

# 2022

# Coral Spawning Predictions for the Southern Caribbean

## Spring Corals

NAFM	10	11	12	13	9	10	11	12	10	11	12	13
DATE	Tue 26-Apr	Wed 27-Apr	Thu 28-Apr	Fri 29-Apr	Wed 25-May	Thu 26-May	Fri 27-May	Sat 28-May	Fri 24-Jun	Sat 25-Jun	Sun 26-Jun	Mon 27-Jun
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>											
<i>Diploria labyrinthiformis*</i> (70 MBS–10 MAS)	Grooved Brain Coral											
	SUNSET 18:49 18:49 18:49 18:49 18:55 18:55 18:55 18:56 19:03 19:03 19:03 19:03											
	17:39–18:59 17:45–19:05 17:53–19:13											

\*Monthly "DLAB" spawning has been seen from April to October in Curaçao, Bonaire, DR, and Mexico. Does this occur across the entire region? New observations are encouraged!

## July Corals

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
DATE	Wed 13-Jul	Thu 14-Jul	Fri 15-Jul	Sat 16-Jul	Sun 17-Jul	Mon 18-Jul	Tue 19-Jul	Wed 20-Jul	Thu 21-Jul	Fri 22-Jul	Sat 23-Jul	Sun 24-Jul	Mon 25-Jul	Tue 26-Jul
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>													
<i>Diploria labyrinthiformis*</i> (70 MBS–10 MAS)	Grooved Brain Coral													
<i>Montastraea cavemosa</i> (15–225 MAS)	Great Star Coral													
<i>Colpophyllia natans</i> (25–115 MAS)	Boulder Brain Coral													
<i>Pseudodiploria strigosa</i> (Early group; 35–100 MAS)	Symmetrical Brain Coral													
<i>Dendrogyra cylindrus</i> (90–160 MAS)	Pillar Coral													
<i>Acropora palmata</i> (140–190 MAS)	Elkhorn Coral													
<i>Acropora cervicornis</i> (150–190 MAS)	Staghorn Coral													
<i>Montastraea/Orbicella annularis</i> (185–250 MAS)	Lobed/Boulder Star Coral													
<i>Montastraea/Orbicella faveolata</i> (185–255 MAS)	Mountainous Star Coral													
<i>Pseudodiploria strigosa</i> (Late group; 205–270 MAS)	Symmetrical Brain Coral													
	SUNSET 19:04 19:04 19:04 19:04 19:04 19:04 19:04 19:04 19:04 19:03 19:03 19:03 19:03 19:03													
	19:19–22:49 (Peaks in first 1.5 hrs) 19:29–20:59 19:39–20:44 20:34–21:44 21:24–22:14 (Spawning could occur on any of these dates: this species is not highly predictable in the Southern Caribbean) 21:34–22:14 22:09–23:14 22:09–23:19 22:29–23:34 17:53–19:13													

## August Corals

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
DATE	Thu 11-Aug	Fri 12-Aug	Sat 13-Aug	Sun 14-Aug	Mon 15-Aug	Tue 16-Aug	Wed 17-Aug	Thu 18-Aug	Fri 19-Aug	Sat 20-Aug	Sun 21-Aug	Mon 22-Aug	Tue 23-Aug	Wed 24-Aug
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>													
<i>Diploria labyrinthiformis*</i> (70 MBS–10 MAS)	Grooved Brain Coral													
<i>Montastraea cavemosa</i> (15–225 MAS)	Great Star Coral													
<i>Colpophyllia natans</i> (25–115 MAS)	Boulder Brain Coral													
<i>Pseudodiploria strigosa</i> (Early group; 35–100 MAS)	Symmetrical Brain Coral													
<i>Dendrogyra cylindrus</i> (90–160 MAS)	Pillar Coral													
<i>Dichocoenia stokesii</i> (85–160 MAS)	Pineapple Coral													
<i>Acropora palmata</i> (140–190 MAS)	Elkhorn Coral													
<i>Acropora cervicornis</i> (150–190 MAS)	Staghorn Coral													
<i>Montastraea/Orbicella annularis</i> (185–250 MAS)	Lobed/Boulder Star Coral													
<i>Montastraea/Orbicella faveolata</i> (185–255 MAS)	Mountainous Star Coral													
<i>Pseudodiploria strigosa</i> (Late group; 205–270 MAS)	Symmetrical Brain Coral													
	SUNSET 18:57 18:57 18:56 18:56 18:55 18:55 18:54 18:54 18:53 18:53 18:52 18:52 18:51 18:50													
	19:11–22:41 (Peaks in first 1.5 hrs) 19:19–20:49 19:29–20:34 (Peaks in first 30 min) 20:27–21:37 20:22–21:37 (Spawns throughout Sept/Oct lunar cycles: can you help us discover what they do in August?) 21:17–22:07 (Spawning could occur on any of these dates: this species is not highly predictable in the Southern Caribbean) 21:27–22:07 22:00–23:05 22:00–23:10 22:19–23:24 17:42–19:02													

## September Corals

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
DATE	Sat 10-Sep	Sun 11-Sep	Mon 12-Sep	Tue 13-Sep	Wed 14-Sep	Thu 15-Sep	Fri 16-Sep	Sat 17-Sep	Sun 18-Sep	Mon 19-Sep	Tue 20-Sep	Wed 21-Sep	Thu 22-Sep	Fri 23-Sep
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>													
<i>Diploria labyrinthiformis*</i> (70 MBS–10 MAS)	Grooved Brain Coral													
<i>Meandrina meandrites</i> (10–70 MAS)	Maze Coral													
<i>Montastraea cavemosa</i> (15–225 MAS)	Great Star Coral													
<i>Colpophyllia natans</i> (25–115 MAS)	Boulder Brain Coral													
<i>Pseudodiploria strigosa</i> (Early group; 35–100 MAS)	Symmetrical Brain Coral													
<i>Eusmilia fastigiata</i> (75–270 MAS)	Smooth Flower Coral													
<i>Montastraea/Orbicella franksi</i> (90–150 MAS)	Boulder Star Coral													
<i>Dendrogyra cylindrus</i> (90–160 MAS)	Pillar Coral													
<i>Dichocoenia stokesii</i> (85–160 MAS)	Pineapple Coral													
<i>Acropora palmata</i> (140–190 MAS)	Elkhorn Coral													
<i>Acropora cervicornis</i> (150–190 MAS)	Staghorn Coral													
<i>Stephanocoenia intersepta</i> (160–255 MAS)	Blushing Star Coral													
<i>Montastraea/Orbicella annularis</i> (185–250 MAS)	Lobed/Boulder Star Coral													
<i>Montastraea/Orbicella faveolata</i> (185–255 MAS)	Mountainous Star Coral													
<i>Siderastrea siderea</i> (195–280 MAS)	Massive Starlet Coral													
<i>Pseudodiploria clivosa</i> (210–255 MAS)	Knobby Brain Coral													
<i>Pseudodiploria strigosa</i> (Late group; 205–270 MAS)	Symmetrical Brain Coral													
<i>Madracis senaria</i> (All night)	Ten-Ray Star Coral													
<i>Agaricia humilis/Agaricia agaricites</i> (All night)	Lettuce Coral													
	SUNSET 18:39 18:39 18:38 18:37 18:37 18:36 18:35 18:35 18:34 18:33 18:33 18:32 18:31 18:31													
	18:46–19:46 (Expected nightly until at least Sept 30: new observations are encouraged from any date) 18:52–22:22 (Peaks in first 1.5 hrs) 19:00–20:30 19:10–20:15 (Peaks in first 30 min) 19:51–23:06 20:07–21:07 20:04–21:19 (Expected every night across the full lunar cycle: new observations are encouraged from any date this month) 20:59–21:49 (Spawning could occur on any of these dates: this species is not highly predictable in the Southern Caribbean) 21:09–21:49 21:17–22:52 21:42–22:47 21:42–22:52 21:52–23:17 22:05–22:50 22:00–23:05 all night all night 17:23–18:43													

# 2022

## Coral Spawning Predictions for the Southern Caribbean, continued

### October Corals

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13																			
DATE	Sun 9-Oct	Mon 10-Oct	Tue 11-Oct	Wed 12-Oct	Thu 13-Oct	Fri 14-Oct	Sat 15-Oct	Sun 16-Oct	Mon 17-Oct	Tue 18-Oct	Wed 19-Oct	Thu 20-Oct	Fri 21-Oct	Sat 22-Oct																			
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>																																
<i>Diploria labyrinthiformis</i> * (70 MBS–10 MAS)	SUNSET 18:20											18:20		18:19		18:18		18:18		18:17		18:17		18:16		18:16		18:15		18:15		17:05–18:25	
<i>Meandrina meandrites</i> (10–70 MAS)	Maze Coral																																
<i>Montastraea cavemosa</i> (15–225 MAS)	Great Star Coral																																
<i>Colpophyllia natans</i> (25–115 MAS)	Boulder Brain Coral																																
<i>Pseudodiploria strigosa</i> (Early group; 35–100 MAS)	Symmetrical Brain Coral																																
<i>Eusmilia fastigiata</i> (75–270 MAS)	Smooth Flower Coral																																
<i>Montastraea/Orbicella franksi</i> (90–150 MAS)	Boulder Star Coral																																
<i>Dendrogyra cylindrus</i> (90–160 MAS)	Pillar Coral																																
<i>Dichocoenia stokesii</i> (85–160 MAS)	Pineapple Coral																																
<i>Stephanocoenia intersepta</i> (160–255 MAS)	Blushing Star Coral																																
<i>Montastraea/Orbicella annulans</i> (185–250 MAS)	Lobed/Boulder Star Coral																																
<i>Montastraea/Orbicella faveolata</i> (185–255 MAS)	Mountainous Star Coral																																
<i>Siderastrea siderea</i> (195–280 MAS)	Massive Starlet Coral																																
<i>Pseudodiploria clivosa</i> (210–255 MAS)	Knobby Brain Coral																																
<i>Pseudodiploria strigosa</i> (Late group; 205–270 MAS)	Symmetrical Brain Coral																																
<i>Madracis senaria</i> (All night)	Ten-Ray Star Coral																																
<i>Agaricia humilis/Agaricia agaricites</i> (All night)	Lettuce Coral																																

### November Corals

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13															
DATE	Tue 8-Nov	Wed 9-Nov	Thu 10-Nov	Fri 11-Nov	Sat 12-Nov	Sun 13-Nov	Mon 14-Nov	Tue 15-Nov	Wed 16-Nov	Thu 17-Nov	Fri 18-Nov	Sat 19-Nov	Sun 20-Nov	Mon 21-Nov															
<b>Scientific name (and spawning window)</b>	<b>Common Name</b>																												
<i>Diploria labyrinthiformis</i> * (70 MBS–10 MAS)	SUNSET 18:08											18:08		18:07		18:07		18:07		18:07		18:07		18:07		18:07		16:57–18:17	
<i>Meandrina meandrites</i> (10–70 MAS)	Maze Coral																												
<i>Eusmilia fastigiata</i> (75–270 MAS)	Smooth Flower Coral																												
<i>Dichocoenia stokesii</i> (85–160 MAS)	Pineapple Coral																												

### Fall Sponges, Stars, Gorgs, and More

NAFM	0	1	2	3	4	5	6	7	8	9	10	11	12	13
DATE	11-Aug 10-Sep	12-Aug 11-Sep	13-Aug 12-Sep	14-Aug 13-Sep	15-Aug 14-Sep	16-Aug 15-Sep	17-Aug 16-Sep	18-Aug 17-Sep	19-Aug 18-Sep	20-Aug 19-Sep	21-Aug 20-Sep	22-Aug 21-Sep	23-Aug 22-Sep	24-Aug 23-Sep
<b>Scientific name</b>	<b>Common Name</b>													
<i>Holothuria mexicana</i>	Donkeydung Sea Cucumber													
<i>Hermodice carunculata</i>	Fire Worm													
<i>Diadema antillarum</i>	Long-Spined Sea Urchin													
<i>Neofibularia nolitangere</i>	Touch-Me-Not Sponge													
<i>Plexaura, Pseudoplexaura, Eunicia</i>	Sea Rods													
<i>Plexaura homomalla</i>	Black Sea Rod													
Ophiuroidea	Brittle Sea Star/Serpent Star													
<i>Pseudopterogorgia</i> spp.	Sea Plume													
<i>Spirobranchus giganteus</i>	Christmas Tree Worm													

### Abbreviations & Colors

**NAFM:** Nights After the Full Moon  
**MBS:** Minutes Before Sunset  
**MAS:** Minutes After Sunset  
**Pale Blue:** Spawning may be possible but data are sparse:  
 Please help us make new discoveries by diving these dates!  
**Pale Yellow:** Spawning is possible:  
 Spawning has been observed on these dates  
**Bright Orange:** Spawning is likely:  
 Spawning is often observed on these dates  
**Red:** Spawning is very likely:  
 Spawning is reliably observed on these dates

### Tips for Observers

- Make multiple dives on multiple nights
- Dive in a place with high coral cover
- Enter the water before predicted times
- Dive shallower than 50 ft to maximize bottom time
- Use a moderately bright dive light
- Scan the water column for clouds of spawn

### Notes & Thanks

- Spawning predictions are based on previous observations, but spawning is never guaranteed (especially in a changing climate). When in doubt, go for a dive!
- Spawning times vary based on your local sunset times. To look up your local sunset times, visit [www.sunandmoon.com](http://www.sunandmoon.com).
- Your discoveries help coral research and conservation! Please send your spawning observations (species, date, time, location, and pictures if possible) to [carmabilog@gmail.com](mailto:carmabilog@gmail.com) or share your observations on the Coral Spawning Research Facebook page. To contribute to the Coral Restoration Consortium spawning database, contact [v.chamberland@secore.org](mailto:v.chamberland@secore.org).
- Special thanks to everyone who contributed their spawning observations over the past three decades - we wish you a safe and productive spawning season!
- Suggested Citation: MJA Vermeij, VF Chamberland, and KL Marhaver, "Coral Spawning Predictions, Southern Caribbean, 2007–2022." CARMABI, Curacao.

