



Fig. 3. NOAA 2010 LiDAR of Grand (Big) Traverse Bay, color-coded by elevation and water depth, with additional 5-m horizontal red lines. Image shows erosion of original Gay tailings pile, migration of underwater stamp sand bars across Jacobsville Sandstone bedrock and deposition into an ancient river cut (#5 mounding in the “trough”; #1 lower reach cut through bedrock). Stamp sand from “trough” is moving into northern cobble fields of Buffalo Reef (#3,#4) and into a canyon cut (#2). Stamp sand is also found west of promontory and east and south of Traverse River Seawall. Natural sand moves from lower white sand beach out into Keweenaw Bay.