

Coral Spawning Prediction Calendar 2023

Mexican Caribbean



Month			JULY													
Nights after full moon (NAFM)			0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date			3	4	5	6	7	8	9	10	11	12	13	14	15	16
Sunset time (north of Quintana roo)			19:32	19:32	19:32	19:32	19:32	19:32	19:32	19:32	19:32	19:32	19:32	19:31	19:31	19:31
Species	Spawning time	Spawning window MAS or MBS	*Spawning of <i>A. palmata</i> is possible this month. ** <i>Diploria labyrinthiformis</i> spawning starts in this region.													
<i>Acropora palmata</i>	21:43-22:37	131-185 MAS														
<i>Acropora cervicornis</i>	22:02-22:49	150-190 MAS	Caribbean													
<i>Diploria labyrinthiformis</i>	18:11-19:15	17-81 MBS														Mexican Caribbean**
<i>Dendrogyra cylindrus</i>	19:25	7 MBS														
<i>Montastraea cavernosa</i>	19:48-23:17	15-225 MAS														
<i>Colpophyllia natans</i>	19:57-21:27	25-115 MAS														
<i>Orbicella annularis</i>	22:37-23:42	185-250 MAS														
<i>Orbicella faveolata</i>	22:37-23:47	185-255 MAS														

Month			AUGUST													
Nights after full moon (NAFM)			0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sunset time			19:25	19:25	19:24	19:24	19:23	19:23	19:22	19:21	19:21	19:20	19:19	19:19	19:18	19:19
Species	Spawning time	Spawning window MAS or MBS	* Spawning of <i>A. palmata</i> is most likely to occur this month. ** Spawning of <i>Orbicella</i> and <i>Pseudodiploria</i> species begins.													
<i>Acropora palmata</i>	21:06-23:10	102-226 MAS														
<i>Acropora palmata</i>	20:39-20:53	139-153 MAS														
<i>Acropora palmata</i>	21:39-22:29	140-190 MAS	Caribbean													
<i>Acropora cervicornis</i>	21:53-22:33	150-190 MAS		Caribbean												
<i>Dendrogyra cylindrus</i>	20:53-22:03	90-160 MAS	Caribbean													
<i>Orbicella faveolata</i>	21:03-0:33	100-310 MAS														
<i>Orbicella faveolata</i>	22:26-23:36	185-255 MAS														
<i>Orbicella annularis</i>	22:53-23:16	211-234 MAS														
<i>Pseudodiploria strigosa</i>	22:23-23:52	181-270 MAS														
<i>Pseudodiploria strigosa</i>	22:46-23:51	205-270														
<i>Diploria labyrinthiformis</i>	18:32-19:23	47 MBS-4 MAS														
<i>Diploria labyrinthiformis</i>	18:07-19:27	70 MBS-10 MAS														
<i>Montastraea cavernosa</i>	19:36-23:06	15-225 MAS														
<i>Colpophyllia natans</i>	19:46-21:16	25-115 MAS														

Month			AUGUST							SEPTEMBER						
Nights after full moon (NAFM)			0	1	2	3	4	5	6	7	8	9	10	11	12	13
Calendar Date			31	1	2	3	4	5	6	7	8	9	10	11	12	13
Sunset time			19:04	19:03	19:02	19:01	19:00	18:59	18:58	18:57	18:56	18:55	18:55	18:54	18:53	18:52
Species	Spawning time	Spawning window MAS or MBS	* Spawning of <i>A. palmata</i> is most likely to occur this month. ** Spawning of <i>Orbicella</i> and <i>Pseudodiploria</i> species begins.													
<i>Acropora palmata</i>	21:25-23:21	147-262 MAS														
<i>Acropora palmata</i>	20:08-20:34	128-154 MAS														
<i>Acropora palmata</i>	21:13-22:03	140-190 MAS	Caribbean													
<i>Acropora cervicornis</i>	21:27-22:07	150-190 MAS	Caribbean													
<i>Orbicella faveolata</i>	21:25-23:32	147-273 MAS														
<i>Orbicella faveolata</i>	21:18-22:05	198-125 MAS														
<i>Orbicella faveolata</i>	22:01-23:11	185-255 MAS														
<i>Orbicella annularis</i>	21:20-23:59	142-301 MAS														
<i>Orbicella annularis</i>	21:03-23:08	185-250 MAS														
<i>Pseudodiploria strigosa</i>	22:24-23:15	206-257 MAS														
<i>Pseudodiploria strigosa</i>	22:23-23:28	205-270 MAS														
<i>Pseudodiploria clivosa</i>	22:25-23:10	210-255 MAS														
<i>Pseudodiploria clivosa</i>	after 23:00	> 240 MAS														
<i>Diploria labyrinthiformis</i>	18:41-19:04	13 MBS-10 MAS														
<i>Diploria labyrinthiformis</i>	17:42-19:02	70 MBS-10 MAS														
<i>Dendrogyra cylindrus</i>	20:29-21:39	90-160 MAS	Caribbean													
<i>Montastraea cavernosa</i>	20:31-20:43	93-105 MAS														
<i>Dichocoenia stokesii</i>	20:17-21:32	85-160 MAS	Caribbean													
<i>Meandrina meandrites</i>	19:02-20:02	10-70 MAS														
<i>Orbicella franksi</i>	20:26-21:26	90-150 MAS														
<i>Siderastrea siderea</i>	22:12-23:37	195-280 MAS														
<i>Eusmilia fastigiata</i>	20:10-23-25	75-270 MAS														
<i>Colpophyllia natans</i>	19:21-21:16	25-115 MAS														

ABBREVIATIONS

NAFM: Nights after full moon MAS: minutes after sunset
MBS: minutes before sunset

LEGENDS:

-Colors indicate different species recorded in the North/Mexican Caribbean; darker tones on days most likely for spawning to occur, lighter tones on days with possible spawning.
-Gray colors for records from other parts of the Caribbean
-Spawning time is shown for Puerto Morelos, with reference to local sunset times and must be adjusted accordingly for other locations.

NOTES:

- Predictions are based on previous observations at locations along the coast of Quintana Roo, Mexico,
- Coralium lab, holds permits from the corresponding authorities to carry out all the activities related to the observation of coral spawning in Mexico.
- For any questions or contributions to the CORALIUM spawning database, please contact Dra. Anastazia T. Banaszak, CORALIUM lab (banaszak@cmart.unam.mx),
- Citation:
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