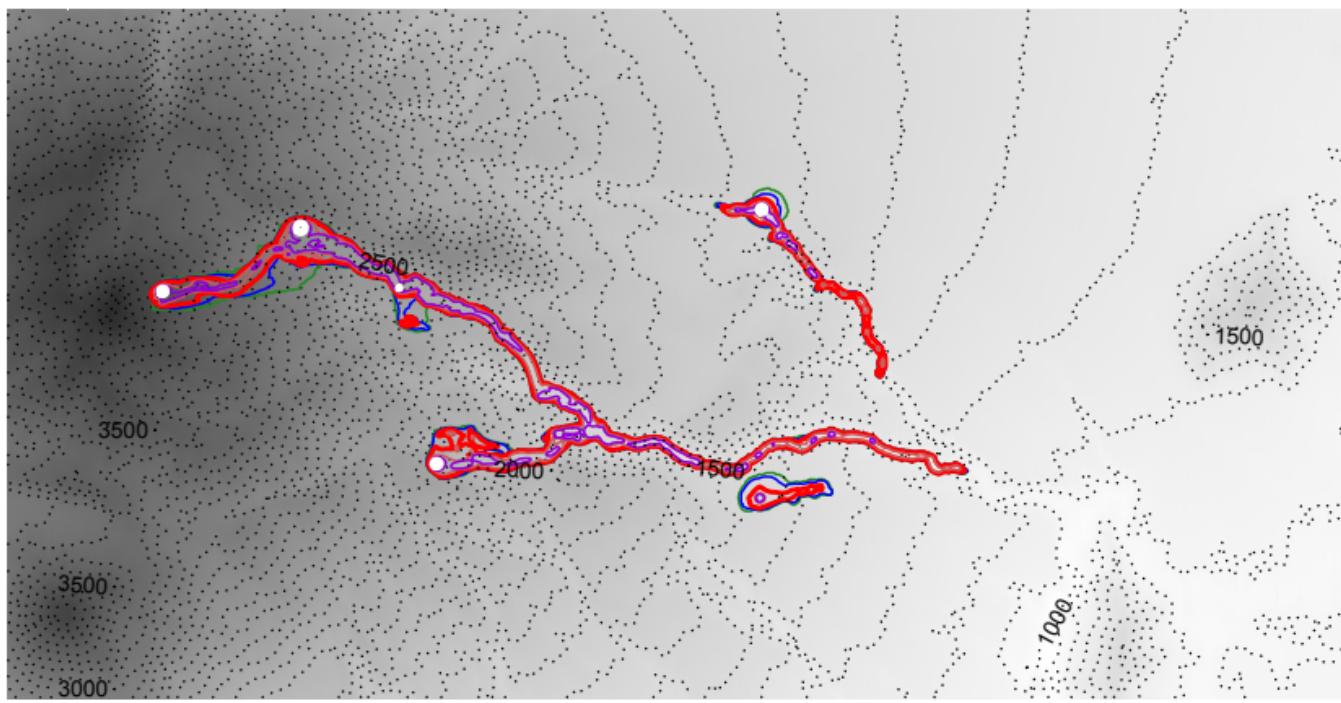
PF, V =4.18e6, phi1 =1, phi2 =11, B=0.3, L=3e-1, 1200s



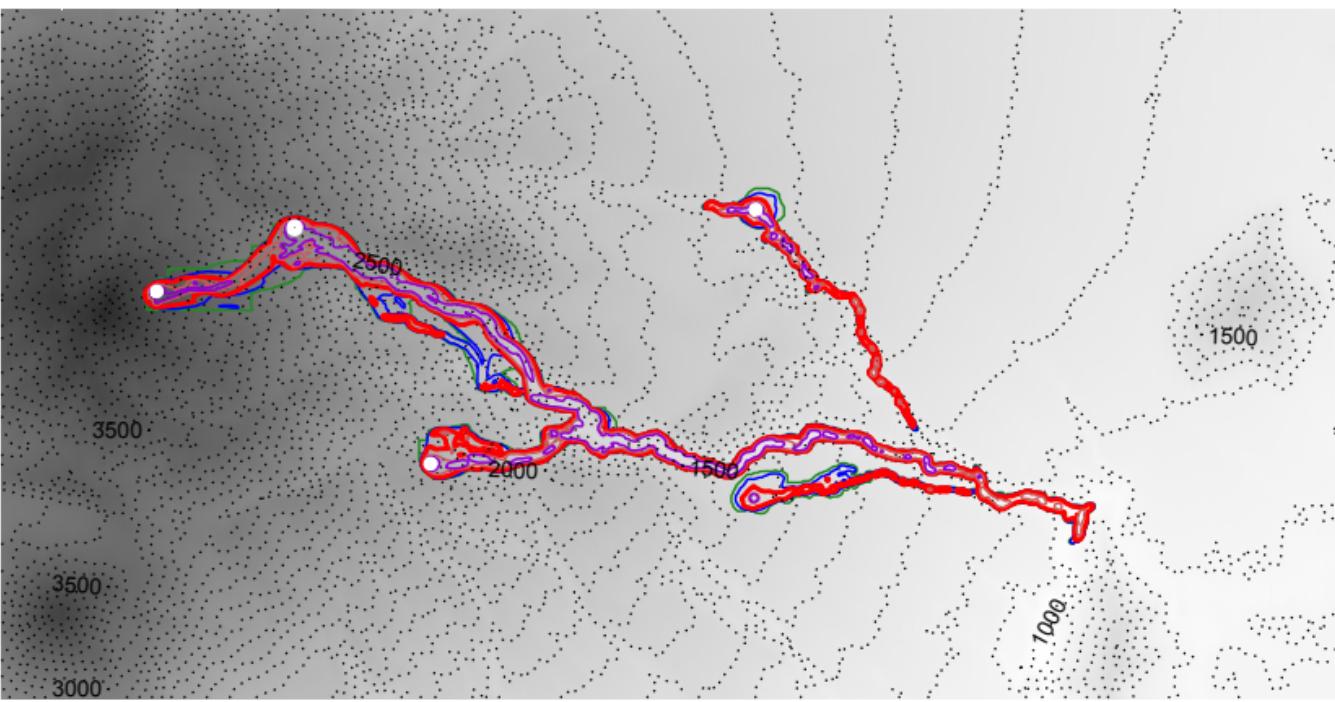
PF, V =4.18e6, phi1 =1, phi2 =11, L=4e-1, 1200s



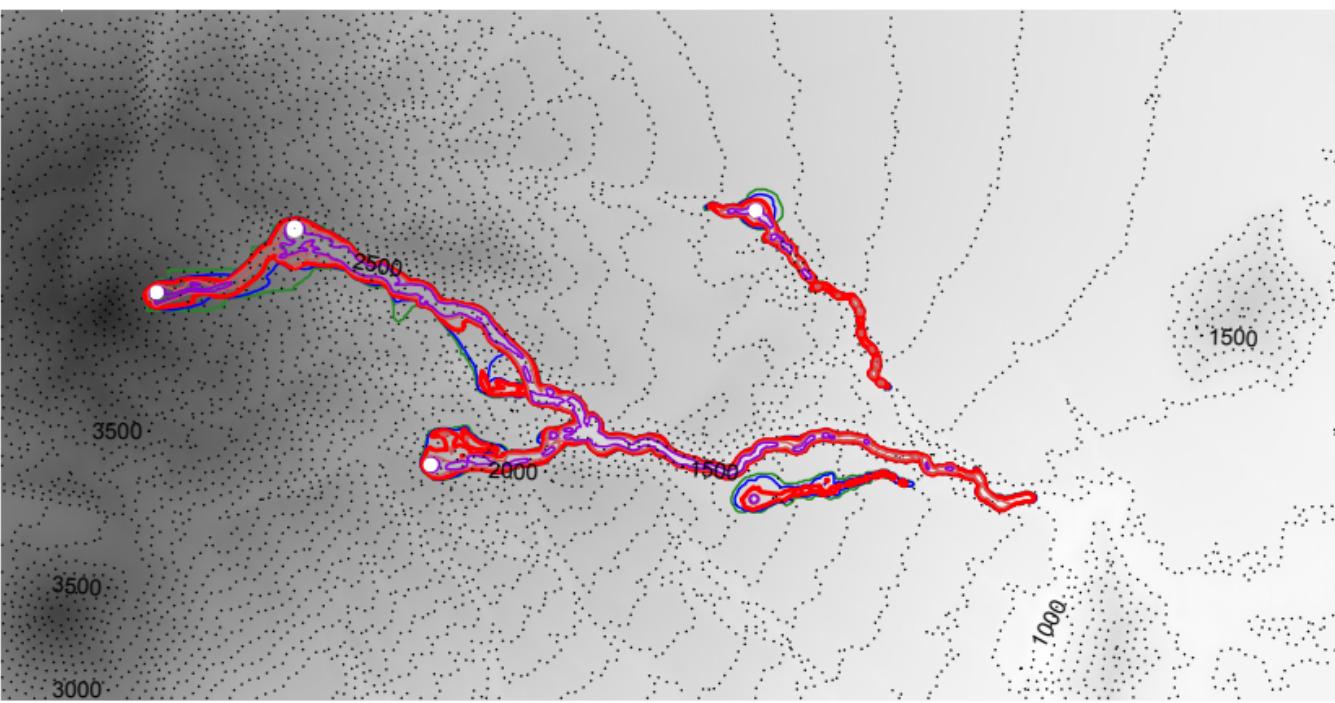
PF, V =4.18e6, phi1 =1, phi2 =11, B=0.3, L=5e-1, 1200s



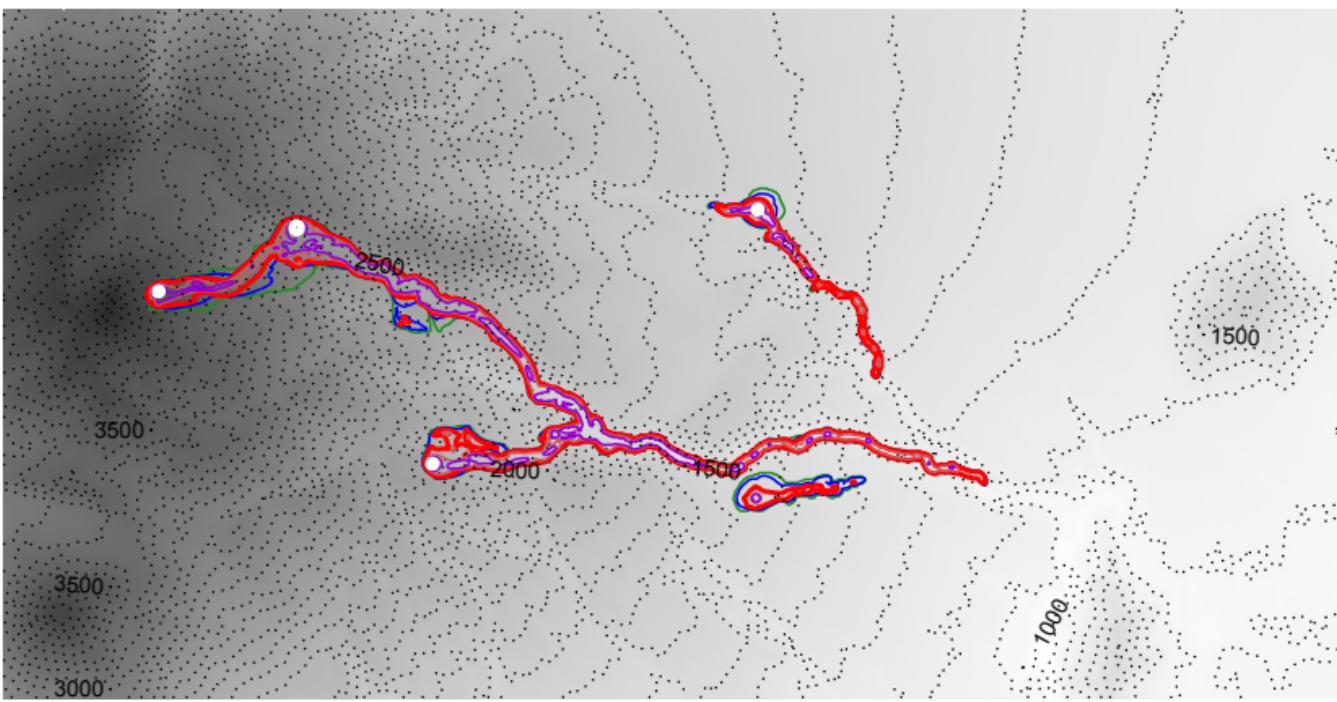
$PF, V = 4.18e6, \phi_1 = 1.5, \phi_2 = 11, B = 0.3, L = 1e-1, 1200s$



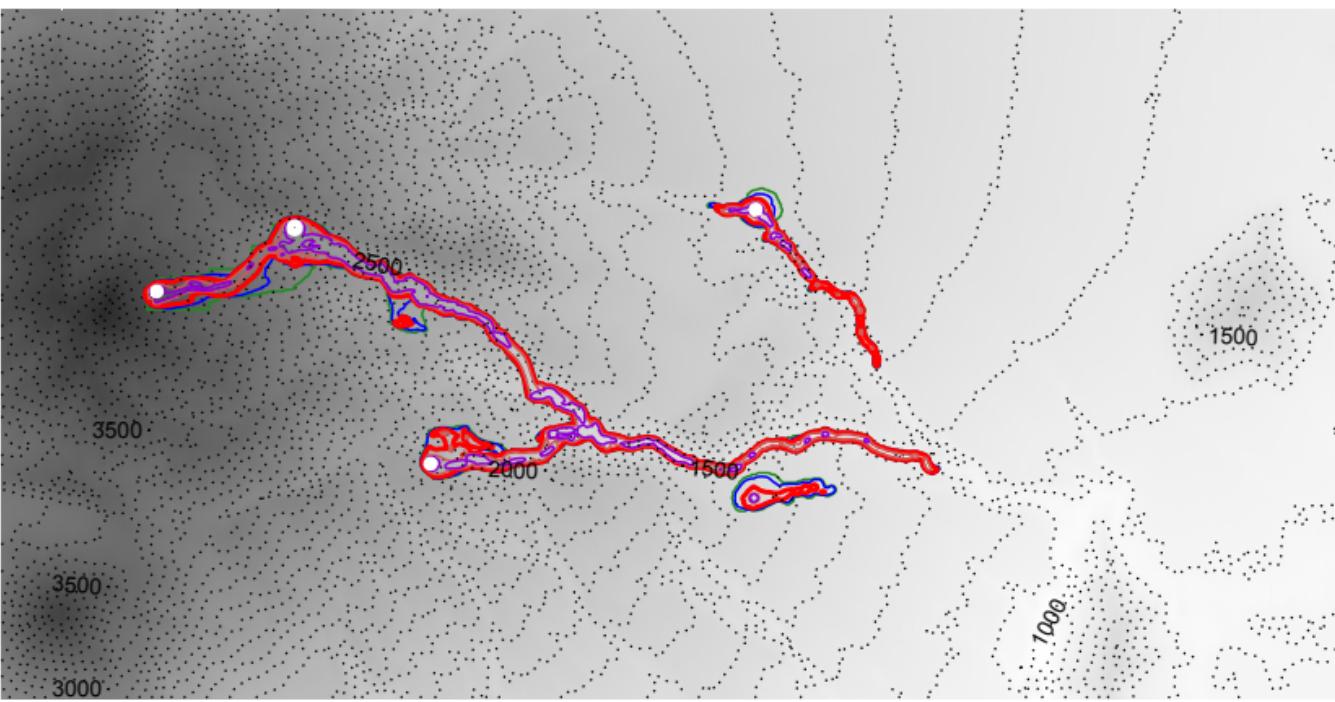
$PF, V = 4.18e6, \phi_1 = 1.5, \phi_2 = 11, B = 0.3, L = 2e-1, 1200s$



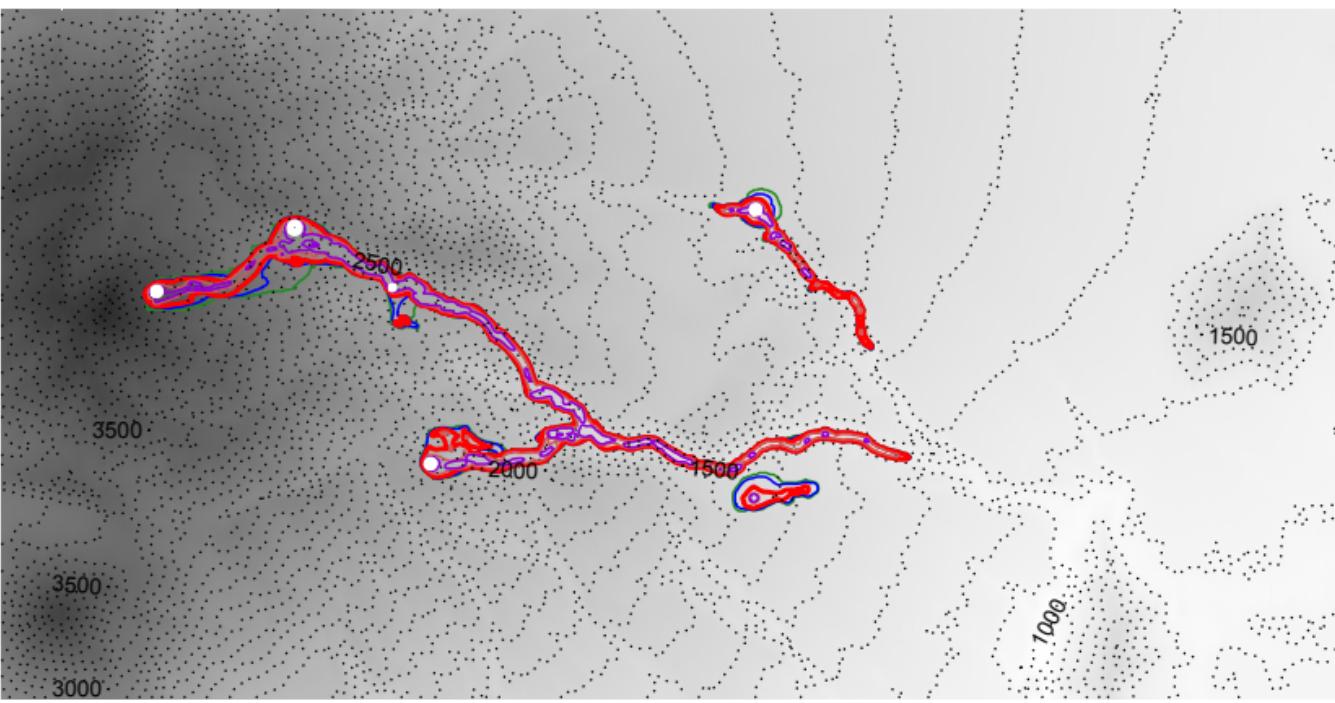
PF, V = 4.18e6, phi1 = 1.5, phi2 = 11, B=0.3, L=3e-1, 1200s



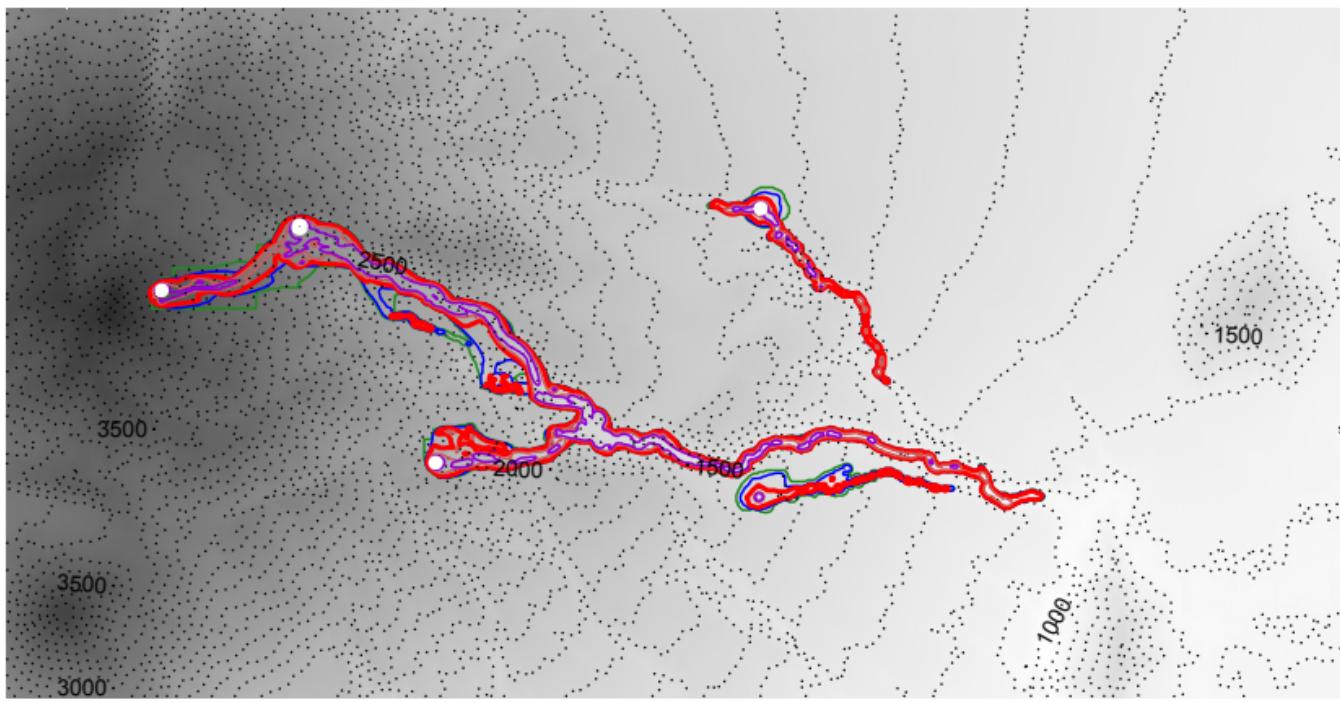
PF, V = 4.18e6, phi1 = 1.5, phi2 = 11, B=0.3, L=4e-1, 1200s



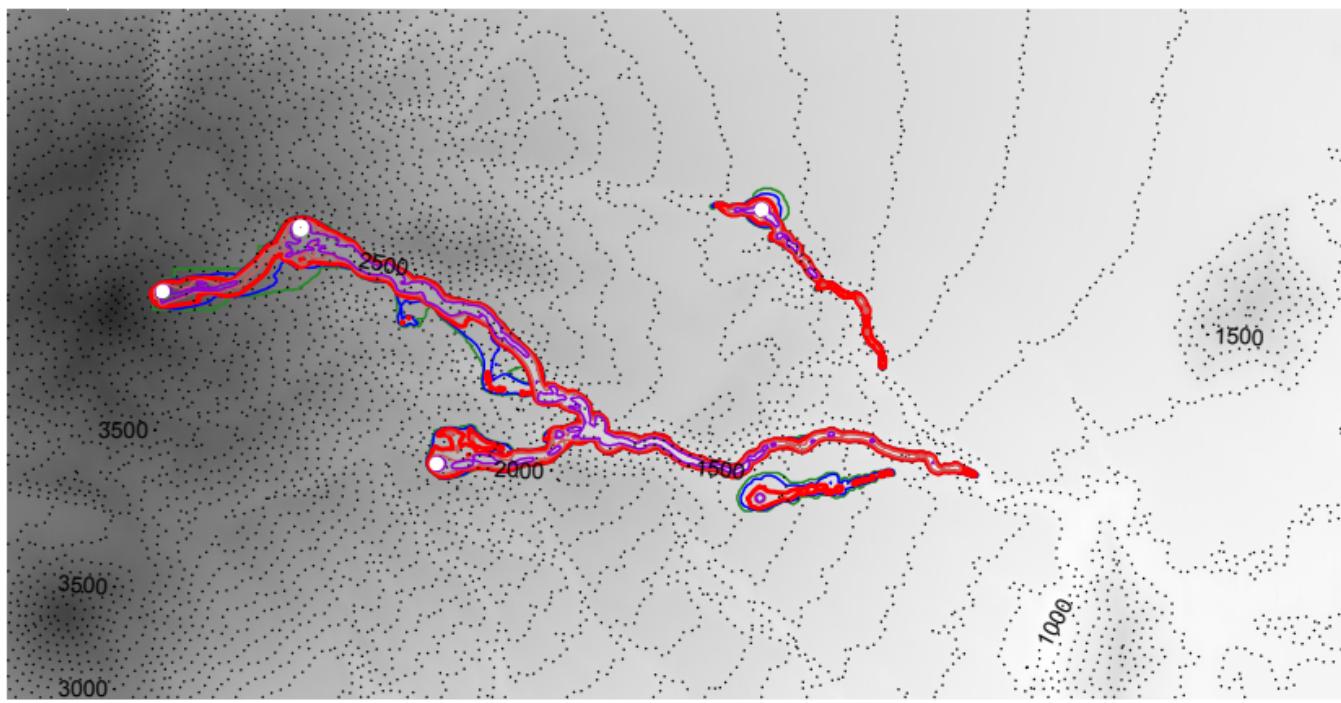
PF, V = 4.18e6, phi1 = 1.5, phi2 = 11, B=0.3, L=5e-1, 1200s



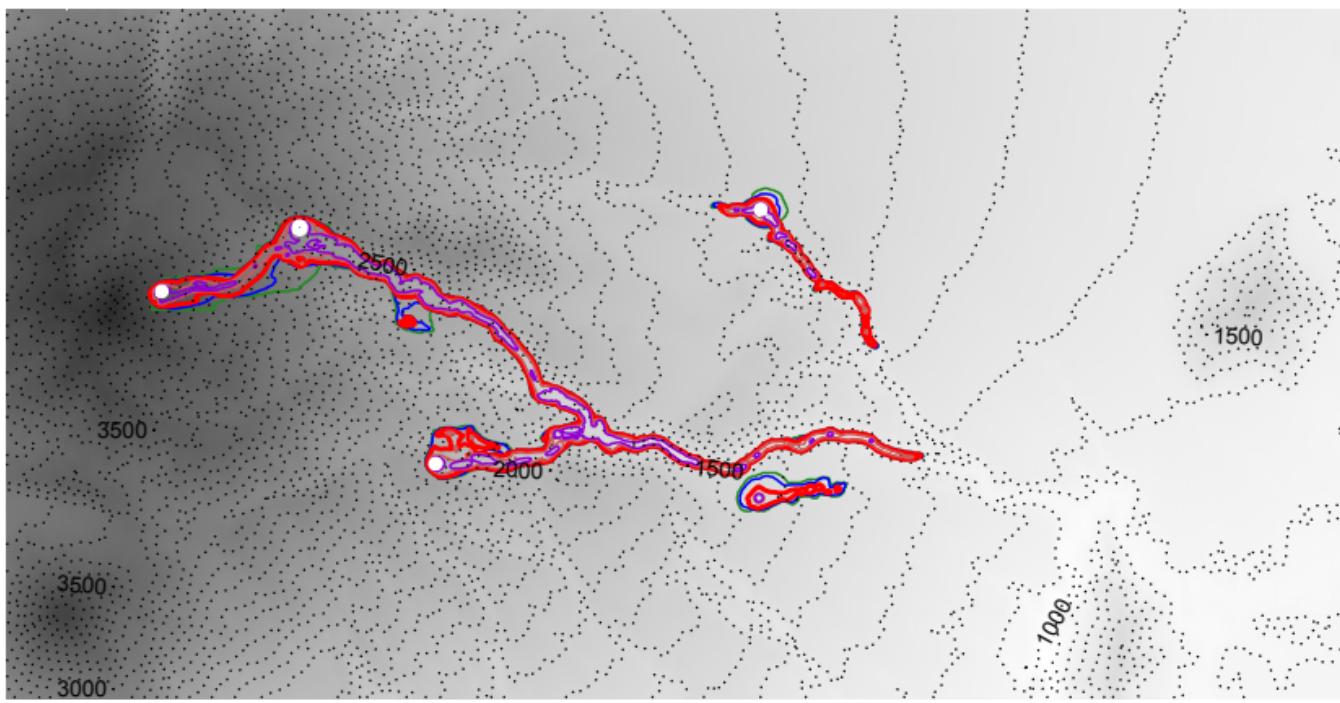
PF, V =4.18e6, phi1 =2, phi2 =11, B=0.3, L=1e-1, 1200s



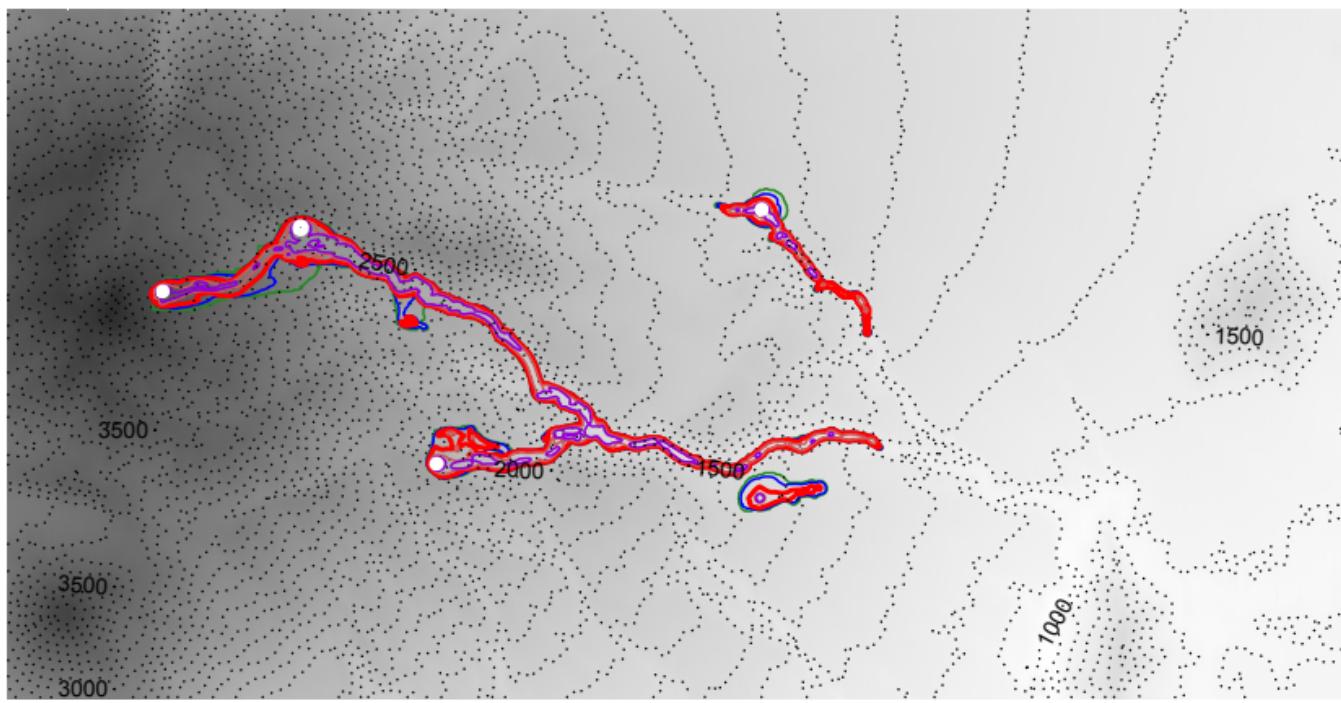
$PF, V = 4.18e6, \phi_1 = 2, \phi_2 = 11, B = 0.3, L = 2e-1, 1200s$



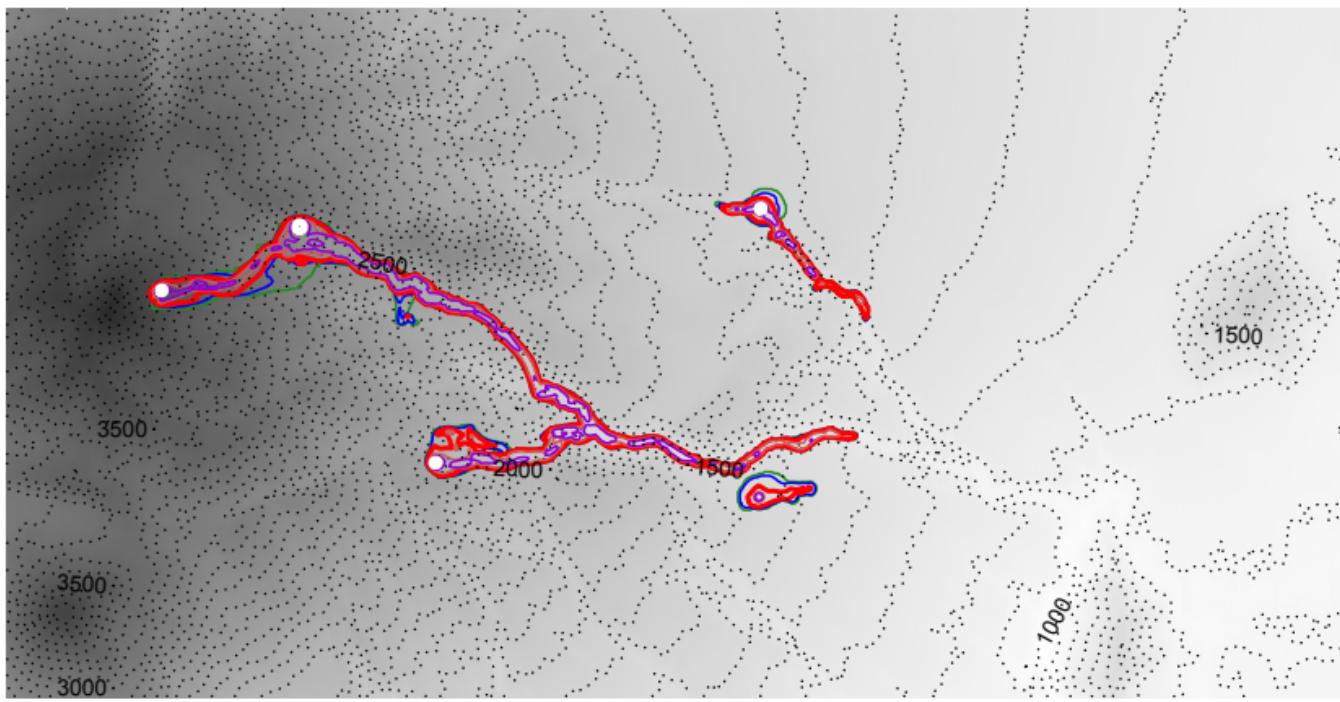
PF, V =4.18e6, phi1 =2, phi2 =11, B=0.3, L=3e-1, 1200s



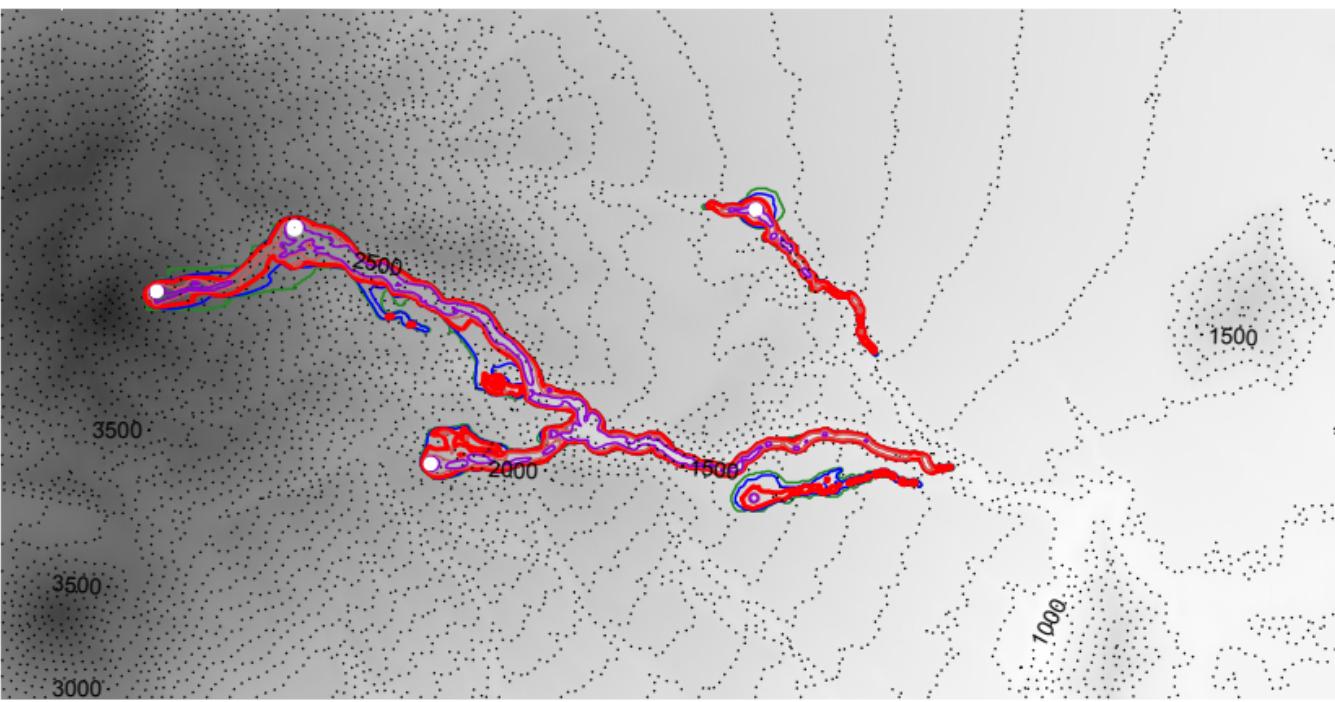
PF, V =4.18e6, phi1 =2, phi2 =11, B=0.3, L=4e-1, 1200s



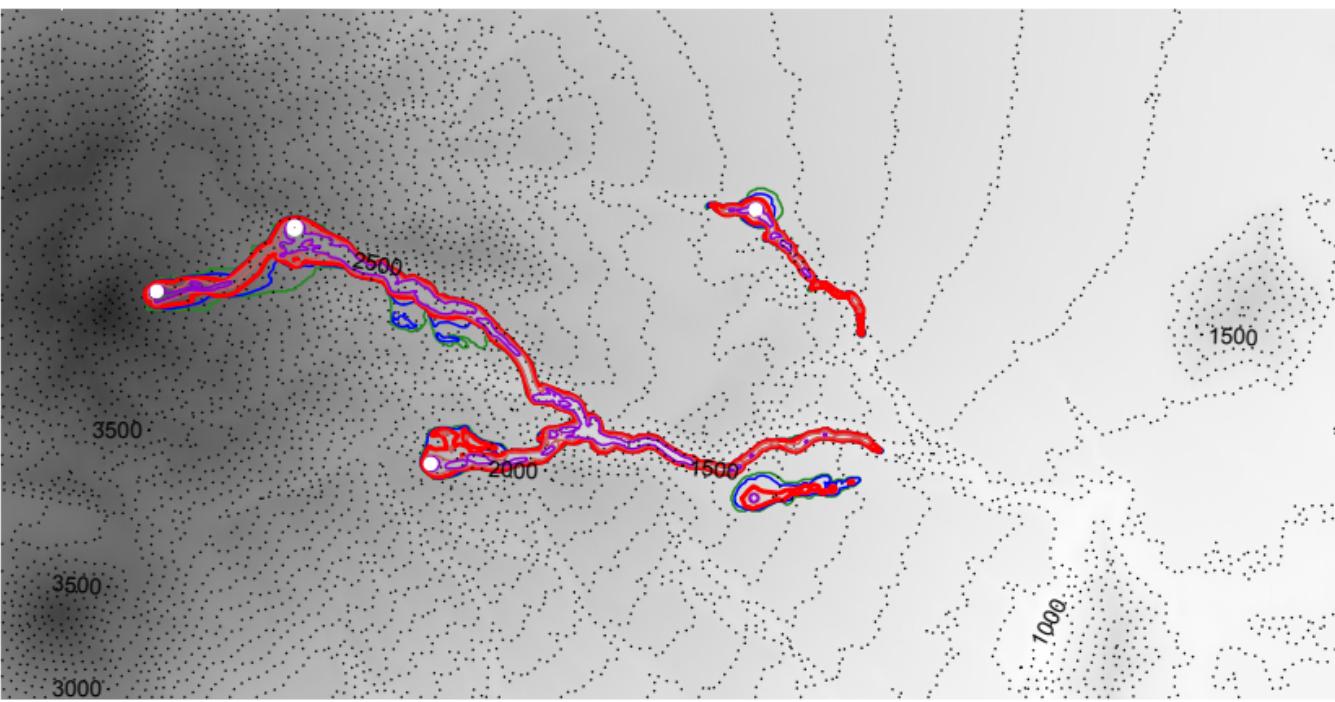
PF, V =4.18e6, phi1 =2, phi2 =11, B=0.3, L=5e-1, 1200s



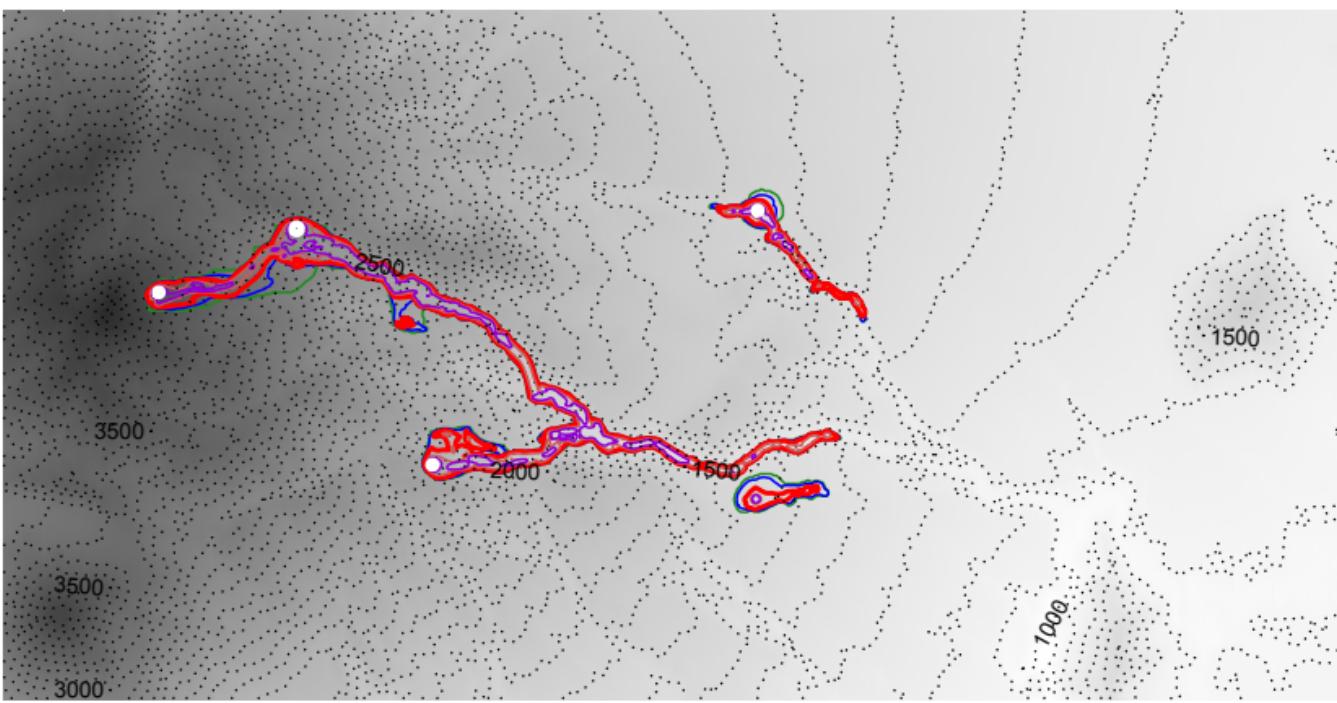
$P_F, V = 4.18e6, \phi_{i1} = 2.5, \phi_{i2} = 11, B = 0.3, L = 1e-1, 1200s$



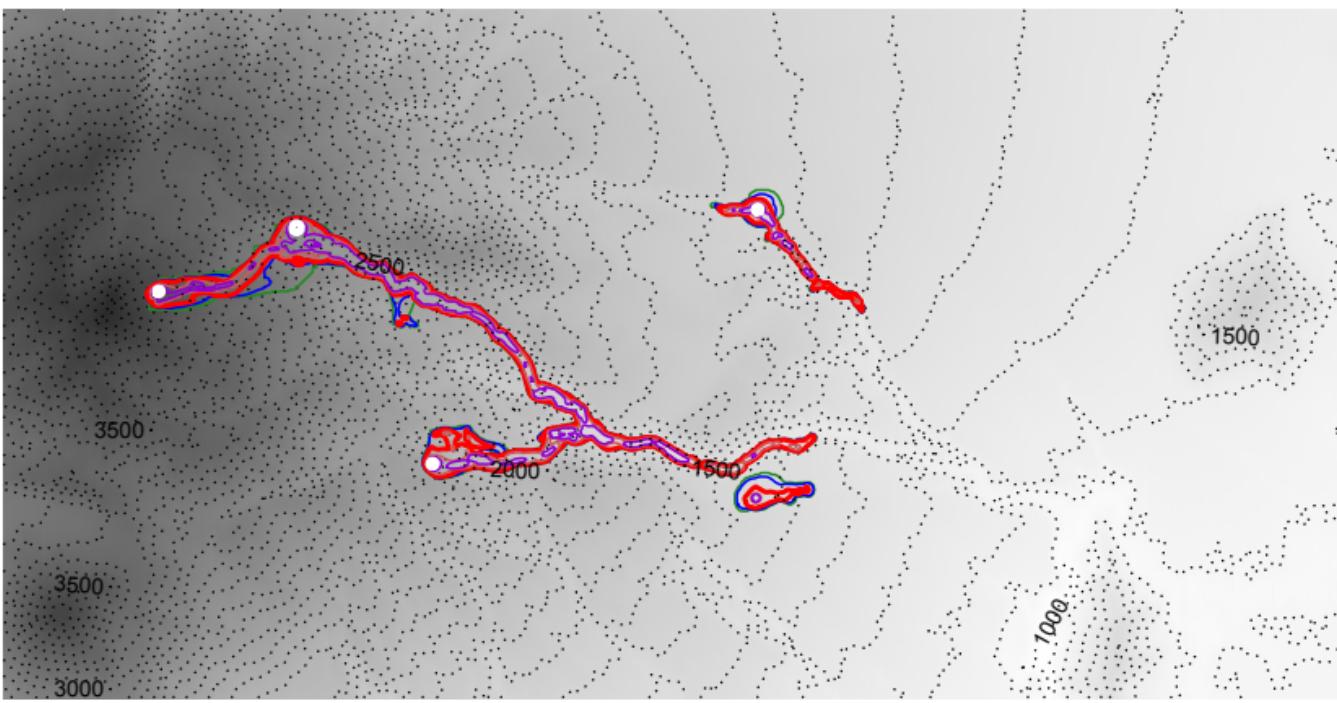
PF, V = 4.18e6, phi1 = 2.5, phi2 = 11, B=0.3, L=2e-1, 1200s



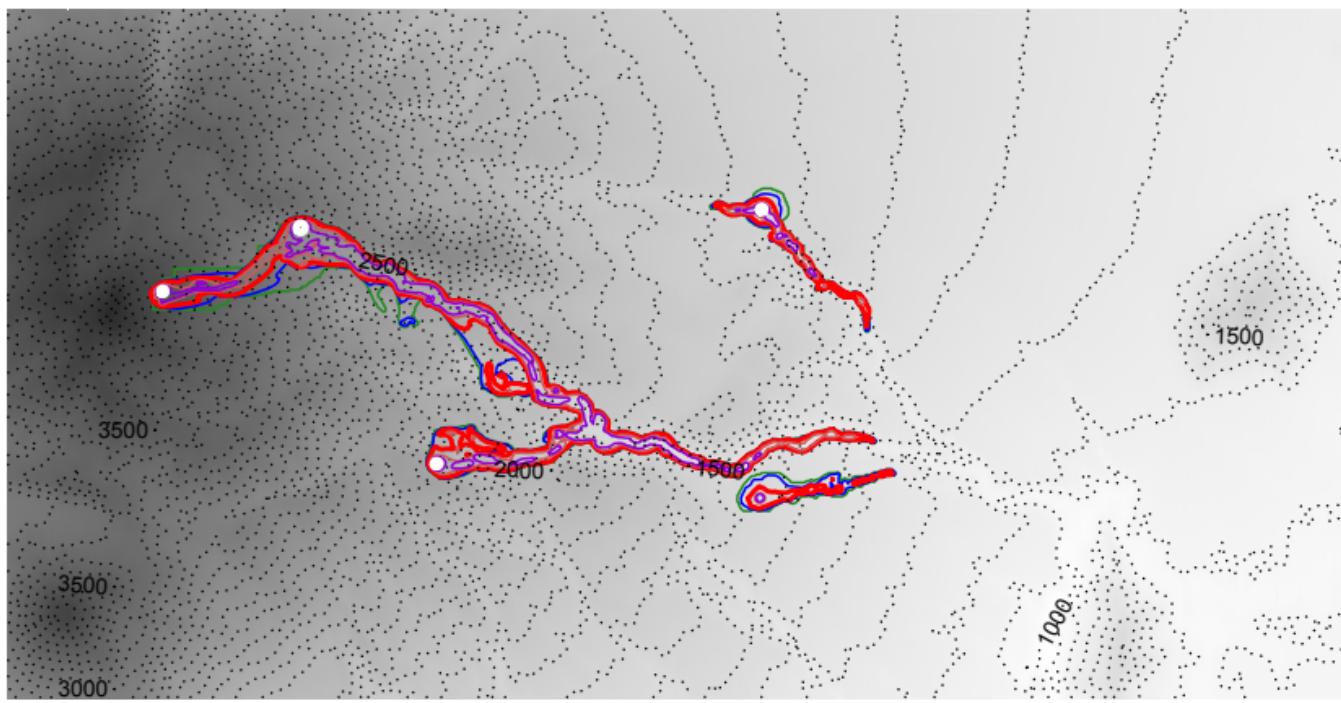
PF, V = 4.18e6, phi1 = 2.5, phi2 = 11, B=0.3, L=3e-1, 1200s



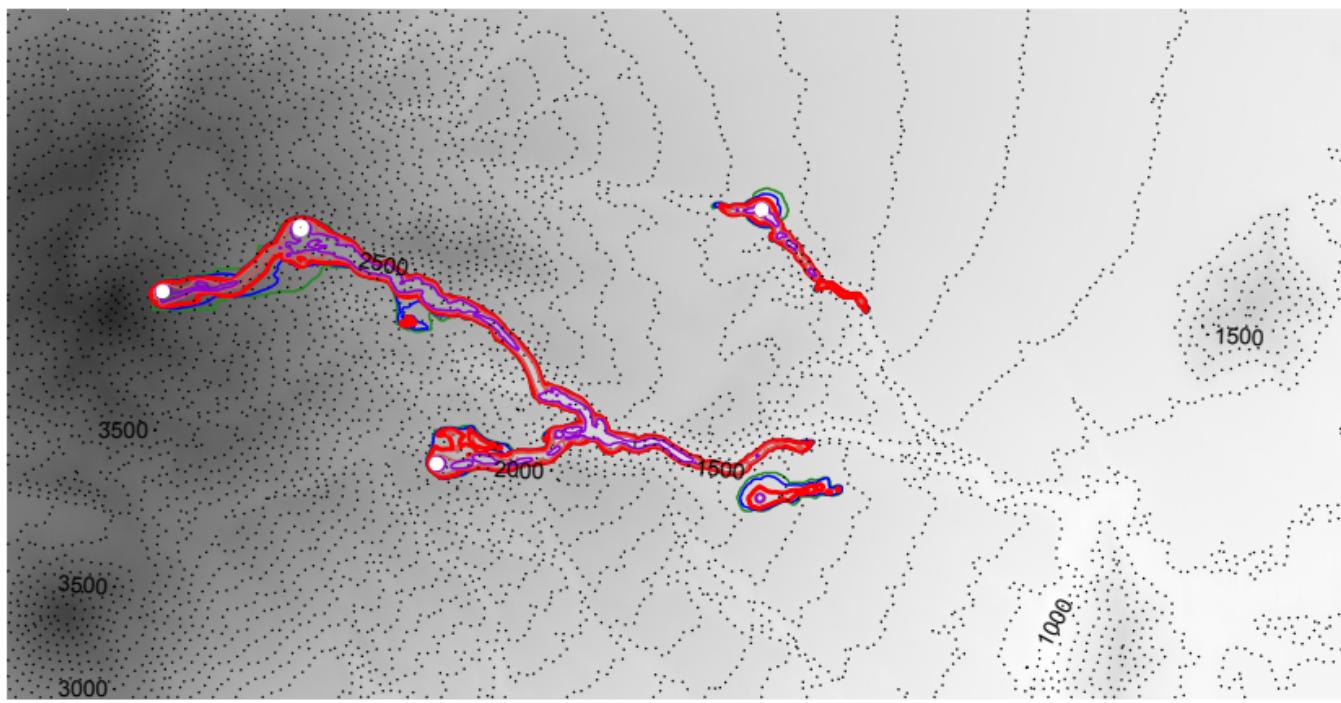
PF, V = 4.18e6, phi1 = 2.5, phi2 = 11, B=0.3, L=4e-1, 1200s



PF, V =4.18e6, phi1 =3, phi2 =11, B=0.3, L=1e-1, 1200s



PF, V =4.18e6, phi1 =3, phi2 =11, B=0.3, L=2e-1, 1200s

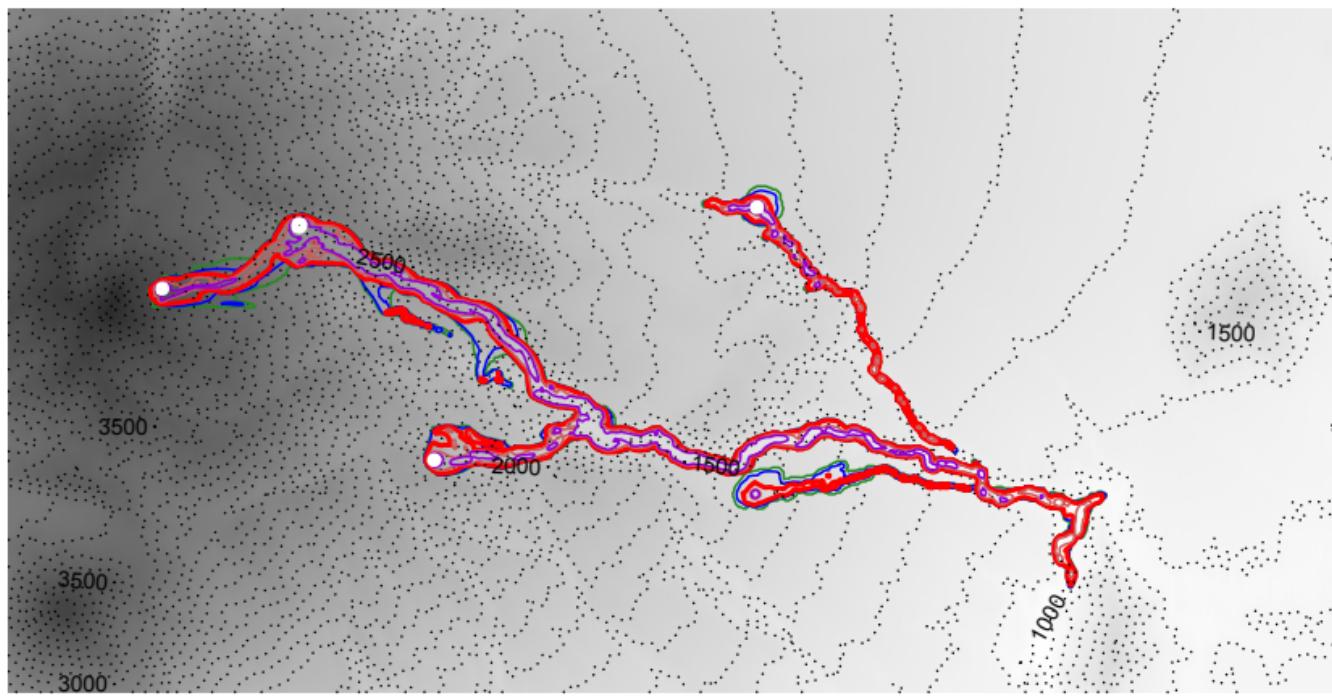


Supporting Information 3.3

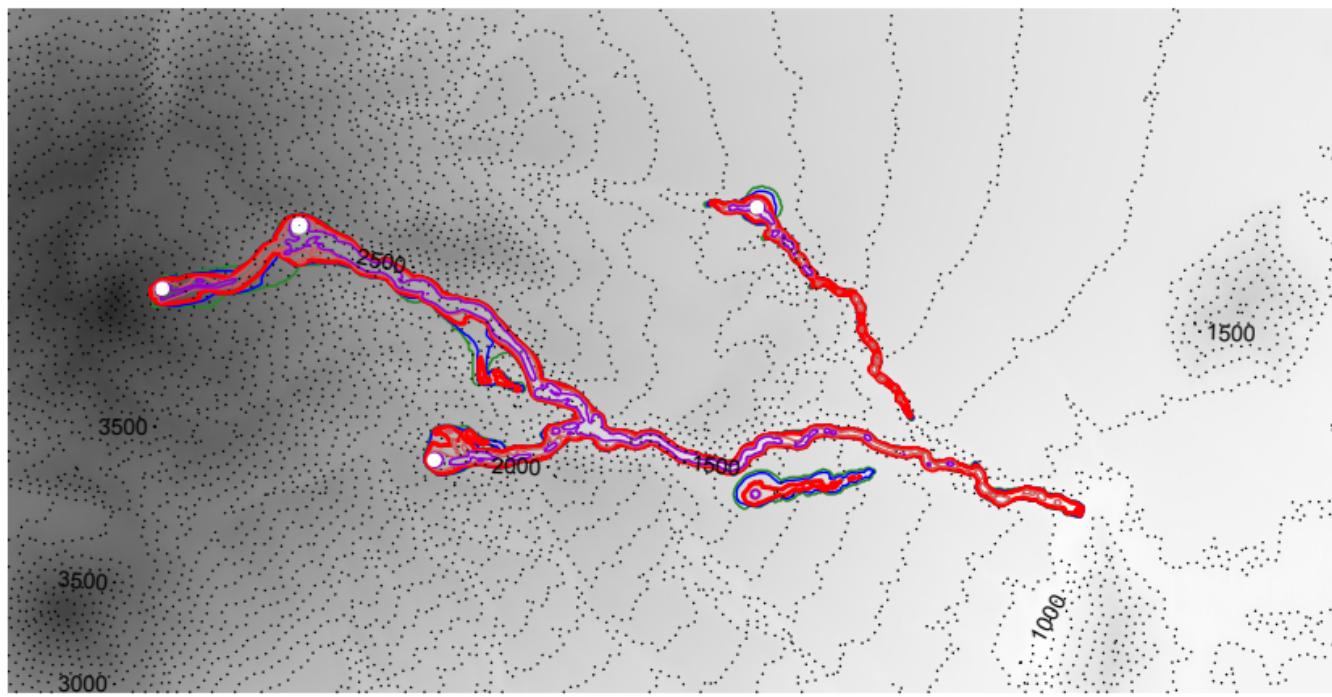
Pouliquen-Forterre
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(c) restriction on $\{\beta=0.5, \Phi_2=15^\circ\}$

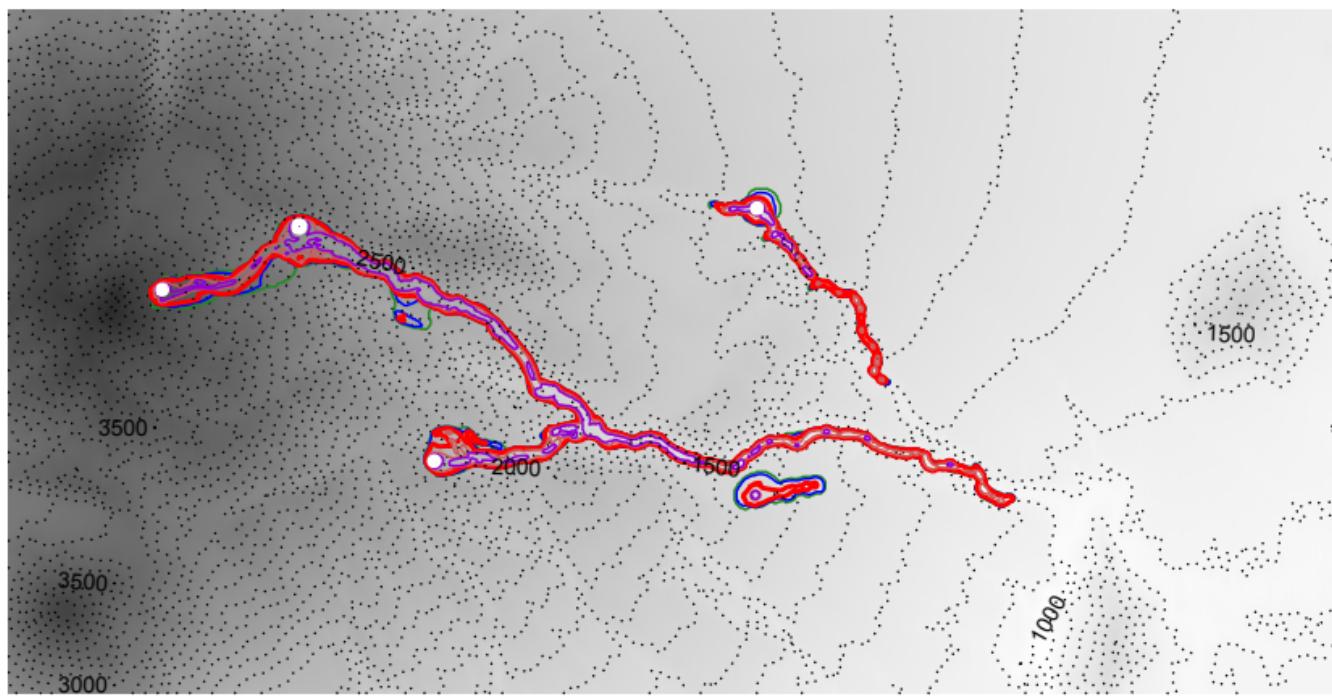
PF, V =4.18e6, phi1 =1, phi2 =15, B=0.5, L=1e-1, 1200s



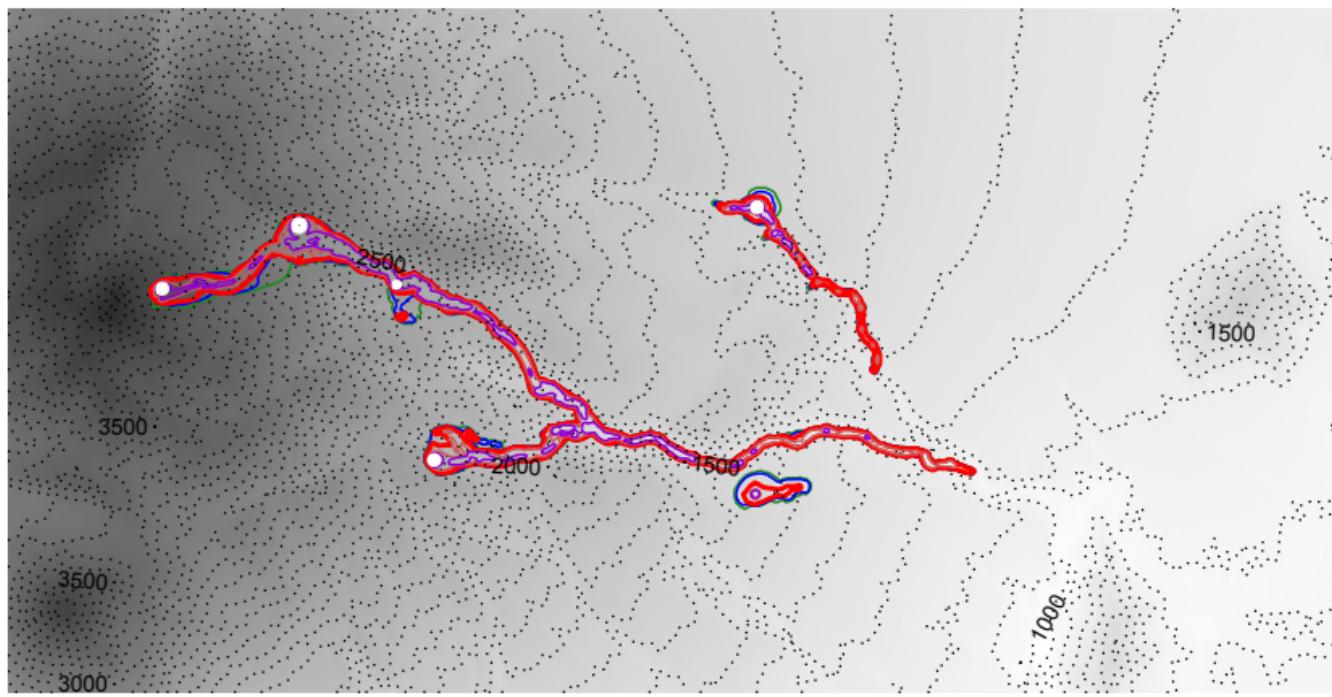
PF, V =4.18e6, phi1 =1, phi2 =15, B=0.5, L=2e-1, 1200s



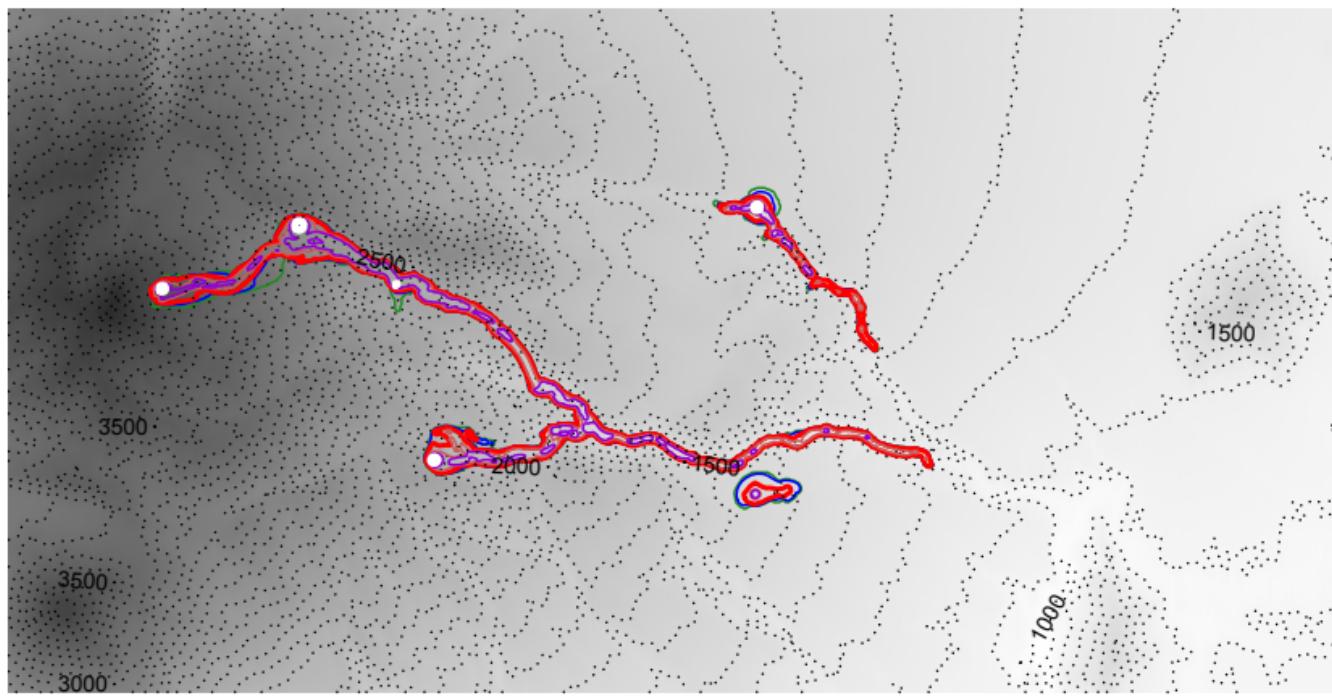
PF, V =4.18e6, phi1 =1, phi2 =15, B=0.5, L=3e-1, 1200s



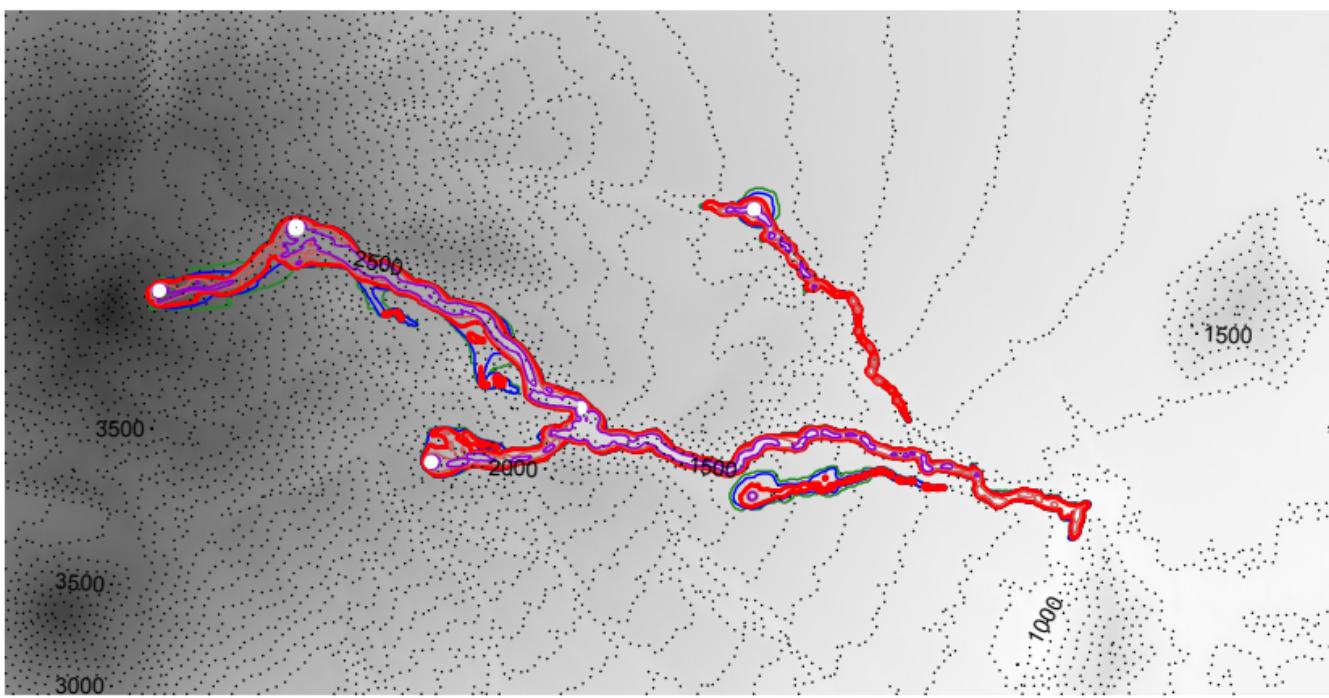
PF, V =4.18e6, phi1 =1, phi2 =15, B=0.5, L=4e-1, 1200s



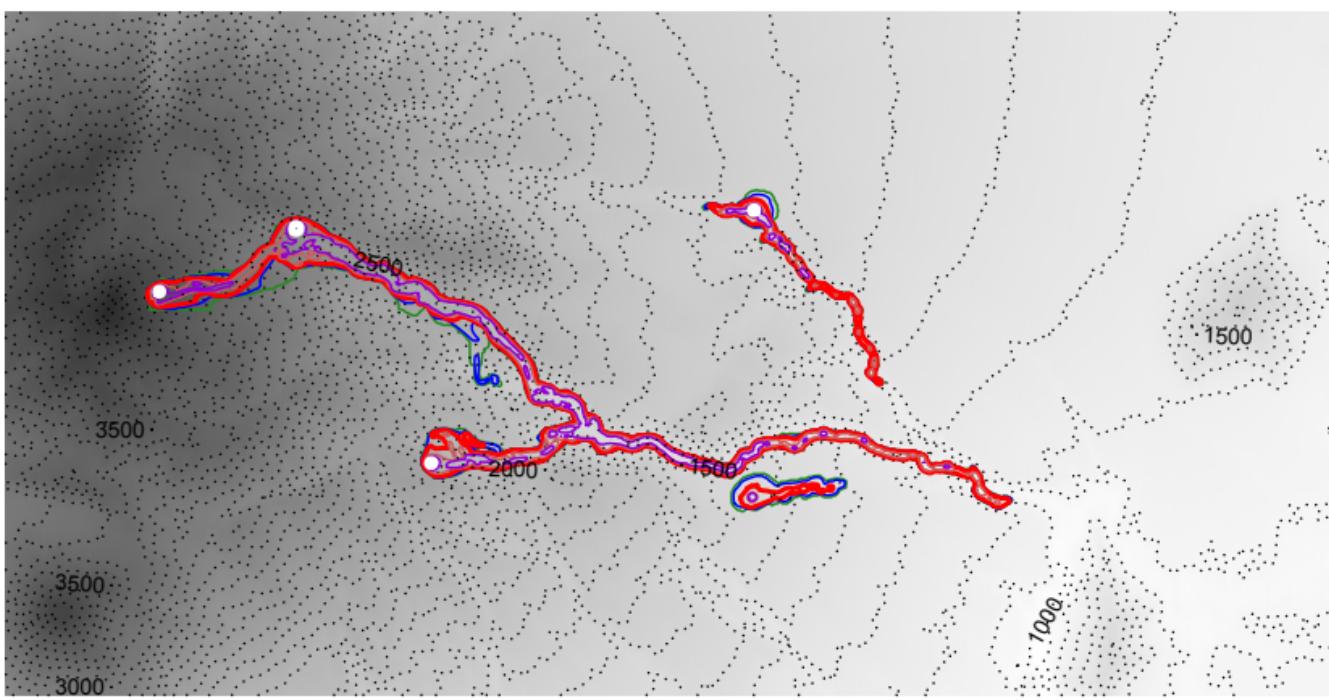
PF, V =4.18e6, phi1 =1, phi2 =15, B=0.5, L=5e-1, 1200s



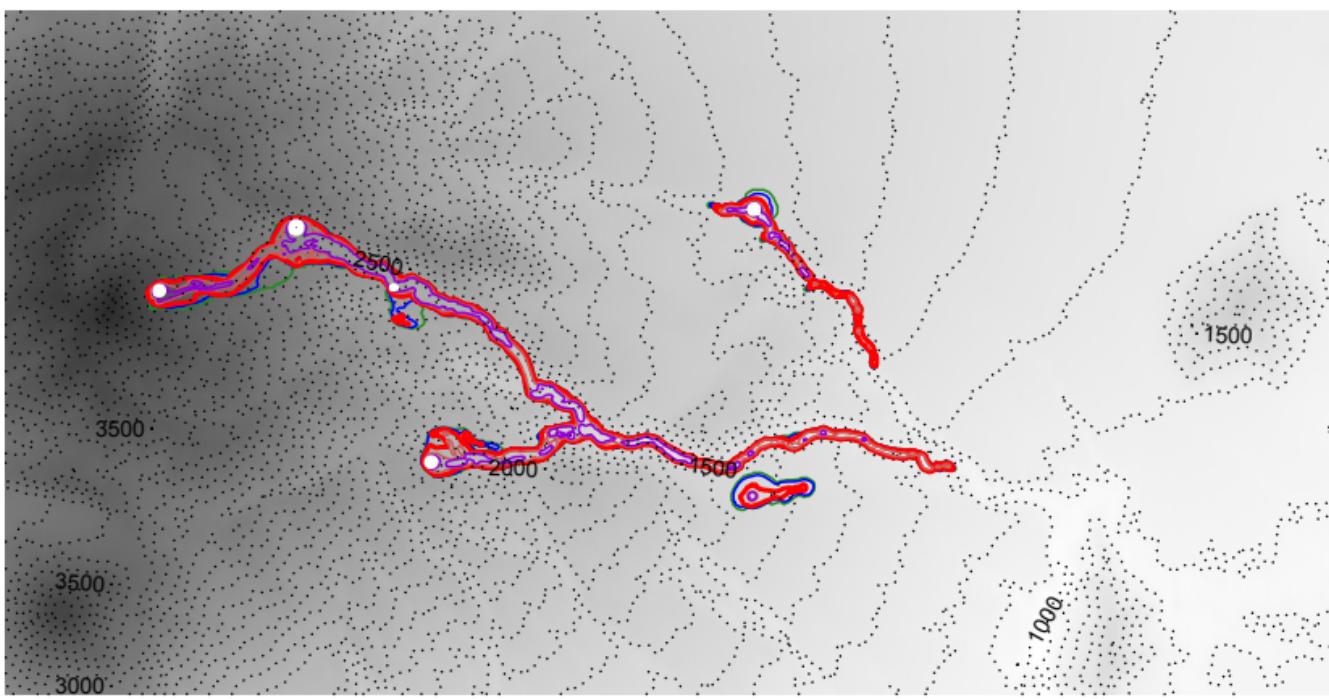
PF, V =4.18e6, phi1 =1.5, phi2 =15, B=0.5, L=1e-1, 1200s



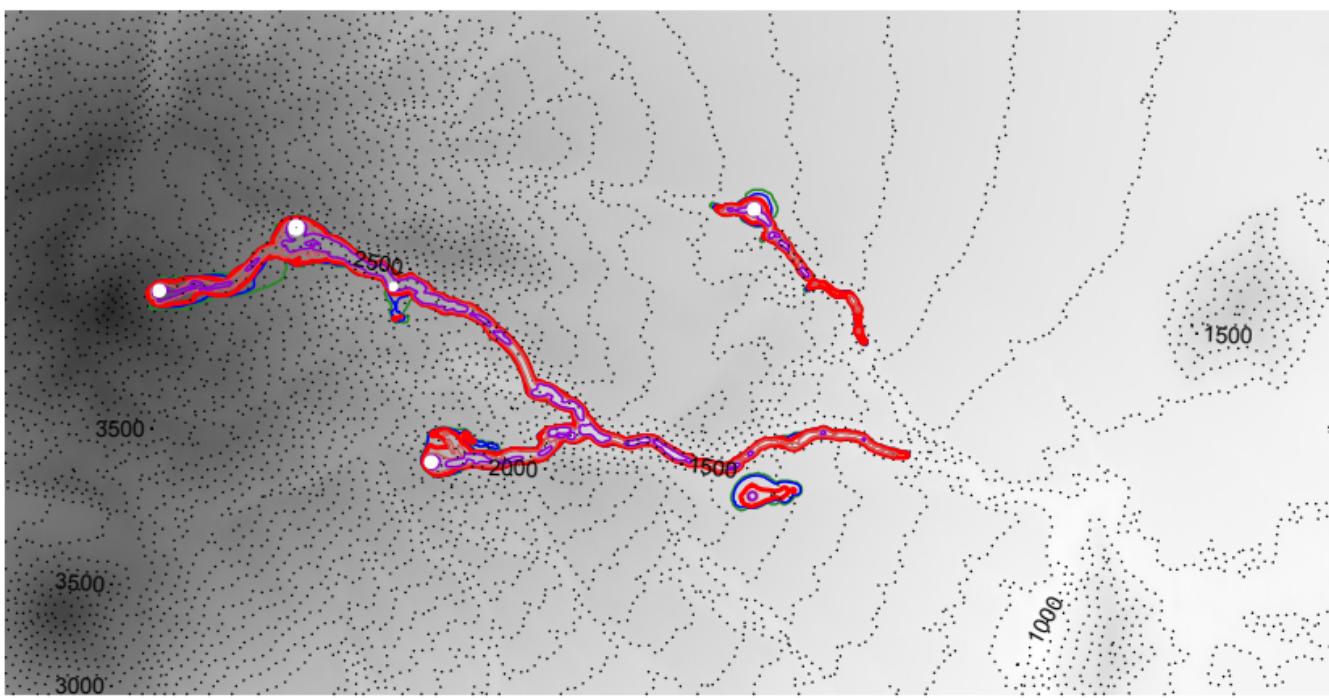
PF, V =4.18e6, phi1 =1.5, phi2 =15, B=0.5, L=2e-1, 1200s



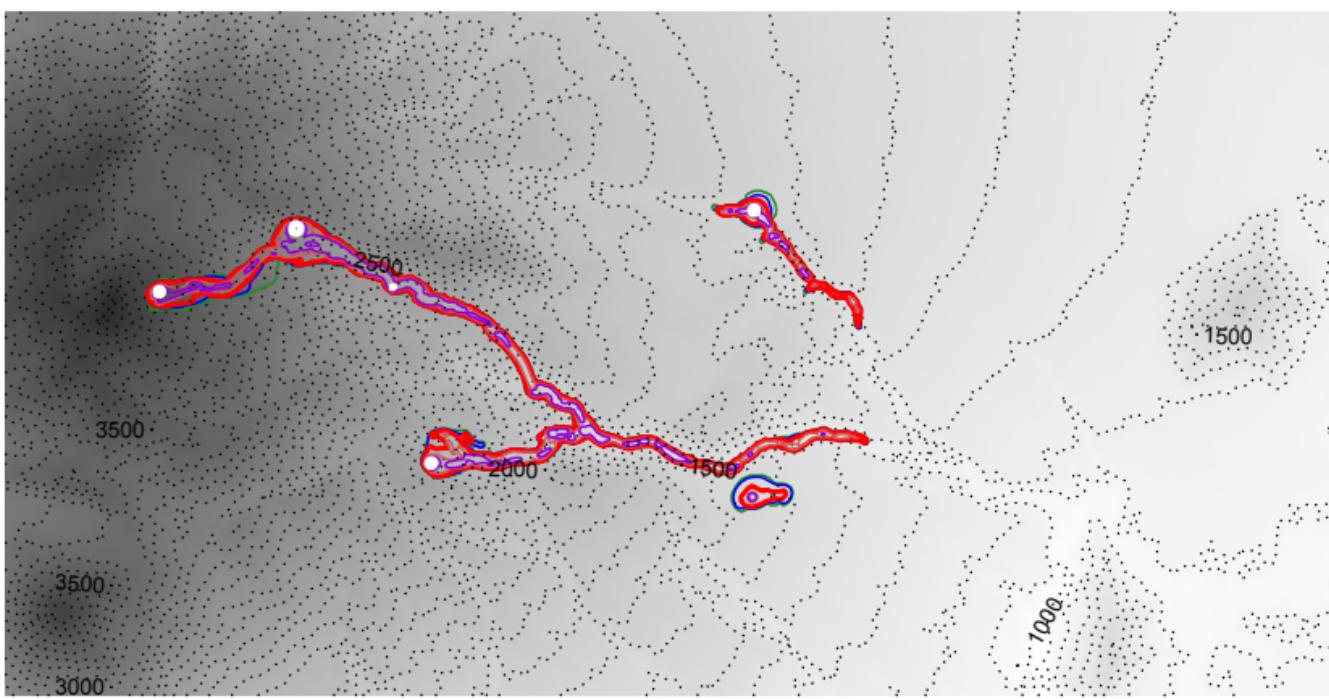
PF, V =4.18e6, phi1 =1.5, phi2 =15, B=0.5, L=3e-1, 1200s



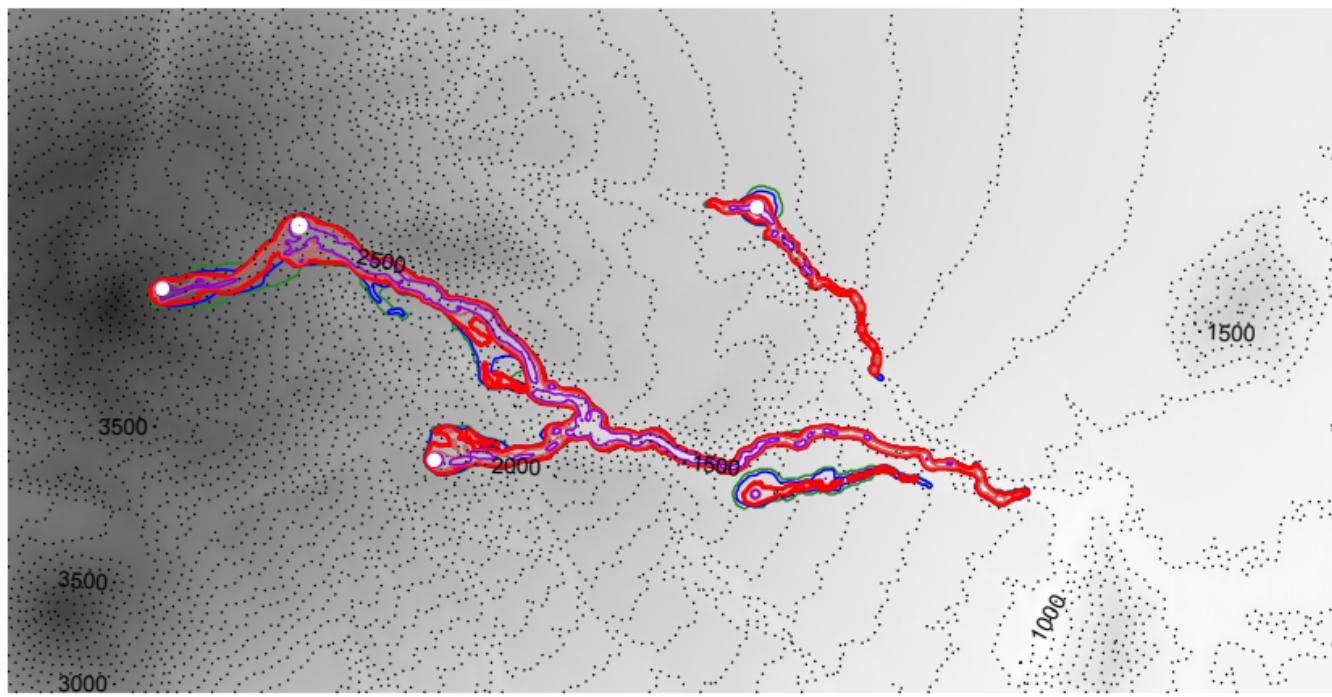
PF, V =4.18e6, phi1 =1.5, phi2 =15, B=0.5, L=4e-1, 1200s



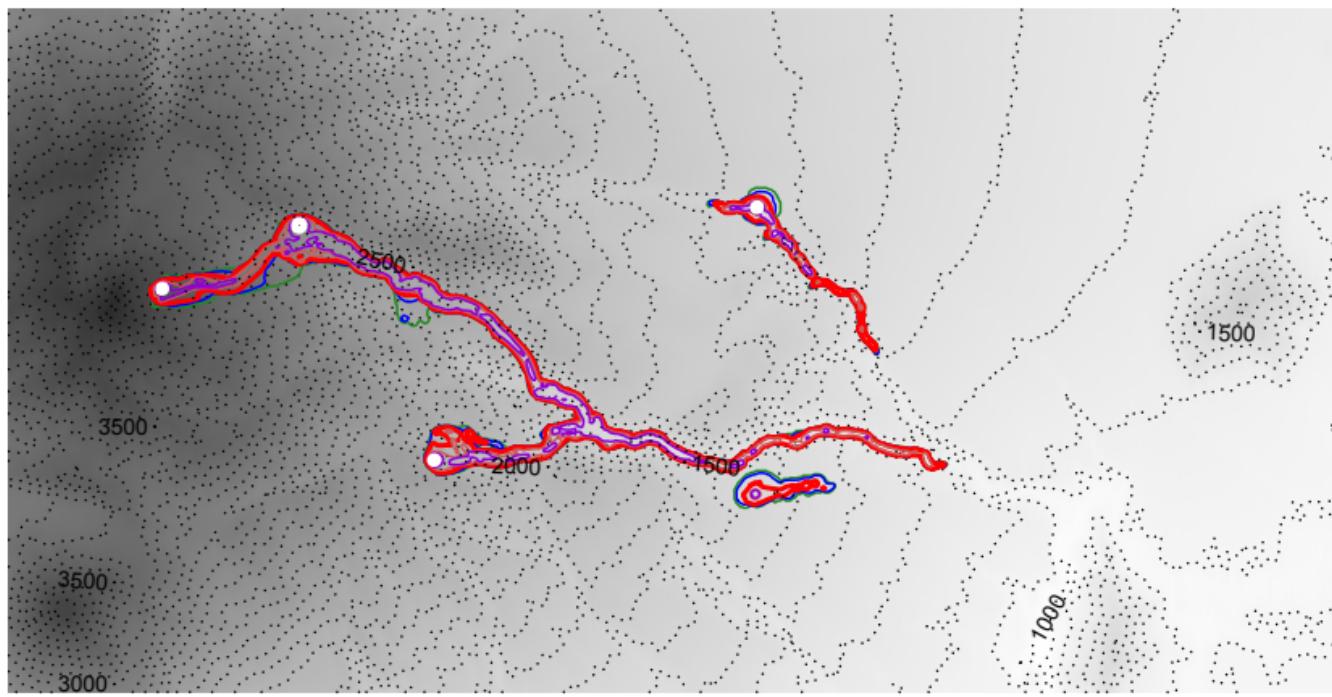
PF, V =4.18e6, phi1 =1.5, phi2 =15, B=0.5, L=5e-1, 1200s



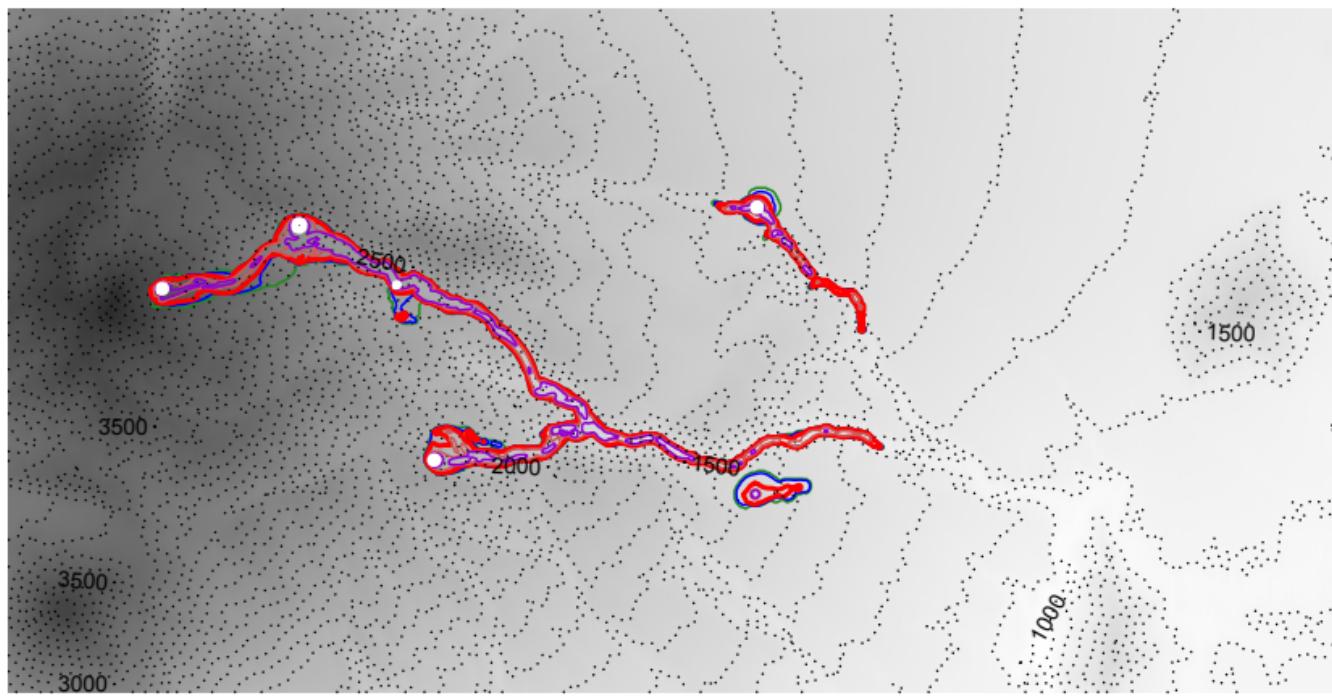
PF, V =4.18e6, phi1 =15, phi2 =2, L=1e-1, 1200s



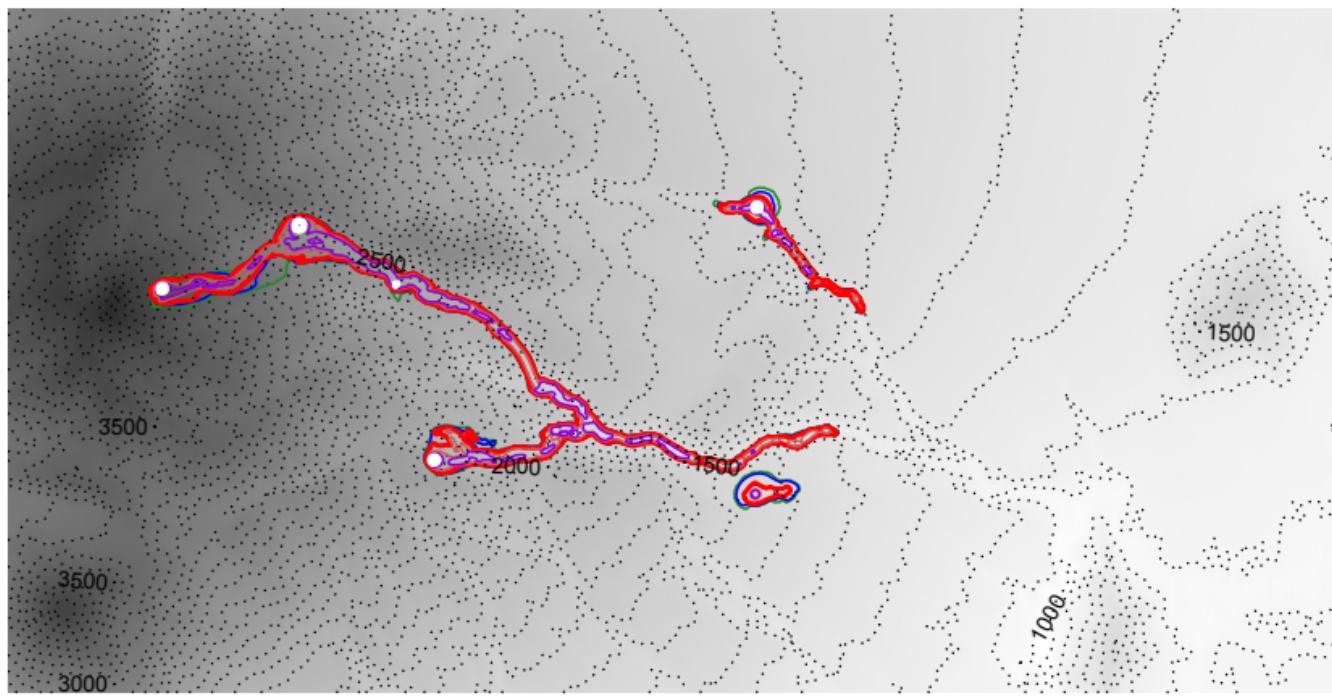
PF, V =4.18e6, phi1 =2, phi2 =15, B=0.5, L=2e-1, 1200s



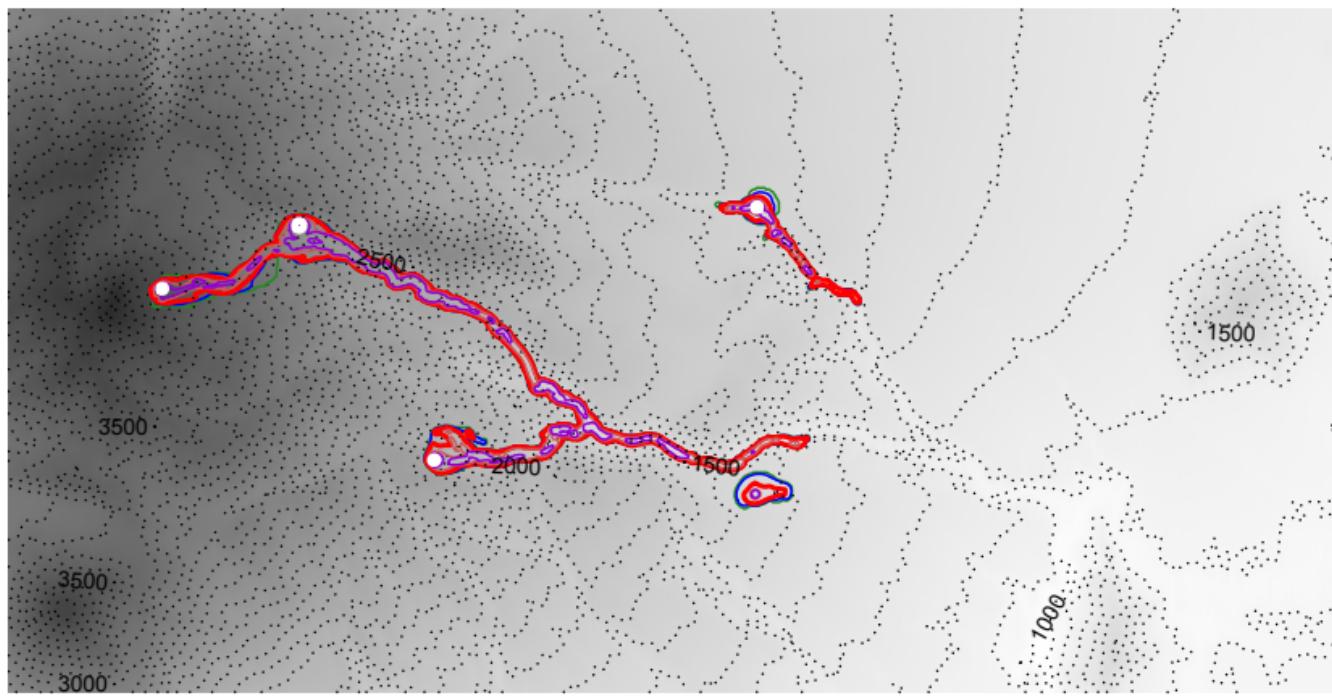
PF, V =4.18e6, phi1 =2, phi2 =15, B=0.5, L=3e-1, 1200s



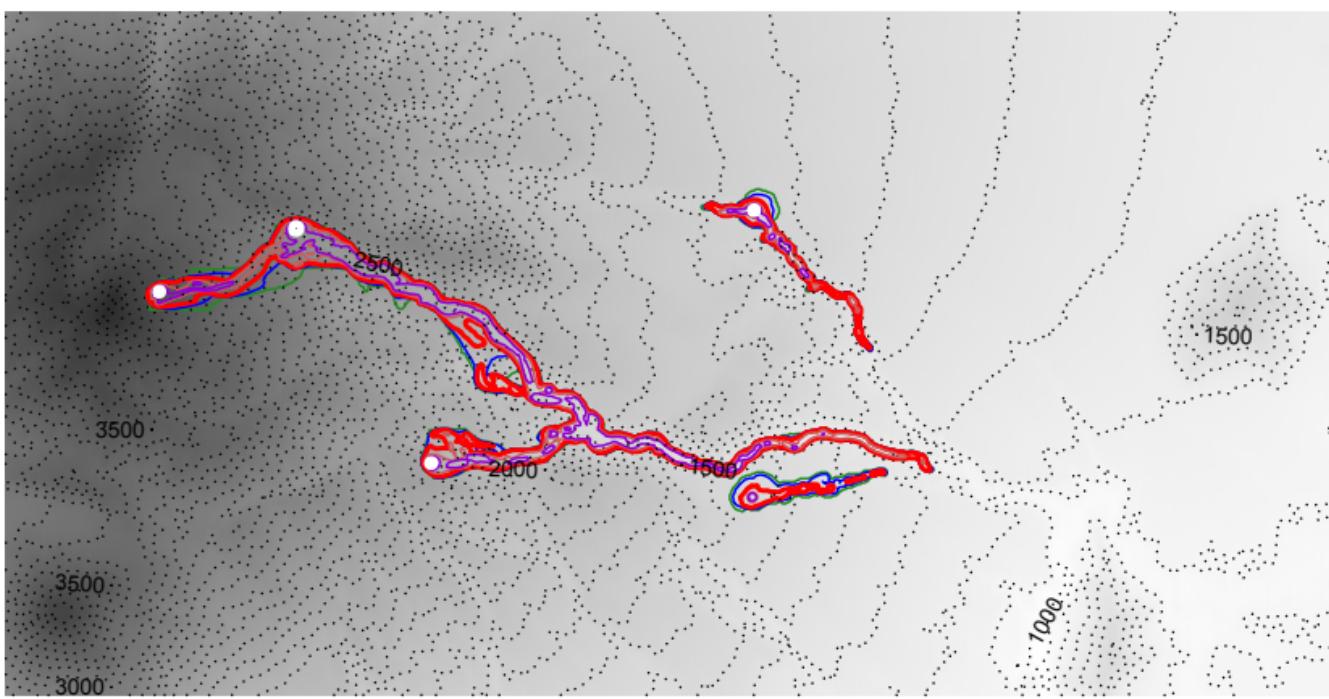
PF, V =4.18e6, phi1 =15, phi2 =2, L=4e-1, 1200s



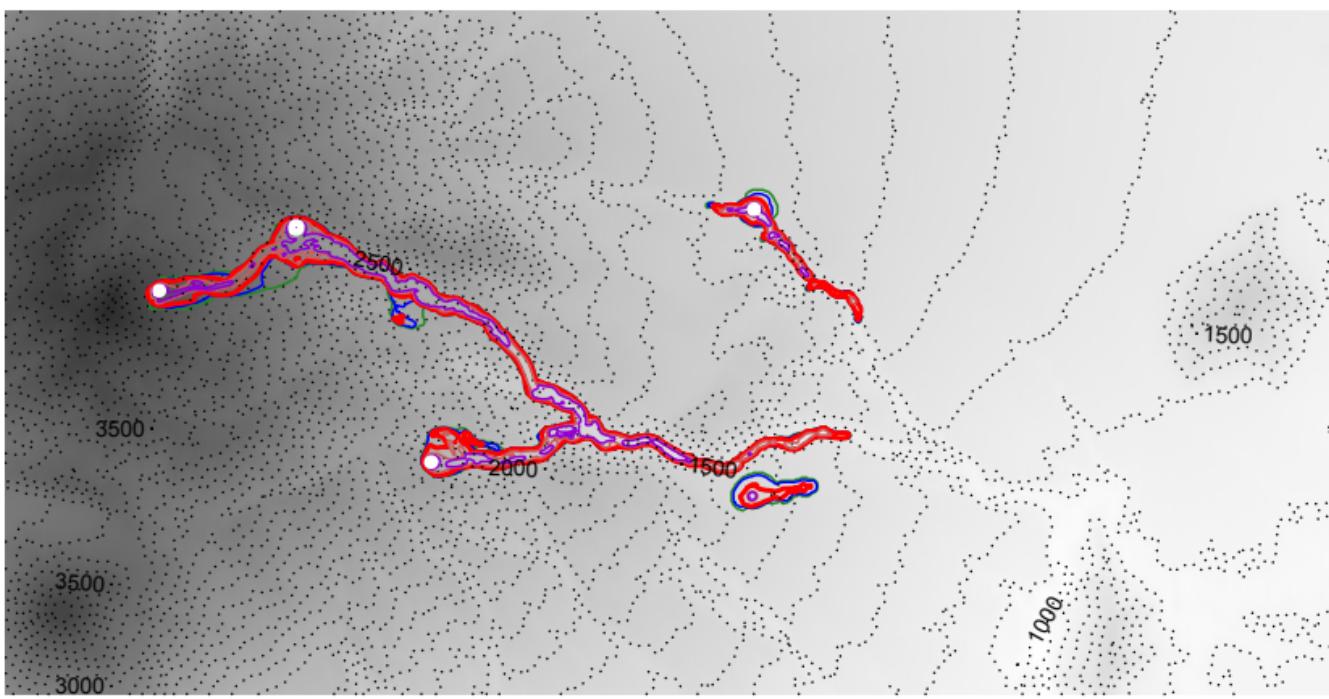
PF, V =4.18e6, phi1 =2, phi2 =15, B=0.5, L=5e-1, 1200s



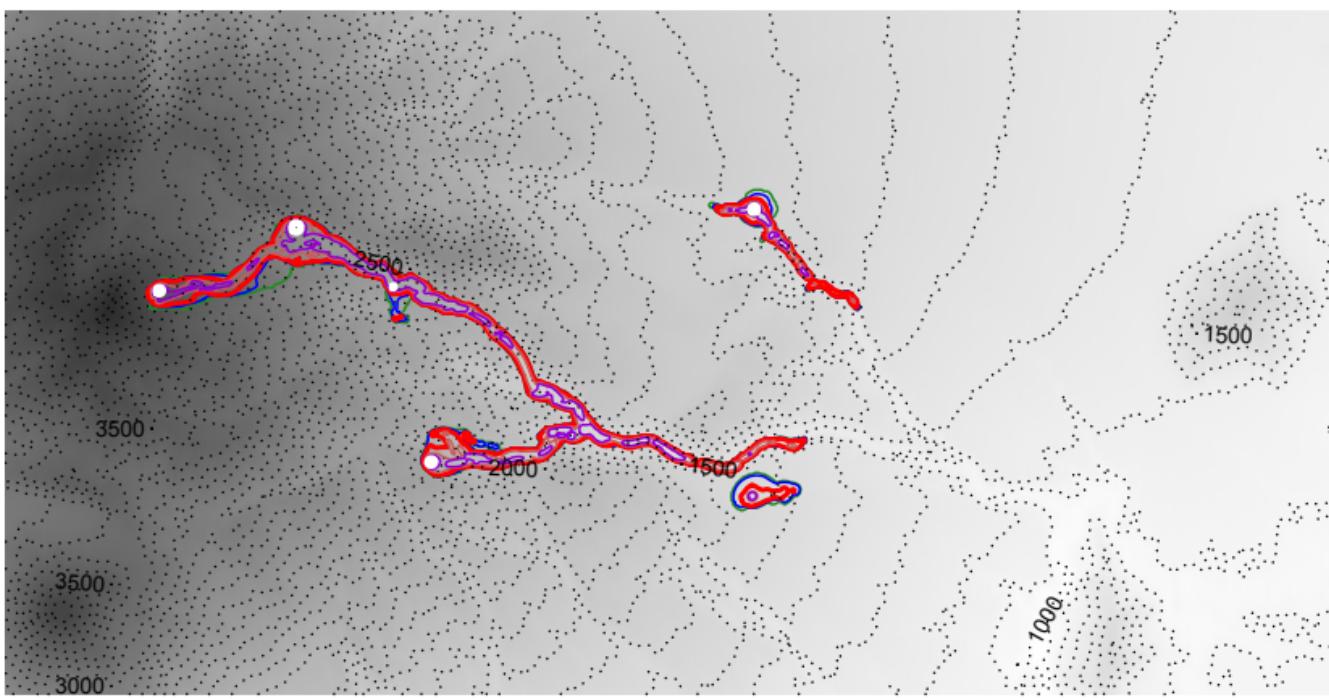
PF, V =4.18e6, phi1 =2.5, phi2 =15, B=0.5, L=1e-1, 1200s



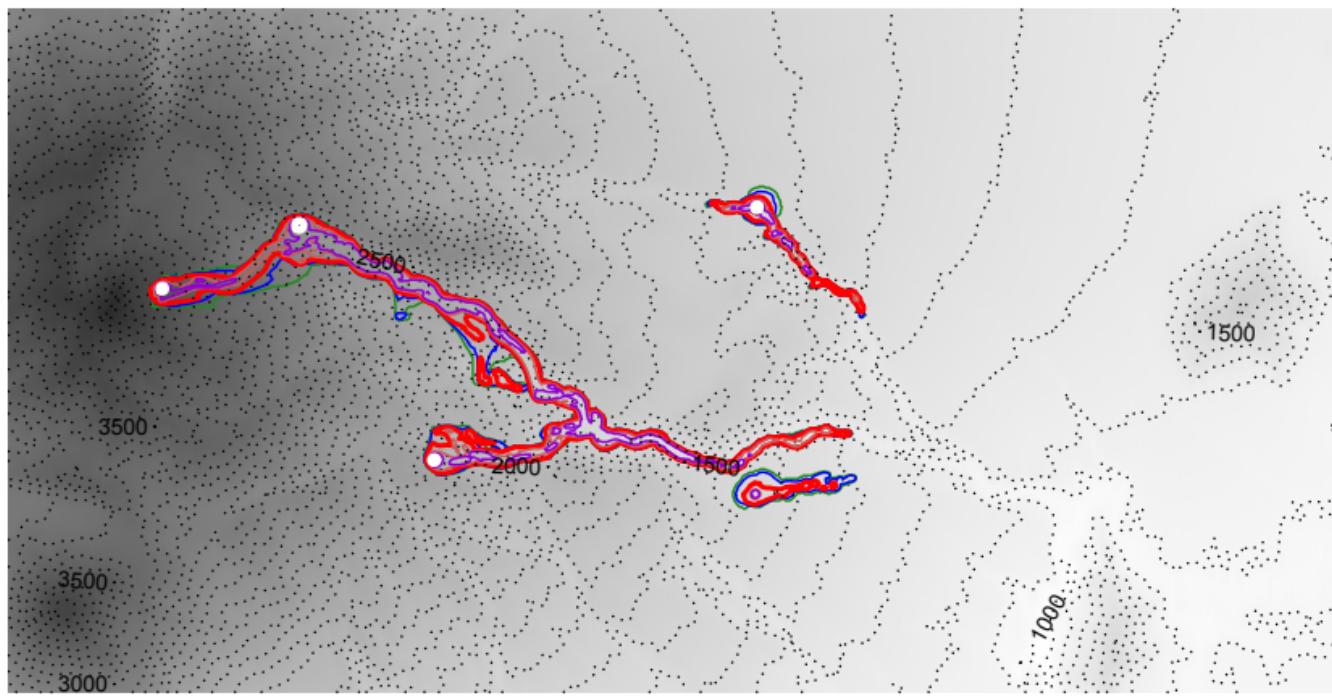
PF, V =4.18e6, phi1 =2.5, phi2 =15, B=0.5, L=2e-1, 1200s



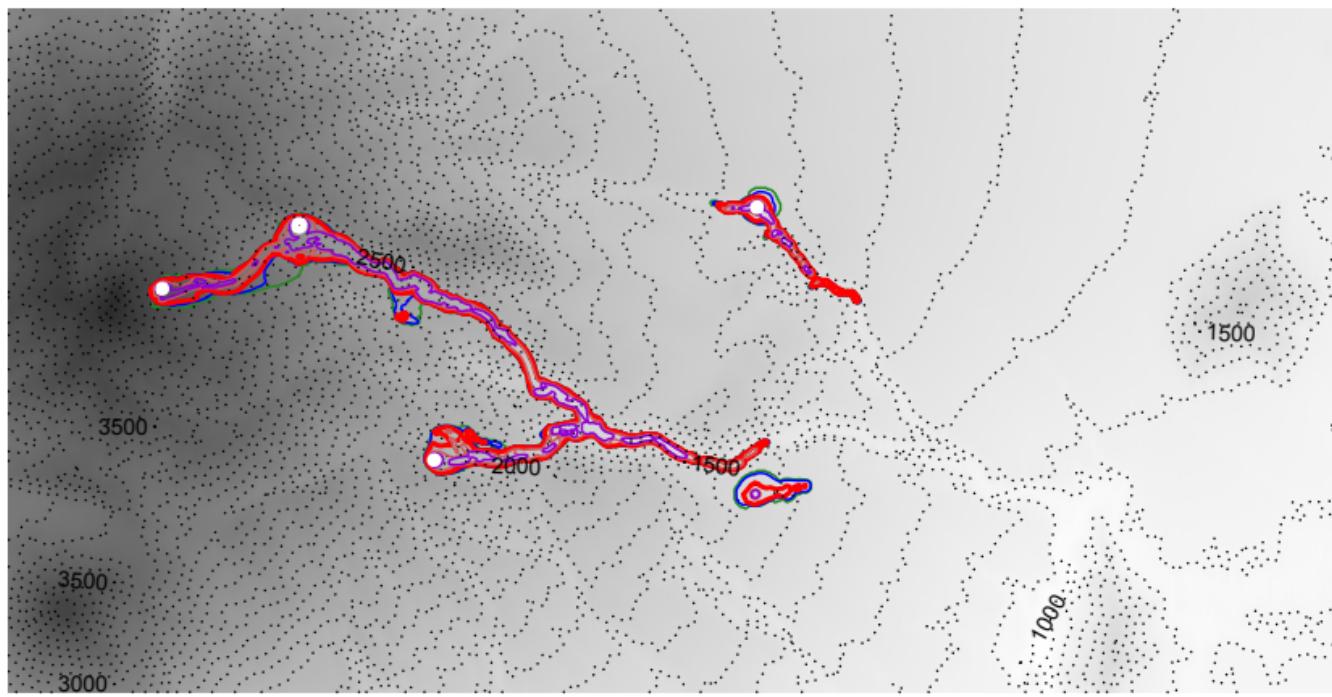
PF, V =4.18e6, phi1 =2.5, phi2 =15, B=0.5, L=3e-1, 1200s



PF, V =4.18e6, phi1 =3, phi2 =15, B=0.5, L=1e-1, 1200s



PF, V =4.18e6, phi1 =3, phi2 =15, B=0.5, L=2e-1, 1200s

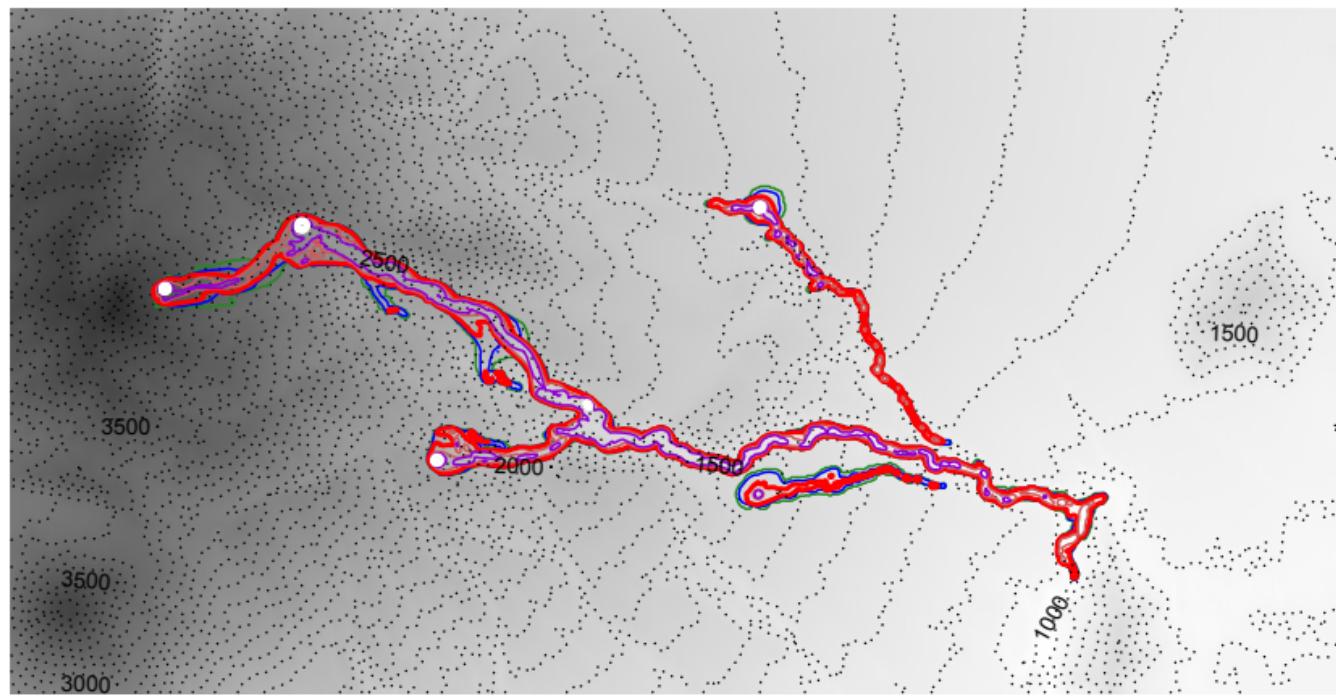


Supporting Information 3.4

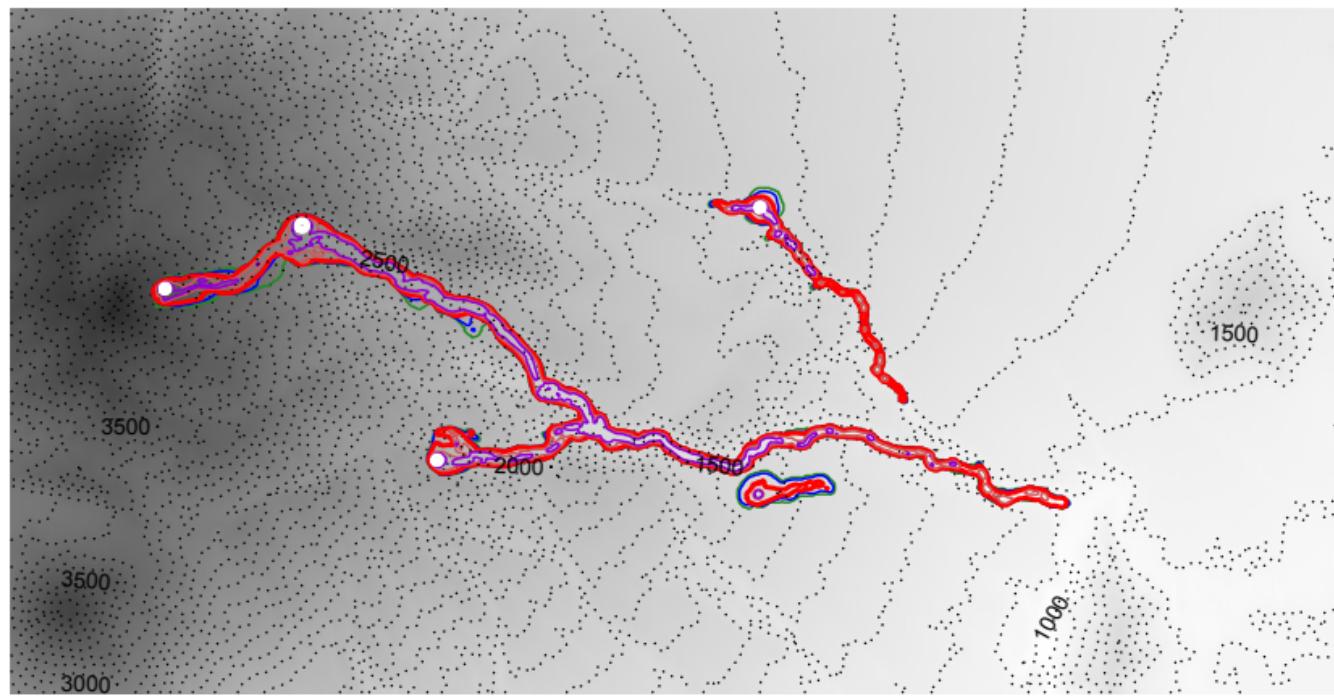
Pouliquen-Forterre summary of Explorative Testing

(d) restriction on $\{\beta=0.7, \Phi_2=19^\circ\}$

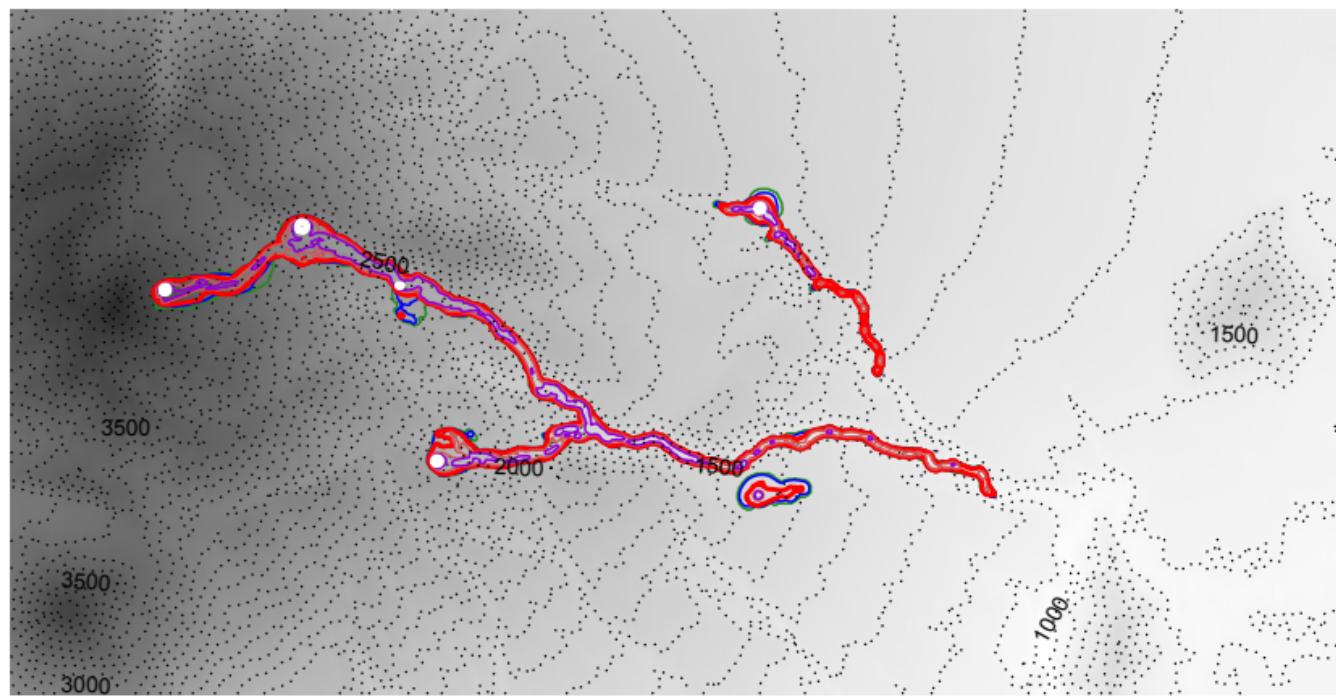
PF, V =4.18e6, phi1 =1, phi2 =19, B=0.7, L=1e-1, 1200s



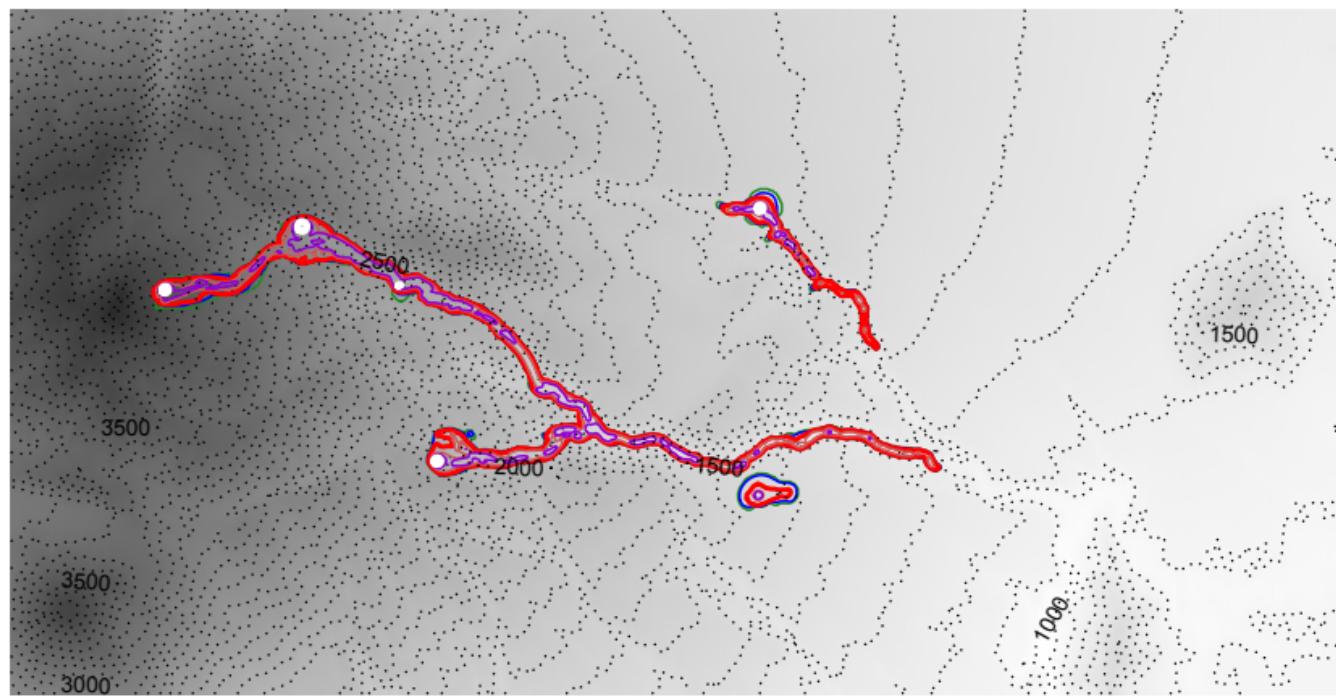
PF, V =4.18e6, phi1 =1, phi2 =19, B=0.7, L=2e-1, 1200s



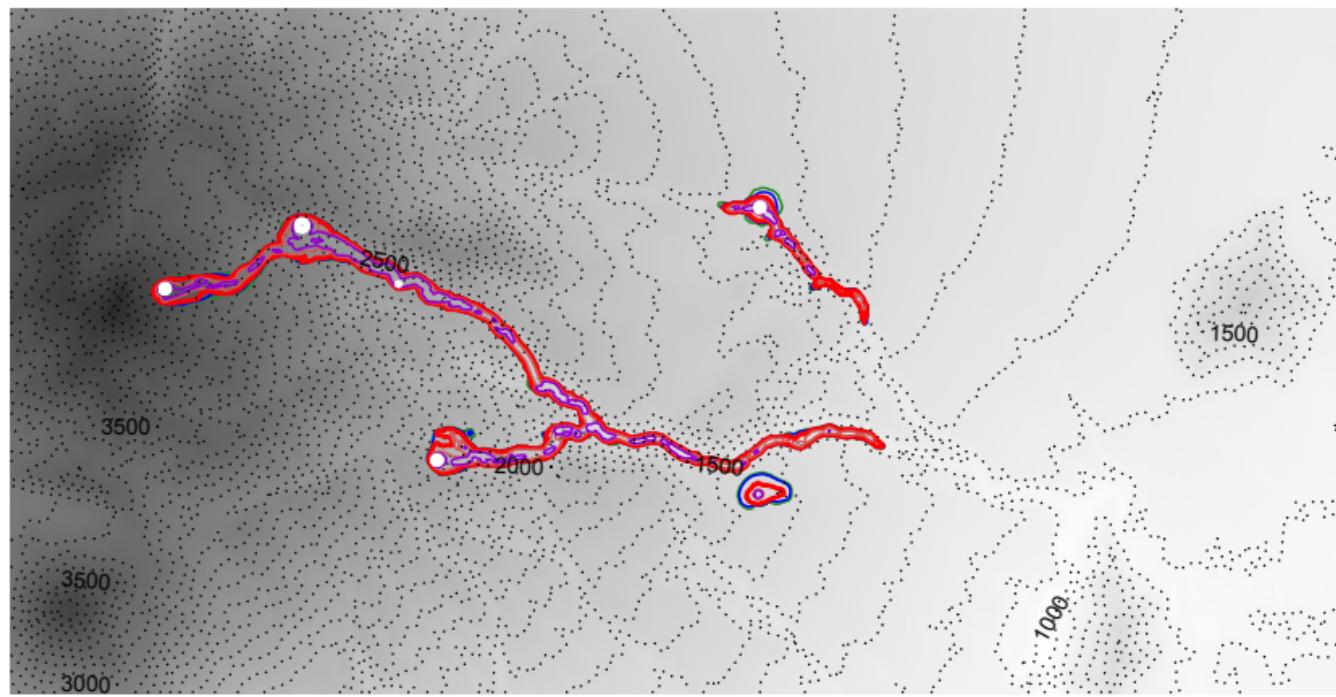
PF, V =4.18e6, phi1 =1, phi2 =19, B=0.7, L=3e-1, 1200s



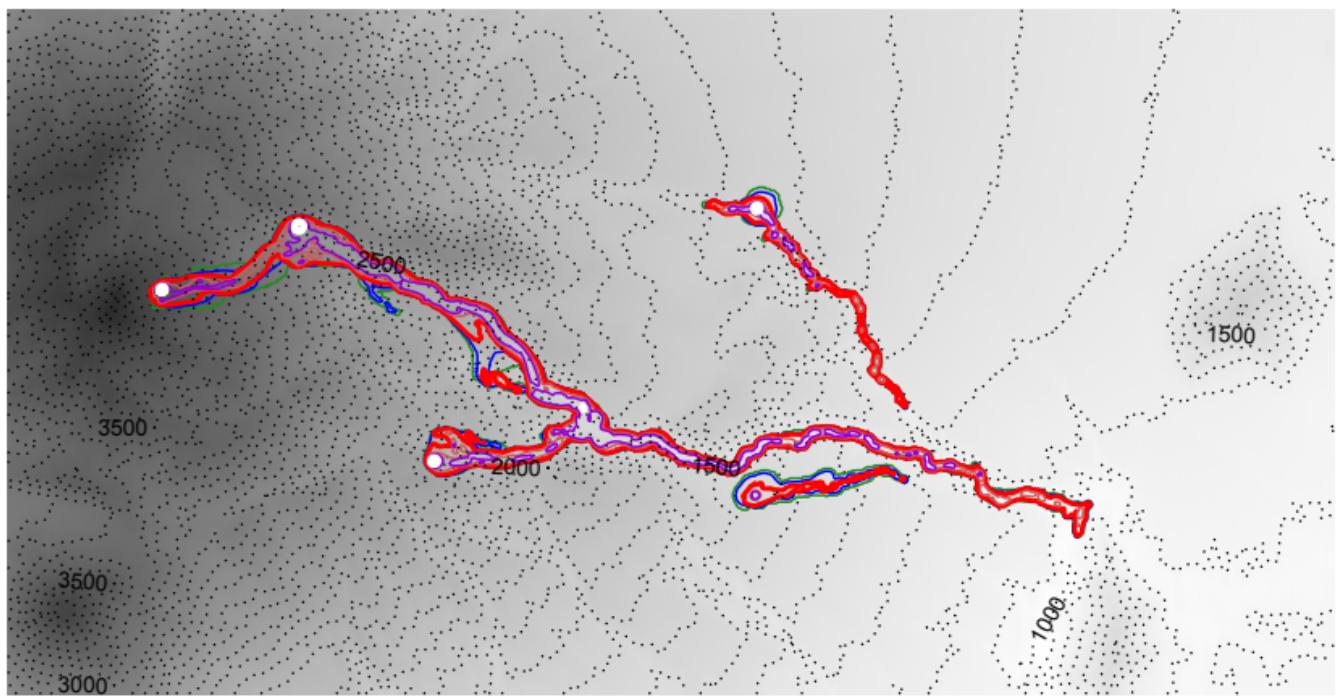
PF, V =4.18e6, phi1 =1, phi2 =19, B=0.7, L=4e-1, 1200s



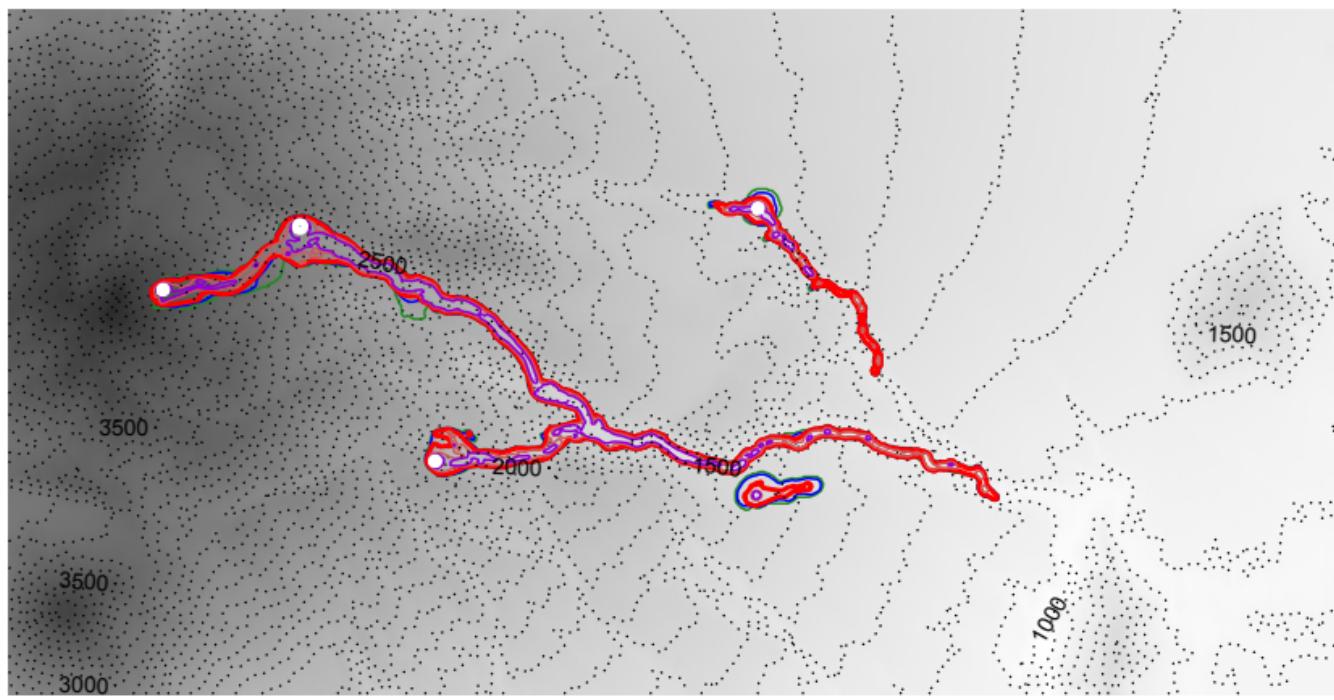
PF, V =4.18e6, phi1 =1, phi2 =19, B=0.7, L=5e-1, 1200s



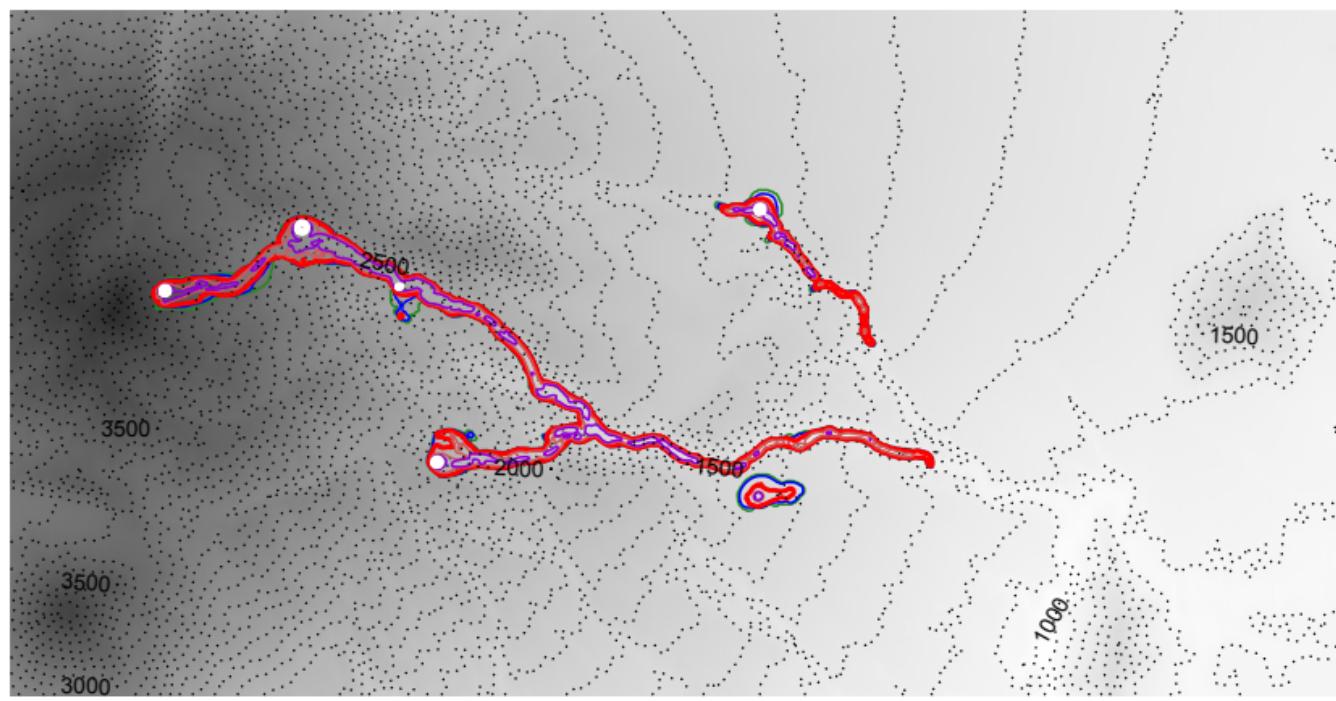
PF, V =4.18e6, phi1 =1.5, phi2 =19, B=0.7, L=1e-1, 1200s



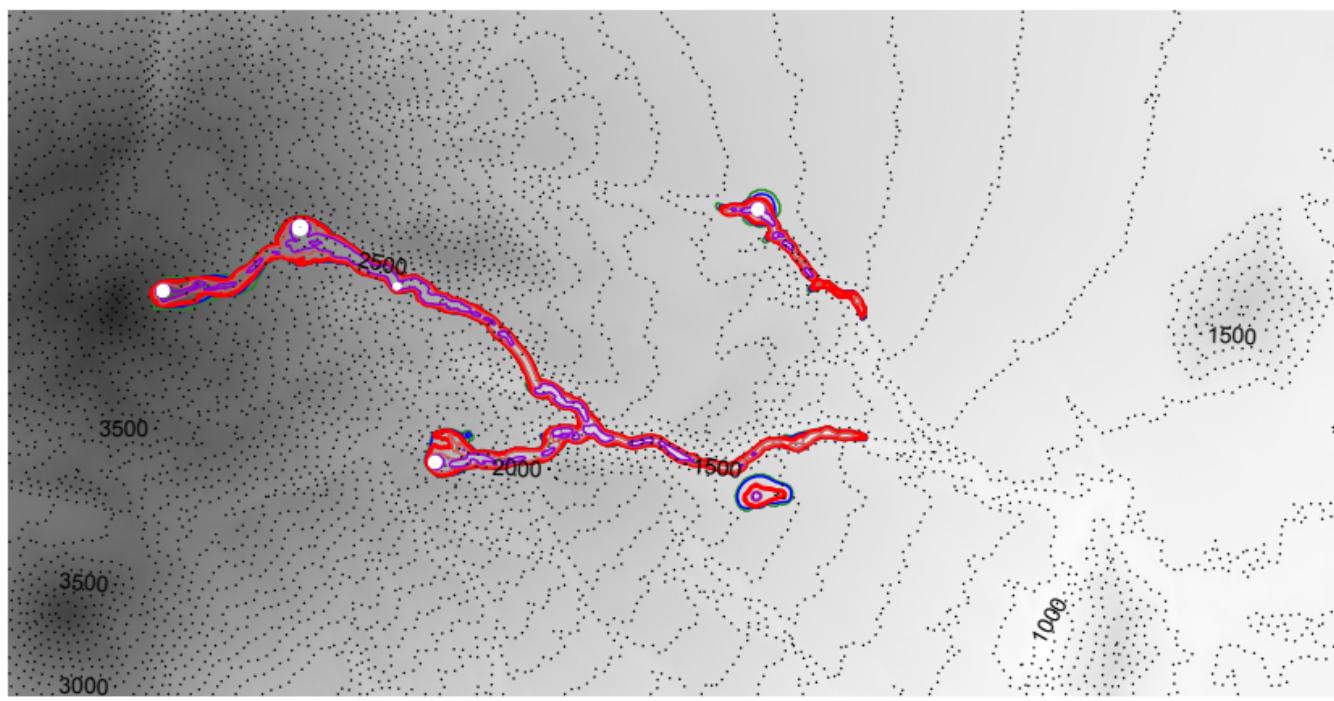
PF, V =4.18e6, phi1 =1.5, phi2 =19, B=0.7, L=2e-1, 1200s



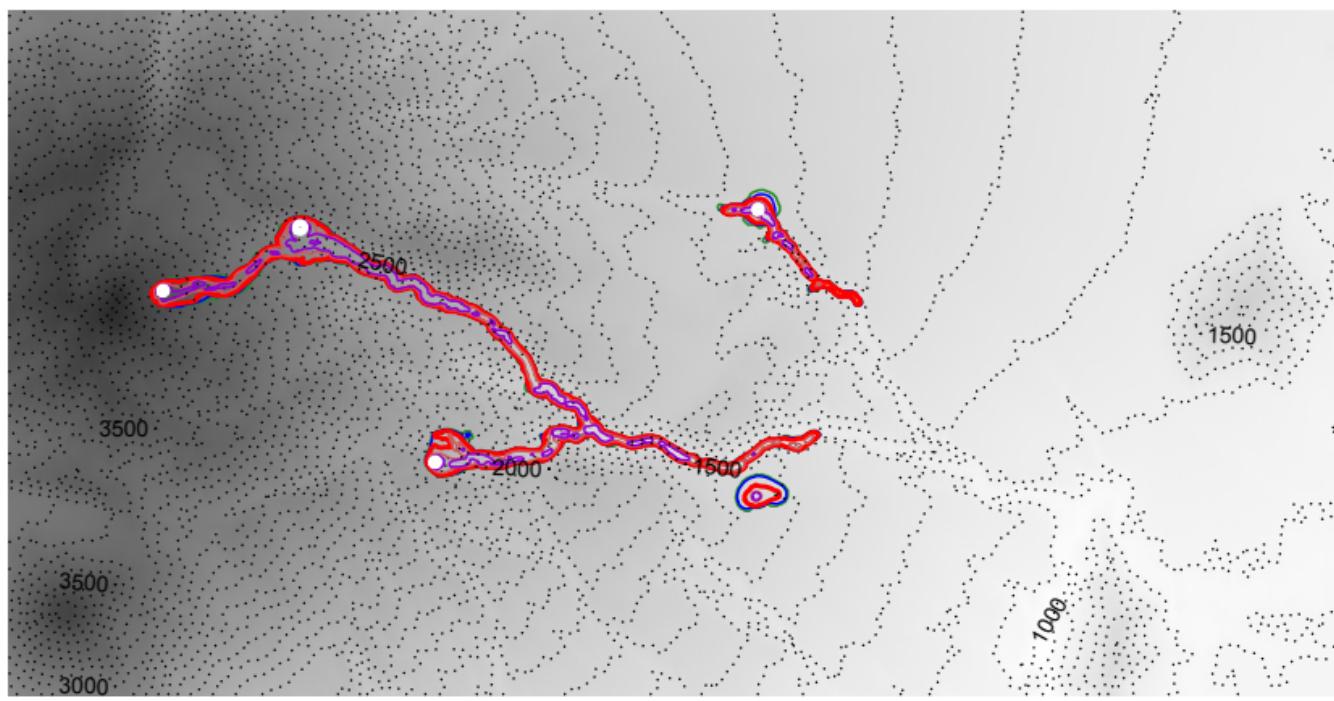
PF, V =4.18e6, phi1 =1.5, phi2 =19, B=0.7, L=3e-1, 1200s



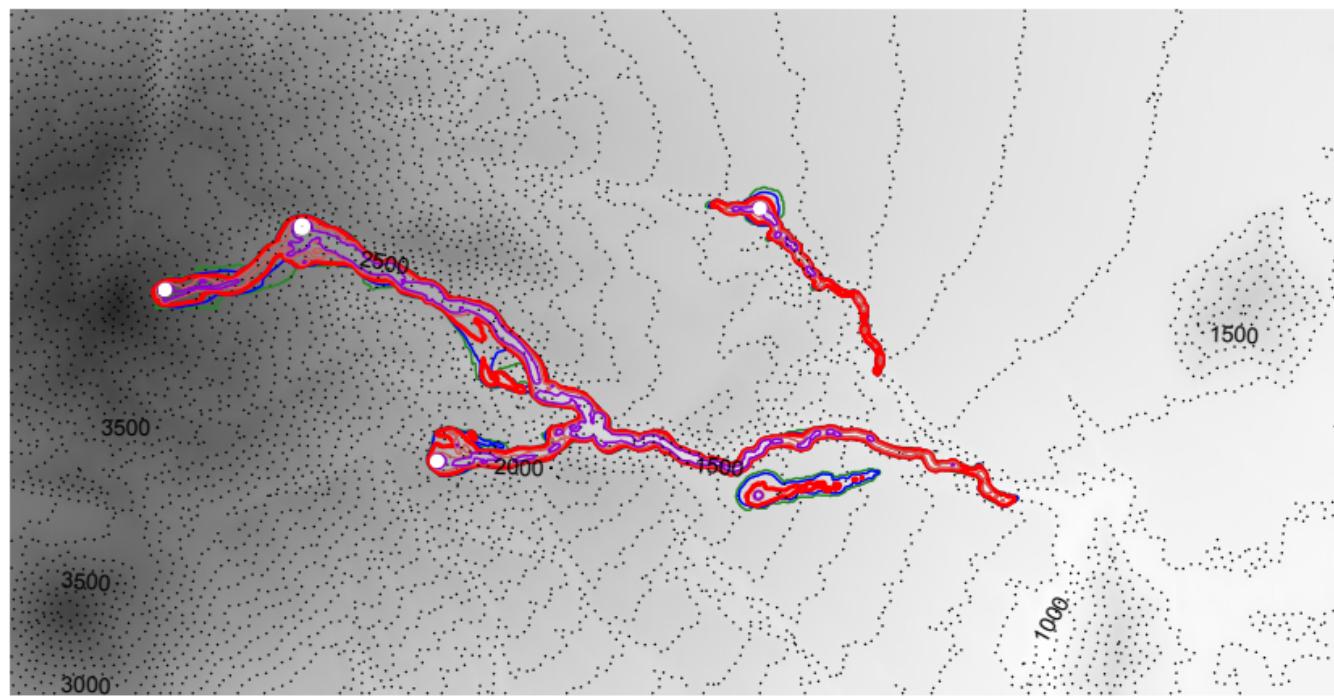
PF, V =4.18e6, phi1 =1.5, phi2 =19, B=0.7, L=4e-1, 1200s



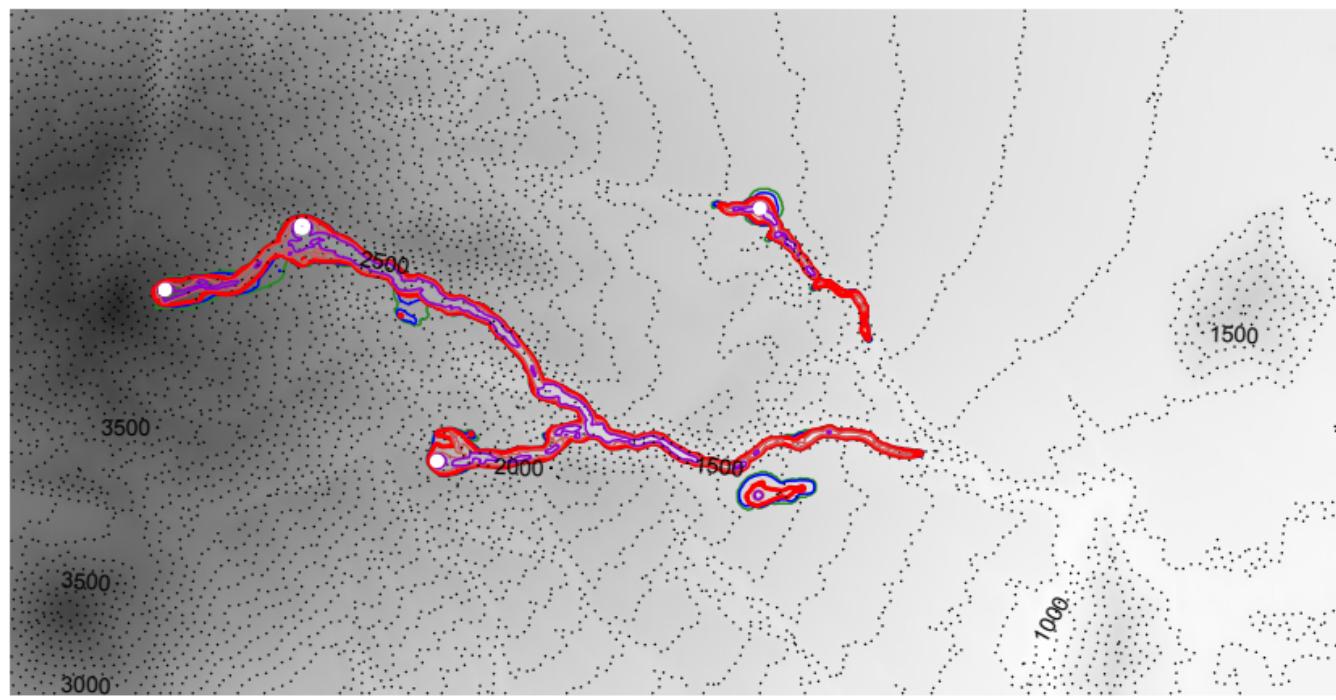
PF, V =4.18e6, phi1 =1.5, phi2 =19, B=0.7, L=5e-1, 1200s



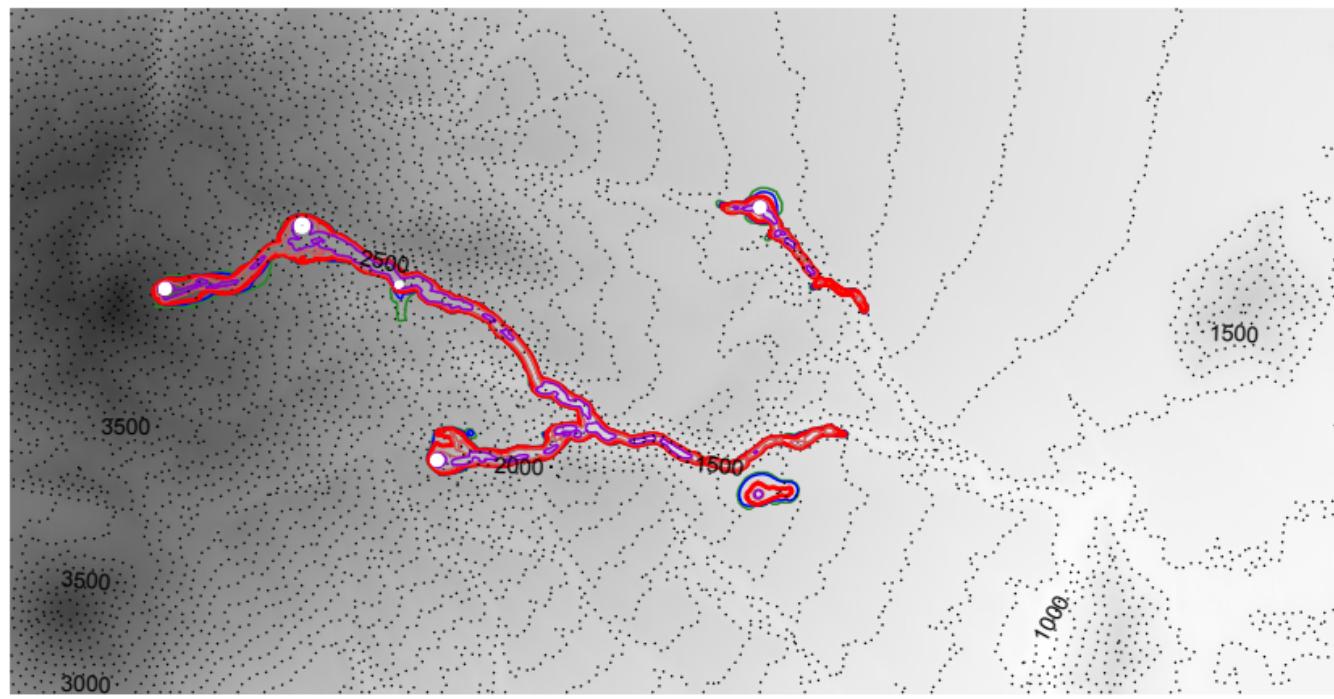
PF, V =4.18e6, phi1 =2, phi2 =19, B=0.7, L=1e-1, 1200s



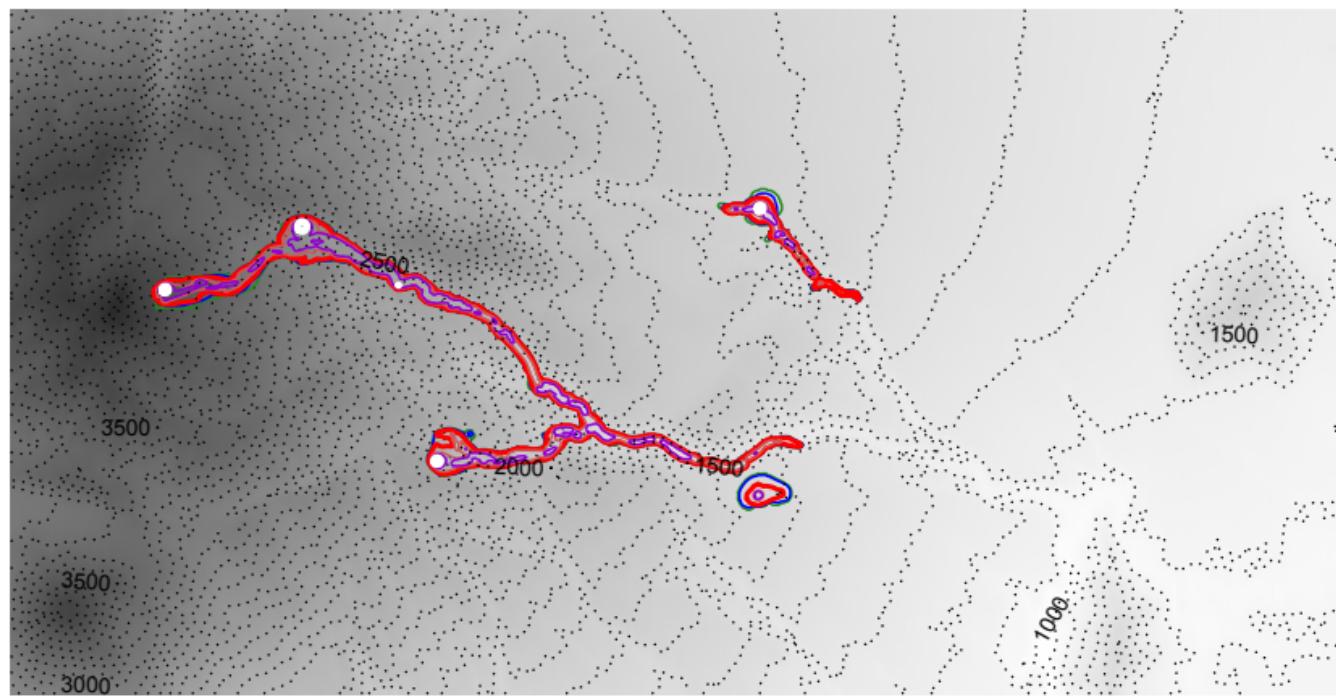
PF, V =4.18e6, phi1 =2, phi2 =19, B=0.7, L=2e-1, 1200s



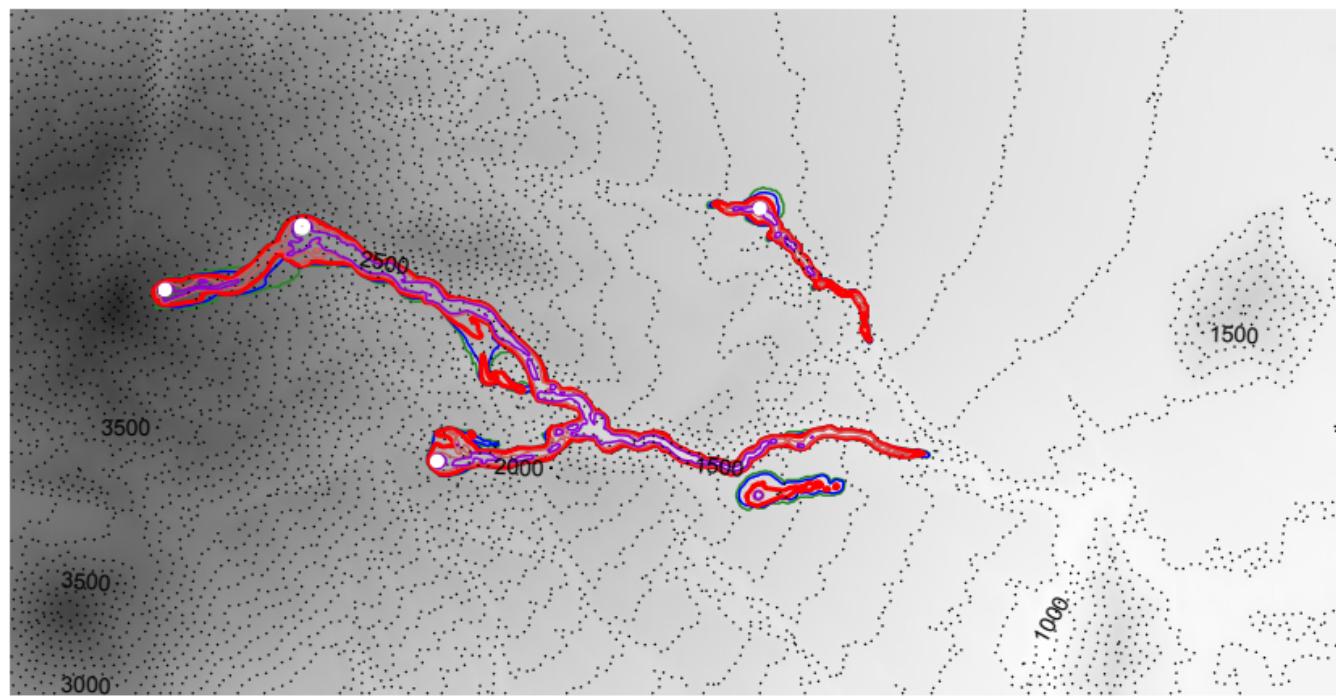
PF, V =4.18e6, phi1 =2, phi2 =19, B=0.7, L=3e-1, 1200s



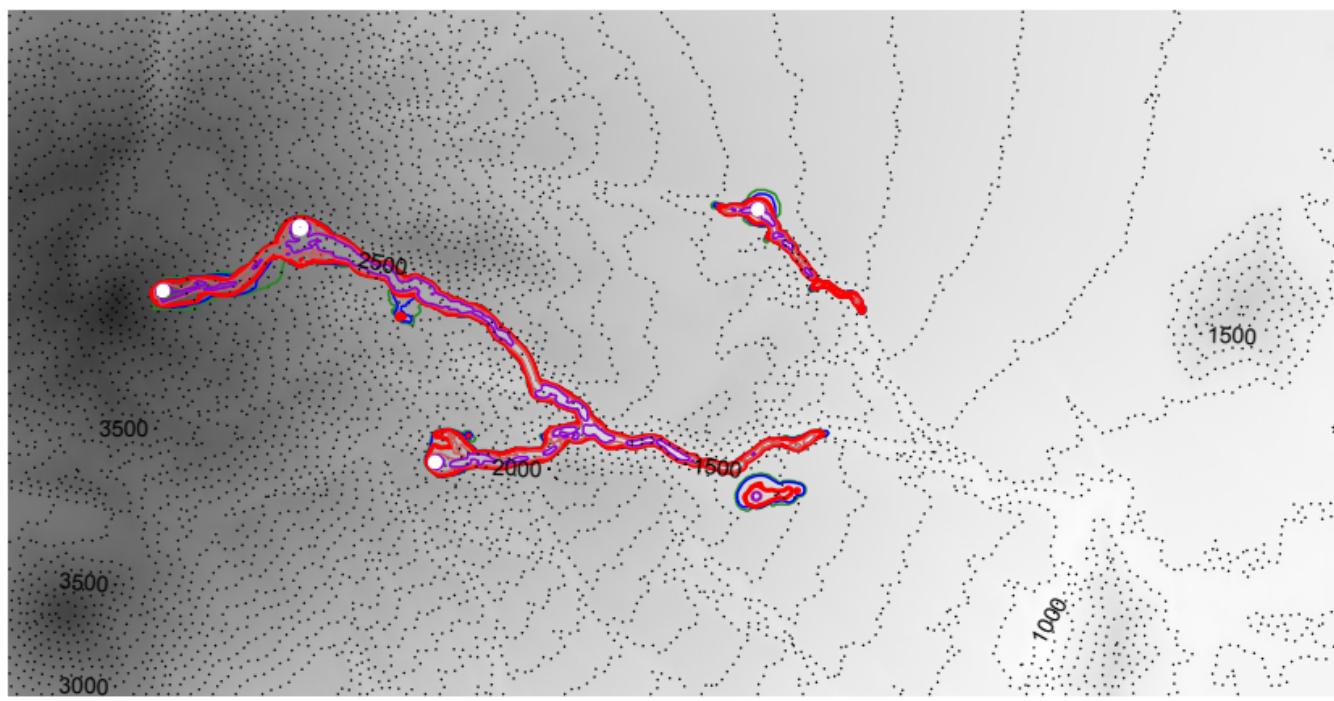
PF, V =4.18e6, phi1 =2, phi2 =19, B=0.7, L=4e-1, 1200s



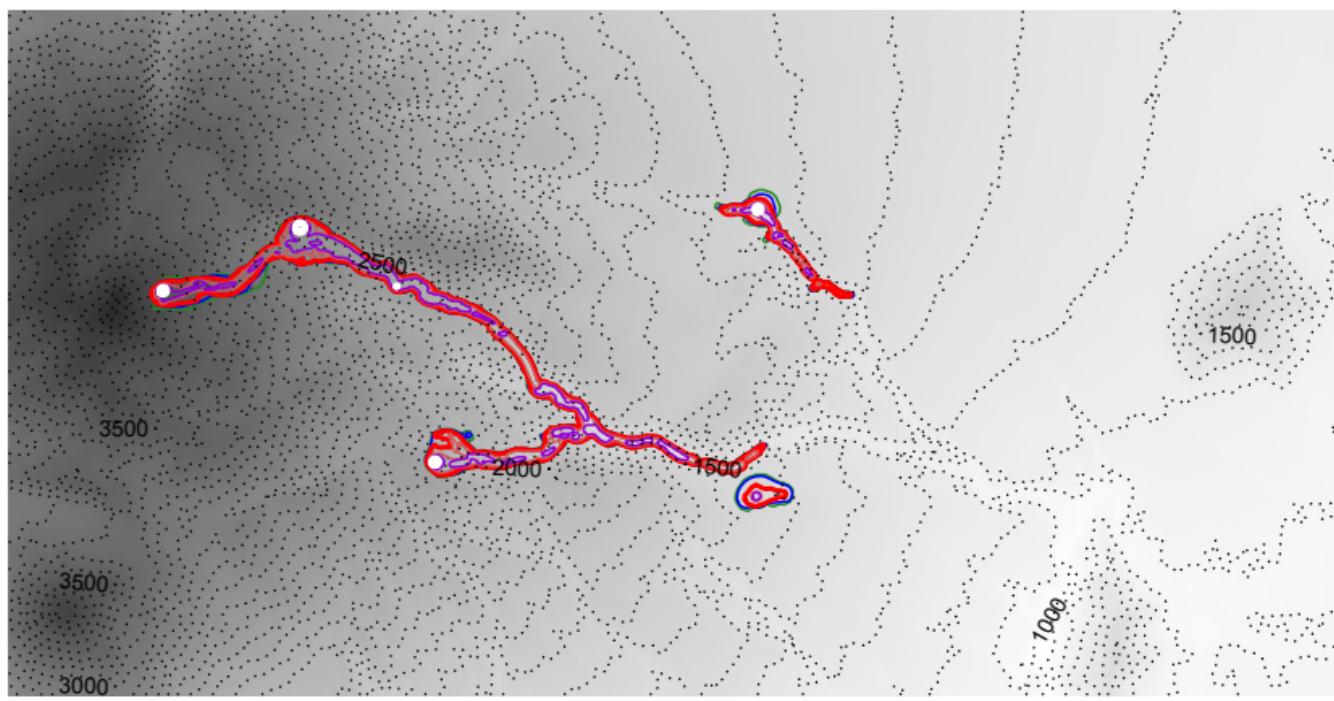
PF, V =4.18e6, phi1 =2.5, phi2 =19, B=0.7, L=1e-1, 1200s



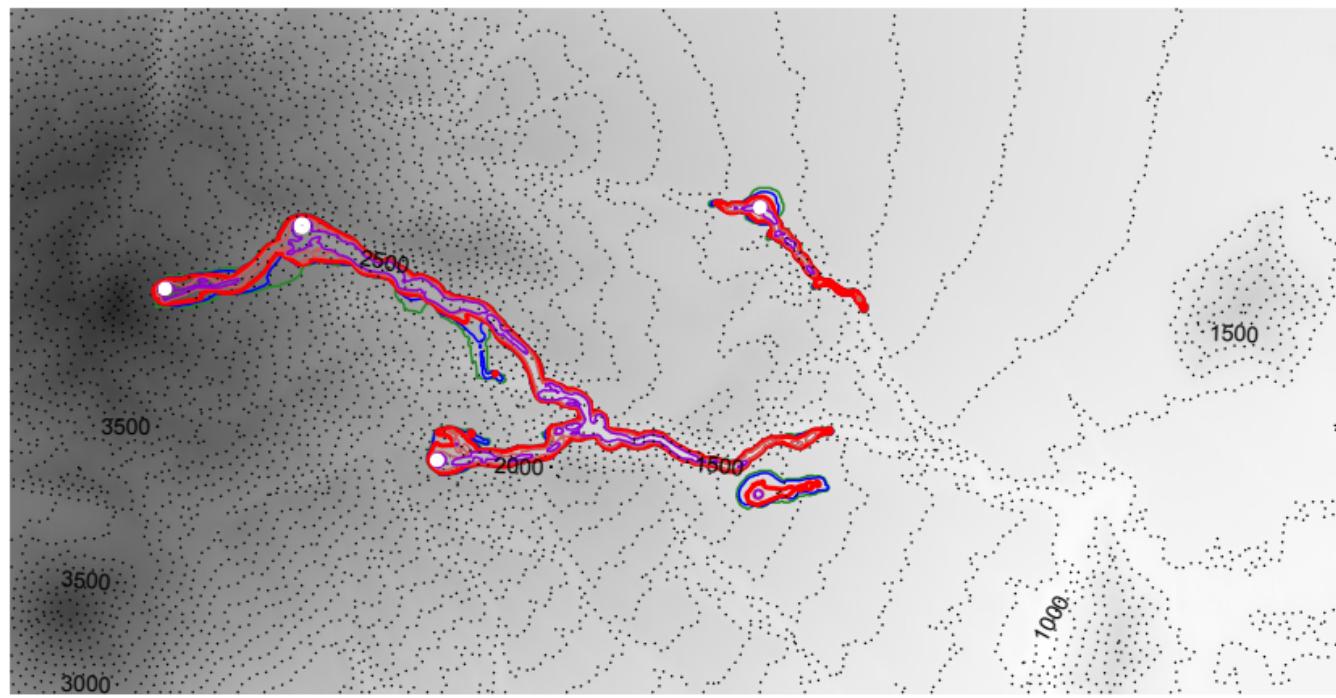
PF, V =4.18e6, phi1 =2.5, phi2 =19, B=0.7, L=2e-1, 1200s



PF, V =4.18e6, phi1 =2.5, phi2 =19, B=0.7, L=3e-1, 1200s



PF, V = 4.18×10^6 , phi1 =3, phi2 =19, B=0.7, L=1e-1, 1200s



PF, V =4.18e6, phi1 =3, phi2 =19, B=0.7, L=2e-1, 1200s

