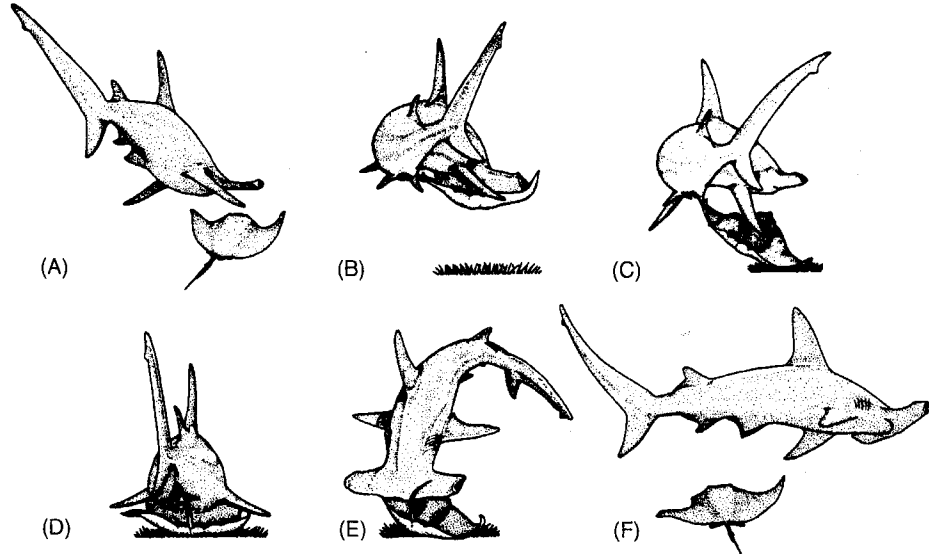
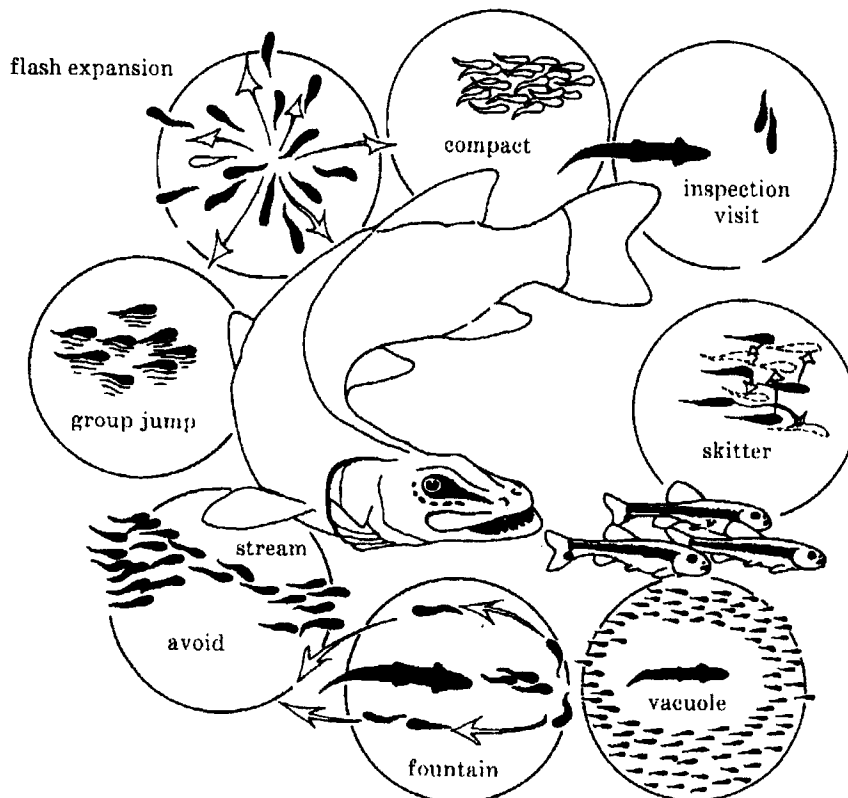


**FIGURE 18.4.** Use of the hammer during feeding by a great hammerhead shark. A 3-m-long hammerhead captured and consumed a 1-m-wide southern stingray by knocking it to the bottom with its hammer and then using the hammer to hold the ray against the bottom while the shark pivoted around and fed on the front margins of the pectoral fins. (A) Shark chases the ray. (B) Shark strikes downward across the back of the ray with the flat underside of its hammer. (C) Ray bounces off the bottom from the force of the blow while the shark brakes with its pectoral fins. (D) Shark delivers a second downward blow across the back of the ray. (E) Shark pivots while holding the ray against the bottom and takes a bite from the front of the ray's left pectoral fin. (F) Injured ray attempts to swim off, followed by the shark.



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**FIGURE 19.7.** The graded responses of minnows under attack. Responses increase in intensity as the predator's actions become more threatening. The hierarchy of responses begins at the top (compact) and proceeds clockwise to flash expansion.



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