



Fig. 42. Effects of rolling and acceleration when pitching and heaving, on crew capability. A body on the earth's surface is pressed towards the centre of the earth by the pull of gravity force (force = mass \times gravity acceleration (g); $g = 32.2 \text{ ft/sec}^2 = 9.8 \text{ m/sec}^2$). It has been established that the maximum acceleration for fishing vessels in waves is in the neighbourhood of one g below or above the acceleration due to gravity g . This acceleration is thus about ten times larger than the value of g at which seasickness occurs (graph B). This gives some idea of the stresses to which fishermen (and yacht crews) are exposed in the pursuit of their occupation. It has been frequently observed that it is not the boat which wins races; it is the people who sail her. If boat motion becomes unbearable, the crew won't sail her to best advantage; they won't win races and, when the worst comes to the worst, the chances of survival can be seriously impaired. Habitability is more than the available space below deck.