

# 2019

# Coral Spawning Predictions for the Southern Caribbean

June			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:														27-Jun	28-Jun	29-Jun	30-Jun
Sunset Time:														19:03	19:03	19:04	19:04
Latin name	Common Name	Spawning Window															
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	60-0 min BS														17:55-19:10	

Consecutive monthly spawning events have been observed from May to October in Curaçao, Bonaire, the Dominican Republic, and Mexico. It is unknown if this occurs across the entire region. New observations are encouraged!

July			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:			16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	
Sunset Time:			19:04	19:04	19:04	19:04	19:04	19:04	19:03	19:03	19:03	19:03	19:03	19:03	19:02	19:02	19:02
Latin name	Common Name	Spawning Window															
<i>Dendrogyra cylindrus</i>	Pillar Coral	105-155 min AS	?	?	?			20:45-21:45									
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS					?	?	?		19:15-21:55						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS										19:30-21:00					
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	40-60 min AS										19:40-20:05					
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS										22:40-23:40					
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	60-0 min BS														17:55-19:05	

August			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:			15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
Sunset Time:			18:55	18:55	18:54	18:54	18:53	18:53	18:52	18:52	18:51	18:51	18:51	18:50	18:49	18:49	18:48
Latin name	Common Name	Spawning Window															
<i>Acropora palmata</i>	Elkhorn Coral	140-190 min AS				21:10-22:10 (Spawning could happen any of these days; This species is highly unpredictable in the Southern Caribbean)											
<i>Acropora cervicornis</i>	Staghorn Coral	150-190 min AS				21:20-22:10											
<i>Dendrogyra cylindrus</i>	Pillar Coral	105-155 min AS	?				20:35-21:35										
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS					?	?	?		19:05-21:40						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS										18:50-20:50					
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	40-60 min AS										19:30-19:55					
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS										22:25-23:35					
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	60-0 min BS														17:45-18:55	

September			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:			13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	
Sunset Time:			18:37	18:36	18:36	18:35	18:34	18:33	18:33	18:32	18:32	18:31	18:31	18:30	18:29	18:29	18:28
Latin name	Common name	Spawning Window															
<i>Dendrogyra cylindrus</i>	Pillar Coral	105-155 min AS	?				20:15-21:15										
<i>Siderastrea siderea</i>	Massive Starlet Coral	210-280 min AS						22:00-23:15									
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS									18:45-21:25						
<i>Montastraea/Orbicella annularis</i>	Lobed/Boulder Star Coral	195-250 min AS									21:40-22:50						
<i>Montastraea/Orbicella faveolata</i>	Mountainous Star Coral	195-250 min AS									21:40-22:50						
<i>Montastraea/Orbicella franksi</i>	Boulder Star Coral	90-150 min AS									20:00-21:05						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS									19:05-20:30						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	40-60 min AS									19:05-19:35						
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS									22:10-23:05						
<i>Pseudodiploria clivosa</i>	Knobby Brain Coral	210-255 min AS									22:00-22:55						
<i>Stephanocoenia intersepta</i>	Blushing Star Coral	170-205 min AS				?					21:15-22:05						
<i>Dichocoenia stokesii</i>	Pineapple Coral	90-170 min AS		?	?						20:00-21:25 (Spawns more than 20 nights in a row, expected through Oct 7 or later)						
<i>Eusmilia fastigiata</i>	Smooth Flower Coral	75-140 min AS									19:20-00:00						
<i>Meandrina meandrites</i>	Maze Coral	10-70 min AS			?	?					18:40-19:50 (Spawns many different nights in this range, expected through Oct 3 or later)						
<i>Madracis senaria</i>	Ten-Ray Star Coral	all night									all night						
<i>Agaricia humilis/Agaricia agaricites</i>	Lettuce Coral	all night									all night						
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	60-0 min BS														17:25-18:35	

October			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:			14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	
Sunset Time:			18:17	18:17	18:16	18:16	18:15	18:15	18:14	18:14	18:13	18:13	18:13	18:12	18:12	18:28	
Latin name	Common Name	Spawning Window															
<i>Dendrogyra cylindrus</i>	Pillar Coral	105-155 min AS	?	?	?			20:05-20:55									
<i>Siderastrea siderea</i>	Massive Starlet Coral	210-280 min AS						21:40-23:00									
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS					?				18:25-21:05						
<i>Montastraea/Orbicella annularis</i>	Lobed/Boulder Star Coral	195-250 min AS									21:25-22:30						
<i>Montastraea/Orbicella faveolata</i>	Mountainous Star Coral	195-250 min AS									21:25-22:30						
<i>Montastraea/Orbicella franksi</i>	Boulder Star Coral	90-150 min AS									19:40-20:50						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS									18:35-20:10						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	40-60 min AS									18:50-19:20						
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS									21:50-22:50						
<i>Pseudodiploria clivosa</i>	Knobby Brain Coral	210-255 min AS									21:40-22:35						
<i>Stephanocoenia intersepta</i>	Blushing Star Coral	170-205 min AS				?					21:00-21:45						
<i>Dichocoenia stokesii</i>	Pineapple Coral	90-170 min AS		?	?						19:40-21:10 (Spawns more than 20 nights in a row, expected through Nov 6 or later)						
<i>Eusmilia fastigiata</i>	Smooth Flower Coral	75-140 min AS									19:00-00:00						
<i>Meandrina meandrites</i>	Maze Coral	10-70 min AS			?	?					18:20-19:30 (Spawns many different nights in this range, expected through Nov 2 or later)						
<i>Madracis senaria</i>	Ten-Ray Star Coral	all night									all night						
<i>Agaricia humilis/Agaricia agaricites</i>	Lettuce Coral	all night									all night						
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	60-0 min BS														17:05-18:15	

August, September, and/or October			Days AFM:	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date:			See tables above for calendar dates in August, September, and October														
Latin name	Common Name	Spawning Window															
<i>Neofibularia nolitangere</i>	Touch-Me-Not Sponge						14:00-17:00										
<i>Plexaura homomalla</i>	Black Sea Rod									19:00-23:00							
<i>Pseudopterogorgia</i> spp.	Sea Plume									20:00-23:00							
<i>Plexaura</i> , <i>Pseudoplexaura</i> , <i>Eunicia</i>	Sea Rod									starting at 19:00							
<i>Diadema antillarum</i>	Long-Spined Sea Urchin									12:00-21:00, every day							
<i>Holothuria mexicana</i>	Donkeydung Sea Cucumber									12:00-18:00, every afternoon							
Ophiuroidea	Brittle Sea Star/Serpent Star									19:30-23:00, every night							
<i>Hermodice carunculata</i>	Fire Worm									12:00-19:00, every afternoon							
<i>Spirobranchus giganteus</i>	Christmas Tree Worm									21:00-22:30, every night							

**Legend:**  
 Days AFM: Days After the Full Moon  
 min BS = Minutes Before Sunset  
 min AS = Minutes After Sunset  
 Gray with ?: Spawning is unlikely but possible (This species is understudied for these dates and times. Additional observations during these windows are highly encouraged!)  
 Pale Yellow: Spawning is possible  
 Bright Orange: Spawning is likely  
 Red: Spawning is very likely

- To Observe Spawning**
- Make multiple dives
  - Dive in a place with high coral cover
  - Enter the water at least 15 min before predicted times
  - Do not dive deeper than 50 ft to maximize bottom time
  - Use a moderately bright dive light
  - Scan the water column for clouds of spawn

**Notes**  
 Your observations help coral research! Please report your spawning observations (including species, date, time, location, and pictures if possible) to [carmablog@gmail.com](mailto:carmablog@gmail.com). If you would like to become a regular contributor to the Coral Restoration Consortium coral spawning database, please contact [v.chamberland@secore.org](mailto:v.chamberland@secore.org). These predictions are based on observations from previous years. They do not guarantee that spawning will occur during these times. Spawning times vary monthly based on local sunset times. To look up your local sunset times, visit [www.sunandmoon.com](http://www.sunandmoon.com). Thank you to everyone who has collected and contributed spawning information over the past 25+ years! We wish you a safe and productive spawning season!

