Red Snapper (Lutjanus campechanus) life history for the Gulf of Mexico. Associations and interactions with environmental and habitat variables are listed with citations as footnotes.

Life stage	Eco-region	Habitat Zone	Habitat Type	Season	Temp (°C)	Depth (m)	Prey	Predators	Mortality	Growth
eggs <sub>1</sub> , <sub>2</sub> , <sub>6</sub> , <sub>17</sub> , <sub>27</sub>	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Apr- Oct	` '	18-126				50% hatch in 20-27 hrs
larvae <sub>5</sub> , <sub>13</sub> ,	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Jul-Nov	17.3-29.7	18-126	alga, rotifers (in lab)			PLD = 28 d
postlarvae <sub>5</sub> ,	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	WCA	Jul-Nov	17.3-29.7	18-126				settle at 16-19 mm TL; PLD = 28d
early juveniles <sub>2</sub> , <sub>5</sub> , 8, 16, 20, 21, 24	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals, soft bottom, sand/shell	Jul-Nov	17.3-29.7	17-183	zooplankton, shrimp, chaetognaths, squid, copepods		shrimp trawl bycatch; M (age 0) = 2.0/yr	0.817- 1.01 mm/d
late juveniles <sub>2</sub> , 3, 8, 10, 12, 16, 17, 20, 21, 24, 26	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals, soft bottom, sand/shell	year- round	20-28	18-55	fish, squid, crabs, shrimp		shrimp trawl bycatch; M (age 1) = 1.2/yr	0.817- 1.01 mm/d
adults <sub>2</sub> , <sub>3</sub> , <sub>4</sub> , 7, 9, 10, 11, 12, 14, 15, 17, 18, 24	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	reefs, hard bottom, banks/shoals	year- round	14-30	7-146	fish, shrimp, squid, octopus, crabs	sharks	enter fishery at age 2; M = 0.094/yr	$L_{inf} =$ 856.4 mm $TL, K =$ 0.19, $t_0 =$ -0.39, max. age = 48 yrs
spawning adults <sub>1</sub> , <sub>2</sub> , <sub>6</sub> , <sub>19</sub> , <sub>25</sub>	ER-1, ER-2, ER-3, ER-4, ER-5	offshore	sand/shell, banks/shoals	Apr- Oct	16-29	18-126				50% mature (female) at age 3- 5, 400- 450 mm TL; 100% mature

					(female) at age 8, 700 mm TL

Notes: larvae and post-larvae: 32.8-37.5 ppt<sub>5</sub>

juveniles: salinity =  $30-35ppt_{21}$ 

DO > 0.4

 $mg/L_{22}$ 

adults: 33-37 ppt<sub>10</sub>

spawning adults:

batch fecundity = 27-142 egg/g fish weight<sub>24</sub>

Bold and italicized font indicates proxy data

red snapper use artificial reefs as juveniles and adults<sub>17</sub>