



Figure 2.1. Schematic showing the operation of a multibeam sea floor mapping system. In water depths ranging between 5 and 200 m, the EM1000 mapping system generates an aimed array of 60 beams, spaced at intervals of 2.5 degrees, that insonify a strip of sea floor measuring in width approximately 7.5 times the water depth. In the Massachusetts Bay survey, the horizontal spatial resolution of the data is 5-10 m and the vertical resolution is approximately 50 cm.