



Lockheed Martin Dive Club

October 2020

Mark your calendars - Dive Club Meeting Oct. 13

Location - Virtual

Presidents Message

October is generally the month of Hurricanes for central Florida, however this year has been exceptionally favorable. In fact last months diving was really very amazing with low wave heights and 80 feet of visibility over, I personally visited Jupiter three times. Most dive boats have increased their costs to make up for the low volume of divers and being unable to fill boats to capacity. Personally, I like the reduced diver count and the extra room on the dive boats, perhaps we will stop seeing the word Cattle being thrown around in the future as boats realized divers like the extra space. As for the Corona virus we are still staying the course by practicing social distancing as a club. The first Virtual Dive Club meeting was a success, and I believe most users loved the new platform. We are planning another Virtual meeting this month where we will be discussing the Disney Dive Quest and Bahamas Shark Trip so stay tuned for that. We also have the Photo/Video contest where anyone who enters gets a chance of being on next year's club calendar and winning gift cards. The club started looking into next years club dives and establish a calendar where we are planning spring dives, Jupiter shark dives, Keys trips, and more. We are looking for help to keep us organized and make provisions for these trips. Remember to stay wet, wash your hands, and please social distance whenever possible.

Entertainment

We have a lot of local diving opportunities. At our October meeting Jamie Dachtler and Michael Smetana will present two of these opportunities that members of our club have recently taken; the Disney EPCOT Dive Quest and Bahamas Shark Diving. Join us as we explore these exciting diving trips!

Membership Dues

In recognition of the impact the Coronavirus has had on all of us and its effect on dive club activities the following motion was presented by the Board of Directors and passed by the membership at the September Club meeting:

“For program years 2020 and 2021 (April 2020 -March 2022) dues will be reduced to half the current fee, raising again to normal levels when dues are due April 1, 2022.”

Thus, if a member has already paid the full dues amount for the current year (\$25 or \$20 if DAN member), they will be paid in full through this current year and next year. New members will pay the prorated amount for the balance of the year based on \$12.50 per year (\$10 per

year if DAN member). For renewal in 2022, dues will default back to our current levels of \$25 or \$20 with DAN membership.

Make your check or money order out to “Martin Dive Club” and mail it to our Treasurer Keri Pitts, 5299 Southeast 92nd St, Ocala, FL 34480.

Contact Keri Pitts (unixchik@gmail.com) with any dues questions

Photo/Video Contest 2020

Check out your photos and videos! COVID-19 is not stopping our annual Photo/Video contest! **To enter the contest you MUST be a Current Member (dues paid for 2020)**

Photo Categories:

Underwater - Close-up and small critters

Underwater - Normal, wide-angle, large critters, and scenes

Underwater - Pictures of divers

Topside, Diving Related - Sunsets on dive trips, boat scenes, etc.

Rookie - For anyone that has not won an award in the past 2 years

Extreme Photoshop — Anything goes

Video Categories:

Edited Video Presentations - 4 minutes or less

Un-edited Video Shot - No music, no editing, may be trimmed for time; 1 minute or less.

Rules:

This is a photography and videography contest, not a Photoshop, digital imaging, video production contest. Imaging and editing software has become a necessary tool for processing images and videos, but it is not a substitute for good photography and videography. All entries will be judged on: 1) technical image quality (lighting, exposure, and focus); 2) difficulty; 3) composition; and 4) overall impact. The value of UW videography will weigh more than computer-generated graphics and animation. A minimum of 50% of the footage must be live video taken underwater (as opposed to still shots). Maximum length of video submission includes any introduction and/or credits.

Entries exhibiting the following behavior will be disqualified:

Divers visibly damaging the environment (e.g., gear dragging or kicking up sand)

Animals being touched against their will or with signs of diver-induced stress

(e.g., puffed puffers, inking octopus)

Animals moved to an unnatural environment, risky location, or being fed by divers.

Divers exhibiting poor buoyancy control.

Marine life should never be stressed or endangered for the sake of a photo or video!

Members may enter up to two entries into each of the categories. All photos and videos must have been taken and edited by entrant (no specified time frame due to COVID19 impacts on travel this year) and must have not been entered in past LMDC Photo & Video Contests.

Digital images may only be:

Color corrected

Adjusted for lightness or darkness

Cropped

NO OTHER DIGITAL MANIPULATION ALLOWED — Nothing added,
nothing taken away

EXCEPTION: Extreme Photoshop category: Anything goes

All images and videos submitted must be identified as to which category you intend to enter. Submit images in JPEG format. Submit videos in WMV, MOV, or MPEG format.

By submitting the entry, the competitor certifies that he or she has created, composed, and made the original submitted photo or video and agrees to give Lockheed Martin Dive Club rights to use the work.

All entries should be delivered to Mike McCleskey, Photo Contest Guy prior to the October 15, 2020 deadline.

Entries may be emailed to mmccleskey@cfl.rr.com; snail mailed to 1814 Billingshurst Court, Orlando FL 32825; or any other arrangements we can come up with. Call Mike McCleskey at 407-808-6453 with any questions.

Winners will be announced at our regular meeting in November.

Don't miss out on the fun! Start going through your photos and videos now and pick a few to enter...

“Conservation Conversations” Free webinar series continues

The Florida Sea Grant Extension office in partnership with Miami-Dade County ECO Adventures is offering a free webinar series called “Conservation Conversations.” It features presentations given by ECO Adventures staff and the Florida Sea Grant Extension office staff about topics that are local and relevant to Florida. The 30 minute webinars are offered every 2nd and 4th Wednesday at 12:00 pm.

The UF / IFAS Extension Miami-Dade County Sea Grant Extension office will post the topic and registration links on their social media pages ([Facebook](#) and [Instagram](#)).

To register go here <https://bit.ly/3eOSDXy>

The next webinars are:

Oct. 14 Best Practices for Catch & Release Fishing

Oct. 28 Studying Dolphins Up Close...and Why It Matters

The September episodes of "Conservation Conversations" Webinar Series have been posted to Youtube. They can be viewed at the following links:

Date	Topic
9/9/20	A Croc Talk - The Conservation of the American Crocodile at Turkey Point
9/23/20	The Grandeur of Goliath Groupers

For more information please contact azangroniz@ufl.edu

Computer model helps predict the future health of coral reefs

Siobhan Treacy

26 August 2020

Published on electronics360.globalspec.com

Researchers from UBC Okanagan, Flinders University and the Nova Blue Environment teamed up to create a computer model that can predict the future health of coral reefs and find out why some reefs are more resilient than others. The project will help conservationists find ways to prevent future coral losses.

Ecosystems with more diversity are more resilient and function better than less diverse ecosystems. This hypothesis is rarely tested with corals.

Recreating conditions found in real reefs is challenging. It requires knowing the size, timeframe of coral life and number of different samples or replicates, which is an unmanageable amount of data. This is where computer modeling comes in.



Source: Jean-Philippe Maréchal

A UBCO researcher is using years of compiled data to determine how virtual reef communities will respond to threats including cyclones and coral bleaching. Source: Jean-Philippe Maréchal

The team used an agent-based model to create a virtual scene where research teams can manipulate the species and types of disturbances. The model used data collected by researchers over a decade. It allowed the team to study the influence of these factors on the coral reef's resilience.

In the simulation, the coral colonies and algae grow, reproduce and die together. The models allow scientists to manipulate the initial diversity of corals to see how virtual reef communities respond to threats. These traits are the building blocks of a functioning ecosystem structure.

When running multiple simulations, the team identified combinations of diversity in coral reefs that make reefs resilient. This will help ecologists and conservationists design reef management and restoration strategies with predictions.

A paper on this research was published in eLife.

To contact the author of this article, email STreacy@globalspec.com

Items For Sale or Wanted

This space is available for members to sell or look for dive related items. Please email Terry (tkeyknee@yahoo.com) with inputs



Lockheed Martin Dive Club 2020 Activity Schedule

Date	Event	Contact	MDC/Barra cudas	Particip ants	Deposit Amount	Cut-off Date	Total Cost
3/5/20	Disney EPCOT DiveQuest	Marie Frank mariefrank2010@g mail.com	MDC	12	\$100	2/11/20	\$106.50
6/5/2020 cancelled	Blue Heron Bridge Night Dive, High Tide 9:16 PM (8:07 PM to 9:45 PM), Full Moon, 8:11 PM Sunset, Force-E Scuba Center	Michael Smetana michael.smetana@l mco.com 321-720-9694	MDC	No limit	\$0	-	\$0
6/12-14/20	Key Largo, Amoray Dive Center	Gwen Hagar hagar33805@yaho o.com	MDC	10	-	Full	\$338
7/10/2020 Cancelled	Blue Heron Bridge Day Dive, High Tide 12:55 PM	Chuck Brown cbrown4664@cfl.rr. com 407-267-6511	MDC	No limit	\$0	-	\$0
7/24/20	Blue Heron Bridge Day Dive, High Tide 12:01 PM	Chuck Brown cbrown4664@cfl.rr. com 407-267-6511	MDC	No limit	\$0	-	\$0
Submit Entries by 10/15/20 Results on 11/10/2020	Photo/Video Contest	Mike McCleskey mmccleskey@cfl.rr. com 407- 808-6453	MDC	No limit	\$0	10/15/20	\$0

Upcoming Activities

10/13 - General Meeting

11/10 - General Meeting