

# 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<br>26-Apr  | Wed<br>27-Apr | Thu<br>28-Apr | Fri<br>29-Apr | Wed<br>25-May | Thu<br>26-May | Fri<br>27-May | Sat<br>28-May | Fri<br>24-Jun | Sat<br>25-Jun | Sun<br>26-Jun | Mon<br>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<br>13-Jul   | Thu<br>14-Jul | Fri<br>15-Jul | Sat<br>16-Jul | Sun<br>17-Jul | Mon<br>18-Jul | Tue<br>19-Jul | Wed<br>20-Jul | Thu<br>21-Jul | Fri<br>22-Jul | Sat<br>23-Jul | Sun<br>24-Jul | Mon<br>25-Jul | Tue<br>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<br>11-Aug   | Fri<br>12-Aug | Sat<br>13-Aug | Sun<br>14-Aug | Mon<br>15-Aug | Tue<br>16-Aug | Wed<br>17-Aug | Thu<br>18-Aug | Fri<br>19-Aug | Sat<br>20-Aug | Sun<br>21-Aug | Mon<br>22-Aug | Tue<br>23-Aug | Wed<br>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<br>10-Sep   | Sun<br>11-Sep | Mon<br>12-Sep | Tue<br>13-Sep | Wed<br>14-Sep | Thu<br>15-Sep | Fri<br>16-Sep | Sat<br>17-Sep | Sun<br>18-Sep | Mon<br>19-Sep | Tue<br>20-Sep | Wed<br>21-Sep | Thu<br>22-Sep | Fri<br>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<br>9-Oct             | Mon<br>10-Oct | Tue<br>11-Oct | Wed<br>12-Oct | Thu<br>13-Oct | Fri<br>14-Oct | Sat<br>15-Oct | Sun<br>16-Oct | Mon<br>17-Oct | Tue<br>18-Oct | Wed<br>19-Oct | Thu<br>20-Oct | Fri<br>21-Oct | Sat<br>22-Oct |
| <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>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<br>8-Nov        | Wed<br>9-Nov | Thu<br>10-Nov | Fri<br>11-Nov | Sat<br>12-Nov | Sun<br>13-Nov | Mon<br>14-Nov | Tue<br>15-Nov | Wed<br>16-Nov | Thu<br>17-Nov | Fri<br>18-Nov | Sat<br>19-Nov | Sun<br>20-Nov | Mon<br>21-Nov |
| <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>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<br>10-Sep              | 12-Aug<br>11-Sep | 13-Aug<br>12-Sep | 14-Aug<br>13-Sep | 15-Aug<br>14-Sep | 16-Aug<br>15-Sep | 17-Aug<br>16-Sep | 18-Aug<br>17-Sep | 19-Aug<br>18-Sep | 20-Aug<br>19-Sep | 21-Aug<br>20-Sep | 22-Aug<br>21-Sep | 23-Aug<br>22-Sep | 24-Aug<br>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.

