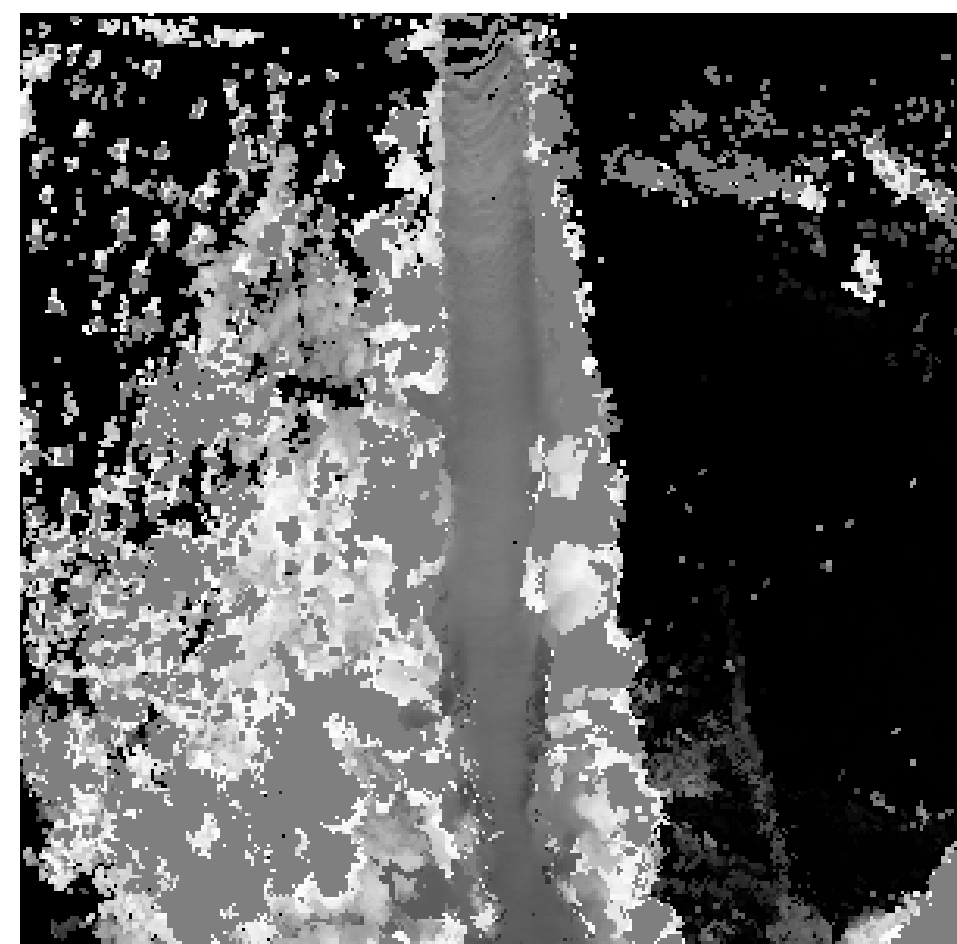
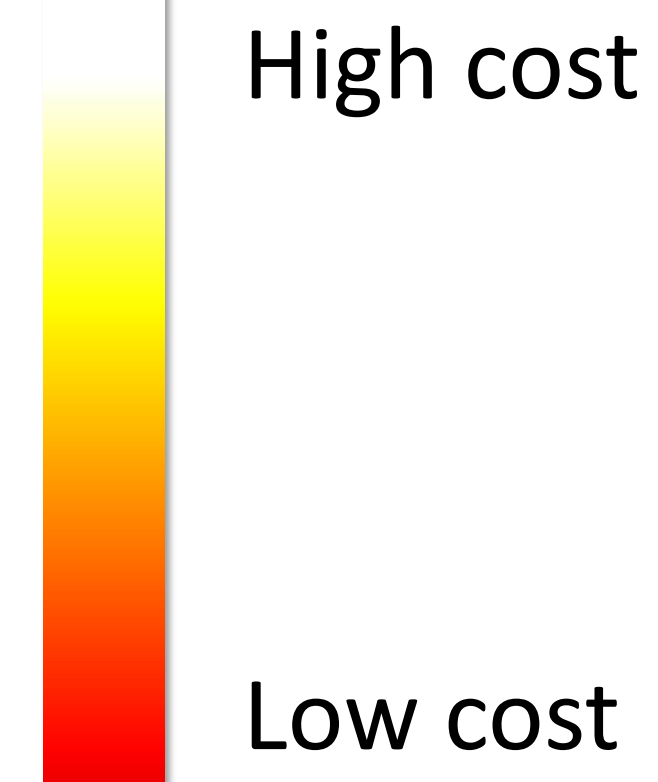
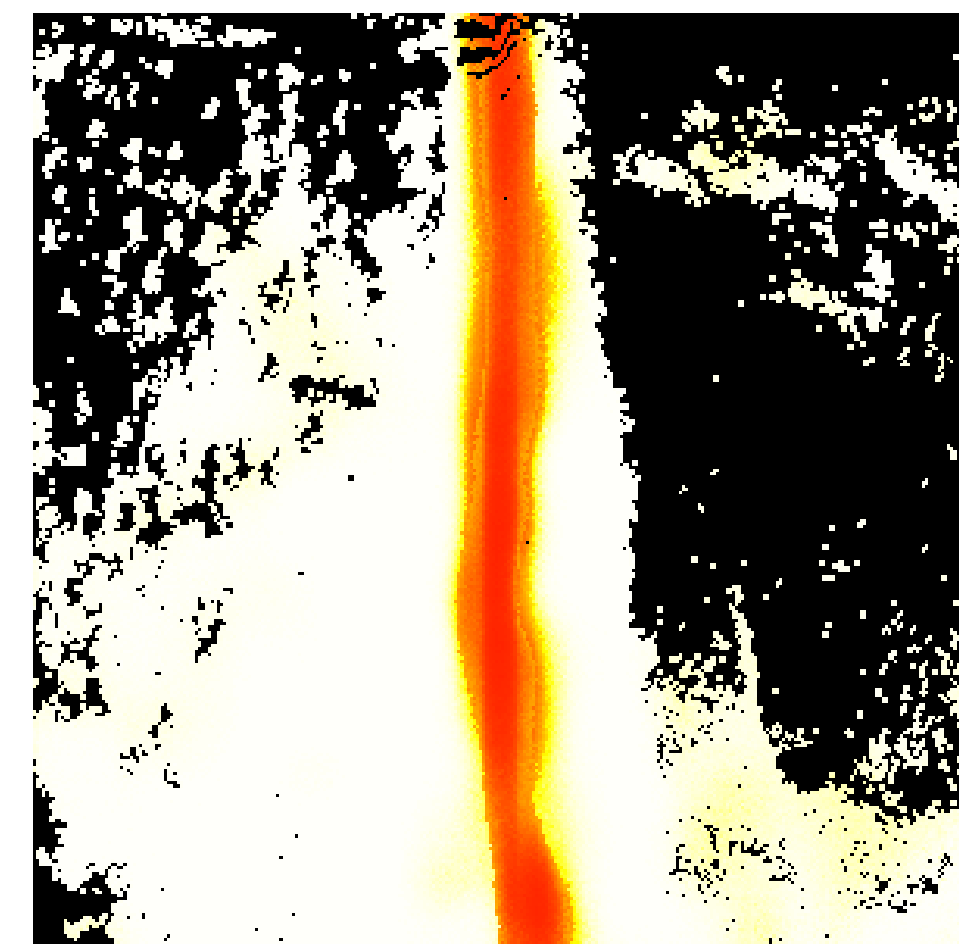
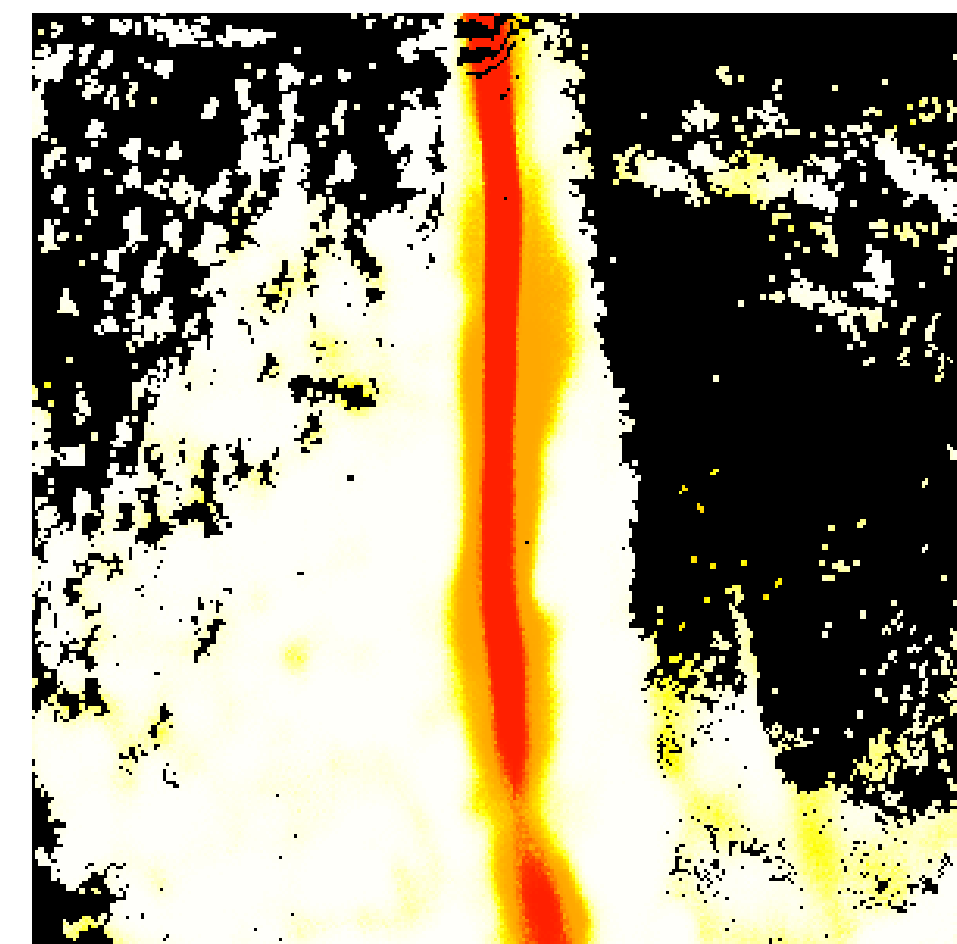
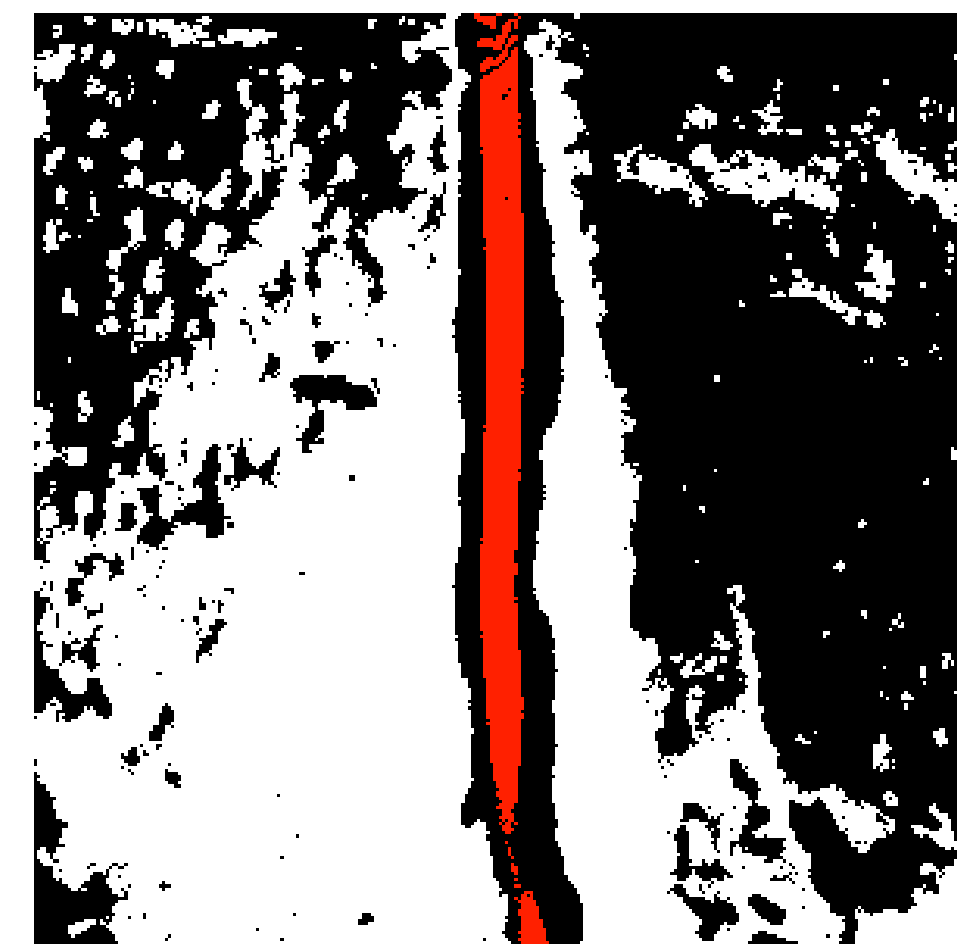
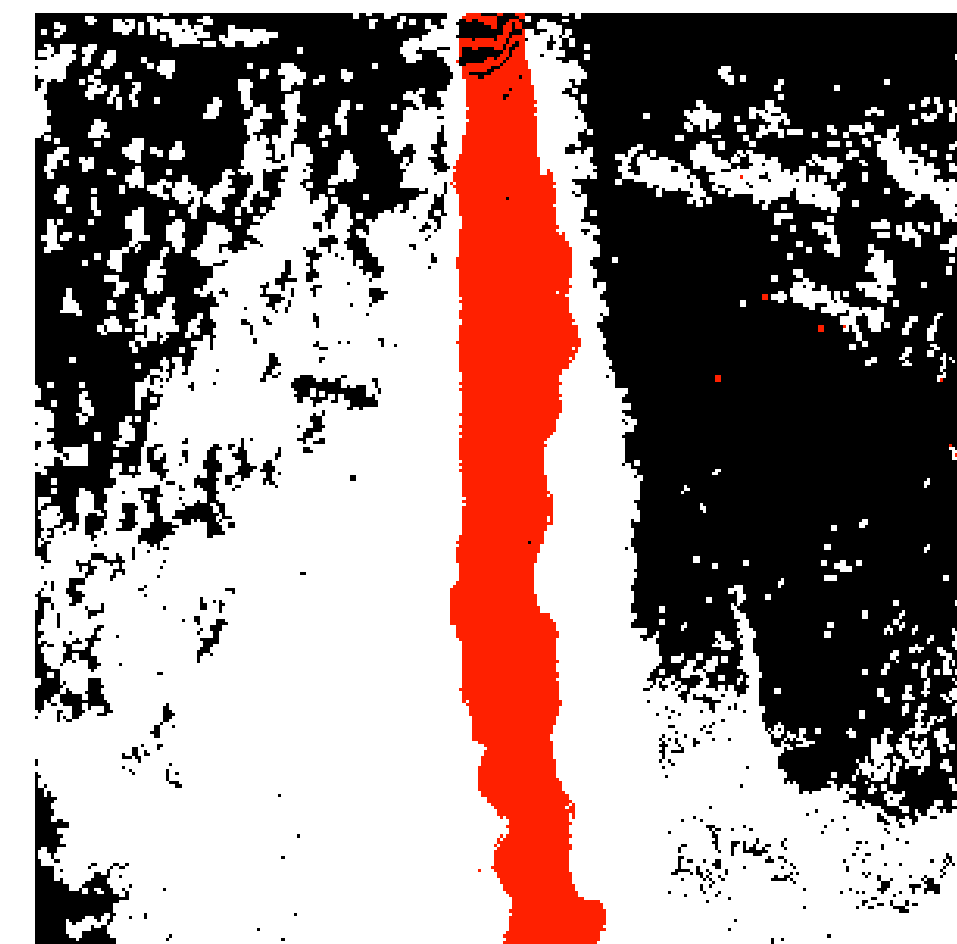
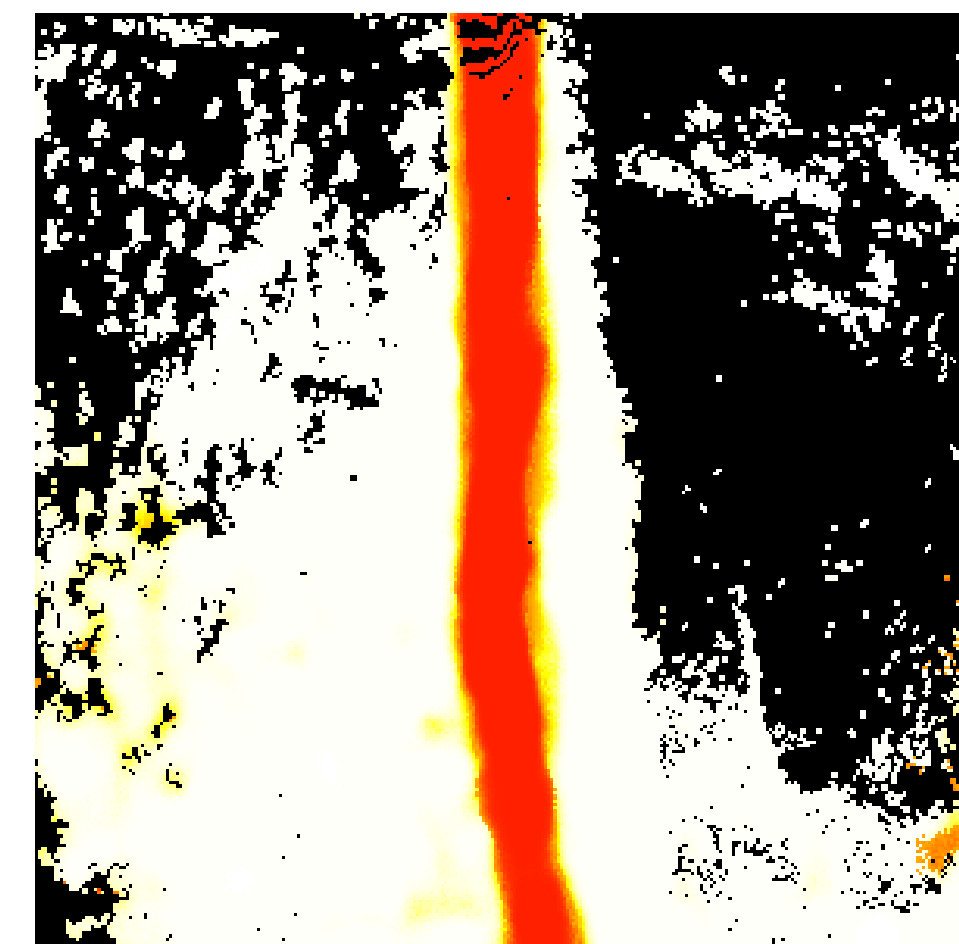
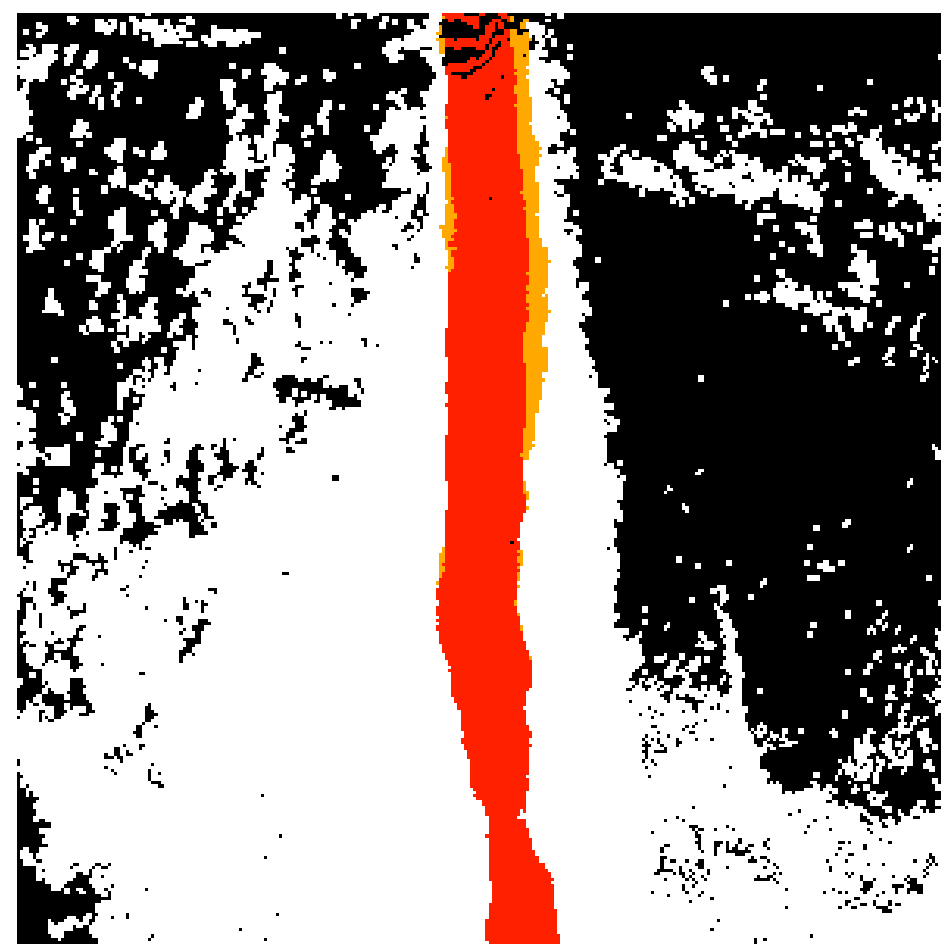


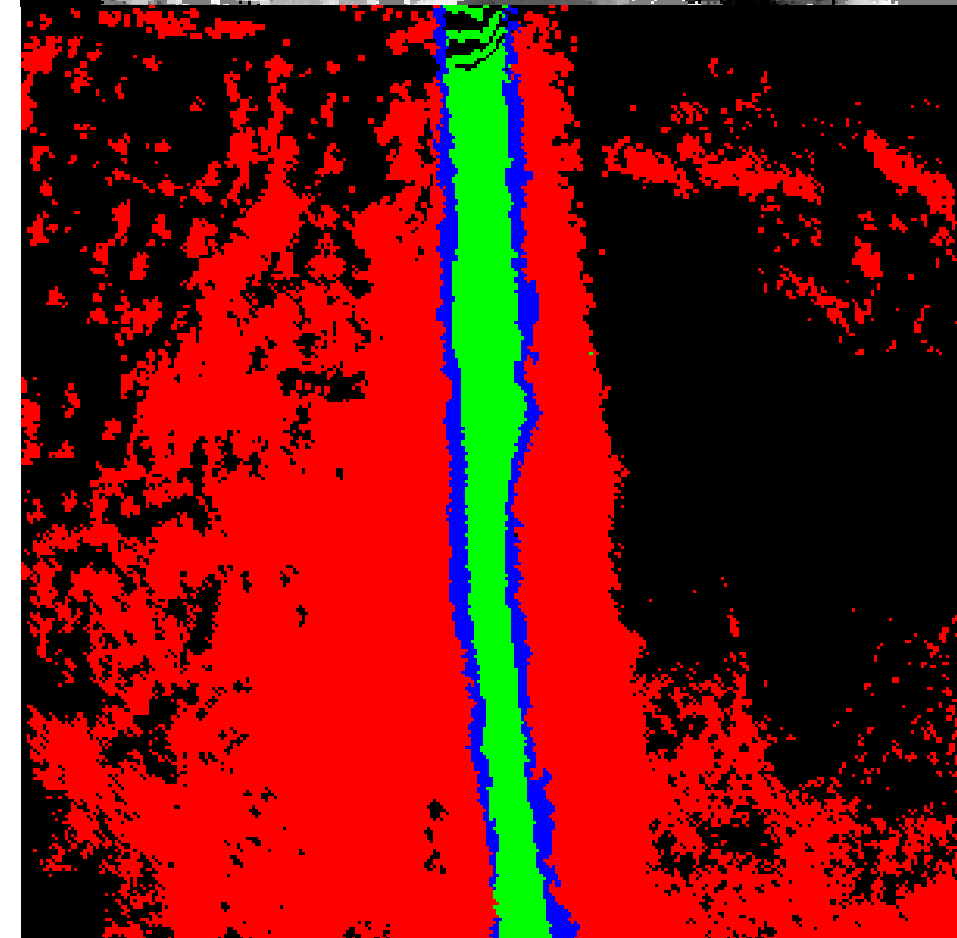
Input



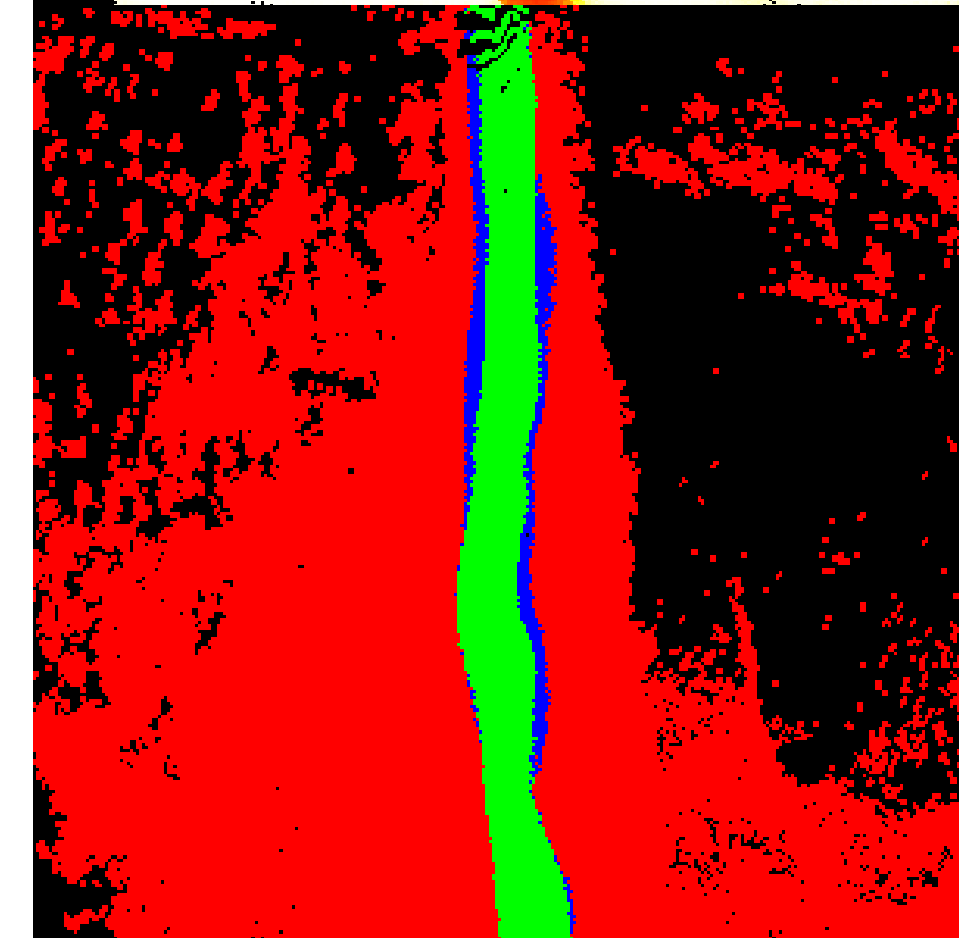
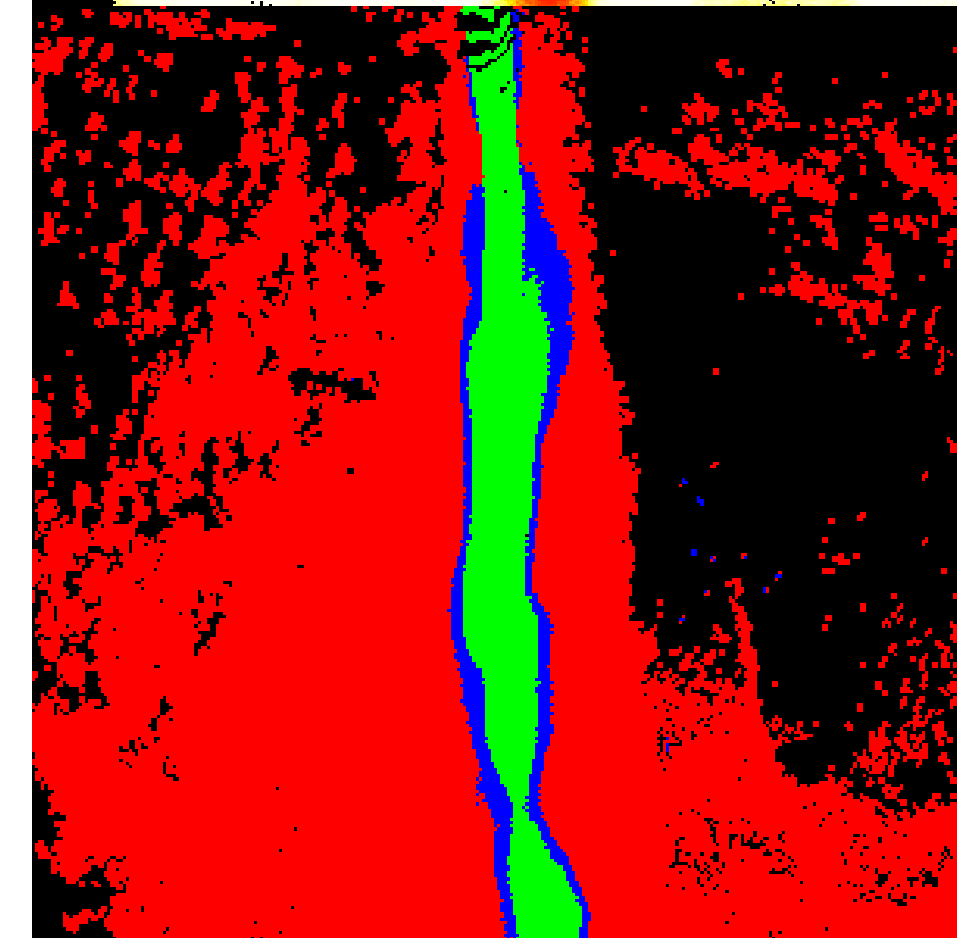
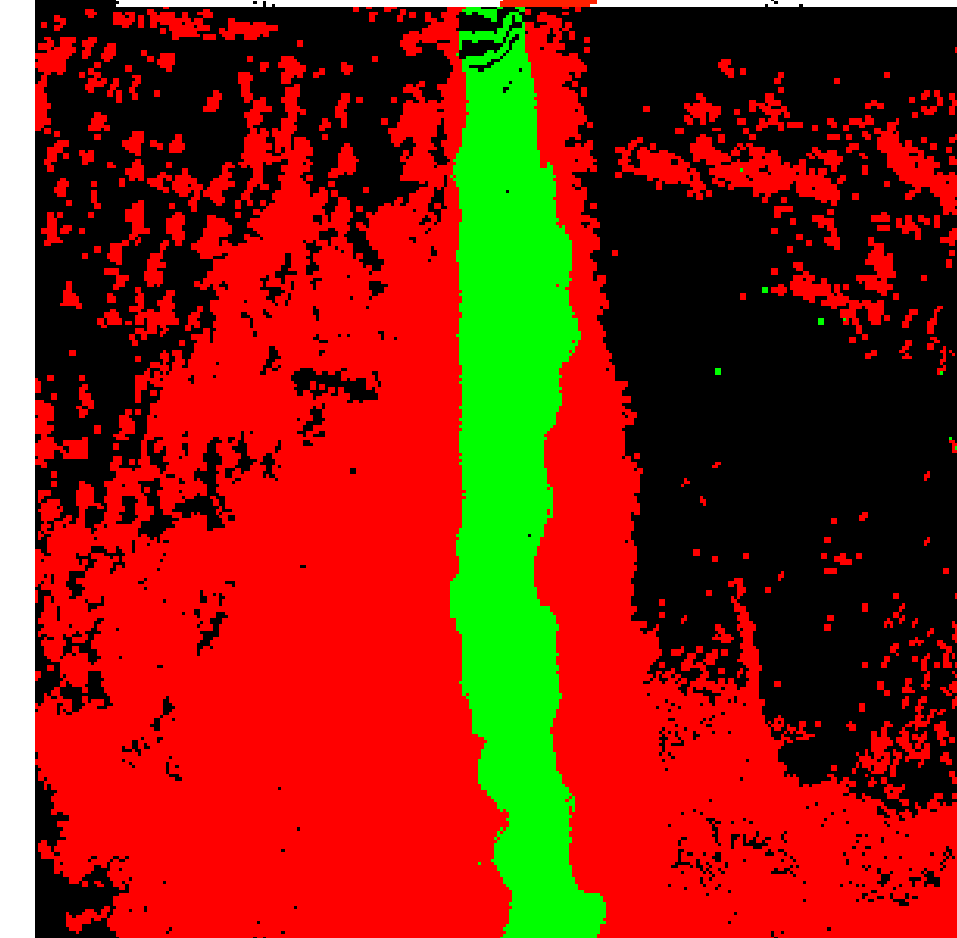
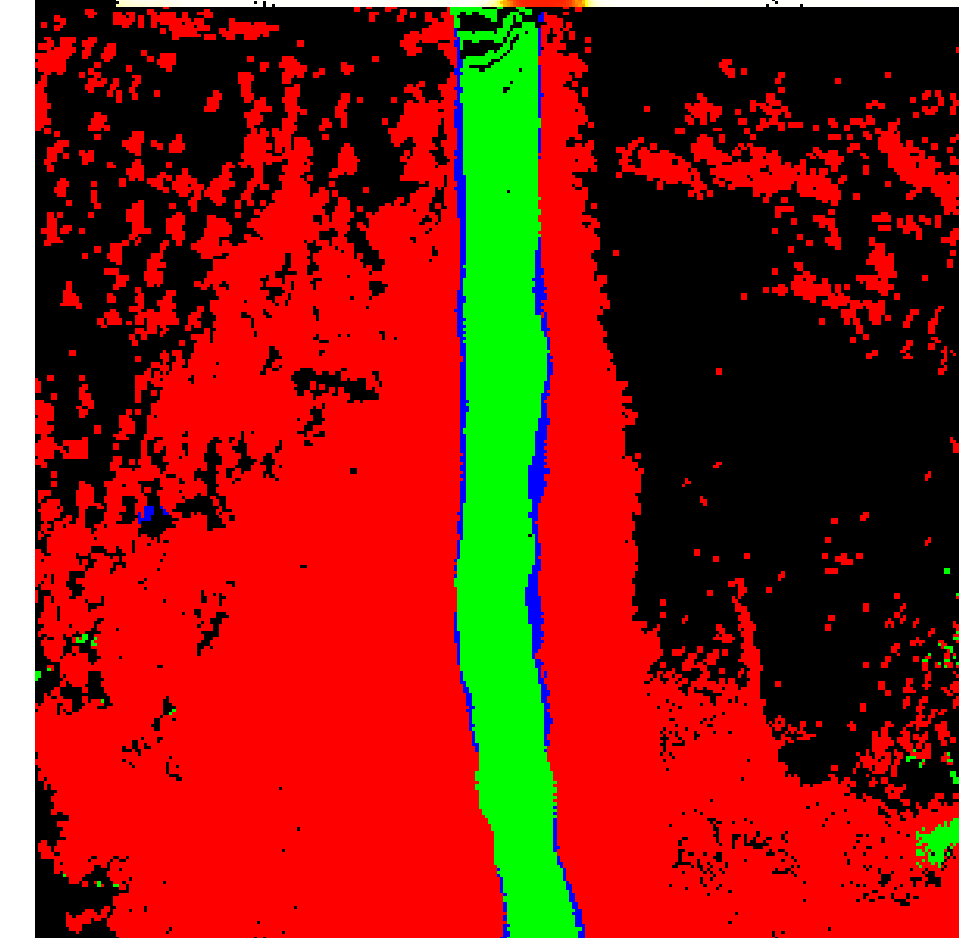
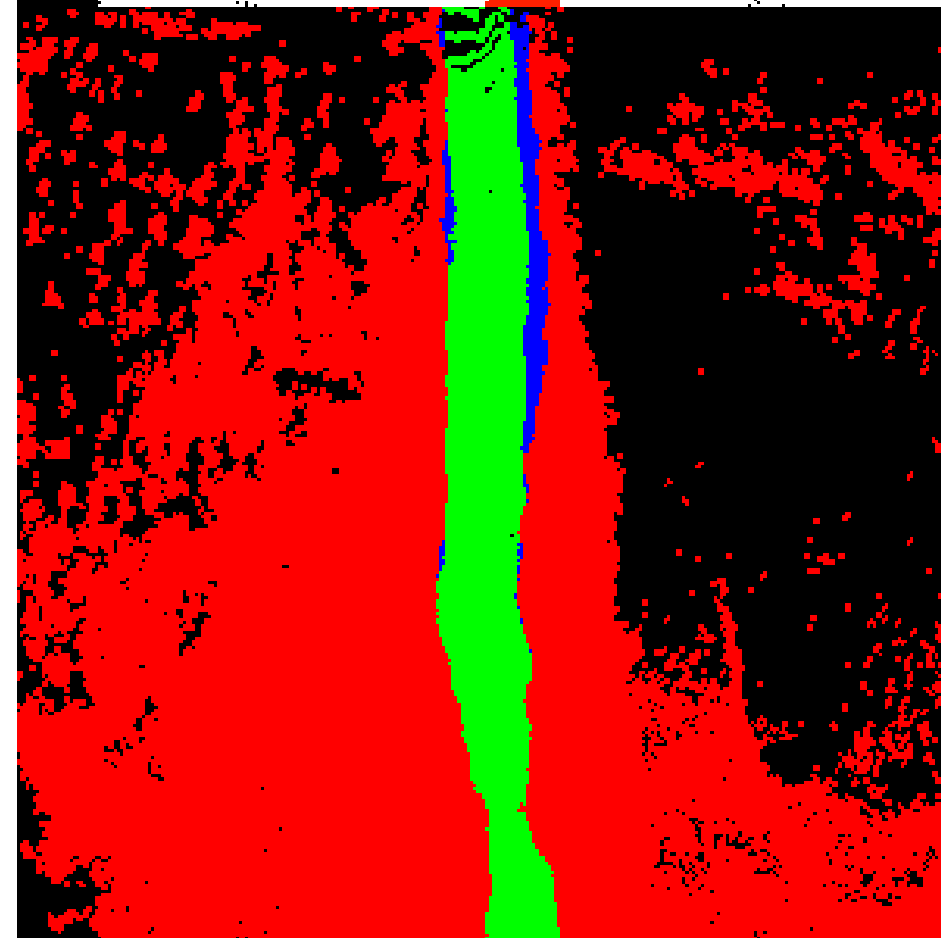
Cost Map



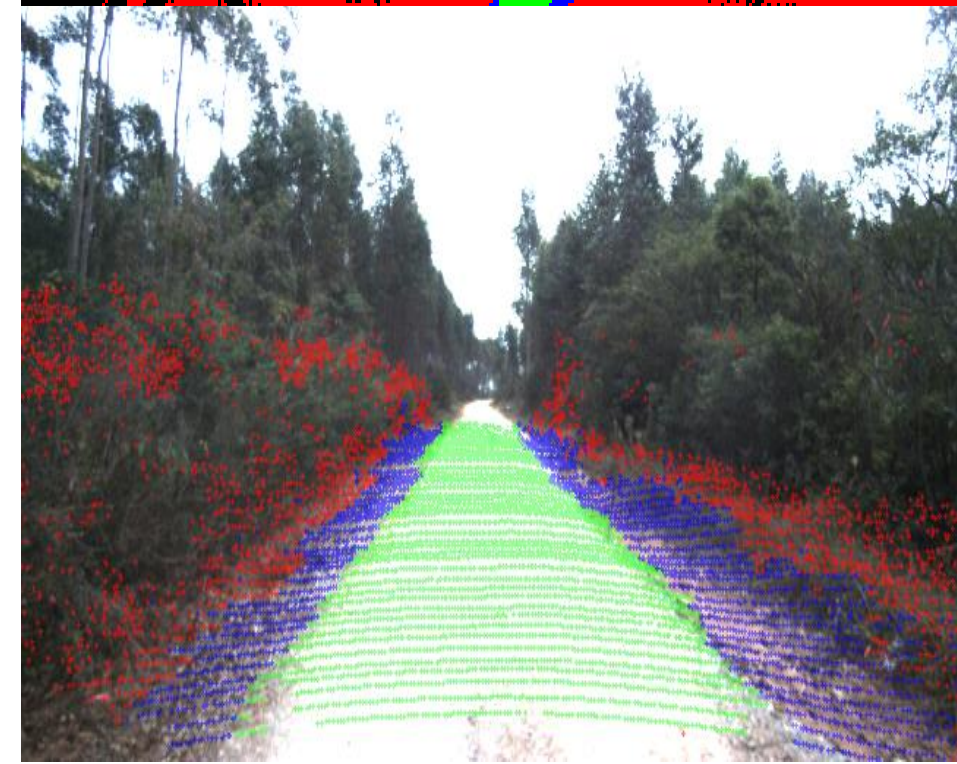
Output



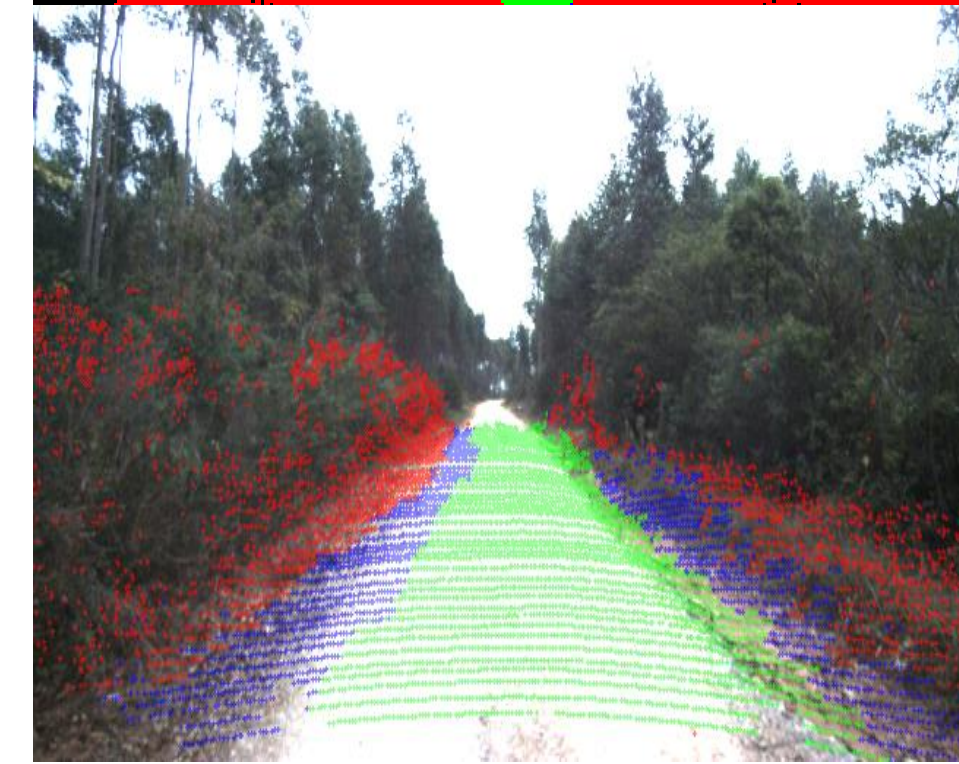
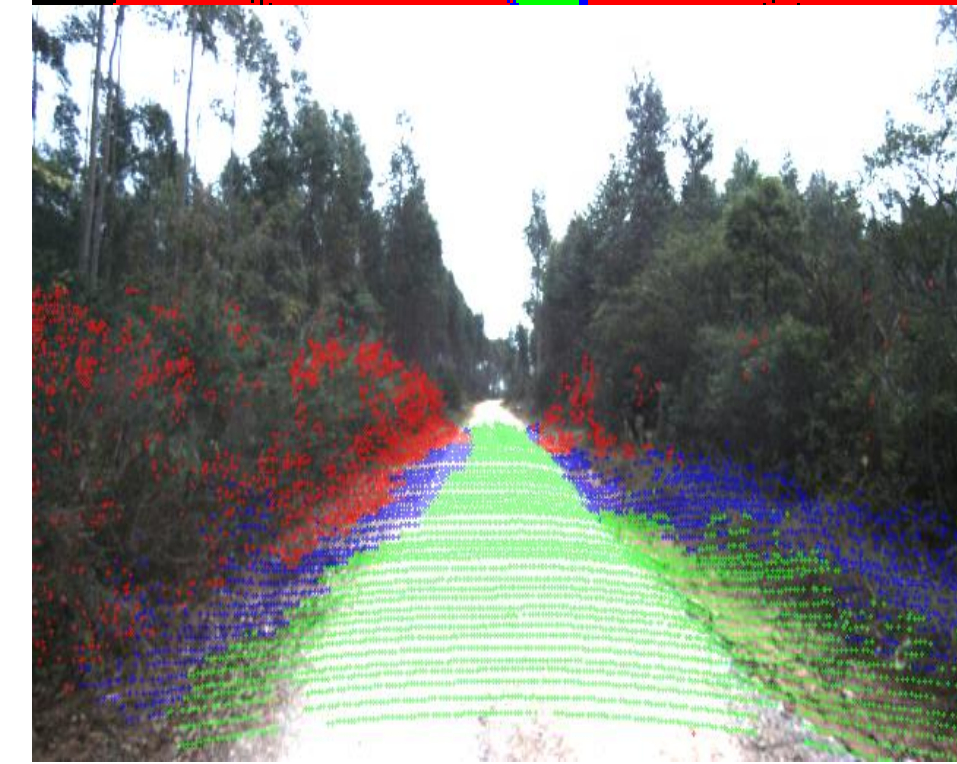
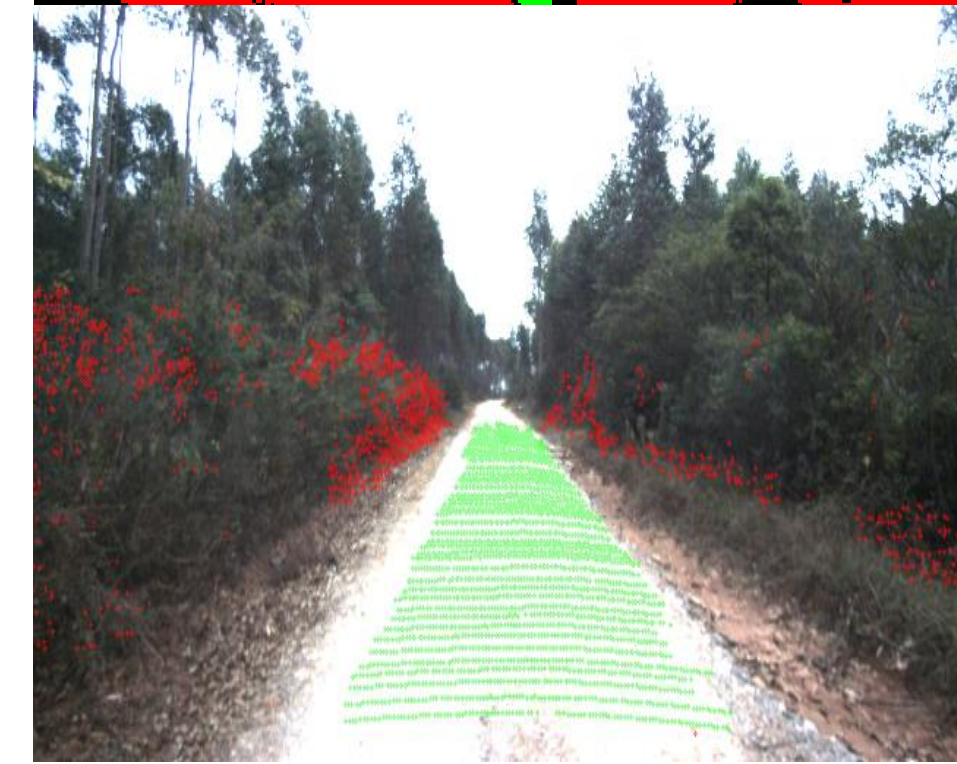
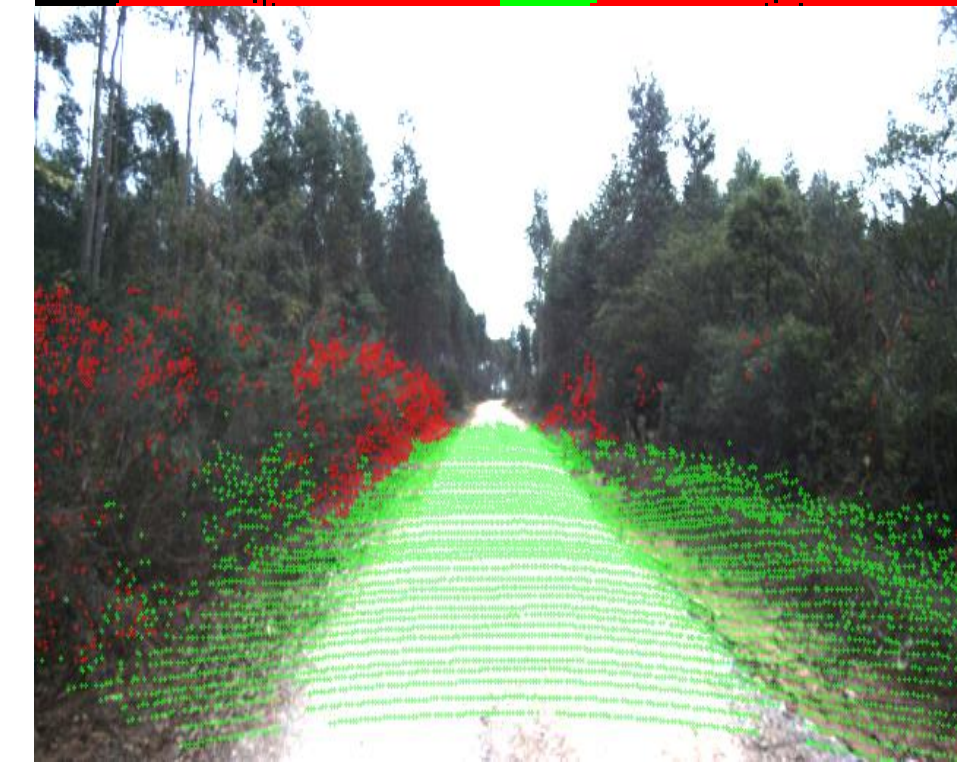
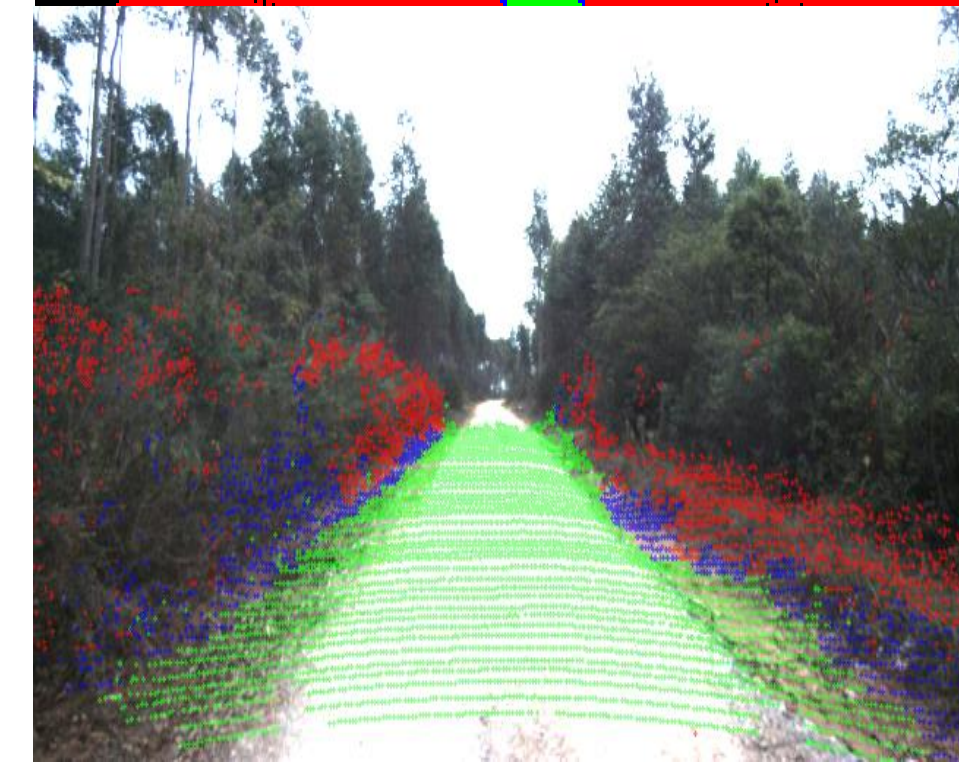
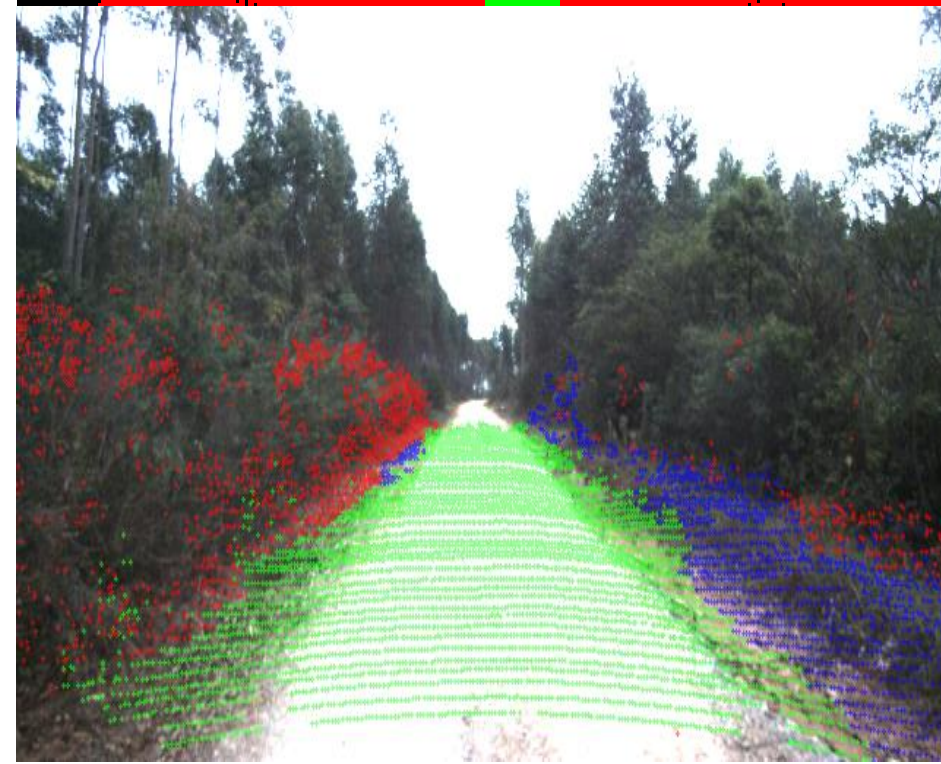
Output



Visualization



Visualization



Ground truth

3-class FCN
(fully-supervised)Ours
(fully-supervised)RG-FCN
(weakly-supervised)Oxford path proposal
(weakly-supervised)Ours
(weakly-supervised)Ours
(semi-supervised)