Table A3: Flow depth and Velocities along the floodplain

Terrain features	DTM Resolution	Manning's Number	Point A		Point B		Point C	
			Depth (m)	Velocity (m/s)	Depth (m)	Velocity (m/s	Depth (m)	Velocity (m/s)
DTM with Smooth	5 x 5m	20	0.86	1.58	0.89	2.19	0.76	1.44
	10x 10m		0.81	1.53	0.75	1.96	0.98	1.27
	15 x 15m		0.75	1.68	0.7	1.65	0.57	1.31
	20 x 20m		0.77	1.46	0.74	1.81	0.55	1.57
	5 x 5m	30	0.75	2.09	0.73	2.88	0.63	1.77
	10x 10m		0.68	1.99	0.66	2.87	0.8	1.63
	15 x 15m		0.62	2.17	0.57	2.26	0.42	1.75
	20 x 20m		0.65	1.84	0.62	2.36	0.42	2.08
DTM with Roads	5 x 5m	20	0.96	1.57	0.81	2.23	0.71	1.29
	10x 10m		0.80	1.32	0.71	2.14	0.94	1.24
	15 x 15m		0.76	1.74	0.63	1.73	0.57	1.32
	20 x 20m		0.86	1.25	0.64	1.87	0.55	1.53
	5 x 5m	30	0.67	1.98	0.73	2.94	0.61	1.67
	10x 10m		0.67	1.76	0.61	2.81	0.77	1.55
	15 x 15m		0.61	2.28	0.52	2.45	0.42	1.73
	20 x 20m		0.70	1.49	0.55	2.50	0.43	2.08
DTM with R&B	5 x 5m	20	0.81	1.52	0.91	1.34	0.66	1.32
	10x 10m		0.84	1.30	0.82	1.21	0.95	1.62
	15 x 15m		0.70	2.07	0.80	0.64	0.59	1.57
	20 x 20m		0.84	0.72	0.89	0.63	0.55	1.63
	5 x 5m	30	0.84	1.60	0.88	1.29	0.64	1.30
	10x 10m		0.80	1.58	0.69	2.61	0.81	1.97
	15 x 15m		0.85	1.77	0.64	0.68	0.51	1.99
	20 x 20m		0.73	1.24	0.73	0.58	0.47	2.28

Appendix B- MIKE 21 result maps

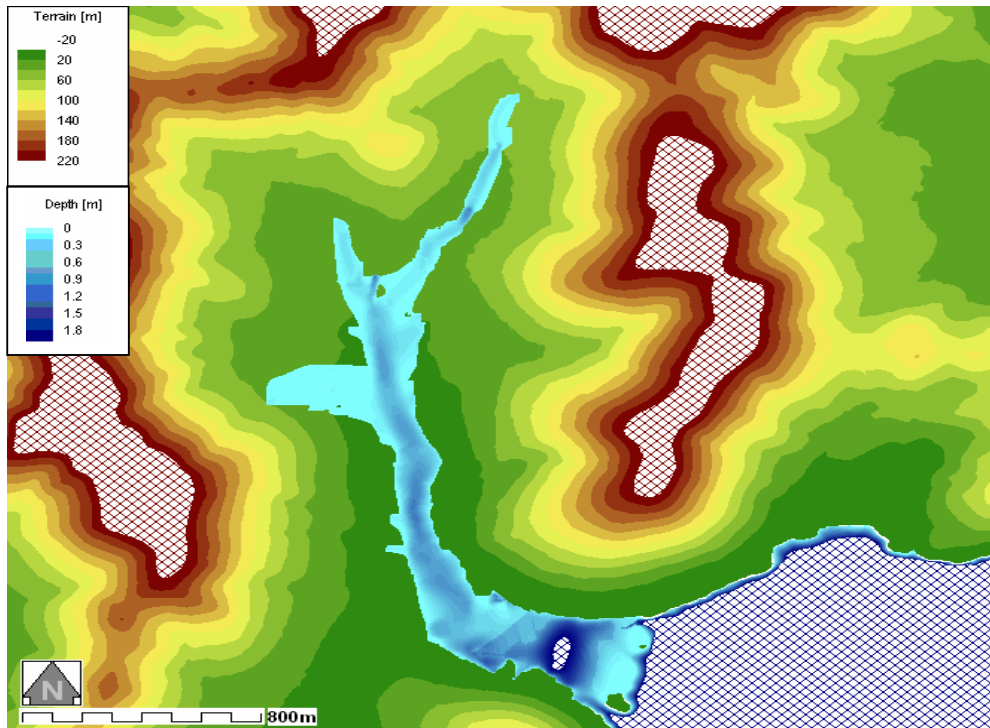**Figures B1:** MIKE 21 results water depth maps on topography

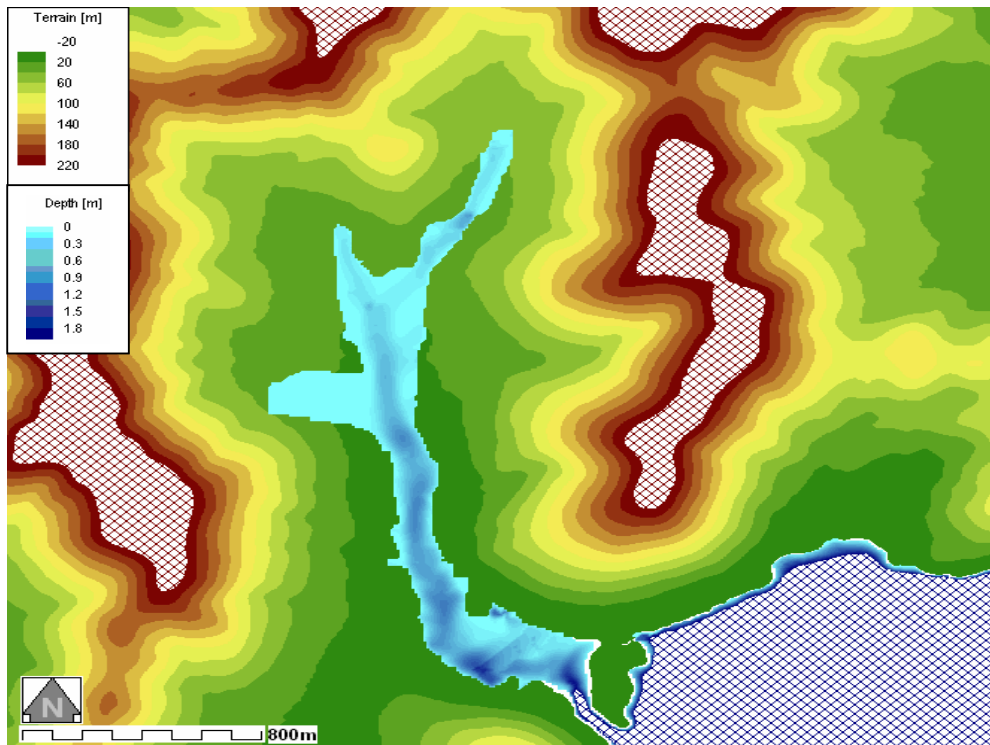Figure 1: Water depth-Smooth DTM5_M20 in Terrain amp

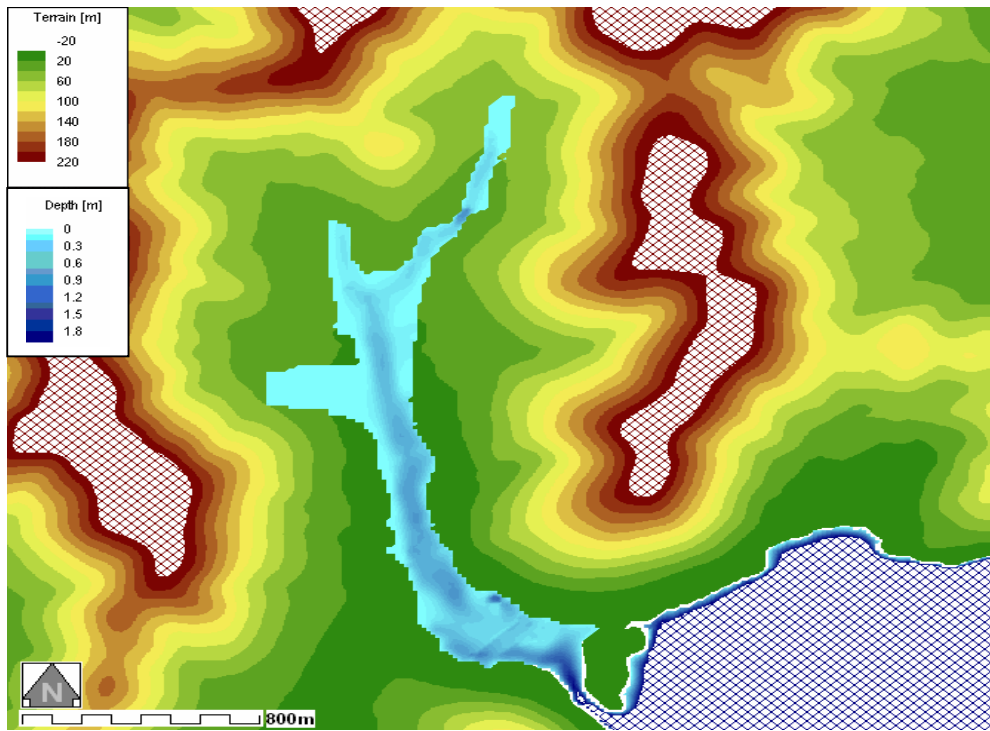Figure 2: Water depth-Smooth DTM10_M20 in Terrain map

Figure 3: Water depth-Smooth DTM15_M20 in Terrain map
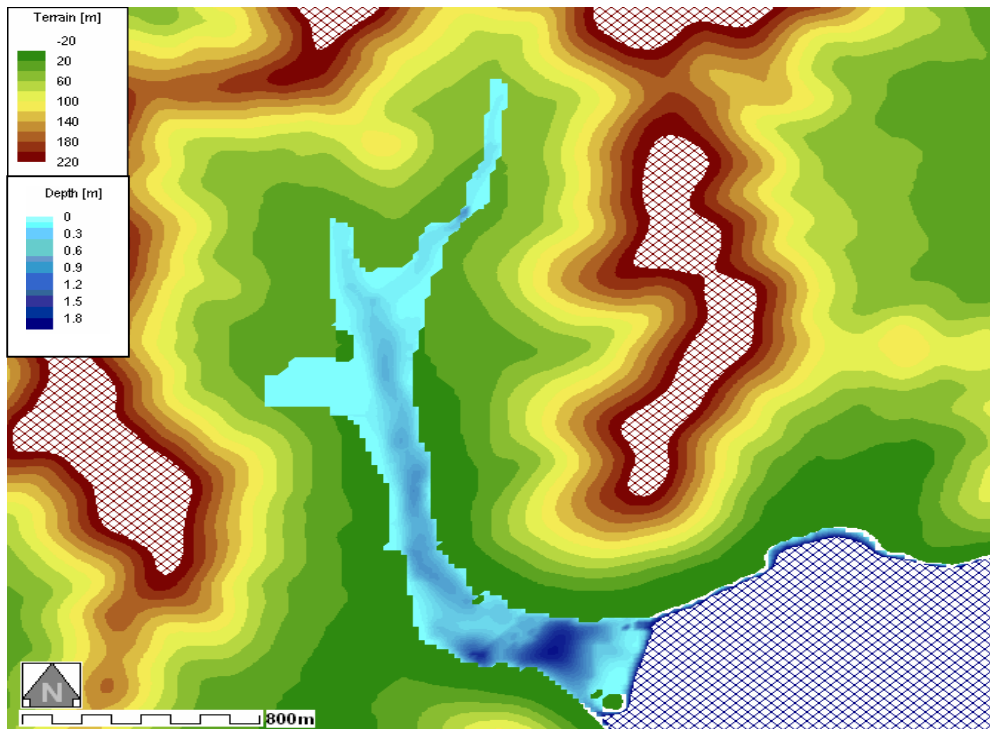

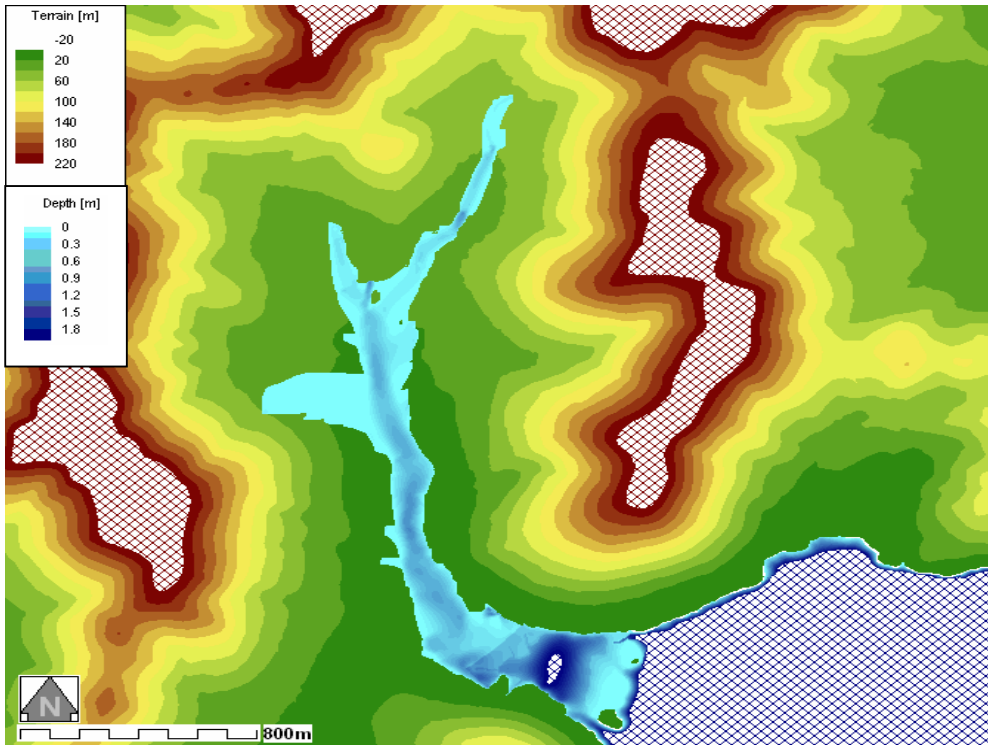Figure 4: Water depth-Smooth DTM20_M20 in Terrain map

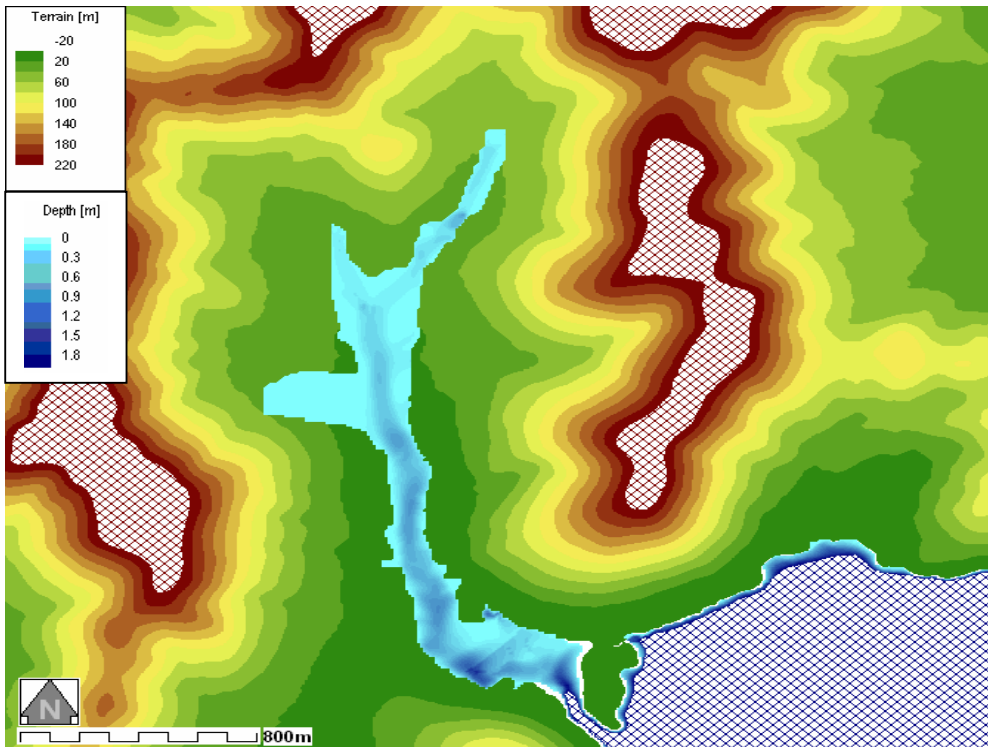Figure 5: Water depth-Smooth DTM5_M30 in Terrain map

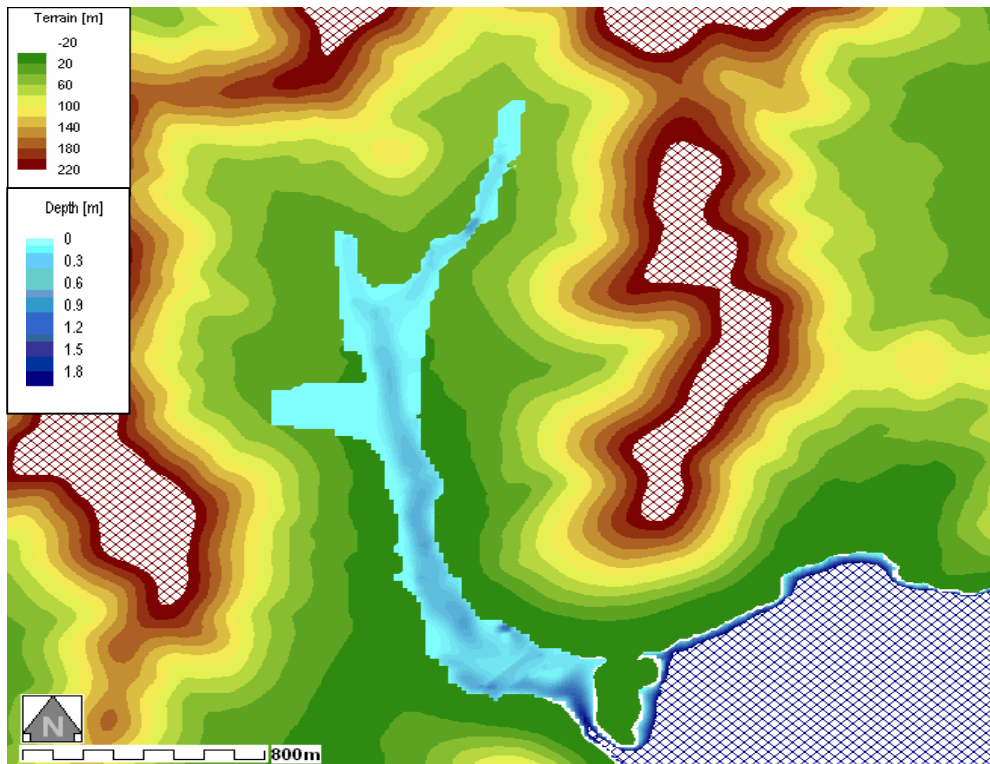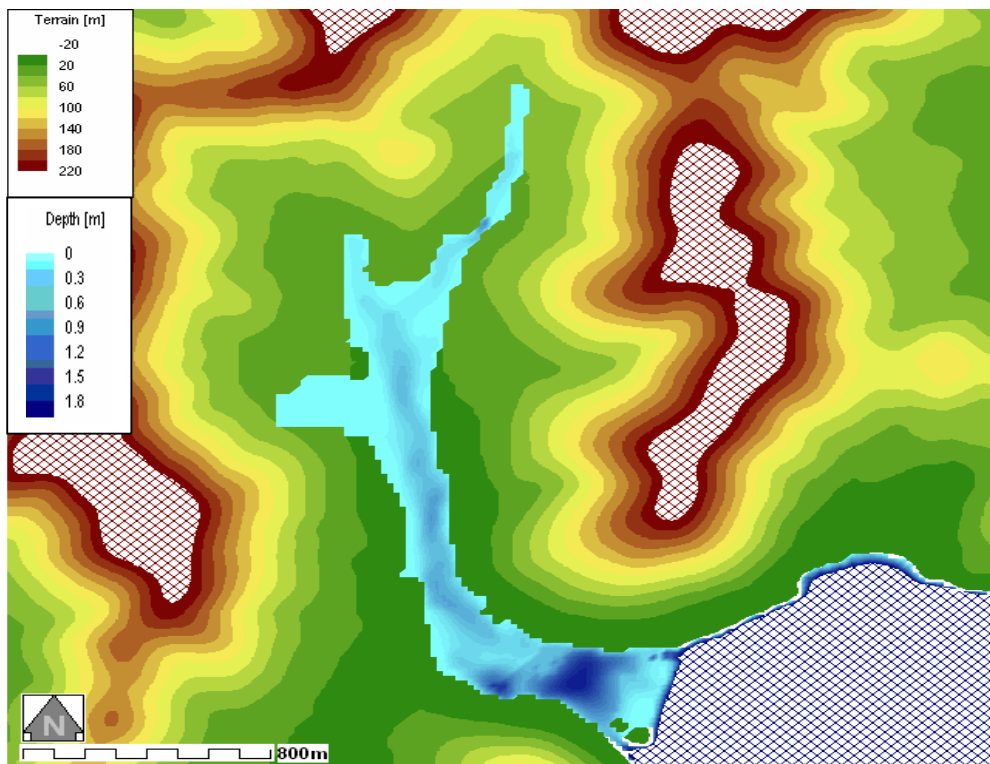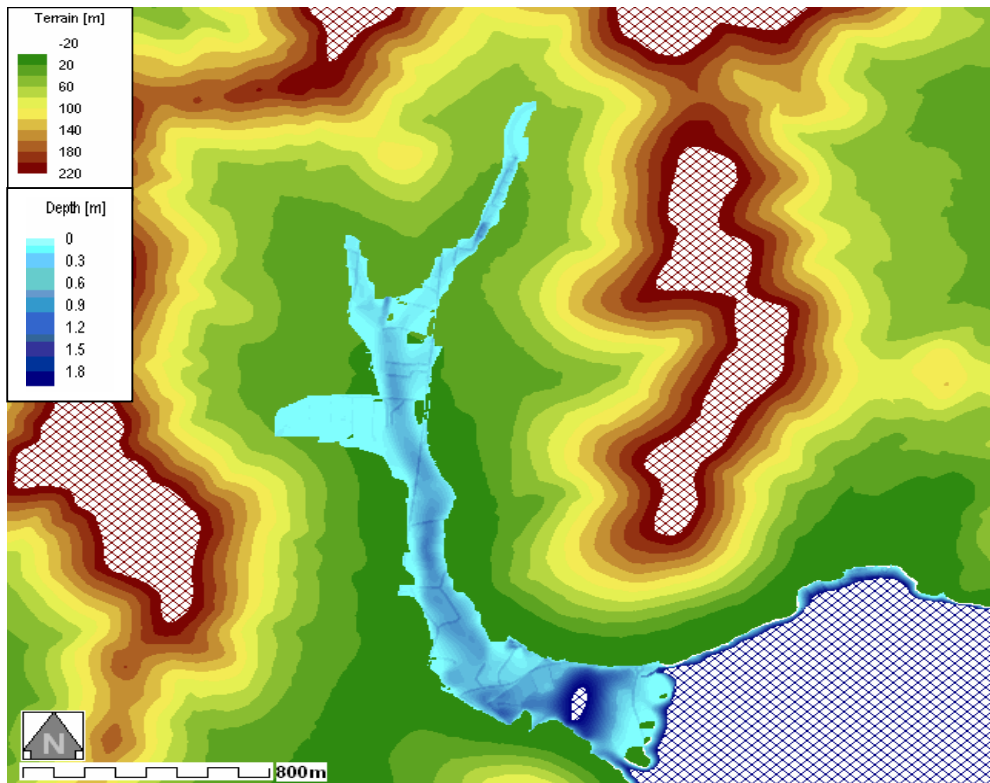Figure 6: Water depth-Smooth DTM10_M30 in Terrain map

Figure 7: Water depth-Smooth DTM15_M30 in Terrain map

Figure 8: Water depth-Smooth DTM20_M30 in Terrain map

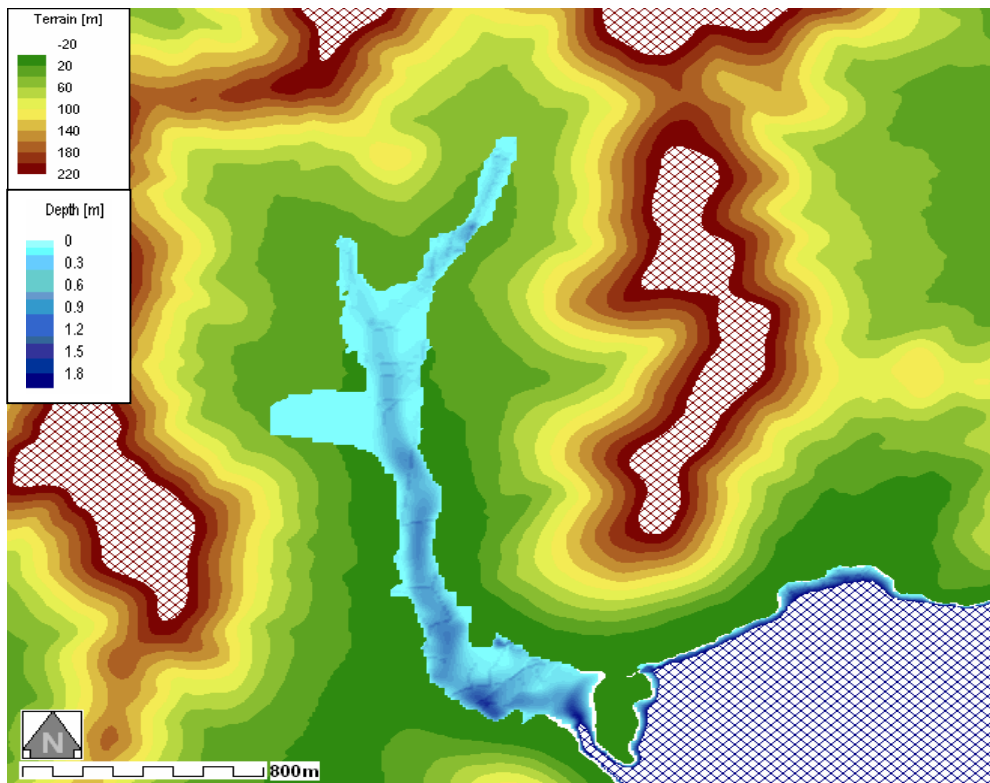Figure 9: Water depth-Smooth with Roads_DTM5_M20 in Terrain map

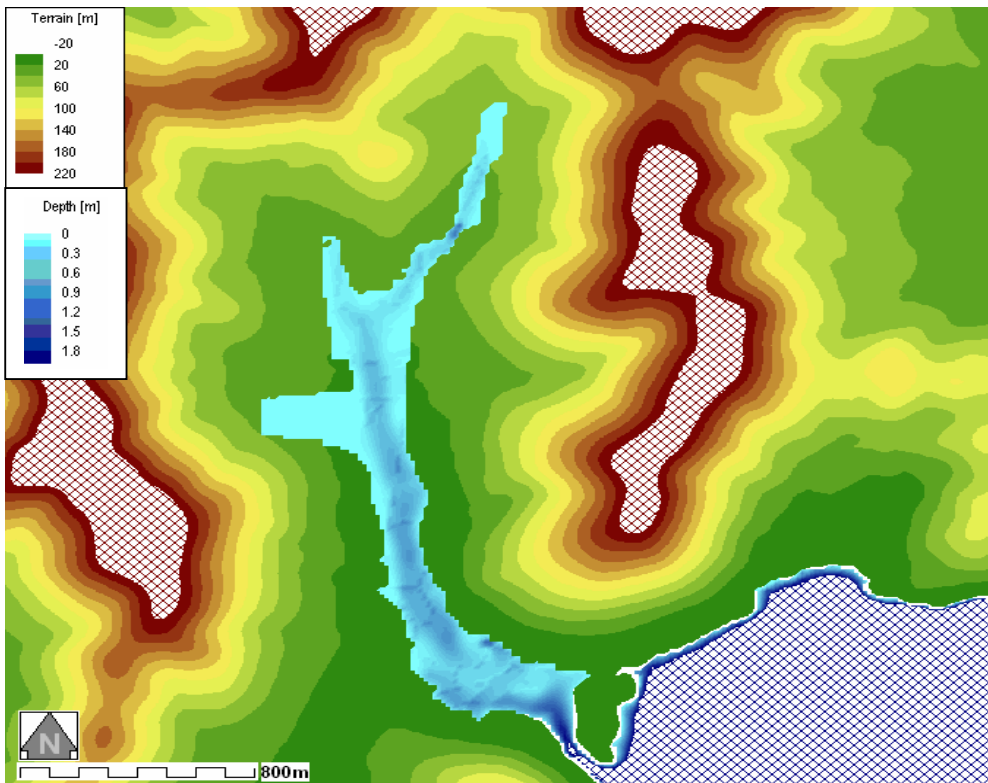Figure 10: Water depth-Smooth with Roads_DTM10_M20 in Terrain map

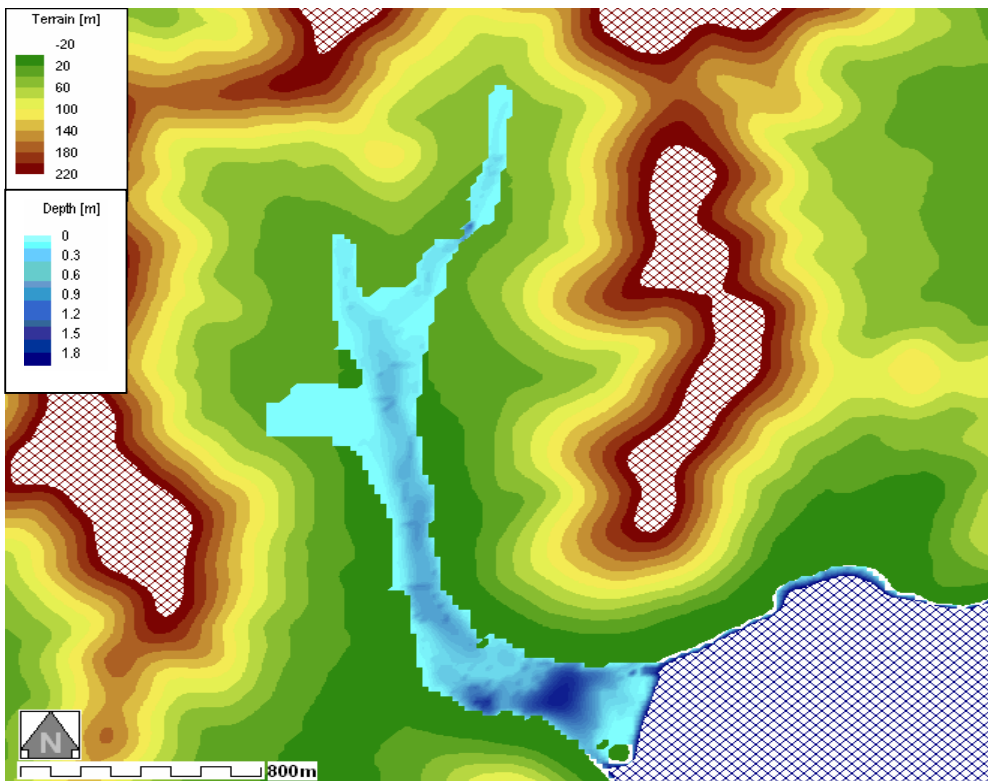Figure 11: Water depth-Smooth with Roads_DTM15_M20 in Terrain map

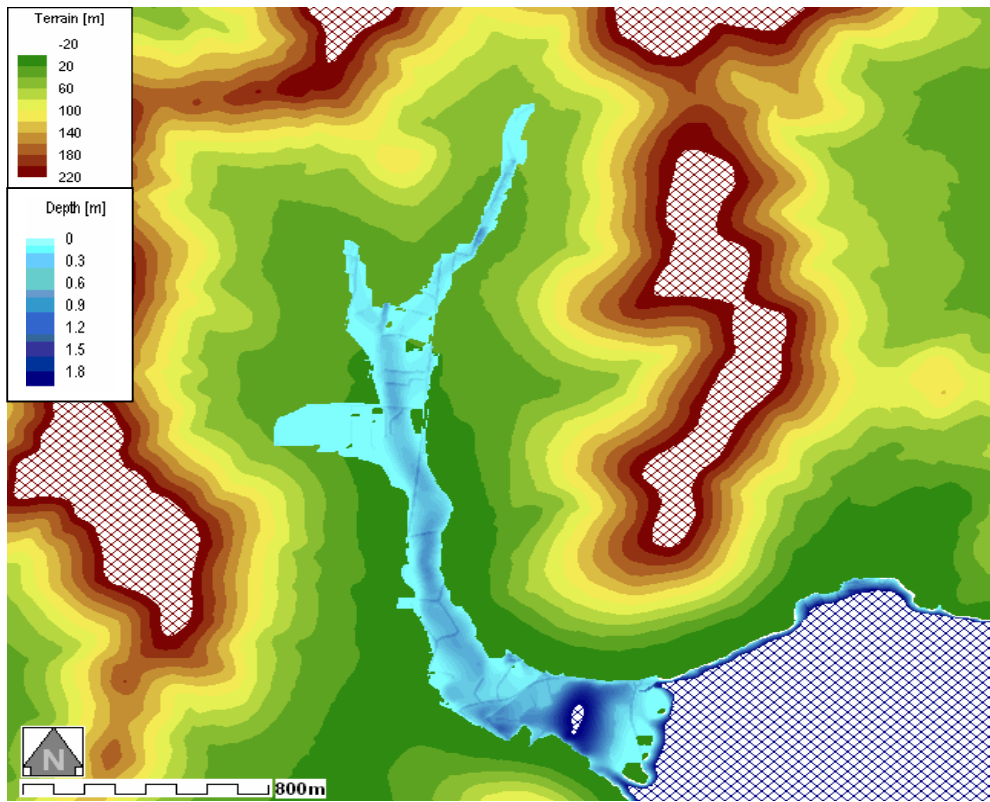Figure 12: Water depth-Smooth with Roads_DTM20_M20 in Terrain map

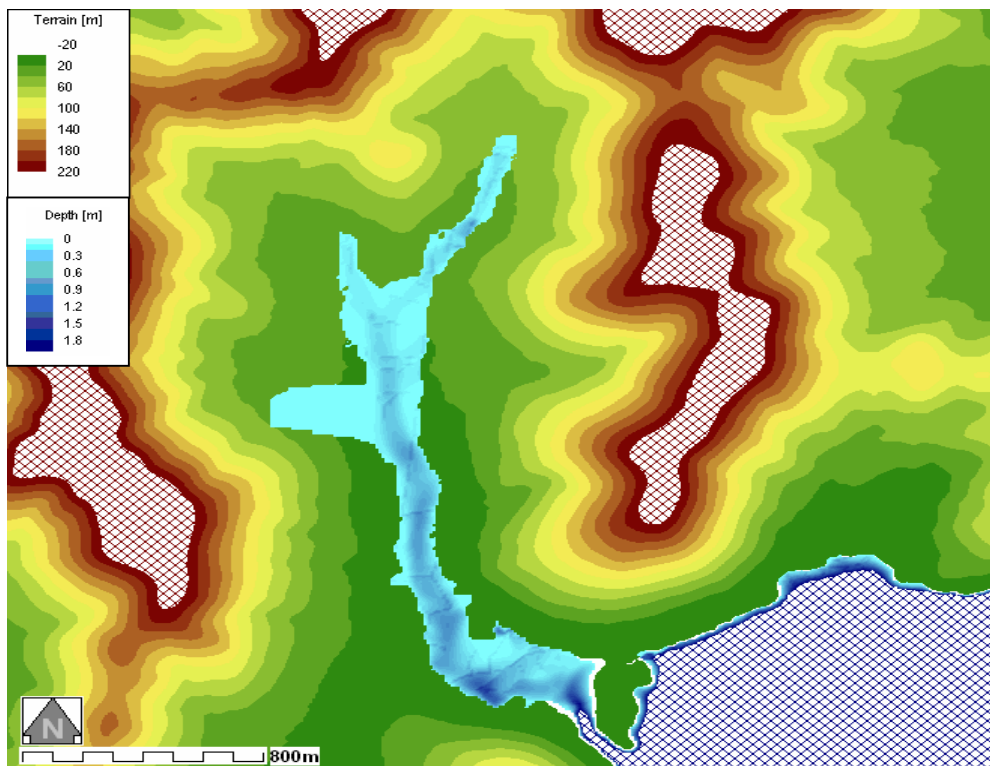Figure 13: Water depth-Smooth with Roads_DTM5_M30 in Terrain map

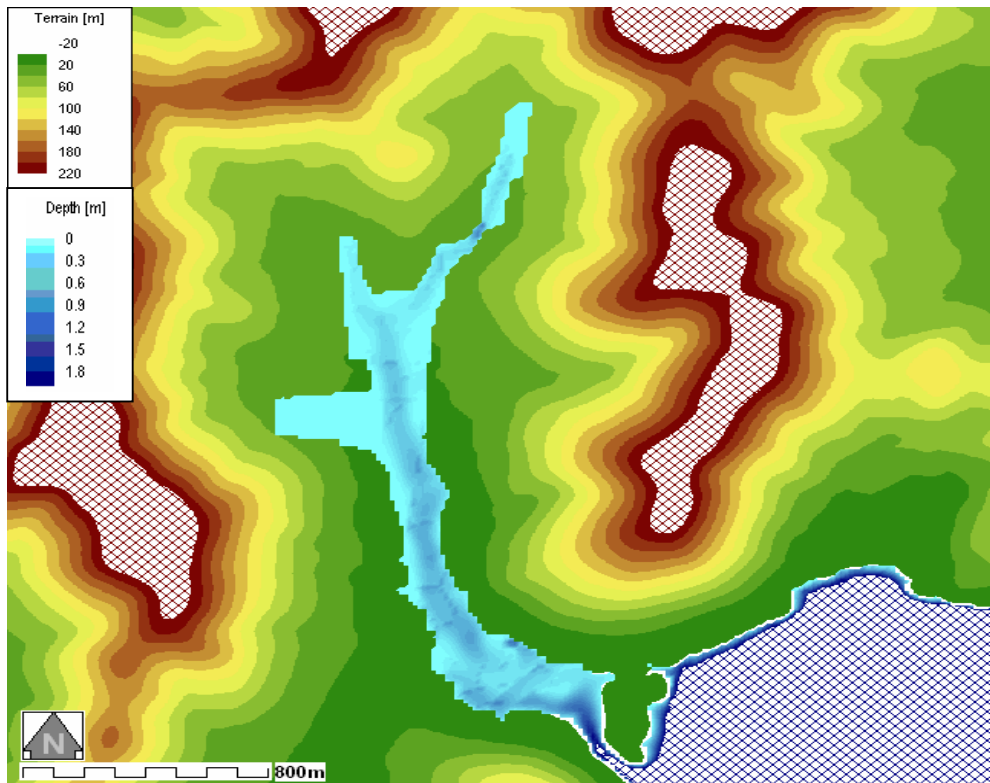Figure 14: Water depth-Smooth with Roads_DTM10_M30 in Terrain map

Figure 15: Water depth-Smooth with Roads_DTM15_M30 in Terrain map
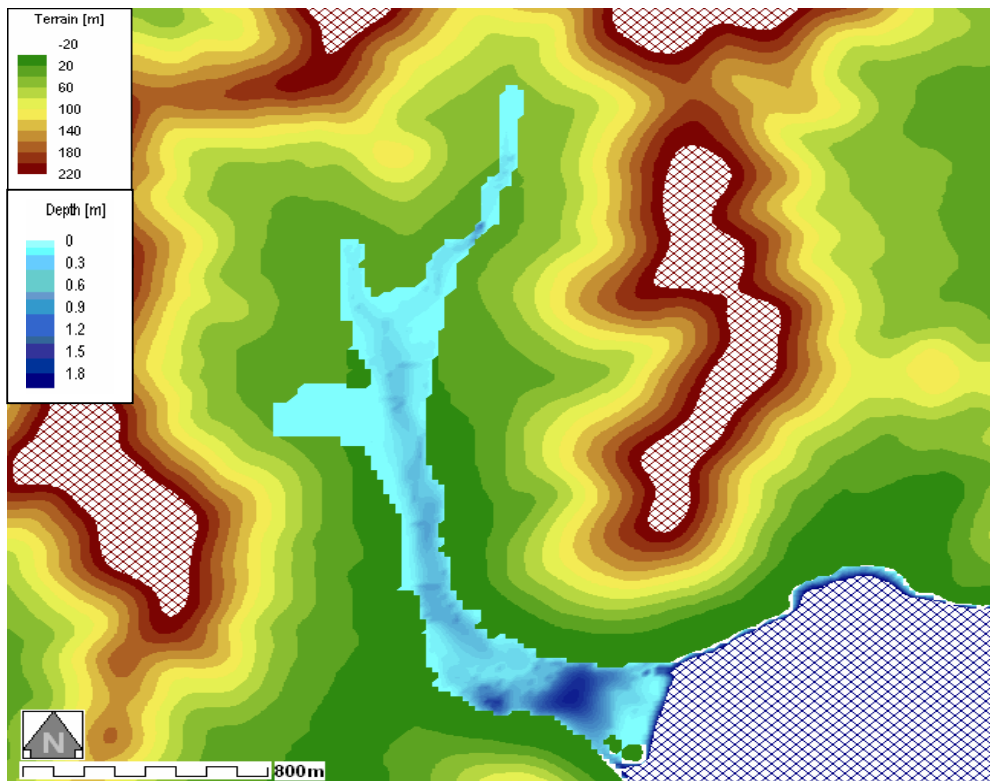

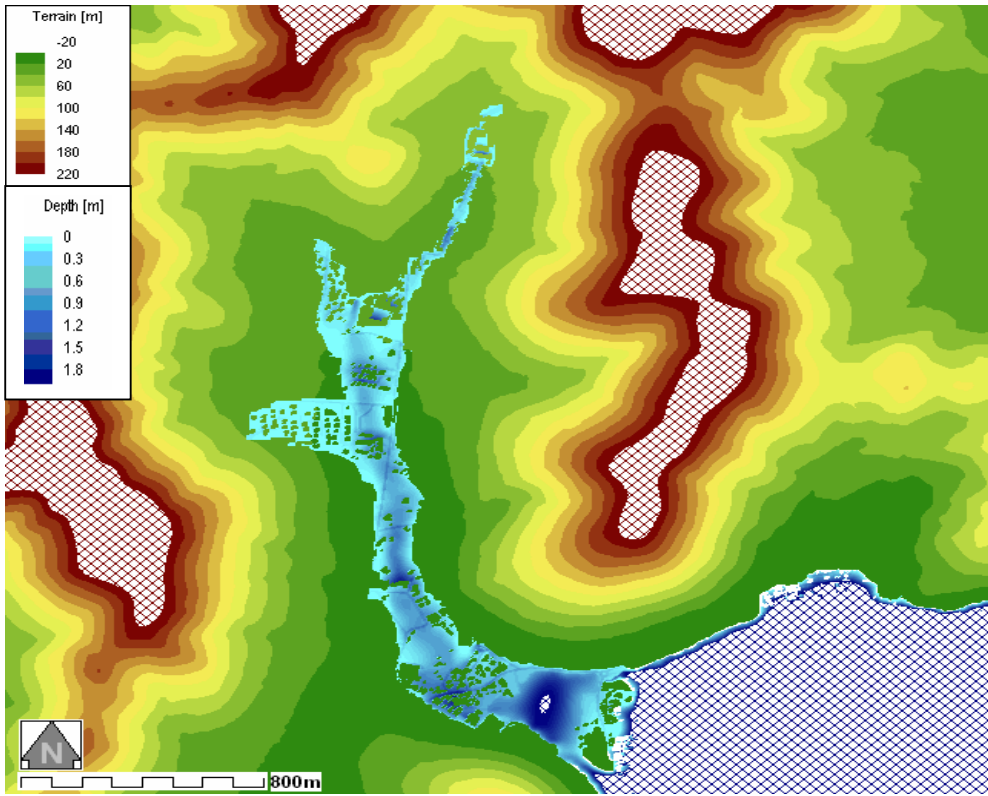Figure 16: Water depth-Smooth with Roads_DTM20_M30 in Terrain map

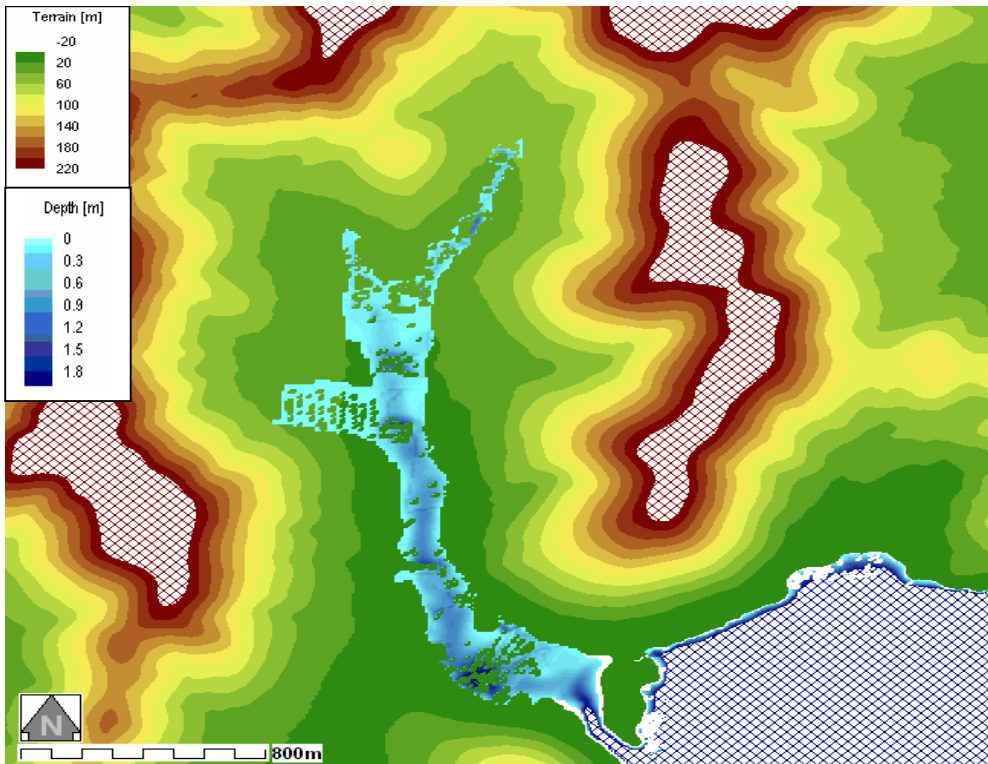Figure 17: Water depth-Smooth with Roads and Buildings_DTM5_M20 in Terrain map

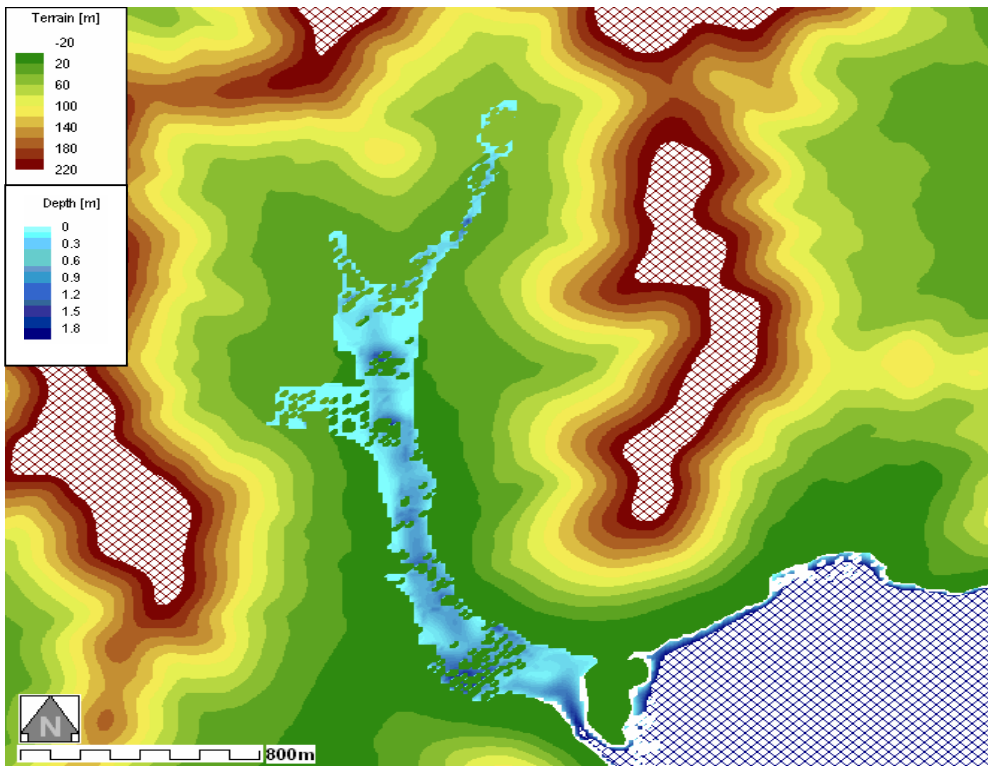Figure 18: Water depth-Smooth with Roads and Buildings_DTM10_M20 in Terrain map

Figure 19: Water depth-Smooth with Roads and Buildings_DTM15_M20 in Terrain map
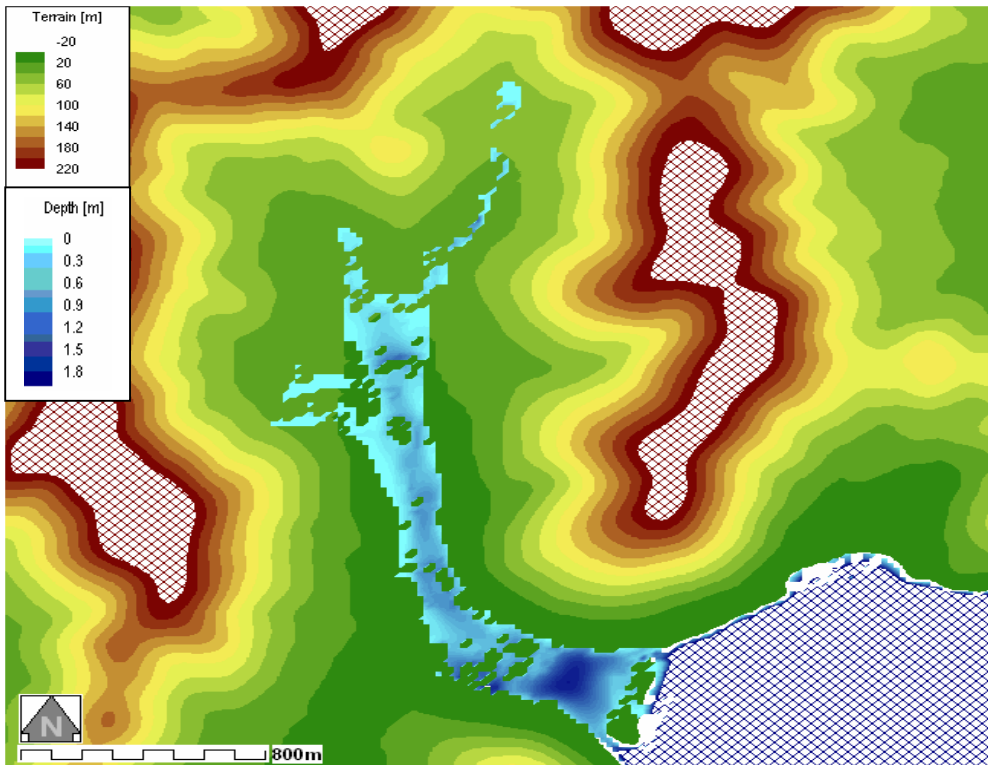

Figure 20: Water depth-Smooth with Roads and Buildings_DTM20_M20 in Terrain map
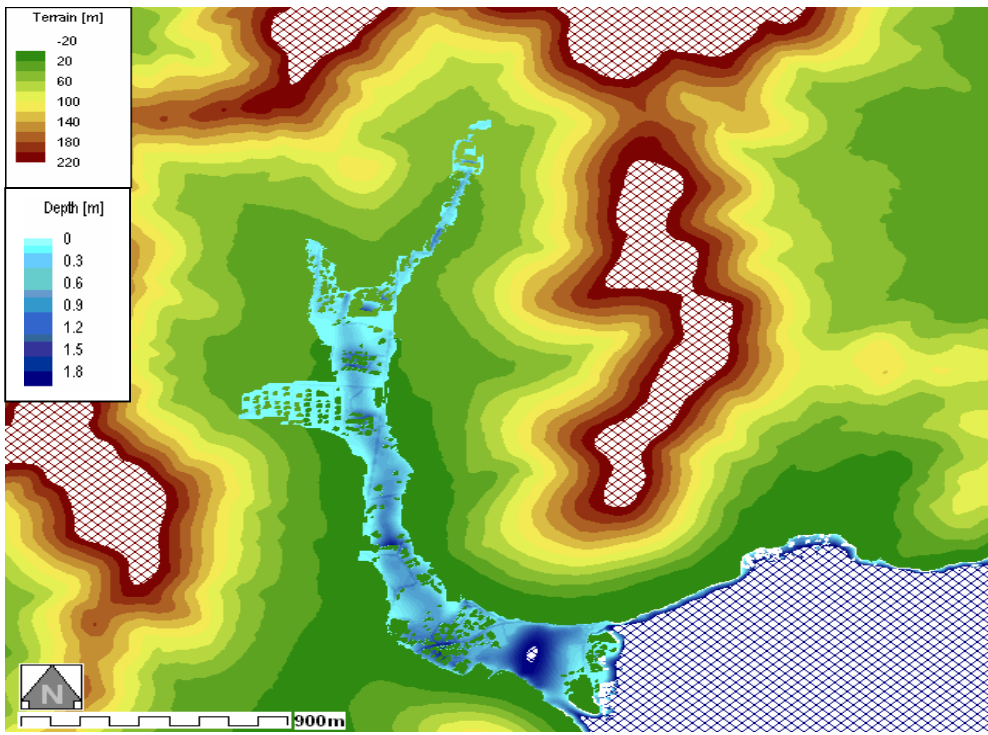
Figure 21: Water depth-Smooth with Roads and Buildings_DTM5_M30 in Terrain map
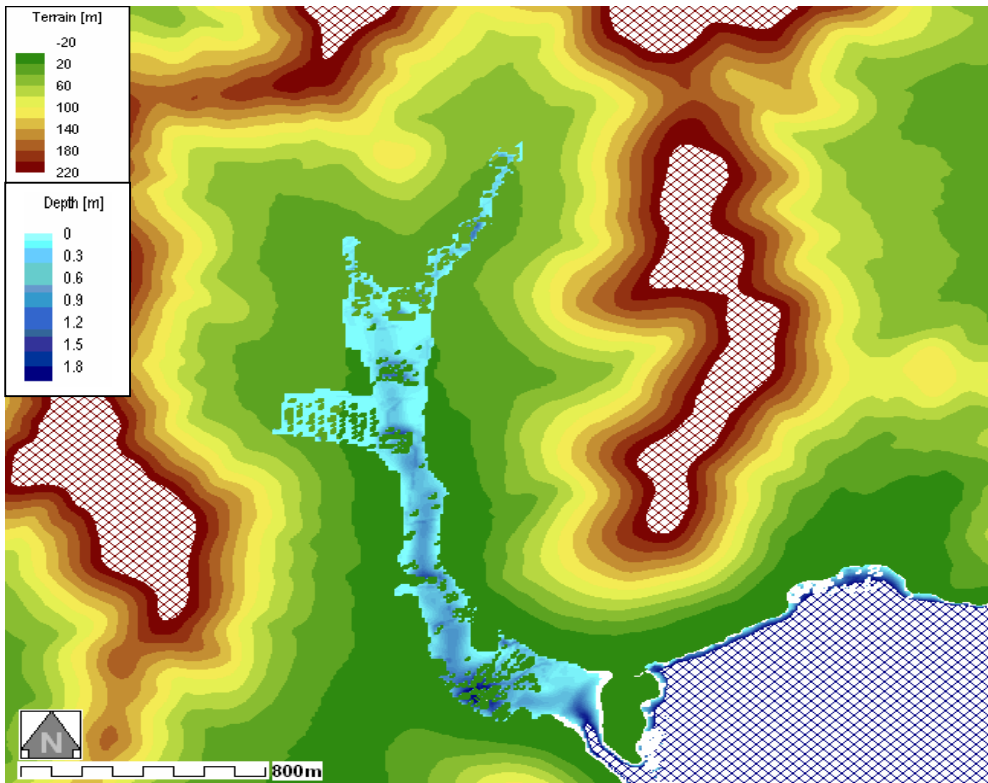

Figure 22: Water depth-Smooth with Roads and Buildings_DTM10_M30 in Terrain map
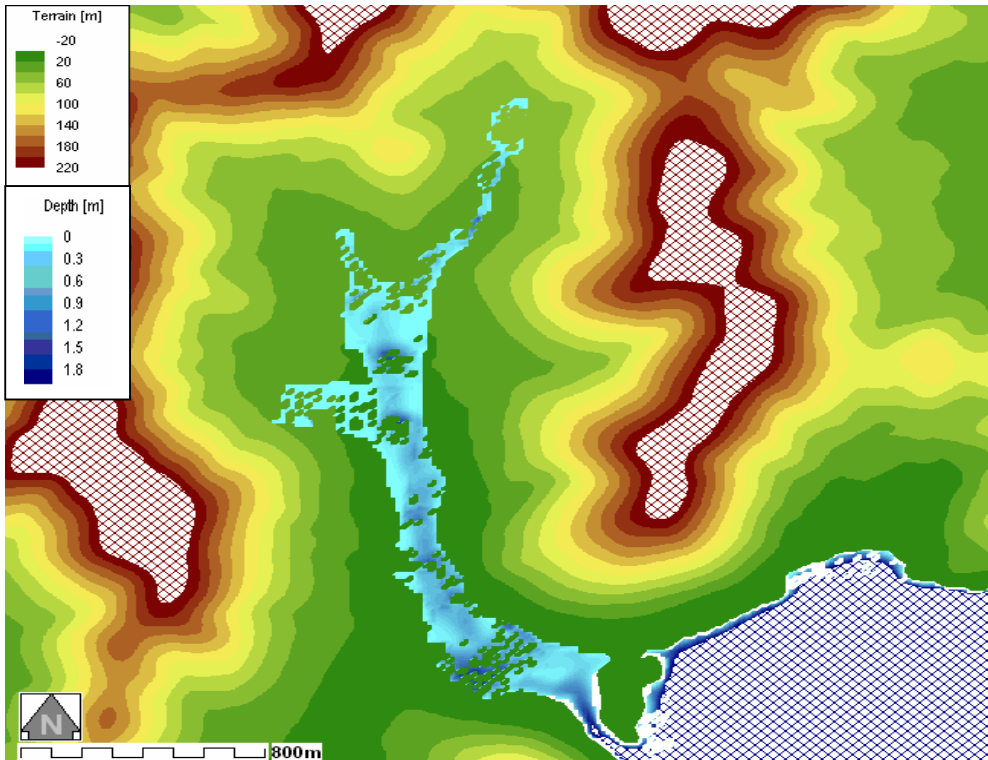
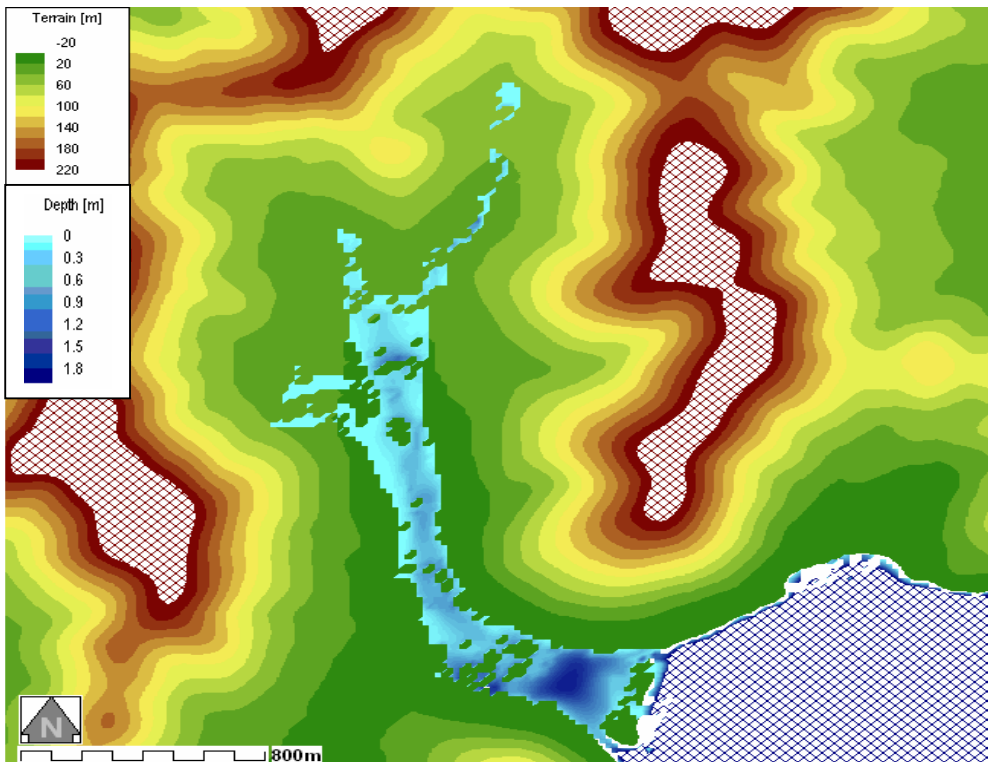Figure 23: Water depth-Smooth with Roads and Buildings_DTM15_M30 in Terrain map

Figure 24: Water depth-Smooth with Roads and Buildings_DTM20_M30 in Terrain map

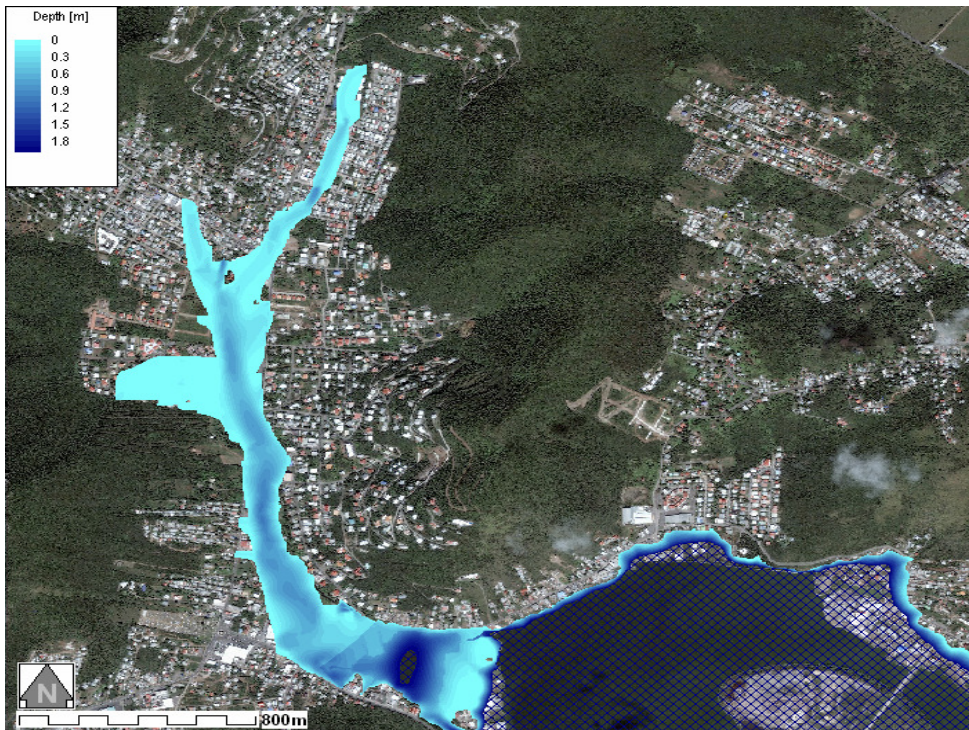**Figures B2:** MIKE 21 results water depth maps on aerial photography

Figure 1: Water depth-Smooth DTM5_M20 Aerial Photo

Figure 2: Water depth-Smooth DTM10_M20 Aerial Photo

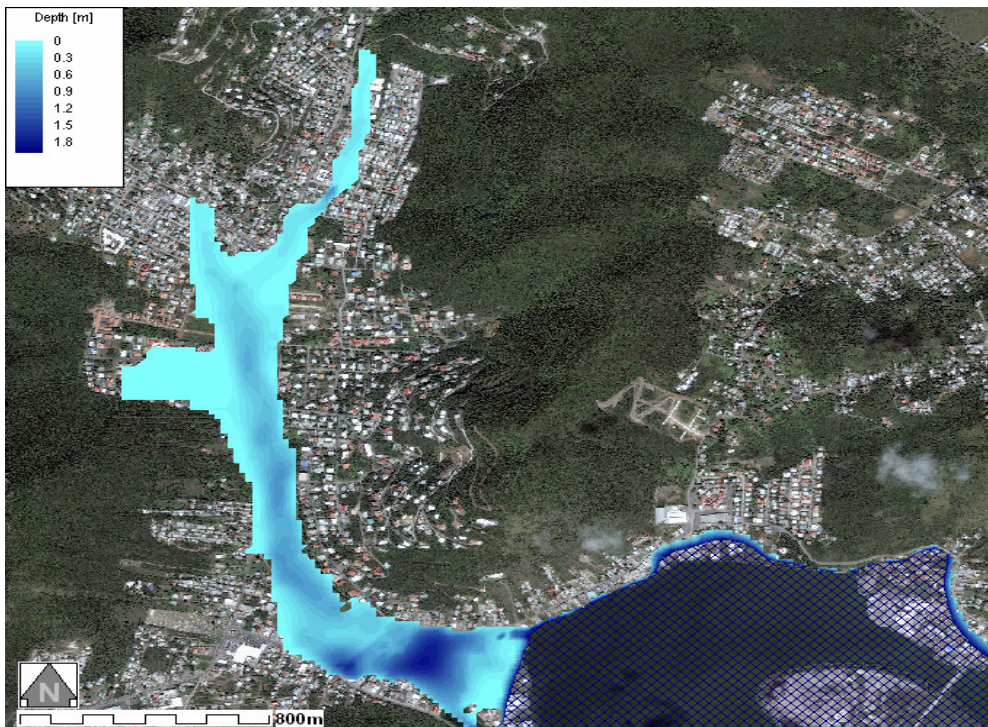Figure 3: Water depth-Smooth DTM15_M20 Aerial Photo

Figure 4: Water depth-Smooth DTM20_M20 Aerial Photo

Figure 5: Water depth-Smooth DTM5_M30 Aerial Photo

Figure 6: Water depth-Smooth DTM10_M30 Aerial Photo

Figure 7: Water depth-Smooth DTM15_M30 Aerial Photo

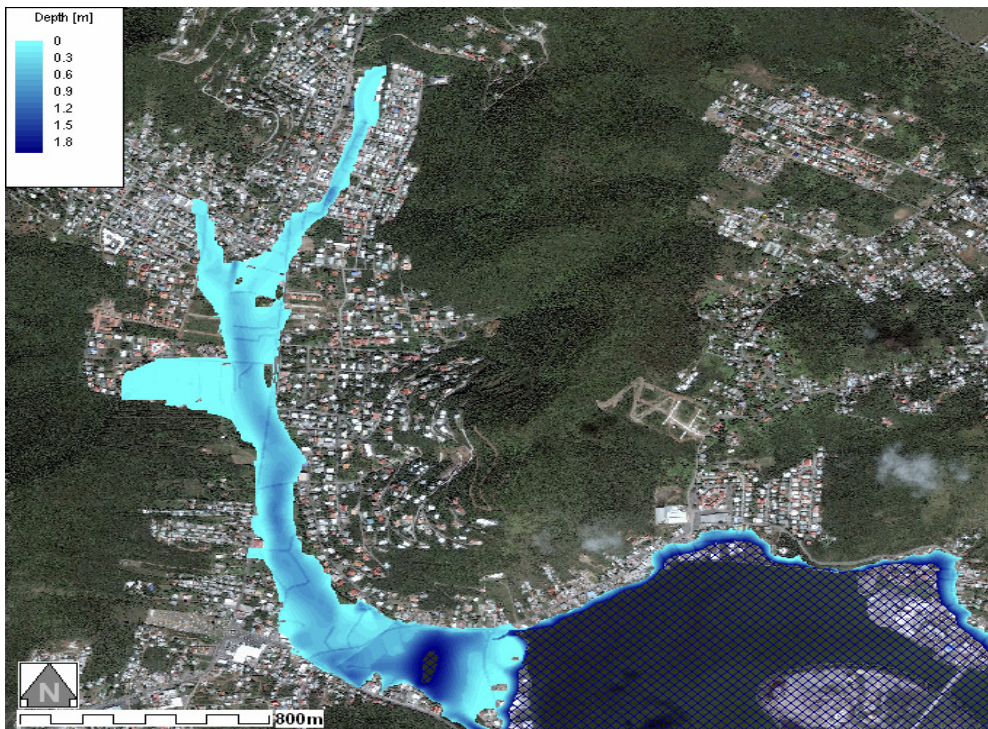Figure 8: Water depth-Smooth DTM20_M30 Aerial Photo

Figure 9: Water depth-Smooth with Roads DTM5_M20 Aerial Photo

Figure 10: Water depth-Smooth with Roads DTM10_M20 Aerial Photo

Figure 11: Water depth-Smooth with Roads DTM15_M20 Aerial Photo

Figure 12: Water depth-Smooth with Roads DTM20_M20 Aerial Photo