

2020

Coral Spawning Predictions for the Southern Caribbean

April, May, & June Corals

Latin name	Common Name	Spawning Window	DAYS AFM				DAYS AFM				DAYS AFM			
			CALENDAR DATE				CALENDAR DATE				CALENDAR DATE			
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	10	11	12	13	10	11	12	13	10	11	12	13
			17-Apr	18-Apr	19-Apr	20-Apr	17-May	18-May	19-May	20-May	16-Jun	16-Jun	17-Jun	18-Jun
			18:48	18:48	18:48	18:48	18:53	18:53	18:53	18:54	19:01	19:01	19:01	19:02
					17:40-19:00			17:45-19:05				17:50-19:10		

*Monthly "DLAB" spawning has been observed from April to October in Curaçao, Bonaire, the Dominican Republic, and Mexico. We don't yet know if this occurs across the entire region. New observations are highly encouraged!

July Corals

Latin name	Common Name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME		
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	0	1	2	3	4	5	6	7	8	9	10	11	12	13
			4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul
			19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04	19:04
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS								19:20-21:50						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS								19:40-20:55						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	40-60 min AS								19:45-20:05						
<i>Dendrogyra cylindrus</i>	Pillar Coral	90-155 min AS			20:35-21:40											
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS								22:45-23:35						

August Corals

Latin name	Common Name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME		
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	0	1	2	3	4	5	6	7	8	9	10	11	12	13
			3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
			19:00	19:00	18:59	18:59	18:59	18:58	18:58	18:57	18:57	18:56	18:56	18:55	18:55	18:54
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS								19:15-21:45				17:45-19:05		
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS								19:35-20:50						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	30-70 min AS								19:30-20:10						
<i>Dendrogyra cylindrus</i>	Pillar Coral	90-155 min AS			20:30-21:35											
<i>Dichocoenia stokesii</i>	Pineapple Coral	100-160 min AS					20:40-21:40	(Spawns more than 20 nights in September - help us discover what they do in August)								
<i>Acropora palmata</i>	Elkhorn Coral	140-190 min AS			21:20-22:10	(Spawning could occur on any of these days. This species is not highly predictable in the Southern Caribbean)										
<i>Acropora cervicornis</i>	Staghorn Coral	150-190 min AS			21:30-22:10											
<i>Montastraea/Orbicella annularis</i>	Lobed/Boulder Star Coral	185-250 min AS								22:05-23:10						
<i>Montastraea/Orbicella faveolata</i>	Mountainous Star Coral	185-250 min AS								22:05-23:10						
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS								22:40-23:30						

September Corals

Latin name	Common name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	0	1	2	3	4	5	6	7	8	9	10	11	12	13
			1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
			18:45	18:44	18:44	18:43	18:43	18:42	18:41	18:40	18:40	18:39	18:38	18:38	18:37	18:36
<i>Meandrina meandrites</i>	Maze Coral	10-70 min AS								18:50-19:55	(Spawns many different nights in this range, expected through Sept 20 or later)					
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS								18:55-21:25						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS								18:55-20:30						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	30-70 min AS								19:10-19:50						
<i>Eusmilia fastigiata</i>	Smooth Flower Coral	75-270 min AS								19:55-23:15						
<i>Montastraea/Orbicella franksi</i>	Boulder Star Coral	90-150 min AS								20:10-21:10						
<i>Dendrogyra cylindrus</i>	Pillar Coral	90-155 min AS			20:15-21:30											
<i>Dichocoenia stokesii</i>	Pineapple Coral	100-160 min AS					20:20-21:20	(Spawns more than 20 nights in a row, expected through Sept 25 or later)								
<i>Acropora palmata</i>	Elkhorn Coral	140-190 min AS			21:05-22:15	(Spawning could occur on any of these days. This species is not highly predictable in the Southern Caribbean)										
<i>Acropora cervicornis</i>	Staghorn Coral	150-190 min AS			21:30-22:10											
<i>Stephanocoenia intersepta</i>	Blushing Star Coral	160-210 min AS								21:15-22:05						
<i>Montastraea/Orbicella annularis</i>	Lobed/Boulder Star Coral	185-250 min AS								21:20-22:10						
<i>Montastraea/Orbicella faveolata</i>	Mountainous Star Coral	185-250 min AS								21:45-22:50						
<i>Siderastrea siderea</i>	Massive Starlet Coral	210-280 min AS						22:10-23:20								
<i>Pseudodiploria clivosa</i>	Knobby Brain Coral	210-255 min AS								22:10-23:10						
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS								22:20-23:10						
<i>Madracis senaria</i>	Ten-Ray Star Coral	all night								all night						
<i>Agaricia humilis/Agaricia agaricites</i>	Lettuce Coral	all night								all night						

October Corals

Latin name	Common Name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	0	1	2	3	4	5	6	7	8	9	10	11	12	13
			1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
			18:25	18:24	18:24	18:23	18:22	18:22	18:21	18:20	18:20	18:19	18:19	18:18	18:18	18:17
<i>Meandrina meandrites</i>	Maze Coral	10-70 min AS								18:30-19:35	(Spawns many different nights in this range, expected till Oct 21 or later)					
<i>Montastraea cavernosa</i>	Great Star Coral	15-165 min AS								18:35-21:05						
<i>Colpophyllia natans</i>	Boulder Brain Coral	35-110 min AS								18:45-20:10						
<i>Pseudodiploria strigosa</i> (Early group)	Symmetrical Brain Coral	30-70 min AS								18:50-19:30						
<i>Eusmilia fastigiata</i>	Smooth Flower Coral	75-270 min AS								19:35-23:00						
<i>Montastraea/Orbicella franksi</i>	Boulder Star Coral	90-150 min AS								19:50-20:50						
<i>Dendrogyra cylindrus</i>	Pillar Coral	90-155 min AS			19:50-21:10											
<i>Dichocoenia stokesii</i>	Pineapple Coral	100-160 min AS					20:00-21:00	(Spawns more than 20 nights in a row, expected through Oct 25 or later)								
<i>Stephanocoenia intersepta</i>	Blushing Star Coral	160-210 min AS								21:00-21:50						
<i>Montastraea/Orbicella annularis</i>	Lobed/Boulder Star Coral	185-250 min AS								21:25-22:30						
<i>Montastraea/Orbicella faveolata</i>	Mountainous Star Coral	185-250 min AS								21:25-22:30						
<i>Siderastrea siderea</i>	Massive Starlet Coral	210-280 min AS						21:50-23:00								
<i>Pseudodiploria clivosa</i>	Knobby Brain Coral	210-255 min AS								21:50-23:00						
<i>Pseudodiploria strigosa</i> (Late group)	Symmetrical Brain Coral	220-270 min AS								22:00-22:50						
<i>Madracis senaria</i>	Ten-Ray Star Coral	all night								all night						
<i>Agaricia humilis/Agaricia agaricites</i>	Lettuce Coral	all night								all night						

November Corals

Latin name	Common name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME			
<i>Diploria labyrinthiformis</i> *	Grooved Brain Coral	70 min BS-10 min AS	0	1	2	3	4	5	6	7	8	9	10	11	12	13
			31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov
			18:10	18:09	18:09	18:09	18:09	18:08	18:08	18:08	18:08	18:07	18:07	18:07	18:07	18:07
<i>Meandrina meandrites</i>	Maze Coral	10-70 min AS								18:15-19:30	(Spawns many different nights in this range, expected through Nov 21 or later)					
<i>Eusmilia fastigiata</i>	Smooth Flower Coral	75-270 min AS								19:20-22:30						
<i>Dichocoenia stokesii</i>	Pineapple Coral	100-160 min AS								19:50-20:50	(Spawns more than 20 nights in a row, expected through Nov 24 or later)					

August/September/October Sponges, Gorgonians, & Others

Latin name	Common Name	Spawning Window	DAYS AFM													
			CALENDAR DATE													
			SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME	SUNSET TIME			
<i>Heliophoria mexicana</i>	Donkeydung Sea Cucumber		0	1	2	3	4	5	6	7	8	9	10	11	12	13
			3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
			1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep
<i>Diadema antillarum</i>	Long-Spined Sea Urchin		1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
<i>Neofibularia nolitangere</i>	Touch-Me-Not Sponge						14:00-17:00									
<i>Plexaura</i> , <i>Pseudoplexaura</i> , <i>Eunicia</i>	Sea Rods									starting at 19:00						
<i>Plexaura homomalla</i>	Black Sea Rod							19:00-23:00								
<i>Ophiuroidea</i>	Brittle Sea Star/Serpent Star									19:30-23:00						
<i>Pseudopterogorgia</i> spp.	Sea Plume									20:00-23:00						
<i>Spirobranchus oiganteus</i>	Christmas Tree Worm									21:00-22:30						

Legend

Days AFM: Days After the Full Moon
min BS = Minutes Before Sunset
min AS = Minutes After Sunset

Pale Blue: Spawning may be possible but more data are needed! This species is understudied on these dates and times. Please help us make new discoveries by diving these windows!

Pale Yellow: Spawning is possible - has been observed on these dates

Bright Orange: Spawning is likely - often observed on these dates

Red: Spawning is very likely - reliably observed on these dates

To Observe Spawning

- Make multiple dives on multiple nights
- Dive in a place with high coral cover
- Enter the water