

SEA DIVERS

SEPTEMBER 1988

SEPTEMBER 6 *** GENERAL MEETING BAXTER'S 7 PM.

SEPTEMBER 14 ***** EXECUTIVE MEETING BAXTER'S 7 PM.

SEPTEMBER 16/17 ***** BOAT DIVE, RICHARDSON'S OR
WILSON'S ROCKS/ SAN MIGUEL

OCTOBER 1988

OCTOBER 2 *** BEACH DIVE, LEO CARRILLO

OCTOBER 4 *** GENERAL MEETING BAXTER'S 7 PM.

OCTOBER 12 ***** EXECUTIVE MEETING BAXTER'S 7 PM.

OCTOBER 22 ***** ANNUAL HALLOWEEN PARTY

OCTOBER 30 ***** BOAT DIVE, SAN NICOLAS ISLAND

NOVEMBER 1988

NOVEMBER 1 *** GENERAL MEETING BAXTER'S 7 PM.

NOVEMBER 6 ***** BEACH DIVE, WHITES POINT/ ISSEI COVE

NOVEMBER 9 ***** EXECUTIVE MEETING BAXTER'S 7 PM.

General Meetings are held the first Tuesday of every month. A no host social hour precedes the meeting from 6 PM to 7 PM and a feature presentation follows the business meeting. The meeting is held at Baxter's in the Manhattan Beach Mall. Executive Meetings are held the second Wednesday of every month also at Baxter's

SEPTEMBER 1988						
SUN	MON	TUE	WED	THR	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER 1988						
SUN	MON	TUE	WED	THR	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER 1988						
SUN	MON	TUE	WED	THR	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DIVERS DIRECTORY



<u>POSITION</u>	<u>NAME</u>	<u>DAY PHONE</u>	<u>EVE PHONE</u>
PRESIDENT	Allen Parker	536-2614	370-1657
TREASURER	Kathi McNally	812-2385	370-1657
SEA REPRESENTATIVE	Vacant		
SECRETARY	Sandi Anderson	373-5430	373-5430
DIVING OFFICER	Ken Sizemore	410-3932	371-2636
BOAT DIVE CHAIRMAN	Allen Parker	536-2614	370-1657
BOAT DIVE RESERVATIONIST	Micheal Borden	535-0883	372-7764
BEACH DIVE CHAIRMAN	Billy Garret	217-6470	324-8424
PROGRAM CHAIRMAN	Dicie Sizemore	932-2473	371-2636
MEMBERSHIP CHAIRMAN	Kathi McNally	812-2385	370-1657
NEWSLETTER EDITOR	Patrick Minor	536-3005	378-9350
HOSPITALITY CHAIRMAN	Robin Grant	823-2552	823-2552
LONG RANGE PLANNING	Lani Garret	536-2344	324-8424

EASTERN CARIBBEAN presented by PETER LANDECKER in September

One of our most avid traveler-diver-photographers, Peter Landecker, recently journeyed to several exotic resort islands in the clear waters of the Eastern Caribbean. Fortunately for us he was able to capture some of the above and below water beauty of this area.

The "Caribbean Explorer" was his live-aboard boat/home for his stay and he visited the islands of St. Maarten, Saba, St. Barts, Nevis, and St. Kitts. Since I've also been to these islands, I'm most anxious to see his presentation; and I know you'll enjoy it as well.

Don't miss the September 6th meeting at Baxter's. See you there!!

Dicie Sizemore
Program Chairman

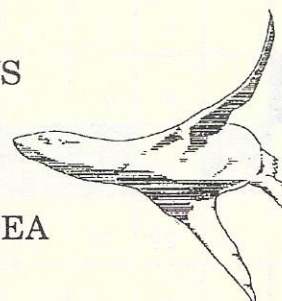
QUOTES OF THE MONTH

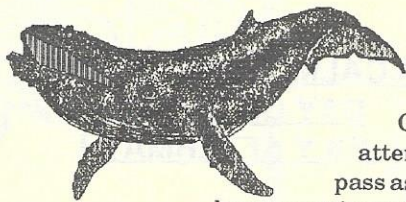
"YOUR FISH IS DROWNING"

"OUR DIVE INSTRUCTOR TOLD US HE WOULD TEACH US THE BASICS OF DIVING ON THE LAST DAY OF THE COURSE"

"WHY ARE THE GUYS ON THE FISHING BARGE WAVING AT US LIKE THAT - DOES IT MEAN THEY ALL CAUGHT ONE FISH EACH SO FAR?"

"MY FARMER JOHN IS SO LOOSE, ITS LIKE SWIMMING IN A SEA ANCHOR."





FROM THE EXECUTIVE OFFICE

Club activities recently included the reunion eat-in at Don and Cathy Mueller's, which was well attended by both past and present club members - some of us are old enough yet active enough to pass as both past and present members! I hope we convinced some of the past members to rejoin and become active again. Our single-day dive on 30 July was to say the least, an interesting day out - elsewhere in the newsletter is a write-up on the festivities. We have two events (as of writing) in the near future - the trip to the hyperbaric chamber at the Isthmus (14 August) and the single day (21 August) on the Wild Wave to the Channel Islands out of Ventura (yes Ventura).

In the boat dive arena, both the August single-day and the September two-day are full with paid waiting lists. The club is taking a firmer stance on our policy regarding bookings and dive boat payments, beginning with the October dive. Slightly modified dive boat policies will be discussed at the next General Meeting and published in the October Newsletter. Also beginning with the October dive our new dive boat reservationist will be Micheal Borden. His phone number and address are shown in the Diver's Directory and on the Boat Dive Reservation form. I would like to thank Mike McLaughlin for his support as the Boat Dive Reservationist, and wish him well in his new position at Honeywell - Mike is staying with the club, so maybe sometime in the future we can persuade him to "volunteer" for another executive assignment!

Note that we have beach dives planned for Aliso Creek, South Laguna on 2 October and for White Point on 6 November. Details of the Aliso Creek dive will be available at the September General Meeting and in the Newsletter.

The Halloween Bash - see flyer elsewhere - will be priced at \$12 before the event and \$15 at the door, on 22 October and will include prizes for Best Costume; Best Dive Related Costume; Craziest; Scariest; and Best Couple so get busy. Other drawings and prizes will be offered along with lots of food and liquid brain damage materials.

For those of you interested, it is none too early to begin thinking of volunteering for or suggesting to others that they may want to be considered as a club officer for 1989! The installation party is to be held at Robin Grant's, 30 December - more information later.

Oh! - remember to write to the four Congressmen listed in last month's newsletter on the possible closure of San Nicolas Island

Last but not least we are anticipating that the September General Meeting will be the last at Baxter's which is just too crowded for the sixty or so attendees. A special Executive Meeting is being held 29 August to select a new venue which we hope to announce at the September General Meeting on the 6th.

The sport is growing fast, and we want to grow with it - support your club, dive safe and have fun.

Correction:

The September two day dive club membership price is \$154 not \$144 as shown in the August newsletter.

THE JUNE TWO DAY AFTERMATH - A BEGGFUL OF WET AND WILD

The first divers are aboard the "WILD WAVE" about 8:00 PM Saturday 18 June. By 10:00 PM all are aboard, and we have a light load - several no shows! Looking around the assembled cast of characters says this ought to be fun and not only that the ocean is flat. Begg Rock for sure! John fires up the big V-12s and we are on our way with the last shots of tequila and butterscotch schnapps just as we round the San Pedro light. The ocean is flat and we cruise along so as to arrive at Begg around 7:00 AM. So far so good. There is Begg Rock and there we are, sky overcast a slight swell and almost no current. But wait the water looks kind of ugly, visibility may not be the best. Greg (our deck hand) makes a quick bump dive and the news is not good. A plankton bloom 30-50 feet thick makes diving difficult with almost no visibility even at

80-90 feet. We decide to leave and try again the next day.

The plankton bloom bothers us all day at San Nicolas. We made six or was it seven, dives and about half were impacted by the plankton. However, the game slowly came on board with some good size sheephead and other varieties, and a few red abalone. On one dive we were "escorted" by pods of sea lions up to 50 in number just thrashing all around our divers. The pods included one or more of the huge bulls probably weighing upwards of 500-600 pounds - a fantastic sight. We dived both sides of the island which is only possible on days when the ocean is calm - and boy was it calm!

ON our next to last dive Ken Sizemore, Kathi Bennett

See June Dive next page

June Dive

and Micheal Borden found an anchor, chain, and associated rope (long), and with the help of myself, Kevin Liu and others brought the whole mess on board and then bartered it to the "Wild Wave" for three free dive trips! We anchored for the evening and a few divers including myself hit the water one more time. After 20 minutes I returned to the boat stating "There ain't shit out there!" to be followed within a few minutes by Greg our friendly deck person with a bagful of large red abalone!!! Ah well.

Party time into the wine and beer etc., John is barbecuing the steaks, Hanna is baking the potatoes, making salad, boiling corn etc. etc..

Kathi McNally breaks out the bottles of wine and opens one of each. I pick up one bottle to pour – my first honest, and the label slips off and I drop this beauty and the skittles tourney is underway. Fortunately not too much was spilled but Mike Borden's pants looked like he had a nasty accident (more later). I think we ate before the water bombing started, courtesy of the crew. From that point on things deteriorated and wet folks were all over the boat. I think it was Kathy Dacey that spilled wine on Mike Borden's pants for a second time – his last pair! A few stories; a few jokes; some 90 proof schnapps; Ken Sizemore playing doctor with Kathy Dacey – her hand only (!) punctured probably by a scorpion fish, making for a very painful few hours, and off to bunksville we go – all except Mike B. and Hanna who talk until 2–3 AM!?

About 5:20 AM the engines fire up the anchor raises and we are on our way back to Begg Rock – today for sure! I go up on deck, and pass a few fellow party animals trying to wake up and look good (to no avail). By the time we reach Begg most are suited up and ready to go. Dicie S. and Kathi B. look like they really had a good time and made utterances of never again!! If only I had a nickel for everytime...

Vann Parker (not my brother) makes the bump dive (Greg didn't even volunteer this time) and pro-

nounces 8 feet visibility with a light. If Vann says it's bad it's really bad! Santa Barbara here we come.

Visibility at Santa Barbara is much better and we make four dives. The first is on 7-Fathom Reef which is actually at about 80–90 feet. Misnomer to say the least! A beautiful dive though with the purple coral – high current caused a few problems, Doc Jorgensen came up about one quarter mile behind the boat! The next dive was for abalones except after swimming all over hell most divers only found one or two – no sweat we go to another spot and they are all over the place – limits in five to ten minutes. Finally the last dive – this time to explore a tunnel at 60 feet. Just as promised and directed by John there is the tunnel – one problem though, it's at 100 feet. A quick check and we may be pushing bottom time so we ascend to shallower pastures. Several of us hold at 10 feet just to be sure.

We are heading home, weather is great, ocean is still flat even glassy, and there is plenty of eating, drinking and socializing to do on the trip back. Everybody had a great time, getting wet both on and off the boat, getting a little wild and just generally enjoying the time off, especially Monday.

Oh, almost forgot – Kathy Dacey won the half price off the trip prize, Vann Parker (not my father either) won both the sign-in prize and the game prize for the second time in a row and poor Mike Borden won the booby prize for posing for pictures with the wrong (and smaller) fish – just wasn't his trip! Runners up for the booby prize were Vann Parker (again) for volunteering to bump dive Begg Rock; myself for using the binoculars backwards (small world) and Vann Parker (again) for almost entering the water without air in his tank and following that by almost entering the water with no weight belt. Vann is hereby banned from TRW divers for the next 16 years!! We had fun.

P.S. It was good to see Dan and Don Mueller, Doc Jorgensen and Kevin Liu on one of our boats again.

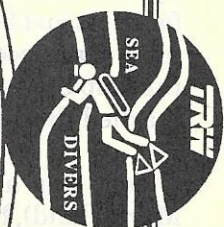
A CALM, QUIET, SUNNY DAY OF DIVING JULY AFTERMATH

To overnight or not to overnight on the Bold Contender was the first decision for divers signed-up for the 30 July wreck and Palos Verdes dive. We did not stay, the next morning looking at those who stayed I think we made the right choice - what were you guys up to....? Never-the-less at 6:45 AM or so, after waiting for possible stragglers, we departed for the wreck of the Palawan off Torrance beach. Once more the ocean is calm. Information from the Wreck Divers through our own Larry A. told us that the Palawan had a marker buoy amidships - which I also remembered seeing while boating in the area - so we should have no problem locating the spot. Skipper/owner Jerry Shapiro also has LORAN numbers just in case.

We arrived in the area only to find that the marker buoy had been replaced with a much larger marker - the fishing barge Isle of Redondo. After making several passes we determined - as best we could - that the barge was positioned about one third of the way along the Palawan leaving about 200–250 feet of the bow end of the ship to the north. We decided that anchoring in 120 feet of water would not give us enough swing to miss the barge - not to mention the yells, signs and general disorder amongst the fisherman on board the barge. (Note: Fishing folklore prohibits any reasonable or rational approach to anyone or anything that might spoil the chance of a bite. In fact, as we were about to leave, a shark fin was spotted in the immediate area, and it was summarized that it was a radio controlled mini-jaws operated by the Isle of Redondo!)

Next stop the wreck of the Avalon for what was our feature dive. With additional line-ups, and better LORAN numbers than last year, we found the wreck first time. The visibility was 20–30 feet (before it got

12th ANNUAL



TRW SEA DIVERS

TIME:

OCTOBER 22ND
8:00PM - 12:00

WHERE:

REBEKAH HALL,
406 E. GRAND AVE
EL SEGUNDO

PRICE:

\$12.00 - IN ADVANCE
\$15.00 - AT THE DOOR

(INCLUDES REFRESHMENTS AND
ALL LIQUIDS)



FOR INFORMATION CALL ALLEN PARKER (213) 370-1657

•FUN FOR EVERYONE•

•LIVE MUSIC•

•DANCING•

•GOBLIN CONTEST•

•DOOR PRIZES•

THE 12th ANNUAL Masquerade Ball

JULY DIVE

stirred up) and was one of my best dives this year. The straight classical bow is still intact and very impressive, but for me the stern section - which a lot of divers missed - was the piece-de-resistance. The jib (crane arm) from the crane leading off to the crane itself with tracks pointing to the surface (see the July Newsletter), the stern and the beautiful growth on all of it were just spectacular. My dive buddy Mike B. also succeeded in spearing two good sized perch with one shot inside the stern section!

Back on the boat the fun begins. First Mike somehow loses one of his two fish overboard. Several people try to save it from drowning with zero success - finally its owner dived in, snorkeled about 100 yards and retrieved it just before final drowning. Time to pull the anchor, also with zero success - apparently we are trying to raise the Avalon, and we all agree its not worth the effort as she is certainly not very seaworthy. John D. (aka Captain Crazy) and myself make another dive and free the anchor, floating it off the bottom with Johns 100 pound lift bag. With our task accomplished we headed off towards Palos Verdes Point of Dominator fame. We anchored in about 45-50 feet of water where the kelp bed "used to be". By now the sun is out and it is just a super day so nice in fact that just being on the boat with or without diving in, more than acceptable. After entering the water we found the kelp bed is very much there and very thick, it hasn't reached the surface yet since the storms.

Next stop a spot right off Marineland (or what was Marineland), but before diving we decided to take a vote on attempting a dive on the wreck of the Olympic (Star of France). As the Olympic is a deep dive, and at the wrong end of the diving sequence, bottom time for each diver has to be carefully checked. As a result only two divers entered the water at Marineland, however... the plot thickens. Our two divers are both relatively inexperienced and after a long dive they surfaced about 200 yards from the boat and began swimming cross current back to the boat. After swimming the 200 yards they found themselves nearly 100 yards behind the boat which is now way up-current. One diver became exhausted, hyperventilated and then shortly afterwards the second diver ingested water through his snorkel and nearly panicked. Ken S. entered the water first followed by myself with the current line. Greg H. and John D. followed a few seconds later. With both divers stabilized, we were all pulled back to the boat courtesy of our buddies. Both divers were non-the-worse for their experience within minutes of reaching the boat, in fact both immediately dived into the barbecued ribs and chicken. Same lesson folks, know your limits and always, always watch the current and dive accordingly - if in doubt, consult with the divemaster.

On to the Olympic! We followed the usual process - successful first attempt in April - line up the right hand

tower of the Vincent Thomas bridge over the support building to the left of the San Pedro light, wait for 95 feet (or so) of water and bingo up pops the Olympic on the Depth finder chart. But we have a problem - the LORAN says we are way off, can't be, these are the numbers skipper Jerry S. wrote down in April! We decided to ignore the LORAN and sure enough up pops what we believe to be the wreck. Ken S. and Kathy B. entered the water to make the check dive. Somehow (?) Ken lost his mask and snorkel which sank into the depths - this folks is our diving officer and one of the trip divemasters! Armed with a new mask their dive began - no wreck, at least not where the anchor is. As we pulled the anchor we suddenly realized (from the depth finder chart) that the wreck is under and slightly behind the boat - too late, we drifted-off and had to sweep again. Turning the LORAN off, resetting and on again cleared up the numbers and we were now reading as expected... high science stuff this wreck diving.

We eventually relocated the wreck and anchored again. John D. volunteers to make the check dive going down the anchor line then left - no signal cup! Greg H. makes a second check dive, down the anchor line then right and sure enough up comes the signal cup. John D. returned to the boat and somehow dropped his \$120 dive light into 100 feet of murky water, as he was climbing onto the dive step. John makes a check of his trusty Edge and goes after his favorite light. About 10 minutes later John D. surfaces having not found his light but having found the Olympic - win some lose some!

I began my dive with Mike B. and Leon T., following Greg's instructions and we find the wreck immediately. By now evening has set in visibility is 5-10 feet and it is diving at 95 feet with lights and touch. The wreck is however, as always eerie and fascinating perhaps even more so in the prevailing conditions. About 10 minutes into the dive Mike B's light and mine almost simultaneously spot John's errant \$120 blue-beauty, just laying on the sand. We terminated our dive shortly afterwards, returned to the boat and stuffed the light into John D.'s bucket. Boy did his eyes light-up (no pun) when he saw it!! At the completion of the dive we pulled anchor and made the short run back to San Pedro.

This was definitely not a dull and boring day - especially for some of us! As usual the all inclusive food was great and lots of it - the ribs were huge. The companionship was a big part of the day, and I believe everyone enjoyed what turned out to be a nice, calm, quiet, sunny day of diving - or was it, quiet that is?



SINGLE-DAY LOBSTER DIVE

30 OCTOBER 1988

SAN NICOLAS

WILD WAVE

MEMBERS \$66

(INCLUDES FOOD AND AIR)

NON-MEMBERS \$73

Bug time! How time flies when you are having fun - seems like only yesterday LOBSTER season closed, but here we are again signing up for our first dive of this LOBSTER season. Despite all the press, rumors, lies and innuendos we are anticipating making San Nicolas Island on the WILD WAVE fast and under cover of darkness so that we can make an early morning night dive. Remember to pack your dive lights, chem lights and face black for camouflage.

Assuming our night time surprise attack is successful we will prowl the SAN NICOLAS environs for the remainder of the day, making four or five dives for LOBSTER, ABALONE, and FISH. Should we be attacked by either the Navy and/or Fish and Wildlife we will assess our opponents equipment - anything from a bullhorn from the beach up to a fully equipped destroyer - and decide whether the WILD WAVE's big V-12's can do the job. You may have noticed the WILD WAVE flies the Skull and Crossbones pennant may turn out to be appropriate!

Diving this time of year is usually comfortable at SAN NICOLAS, but beginners should discuss diving conditions with the divemaster at each dive spot, as ocean conditions are quite variable.

This trip usually fills fast, and with this years added "excitement" we anticipate even greater interest. Call Micheal (Borden) at (213) 372-7764 for early sign-up and Allen (Parker) at (213) 536-2614 for information or inputs to the dive. Boarding will begin at 9:00 PM on the 29th for a midnight departure. DON'T MISS OUT!

JADE COVE CAMPOUT AFTERMATH

Those not attending the Jade Cove campout this past 4th of July weekend missed an enjoyable outing. Those wanting to get away from it all or wanting to strike it rich both benefited from the lovely green forest scenery and the cool pleasant weather.

The first day was a relaxing day with some people looking for jade on the beach while others drove up to Carmel to do some shopping and looking for Clint E. to "make their day". They did not find Clint E. but did check out Point Lobos for future dive trips. On the ambitious side, Jim R. and Daniel B. decided to hike a mountain range. That evening the group voted to have the BBQ dinner instead of the pot luck and once again the food was abundant and excellent. The campfire was nice and warm while 17 adults and 5 kids chit-chatted away.

The next day we awoke to low clouds and cool weather. While Jim R. was still hiking that mountain range some serious jade hunting began. It was an extremely low tide much to the delight of Mary K. and myself. Nice pieces were found on the shoreline. As divers suited up they couldn't help bending over and looking for rocks on the beach (the Jade Cove stoop!). John S. even perfected the "stoop" by kneeling and stabbing the jade stones with his abalone iron. Nice apple green nuggets were brought up by most of the divers. That evening after the yummy pot luck dinner a rowdy game of volleyball was held. After the games everyone sat around the campfire while Steve K. confessed to Joe K. (and witnesses) that he had been living a lie for two years now. The beautiful piece of jade he found while diving with Joe K. at the jade cove had really been bought in the town of Gorda! Mary K. was in on it too. It just proves that Steve K. will confess to anything after one glass of wine - right Steve?

The last day was a relatively quiet day as tents were

packed away, Jim R. nursed his sore feet, and goodbyes were relayed. But three divers decided to try it again. Joe K., Pat M., and Steve K. entered the water. Joe and Pat brought back big boulders each - but not jade. Steve K. came back with some beautiful pieces and a new secret spot where the jade is hiding.

A big thank you to all who attended this campout, cooked up the great food, and made it as much fun as it was. Shall we do it again next year?

Kathy Kalohi

THE FOLLOWING IS AN EXCERPT FROM THE LEAFLET
CALIFORNIA ABALONE BY
PETER L. HAAKER, KRISTINE C. HENDERSON, AND
DAVID O. PARKER.
MARINE RESOURCES LEAFLET No. 11

LIFE HISTORY

Reproduction



The sexes are separate and can be distinguished in individuals as small as one inch when the gonads begin to develop. The eggs or sperm are released through the pores with the respiratory current. This is known as broadcast spawning. A 1.5 inch abalone may spawn 10,000 eggs or more at one time, while an 8 inch abalone may spawn 11 million or more. Spawning may be controlled by the water temperature or length of the day. The presence of eggs and sperm in the water may stimulate other abalone to spawn, thus increasing the chances of fertilization.

The egg hatches as a microscopic, free living larva. It drifts

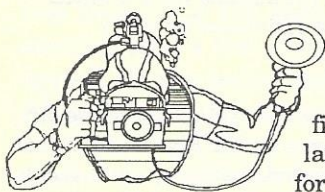
SEPTEMBER TWO-DAY BOAT DIVE

16/17 SEPTEMBER 1988 RICHARDSON'S OR WILSON'S ROCK/ PEACE
SAN MIGUEL

MEMBERS \$154

(INCLUDES FOOD AND AIR)

NON-MEMBERS \$169



Our last two-day (Friday/Saturday) of 1988 is on the PEACE out of the Ventura Marina to the Channel Islands. The Peace is 65' long, 22' wide, and has 3000 psi air fills, color TV/VCR, sundeck and of course the famous hot tub. The crew is great and Bill goes out of his way to make the PEACE one of the best boats around, as those of you on the May two-day will agree.

We will work our way out from Ventura making dives at SANTA CRUZ and SANTA ROSA on the first day. Both islands are known for their abundance of game. Large red ABALONE can be found in large numbers, (limit of 8 for two days) as can good size FISH. The pinnacles and reefs provide homes for SCALLOPS and superior spots for PHOTOGRAPHERS. Depending on our progress and weather we will end the first day with an evening twilight or night dive at SAN MIGUEL at Cuyler's. We will probably overnight on the north side of SAN MIGUEL at Cuyler's. We will socialize and party a little during the overnight stay, giving the hot tub a good work out in the process. Dinner will include several varieties of wine provided by the club, for those wishing to participate!

On the second day we will assess weather conditions and leave for either RICHARDSON'S ROCK or WILSON'S ROCK. Both are exposed dive spots, but when conditions are favorable provide some of the most memorable diving experiences in California waters. Both areas provide both shallow and deep diving (120' plus) depending on diver preference and/or experience. All divers, especially inexperienced divers, should discuss conditions with the divemasters before diving.

We also plan to dive LITTLE WILSON'S, which is in the channel between SAN MIGUEL and SANTA ROSA. This pinnacle and reef structure rises to within 35' of the surface and drops to 90' in the surrounding area. We dived this spot last year and earlier this year and it is one of the most beautiful dives around – huge SCALLOPS too! We will then work our way back along SANTA ROSA/SANTA CRUZ making at least one more dive.

For those who just like to cruise part or all of the way, there is no better boat or trip than this one. We will also fill the trip with other goodies including prizes for booby and sign-in, fun and socializing, following in the footsteps of the May two-day dive. Those who sign-up and pay in full by 18 August 1988 will also be eligible for a drawing for a single day boat dive.

The PEACE is an extremely popular boat and this trip is full as of writing. For sign-up on the wait list call Mike (McLaughlin) at (213) 374-4698 and call Allen (Parker) at (213) 536-2614 for information or inputs for this dive. Boarding begins at 9:00 PM on Thursday 15 September for a 2:00 am departure. **Don't miss out again!**

Abalone

with the currents for a week, then the abalone larva settles to the bottom, sheds its swimming "hairs" (cilia) and begins to develop the adult shell form. If suitable habitat is located it may grow to adulthood. The chance that an individual larva will survive to adulthood is very low. Fortunately abalone and most molluscs are prolific spawners but the mortality rate still probably exceeds 99%.

Hybrid abalone are not uncommon in areas where several species occur together. All species can hybridize, but the most common hybrids are red with white and red with pink.

Food

Abalone eat marine algae. The adults feed on loose pieces drifting with the surge or current. Large brown algae such as giant kelp, bull kelp, feather boa kelp and elk kelp are preferred, although most others may be eaten at various times.

Abalone tend to stay in one location waiting for food to drift by. However, they will move daily, seasonally or when food becomes scarce for a long period.

the color banding on many abalone shells is due to changes in the types of algae eaten. Juvenile abalone graze on rock encrusting coralline algae and on diatom and bacterial films. As they grow they increasingly rely on drift algae.

Age and Growth

Determining the age of an individual is difficult. Unlike the

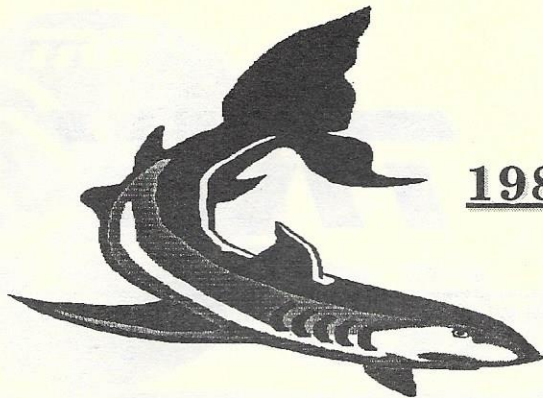
hard parts of some animals, abalone shells have no marks or bands suitable for assigning age. However, juvenile abalone in aquariums grow an inch or more per year for the first two years. Tagging studies have provided estimates of age for larger abalone in the wild. Red abalone are mature at 1.5 to 2 inches when growth begins to slow with age. For instance, a seven inch red abalone may be 7-10 years old, while one only 3/4 inch longer may be 15 years or older.

Predators

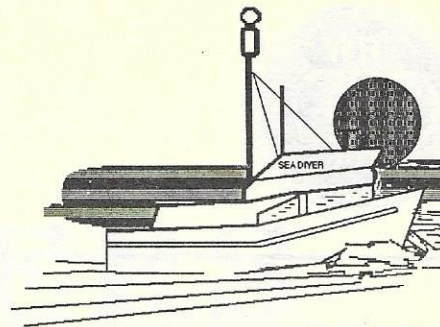
Throughout its life an abalone contends with a variety of predators. The eggs and larvae are eaten by filter-feeding animals. Though juvenile abalone hide, they are active at night (nocturnal) and crabs, lobsters, octopuses, starfish, fish and predatory snails prey on them. Abalone in shallow water may be crushed by storm tossed rocks.

Large abalone are not threatened by the predators of their early life, but larger, and often more efficient predators, now become important. Fishes, such as the cabezon, can dislodge some abalone and swallow them whole. Even very large abalone are no match for the crushing jaws of a bat ray. The sea otter is the most effective predator, capable of removing all exposed abalone within reach. Only those in deep crevices or under large rocks will survive. Abalone are one of the first food items taken by otters as they move into new habitat.

Concludes next month



1988 BOAT DIVES



Sunday	21 August 88	Gull Island/Santa Cruz/ Anacapa	Wild Wave Ventura
Fri/Sat	16/17 September 88	Richardson's or Wilson's Rocks/San Miguel	Peace Ventura
Sunday	30 October 88	San Nicholas	Wild Wave 22ND.Street
Saturday	03 December 88	Santa Barbara	Bold Contender Ports'O Call

Wild Wave - 22ND Street Landing:

South on Harbor freeway, left on Gaffey, left on 22nd street, down the hill and park in designated areas.

Bold Contender - Ports'O Call:

South on the Harbor freeway, left at Gaffey, left on 6th Street, cross Harbor Blvd. and turn right into the Ports'O Call complex. Follow the road into the Ports'O Call parking lot and park on aisle 3 or 5. The boat is at Berth 76

Peace - Ventura Marina:

North on Ventura freeway to Victoria Ave. in Ventura. Turn left onto Victoria and continue to Olivas Park Drive. Turn right and continue all the way down toward the beach and on to Spinnaker Drive. Park adjacent to the berth which is behind HornBlowers Restaurant.

DIVE BOAT POLICY

- 1) A club member may, but is not required to, have a boat deposit on file with the club.
- 2) A club member will have a confirmed reservation on an upcoming dive only if:
 - a) A check in the full amount for the dive has been received by the dive boat reservationist, or
 - b) The club member has a deposit on file with the club and makes a telephone request for a reservation with the dive boat reservationist. (Deposit is presently \$40 and will be \$50 for new deposits after 6/30/88.)
- 3) Any reservation may be cancelled two weeks prior to a dive with a full refund. Cancellations will not be accepted within two weeks prior to the dive unless a diver holding a reservation can sell or transfer their reservation to another qualified diver. The dive reservationist will assist in this process, but is not responsible to provide paying alternates. When confirmation is received by the dive boat reservationist that a cancelling diver is being replaced by another qualified diver, the replacement diver is then fully responsible for the cost of the dive.
- 4) If a diver has a deposit on file with the club and uses that deposit to secure a reservation on a boat dive, he may not use that deposit to secure any additional dives until he has paid the club for the first dive. Two years after a diver has ceased to be a member of the club, his unclaimed dive boat deposit will be forfeited to the club.
- 5) Only TRW club members and members of other selected clubs may make boat dive reservations prior to one month before a scheduled boat dive.
- 6) Partial refunds from boats which do not make the advertised dive location will be passed on to members who request them within two weeks of the dive.

BOAT DIVE RESERVATION FORM

DIVE DATE: _____ DESTINATION: _____

NAME OF DIVER(S): _____

PHONE (DAY): _____ (EVE): _____ COST OF DIVE: \$ _____

MEMBER: YES ☐ NO ☐

Please make checks payable to **TRW SEA DIVERS** and mail to:

Micheal Borden
1534 Manhattan Beach Blvd.
Manhattan Beach, CA. 90266
(213) 372-7764



TRW

One Space Park S/1420 Redondo Beach, California 90278

FIRST CLASS MAIL

ADDRESS CORRECTION REQUESTED



KATHLEEN

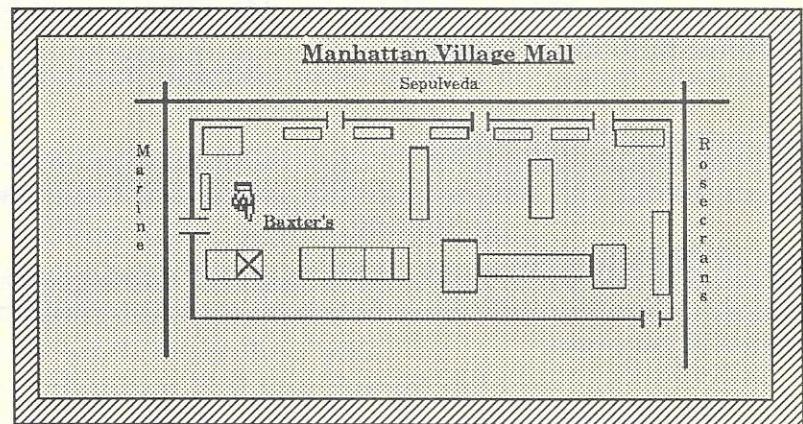
MCNALLY

071694

R11 2029

C03

GENERAL MEETING LOCATION



TRW SEA DIVERS MEMBERSHIP APPLICATION

NAME _____ HOME PHONE _____
ADDRESS _____
CITY _____ ZIP CODE _____
WORK PHONE _____ EMERGENCY PHONE _____
EMPLOYER _____
IF TRW EMPLOYEE: M/S _____ BADGE _____ EXT _____
CERTIFICATION DATE _____ TYPE (NAUI, PADI, ETC.) _____ ADP _____ NIGHT DIVER _____
Do You want your name on a dive buddy list? Yes _____ NO _____
Date of last dive _____
Type of diving preferred: beach/boat/skin _____
Type of diving you are interested in? _____

1988/Dues:	TRW Employee	\$5.00	_____	TRW Family Membership	\$10.00	_____
Prorated	Non-TRW Membership	\$10.00	_____	Non-TRW Family Membership	\$15.00	_____

for NEW MEMBERS

Please make checks payable to **TRW SEA DIVERS** and mail to :

TRW SEA DIVERS
One Space Park, S/1420
Redondo Beach, CA. 90278