

NEWSLETTER



# San Jose Flipper Dippers

JULY 2019

GENERAL MEETINGS HELD  
3RD WEDNESDAY  
OF EACH MONTH  
WWW.SJFLIPPERDIPPERS.COM



*Social Hour & Great Raffle!*

At the July General Meeting we will be having a "Social Hour" to

give everyone the opportunity to share their stories of past dives and activities as well as discuss the many dives and events during the coming months.

You will also have time to purchase tickets to our monthly raffle for a chance to win some very interesting prizes! Hope to see YOU there! ☆

## Dipper Diving Accident in San Diego

*Barbara Davis & Carl Tuttle*

A group of 6 San Jose Flipper Dippers, including **Barbara** and **Greg Davis**, **Tom** and **Jackie Gardner**, **Carl Tuttle** and **Teresa Hanson**, went to San Diego June 15 and 16 for a 2-day scuba diving trip with Waterhorse Charters onboard their dive boat Humboldt. Saturday's 3-tank dive was to the Coronado Islands, off Mexico, and on Sunday we planned 2 dives at Wreck Alley, diving the wrecks of the Canadian warship HMCS Yukon and the former USCGC Cyane, last named the Ruby E (both not far off Mission Bay). We were also happy to acknowledge Tom and Jackie's 39th wedding anniversary on Saturday night, and Jackie's birthday was coming up on Tuesday, June 18th.

On Sunday morning Jackie suffered from pulmonary edema at the end of the 1st dive on the Yukon. Barbara was diving with her. They were doing their safety stop at 15 feet and when Jackie indicated she needed to get to the surface right away. Jackie still had air in her tank, but she indicated again an urgent need to surface so Barbara agreed they would go up. Jackie left for the surface and Barbara followed about a minute after. Visibility was low near the surface so they could not see each other during the last part of the ascent. Barbara surfaced to find Jackie floating at the surface face down and not moving. Barbara immediately flipped Jackie face up, and, finding her to be non-responsive, called for help as she towed Jackie to the stern of the boat. Charles, the boat's dive master/safety diver jumped in to remove Jackie's gear and get her on to the boat. Carl had already finished his dive and was back

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## Can you say, "New Car"?

In case you missed the June general meeting, **Barbara Davis** told the story of how she and **Greg** were driving to San Diego for the 2-day dive trip and their Toyota Prius had an engine malfunction near Bakersfield. They finally got AAA to tow the car to a shop - which was closing in a half-hour! It was more than a simple 'malfunction.' The

engine blew a hole in the block and ran out of oil. It's toast! Then they had to get a rental car to get to San Diego in time for the dive with all their dive gear. After the dive trip, returning to the scene of the crime, they were able to get the car donated to a charity organization and return home. The San Diego trip was quite the adventure, to say the least. ☆

## Refreshments Are Being Served



The following Dippers are asked to bring a tasty goodie to the next General Meeting: **Bill Shipman, John Snyder, Howard Timoney, Carl Tuttle** and **Bill Winter**. Don't forget you will receive a FREE raffle ticket for your donation! ☆

## What's Inside?



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## PRESIDENT'S CORNER



The month of June had the 2-day San Diego Coronados Islands and Wreck Alley dive. The Coronados Islands had nice weather, fairly decent ocean conditions, but there was hardly much to see. It's been fished out and an aggressive seaweed called Sargasso seems to have overtaken the kelp forest which has caused much of the life to have disappeared. Still a pleasant set of 3 dives.

As you have probably read, diving on the wreck Yukon, my wife **Jackie** was struck with a very serious case of Stress Related Pulmonary Edema. She was very lucky that the dive boat, Humboldt, had a very professional crew that was able to give her the emergency help she needed. Also without **Barb Davis** and **Carl Tuttle's** alertness to her distress she might have drowned. Thank You both!

This brings up the important issue of First Aid and Rescue Diving courses. I know that I have been remiss in keeping these skills up and probably some of you also need a refresher on these very important tools. A refresher course is most certainly called for and I believe that some of the club members may already be trying to set this up. I hope anyone who wants to participate can.

On a lighter note there is a Panther Beach Cleanup on July 7th, the weekend after the 4th. So Panther Beach will probably need lots of hands willing to help. Also a free breakfast afterwards at the Whale City Bakery. There is also a Breakwater beach dive on July 6.

There is a Second Saturday Scuba Dive on the 13th, and a possible Halibut Dive on the 27th if boats can be found.

So let's get out there and dive, but dive safely. – Your president **Tom**

## Diver's I.Q. Review Corner

This month we have Two (2) Questions and each is worth a chance to win FIVE (5) raffle tickets for your correct answer!

**Question No. 1:** Which statement is TRUE about Portuguese Man-of-War (Physalia physalis)?

- A. The Portuguese Man-of-War is a jellyfish.
- B. The Portuguese Man-of-War looks like a jellyfish, but is actually a siphonophore, which is a colonial organism comprised of zooids.

**Question No. 2:** Which statement is FALSE about box jellyfish (Chironex spp.)?



- A. Box jellyfish are most often found in quiet, protected and shallow areas.
- B. Death may result within minutes of envenomation.
- C. Box jellyfish have eyes and may be able to circumvent objects.
- D. Box jellyfish are restricted to cold waters.

Send your answer by email to **Barbara Davis** at [bjdscuba123@gmail.com](mailto:bjdscuba123@gmail.com). All attendees at the next general meeting with the correct answers will be included in a drawing for 5 free raffle tickets per question. Good Luck!



## San Jose Flipper Dippers

P.O. Box 7421, San Jose, CA 95150  
[www.SJFlipperDippers.com](http://www.SJFlipperDippers.com)

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## RAFFLE NEWS

### Leigh Hartley Tuttle

The June raffle was full of surprises and donations. Listening to the report on the San Diego dive trip had me fascinated as well as concerned.

On the table were lots of dive related items. **Barbara Zweg** donated her dry suit thermal undergarments as well as a vest. Unfortunately, while a few tried it on, it didn't fit. **Carl Tuttle** suggested Craig's List or E-Bay.

**Steve Richards** was MIA, however, he donated a bunch of good diving stuff. A giant towel and sunscreen which **Barbara Davis** nailed, a yellow float bag which **Mike Chalup** picked up as well as a dive computer. Barbara also nailed Steve's diving gloves.

A large checkers game was taken by **Manuel Mangrobang** as well as the fins Steve donated. Manuel also scored the bottle of Red Tail Chardonnay, brought by Carl.

**Brian Zaugg** lucked out with a snorkel from Steve and some tasty honey **Larry Ankuda** brought. Larry also had donated a stained glass diving figure picked up by Barbara. **Howard Timoney** won Steve's booties. Barbara

Davis donated a fin holder which Brian also picked up. What an evening!

**THE DOOR PRIZE:** The door prize is now \$10 as **Leigh Tuttle** drew **Bill Shipman's** name from the door prize can! He was at the meeting and collected the \$10. Remember, YOU must be in attendance to be eligible to win.

**THIS MONTH'S RAFFLE:** For this month we're back to our rotation for donations. Each month we pick names from the Club's Roster for members to bring a donation for the Raffle Table. So this month the following are asked to bring a dive-related gift: **Greg Davis, Kelly Drake, Tom Gardner, Jackie Gardner, Bob Gault, Dhaval Giani** and **Teresa Hanson**. If you live out of the area or can't attend the General Meeting, please contact, **Leigh Hartley Tuttle** (1-408-829-3660, tutcomms@sbcglobal.net) to send in a check. She will pick up a great raffle donation in your name. The raffle has always been an important part of our General Meetings. Please do your part as a Club member and provide a raffle donation when your name comes up. Thank you! ☆

## MEMBERSHIP

### Teresa Hanson

There are some prospective members looking to dive and we look forward to diving with you! Prospectives must have a Club jacket either in possession or on order to be voted into the Club. See the Club's Website (Membership Requirements) for information and where to purchase. Contact **Teresa** for additional information on any and all Membership Requirements.

A FREE raffle ticket will be given to the following Dippers who have a birthday this month: **Barbara Davis, Scott Schimberg, Michelle Schimberg** and **Carl Tuttle**. Happy birthday to all!

And we don't have these Dippers' birthday months, so you're missing out on a FREE raffle ticket: **Grace Chi, Giani Dhaval** and **Manuel Mangrobang**. So let me know your birth month so you can get a free raffle ticket when your month comes up. ☆

## 2019 TROPHY STANDINGS

Each month the person whose name appears in the newsletter will receive **3 FREE RAFFLE TICKETS** at the General Meeting — if in attendance. If you hold a trophy several months in succession, you will receive **3 FREE** tickets each month until someone beats your catch.

Contact **John Snyder** at +1-408-202-5196, email: john.fishhunter@gmail.com, **WITHIN 1 WEEK** and give him all the proper info (include the name of one Club-member witness). ☆

## SKIN DIVING

□ OPEN CATEGORIES □

**Lingcod, Cabezon, Sheephead, Lobster, Halibut, White Sea Bass, Striped Bass**

## SCUBA

□ OPEN CATEGORIES □

**Cabazon, Lingcod, Halibut, Sheephead, Lobster**

Good luck to all!



## Plastic bits foul Monterey waters

Paul Rogers Bay Area News Group

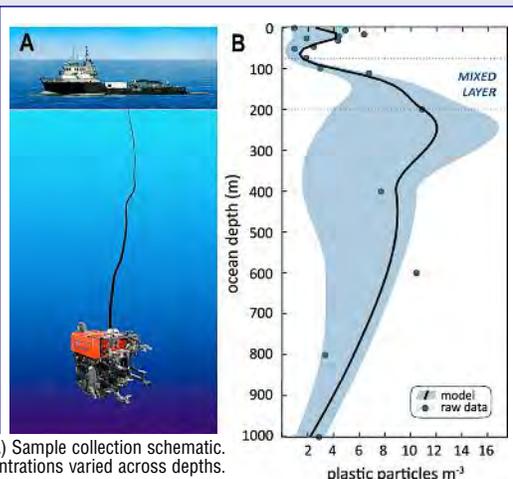
Monterey Bay has a reputation as one of America's most pristine ocean environments: It's a national marine sanctuary and far away from heavy industry.

But a groundbreaking study has found levels of plastic pollution in the water similar to those found in the Great Pacific Garbage Patch. The pollution is made up of trillions of tiny bits of debris, roughly the size of a grain of rice or smaller, floating from near the surface to thousands of feet underwater. The particles are being consumed by small ocean animals, the study found.

"It's incredibly sobering," said Kyle Van Houtan, chief scientist at the Monterey Bay Aquarium. "This is not a place you expect to find a lot of plastic, a lot of toxics," he said. "What it shows is the pervasive effect of the human ability to transform the oceans into a nonnatural state, even in a place where we have a lot of protections."

The study, a joint effort by the Monterey Bay Aquarium Research Institute and Monterey Bay Aquarium, is the first to document how plastic pollution in the ocean is widespread and exists not just at the surface but in deep waters as well. The report was published in the journal *Scientific Reports*.

"Our findings buttress a growing body of scientific evidence pointing to the waters and animals of the deep sea, Earth's largest habitat, as the biggest repository of small plastic debris," said Anela Choy, lead author of the paper. ☆



(A) Sample collection schematic.  
(B) Microplastic concentrations varied across depths.

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onboard when all the commotion began. He and another diver pulled her onto the boat and quickly realized that she was not breathing.

Dive master Charles, a trained EMT and ex-Navy, was back on the boat and started administering emergency procedures, CPR, and oxygen, as Carl cut off her wetsuit and monitored the O2. After what seemed forever, she started coughing and screaming and she was also making some incoherent responses. By this time Tom was the last diver to finish his dive and climbed up on the boat. Both the Coast Guard and San Diego Lifeguards boats arrived to offer assistance. The Coast Guard EMT came aboard and told Carl to switch O2 tanks as soon as the first one went empty. Before that happened, we got Jackie to sit up and then the rescue crew got her on the Coast Guard boat which took her and Tom to the dock, where they were then transported to the hospital. The Coast Guard also took her BCD, regulator, computer and tank in case analysis of the equipment was needed.

The 2nd dive on the Ruby E was canceled and the boat returned to the dock while we collected Tom and Jackie's gear and belongings. Barbara and Greg went to the hospital to get Tom so he could get out of his wetsuit and into some dry cloths. They found him in some sweatpants and a shirt the hospital staff had given him. The emergency doctor was well versed in pulmonary edema and knew exactly what was going on. The hospital doctors did a number of heart tests - in addition to a CAT scan, ultra sound, chest x-rays,

and MRI to make sure there weren't any other issues. Jackie was kept overnight in the ER and she called everyone later in the evening to let us know that she was going to be ok and to thank everyone for taking quick action; especially "Barbara and Charles who saved my life!" We were all so glad to hear that Jackie was OK!

Jackie was released from the hospital on Tuesday afternoon and she and Tom drove safely home on Wednesday. (They had been planning to stay in San Diego until Tuesday but not like this!)

Jackie might not be able to dive cold water at depth any more. She has had problems diving in cold water in the past where she had trouble breathing, but she thought it was asthma or too much excitement and just tried to calm herself down. These situations always resolved on their

own. But now we know it was an underlying medical condition. She plans to meet with her local doctors and contact DAN (Divers Alert Network) to review everything that happened to determine her future diving activities.

On that Tuesday morning she texted everyone to say, "I am one lucky person. I guess it was not my time to go."

**Ed Note:** Pulmonary edema can affect anyone who dives at depth in cold waters. To find out more, here are two links to Immersion Pulmonary Edema and how it affects scuba divers:

- [www.scubaboard.com/category-articles/scuba-training/519-diving-and-immersion-pulmonary-edema/](http://www.scubaboard.com/category-articles/scuba-training/519-diving-and-immersion-pulmonary-edema/)
- [www.diversalertnetwork.org/health/heart/immersion-pulmonary-edema](http://www.diversalertnetwork.org/health/heart/immersion-pulmonary-edema) ☆



Jackie and Tom resting after her frightening ordeal.

## Wrecked in the Galápagos

During the last day of May, the liveaboard vessel, Majestic Explorer (formerly the MN Galápagos Majestic) and part of the Explorer Ventures fleet, sank near the island of Santiago, between Isla Isabella and Isla Santa Crus, after running aground not far from where the Galápagos Aggressor I ran aground in 2013. The hull was breached in the bow area. All 26 passengers and crew were rescued before the ship capsized and sank with 2 tons of



fuel on board. No injuries were reported. If you have a booking you should contact Explorer Ventures immediately. [info@explorerventures.com](mailto:info@explorerventures.com). ☆

## Scuba Island For Sale

Fancy buying your own Mediterranean island with access to good scuba diving on its doorstep? Some aristocratic Italian families are struggling to maintain a lot of property that they've had in their possession for generations. That means bargains are to be had. For less than the price of a Manhattan loft apartment or a Tuscan villa, Isola delle Femina, close by the coast of Sicily, a place with strong connections to New York, is for sale for \$1.1 million. Could be a bargain. ☆



# San Diego Weekend Dive

The Humboldt dive boat awaits the Dippers.



**Carl Tuttle** took an extra day to visit the Weedy Seadragon and Seahorse exhibit at Birch Aquarium at Scripps Institution of Oceanography.



Above, **Jackie Gardner** and **Teresa Hanson** are ready for some underwater photography at the Coronado Islands.

## Corals survive acidified ocean conditions, though skeletons are less dense



A two-year experiment led by University of California Santa Cruz (UCSC) shows that some coral species may be able to survive levels of ocean acidification more severe than those expected later this century. However, the conditions made the density in their skeletons lower than usual.

The findings of the study was published in the Proceedings of the Royal Society B journal. The research took place along the Caribbean coastline of Yucatan Peninsula in Mexico, where the water discharging from submarine springs has lower pH than the surrounding seawater, leading to reduced availability of the carbonate ions that corals need to build up their skeletons.

Three genetically identical species of coral fragments were transplanted to a site affected by the springs, and to another site that was not affected. After two years, it was found that the slow-growing species—massive starlet coral (*Siderastrea sidereal*) and mustard hill coral (*Porites astreoides*)—fared better than the fast-growing finger coral (*Porites porites*).

Coauthor Donald Potts, professor of ecology and evolutionary biology at UCSC, said, “The slow-growing, dome-shaped corals tend to be more tolerant of extreme conditions, and they are important in building up the permanent structure of the reef.”

“The good news is the corals can survive and deposit calcium carbonate, but the density of their skeletons

is reduced, which means the framework of the reef would be less robust and might be more susceptible to storm damage and bioerosion,” said

A d i n a Paytan, a research professor at U C S C ' s Institute of M a r i n e Sciences and corresponding author of the paper.

Describing herself as cautiously optimistic, she added, “they have the potential to persist with ocean acidification, but it costs them energy to cope with it, so we have to do all we can to reduce other stressors, such as nutrient pollution and sedimentation.” ❖

## Antidote found for venomous box jellyfish

Australian and Chinese scientists have identified an antidote to the



venom of the much-feared box jellyfish (*Chironex fleckeri*) that, in mice at least, suppresses the extreme pain and tissue death that usually follow a sting.

The researchers, led by Greg Neely from Australia's University of New South Wales, suggest their technique also could be applied to toxins from other animals – but just dealing with the box jellyfish would be a great start.

The species is one of the most venomous in the world: stings are incredibly painful, and severe exposure can lead to death within minutes.

Until now, the mechanism behind this rapid and dramatic response has been unclear, and hence many current treatments have limited effect. None is able to directly target pain or local tissue death – the most common clinical outcomes of venom exposure.

A major obstacle to developing new treatments has been the limited molecular understanding of venom action.

Now, Neely and colleagues have uncovered the cellular pathways activated by toxin exposure.

Writing in the journal *Nature Communications*, they describe performing a genome-wide CRISPR screen to identify genes required for host cell death.

They identified several genes essential to venom cell toxicity, including those involved in cholesterol biosynthesis, and showed that interfering with them increased resistance to box jellyfish toxin.

In addition, they discovered that administering of a compound that modulates cholesterol and has been used in humans to treat Niemann-Pick Disease (a condition that affects the body's ability to metabolize fat) reduced pain and blocked tissue death in mice when administered up to 15 minutes after exposure to the toxin.

“In summary, our unbiased screening approach has identified essential genes and cellular pathways involved in the jellyfish venom mechanisms of triggering cell death and lead to the identification of novel venom antidotes capable of suppressing pain and tissue destruction associated with envenoming,” the researchers write.

“These results highlight the power of whole genome CRISPR screening to investigate venom mechanisms of action and to rapidly identify new medicines.” ❖

# DIVE & ACTIVITY CALENDAR

MANUEL MANGROBANG

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JULY 2019

## SATURDAY, JULY 6 NO LICENSE FISHING DAY

## SATURDAY, JULY 6 BREAKWATER DIVE

Coordinator: **Teresa Hanson**, 408-966-6433, [teresa33b@gmail.com](mailto:teresa33b@gmail.com). Meet in the upper parking lot at Breakwater at 8 A.M. Bring 2 tanks and plan for 2 dives. Test out your UW photography skills. Please RSVP in case the dive gets canceled or moved due to weather or surf conditions.

## SUNDAY, JULY 7 PANTHER BEACH CLEAN UP

Coordinator: **Hunter Reid**, 408-871-8836. Meet at 9:00 A.M. Parking on the left just past mile marker 26.4 on Hwy 1 north of Santa Cruz, just before the town of Davenport. The Club will buy lunch at the Whale City Bakery Bar & Grill in Davenport, for all who attend.

## WEDNESDAY, JULY 10 BUSINESS MEETING 7:30 PM

Meeting will be held at **Teresa Hanson's** home (408-966-6433, [teresa33b@gmail.com](mailto:teresa33b@gmail.com)). All mem-

bers are invited to attend. This is a good time to share your new ideas for dives and entertainment. Refreshments to share are welcome. **Warm weather brings out the BBQ, too! So be here by 6:30 with your food if you wish to BBQ.**

## SATURDAY, JULY 13 SECOND SATURDAY SCUBA (S3): BARBARA'S SECRET SPOT

Coordinator: **Barbara Davis**, 408-656-6390, [bjdscuba123@gmail.com](mailto:bjdscuba123@gmail.com). Details: Barbara is coordinating this S3 dive at a 'Secret Spot.' Meet at 8:00 A.M. Bring 2 tanks and plan on making a 2nd dive under the water. As this dive is before the General Meeting, you'll need to contact Barbara to get the location and directions.

## SATURDAY, JULY 20 NO SCHEDULED DIVE

**SATURDAY, JULY 27  
HALIBUT DIVE**  
Coordinator Wanted! – Boats Too!

## GENERAL MEETING WEDNESDAY, July 17th

7:30 PM at the Knights of Columbus Santa Maria Hall  
2211 Shamrock Dr., Campbell.

**Celebrate 55 Years of the  
San Jose Flipper Dippers  
at our General Meeting.**

### Entertainment:

- Social Hour
- Great Raffle

**THE DOOR PRIZE IS \$10!  
YOU must be present to win!**

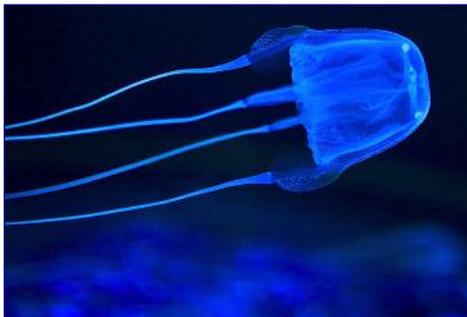
### UPCOMING IN AUGUST

07 Business Meeting  
10 Elkhorn Slough Kayak Trip  
**21 General Meeting**  
22-25 The Monterey Shootout  
31 No License Fishing Day



## What Eats Box Jellyfish?

Box jellyfish are poisonous, but not dangerous, to consume—at least for some marine predators. Sea animals are very intelligent as they start eat-



ing the bizarre meal from its head first followed by the delicate tentacles. A leatherback sea turtle is one such ani-

mal that often eats box jellyfish very carefully. Box jellyfish are pelagic macroinvertebrates with only few potential predators that may be less poisonous but they are far bigger than the jellies. Prominent among the predators are ocean sunfishes (Molidae), sharks, tunas, green turtles, and molas. ★

## Labor Day Weekend Aug 29–Sept 1

Dippers **Carl Tuttle** and **Tom Gardner** each have campsite reservations for the Labor Day Weekend at Pfeiffer Big Sur State Park in Big Sur (26 miles south of Carmel on Highway 1). They both indicate that space is available to share in their sites. They plan on find-



**NOTE:** All certified divers are encouraged to attend San Jose Flipper Dippers' dives.

Non-Club members will be required to show proof of certification to the dive coordinator prior to entering the water with our group. Please sign up for dives at the General Meeting or call the coordinator. This is needed in case of cancellation or changes.



# San Jose Flipper Dippers

c/o 1108 Sunset Landing  
Rio Vista, CA 94571-5148



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## 2019 COMING EVENTS

July 6	No License Fishing Day
July 7	Panther Beach Clean Up
July 10	Business Meeting
July 13	Second Saturday SCUBA
July 17	☛ General Meeting
July 27	Halibut Dive
Aug 7	Business Meeting
Aug 10	Elkhorn Slough Kayak Trip
Aug 21	☛ General Meeting
Aug 22-25	The Monterey Shootout
Aug 31	No License Fishing Day
Aug 30-Sept 2	Big Sur - Labor Day Weekend
Sept 4	Business Meeting
Sept 8-10	Channel Islands Vaqueros Del Mar
Sept 14	Second Saturday SCUBA
Sept 18	☛ General Meeting
Sept 21	International Coastal Cleanup Day
Sept 28	Lobster Season Opens
Oct 2	Business Meeting
Oct 12	Second Saturday SCUBA
Oct 16	☛ General Meeting
Oct 19	Wine Tasting & Picnic

### **The Halibut Are In!**



Reports are in that squid are in and the halibut too! Keep your spears crossed that this year will be a good one. We're looking for a boat for the July 27 halibut dive. ★

Watch This Space - Much More To Come!  
See the Club's Website for the full Calendar



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