

Essential Fish Habitat Descriptions

Deep-Sea Red Crab (*Chaceon quinquedens*)

Eggs: Red crab eggs are brooded attached to the underside of the female crab until they hatch into larvae and are released into the water column. Egg-bearing females are most commonly found on the shallow continental slope between 200 and 400 meters, where temperatures are typically between 4 - 10° C. The EFH designation for red crab eggs will be the same as the known distribution of egg-bearing females (200 - 400 meters) along the southern flank of Georges Bank and south to Cape Hatteras, North Carolina, as depicted in Map 27.

Larvae: Essential fish habitat for red crab larvae is described as the water column from the surface to the seafloor across the entire depth range identified for the species, 200 - 1800 meters along the southern flank of Georges Bank and south to Cape Hatteras, North Carolina, as depicted in Map 27. Generally, the following conditions exist where red crab larvae are most commonly observed: water temperatures between 4 and 25° C, salinities between 29 and 36‰, and dissolved oxygen between 5 and 8 ml/l. Red crab larvae appear to be most common during January through June.

Juveniles: Bottom habitats of the continental slope with a substrate of silts, clays, and all silt-clay-sand composites within the depths of 700 to 1800 meters along the southern flank of Georges Bank and south to Cape Hatteras, North Carolina, as depicted in Map 27. Generally, the following conditions exist where red crab juveniles are most commonly observed: water temperatures between 4 and 10° C, salinities of approximately 35‰, and dissolved oxygen between 3 and 7 ml/l.

Adults: Bottom habitats of the continental slope with a substrate of silts, clays, and all silt-clay-sand composites within the depths of 200 to 1300 meters along the southern flank of Georges Bank and south to Cape Hatteras, North Carolina, as depicted in Map 27. Generally, the following conditions exist where red crab adults are most commonly observed: water temperatures between 5 and 14° C, salinities of approximately 35‰, and dissolved oxygen between 3 and 8 ml/l.

Spawning Adults: Bottom habitats of the continental slope with a substrate of silts, clays, and all silt-clay-sand composites within the depths of 200 to 1300 meters along the southern flank of Georges Bank and south to Cape Hatteras, North Carolina, as depicted in Map 27. Generally, the following conditions exist where red crab adults are most commonly observed: water temperatures between 4 and 12° C, salinities of approximately 35‰, and dissolved oxygen between 3 and 8 ml/l.

Map 1 –EFH designations for deep-sea red crab

