

Cobia (*Rachycentron canadum*) 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 _{1, 2, 9, 25, 26, 27, 28, 35}	ER-2, ER-3, ER-4, ER-5	estuarine, nearshore	WCA	summer	28.1-29.7	top meter of water column				hatch within 36 hrs
larvae _{1, 2, 3, 4, 9, 28, 29}	ER-2, ER-3, ER-4, ER-5	estuarine, nearshore, offshore	WCA	May-Sep	24.2-32	3.1-300, in surface waters	In lab: zooplankton, primarily copepods			22 mm SL in 22 days (lab)
post-larvae _{1, 2, 4, 9, 28, 30, 31}	ER-3, ER-4, ER-5	nearshore, offshore	WCA	May-Jul	25.9-30.3	11-53 * in or near surface waters*	In lab: zooplankton, primarily copepods			25 mm SL in 25 days (lab)
early juveniles _{1, 4, 9, 28, 30, 31, 32}	ER-3, ER-4, ER-5	nearshore, offshore	WCA	Apr-Jul	*16.8-25.2*	5-300 * in or near surface waters*	In lab: <i>Gambusia</i> , shrimp and fish parts			~ 55 mm SL by 50 days (lab)
late juveniles _{1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 26, 28, 37}	ER-3, ER-4, ER-5	nearshore, offshore	WCA	May-Oct		1-70	fish, shrimp, squid	<i>Coryphaena hippurus</i>		231 mm SL by 130 days (lab)
adults _{1-29, 34, 36, 38, 39}	ER-1, ER-2, ER-3, ER-4, ER-5	nearshore, offshore	WCA, banks/shoals, hard bottom	Mar-Oct (n. Gulf), Nov-Mar (s. Gulf, s. FL)	23.0-28.0	1-70	crustaceans and fish		$M = 0.38/\text{yr}$	rapid growth for first two yrs; $L_{\text{inf}} = 1281.5$ mm FL, $k = 0.42$, $t_0 = -0.53$, max. age = 11 yrs
spawning adults _{1, 10, 16-18, 26-28, 35, 39}	ER-3, ER-4, ER-5	nearshore, offshore		Apr-Sep (n. Gulf)	23.0-28.0	1-70				50% maturity at age 2

Notes:

Eggs:	salinity = 30.5-34.1 ppt _{2, 9, 28}
Larvae:	salinity = 18.9-37.7 ppt _{2, 9, 28}
Post-larvae:	salinity = 28.9-30.2 ppt _{1, 2, 30, 31}
Early Juveniles:	salinity = *30.0-36.4 ppt* _{1, 30, 32}
Adults:	migrate seasonally _{1, 2, 11, 13, 15, 16} salinity = 24.6-30.0 ppt _{1, 3, 7, 22}
Spawning Adults:	salinity = 24.6-30.0+ ppt _{1, 18}

Information in asterisks comes from studies conducted outside GMFMC jurisdiction

Bold and italicized font indicates proxy data