



OFFICIAL PUBLICATION OF THE CHOLLA BAY SPORTSMANS CLUB

Volume 12, Number 9

September 1969



CHOLLA CHATTER
Official Publication of the
CHOLLA BAY SPORTSMEN'S CLUB, INC.
P.O. Box 7171, Phoenix, Arizona 85011

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Phoenix Membership Chairman Beaned

Dave Conner was hit in the head with a baseball on July 19 and spent a week in the Prescott Hospital. He is now back in Phoenix and we all hope he is none the worse for his experience.

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Belated Sick Report

Seems like I'm always one of the last to hear about such things but just in case some readers are even behind on the news than I am, I'll give a brief report on Paul Colarich's water skiing accident at Cholla Bay last May 18.

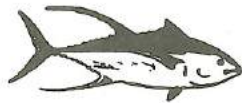
Paul fell off his skis jumping waves and the tow boat circled around to the right to pick him up for another run. The boat was slowly idling forward while Paul was getting back on the skis, when he suddenly realized the tide which was going out was pulling him faster than the boat and that he would be pulled into the propeller. He yelled that he was being pulled into the prop and to put it in neutral but before the boat operator could move the lever (which stuck) Paul was into the propeller. He stuck the

ski forward and the prop just tore it loose and shot it straight up. Next came his leg. The prop caught his leg against the skeg and fortunately killed the motor. Paul reached up over the transom and moved the clutch control to neutral and then was able to free his leg from the propeller.

Back on shore Paul told me that Pearl Walker, a registered nurse, calmly took over, stopped the bleeding, applied compresses and helped get him on his way. Dr. Keeling met him at his home in Ajo and gave him a sedative and then he was driven on to the Good Samaritan Hospital in Phoenix, where Dr. Frederick Snyder patched him up. Five days later he was back at Ajo and not long after that was back at the Gulf Station.

Considering what propellers can do, Paul was certainly lucky. Water skiers should be warned by Paul's experience, however, and really take care when the tides are running. I suggest too that the fastest way to get a propeller to stop turning, is to turn off the ignition rather than shift to neutral.

-Tom Burch



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Anybody who ventures very far offshore without an extra motor, or in company with another buddy-type boat, is simply a damnphool and deserves everything that happened to me.

On a recent jaunt out to the far distant offshore blue water playground of my favorite adversaries, namely Sailfish and Dolphin, I had a soul searching experience that taught me a lesson and made quite an impression on my hard head. I had two buddies with me, Bob Reedy of Phoenix and Tommy Burns of Flagstaff, both of which had never been foolish enough before to venture too far offshore with such a careless type skipper.

We hit blue water about 14-15 miles out and rigged up for sailfishing. We were southwest of Cholla. After landing two Skipjack and losing four beautiful Dolphin hookups to @!!!* Sharks, our @!!!* outboard motor quit. This was about chowtime or noon.

There we were, about 16 miles offshore and maybe 6 or 8 miles south of Cholla, a dead motor that there was absolutely no way of bringing to life, no oars at all, and not another boat anywhere in the area. We were literally up the Gulf without a paddle.

One of the only smart things I did that whole day, was to check out, as we left the launching area, with sweet Patty, giving her the general area we planned to fish and our estimated time of return.

The good Lord takes care of fools and drunks (I qualify on both counts), and thanks to His kindness, the weather, windwise that is, was just about perfect--just a gentle breeze blowing from the south.

I didn't have sense enough to be too worried, but I could tell that the two passengers aboard appeared a trifle apprehensive as time marched on and all we could see in any direction was barren water with nothing marking the surface but occasional shark fins.

I was idly pickin' my nose, when Reedy came up with a brilliant suggestion. The sun had lowered enough so that our canvas boat top could only shade us if we swam about 5' outside the boat, so (no one seemed anxious to do that) he proposed lashing the top in a vertical position between our two outriggers, and Voila! The gentle breeze would hasten us homeward. By gad we did and it did. We actually started moving homeward.

As the sun slowly sank in the west, we all hopefully prayed that we

wouldn't follow suit. Lil Honkee, thank heaven, didn't leak a drop, and we slowly gained headway as the breeze and tide pushed us homeward. We could actually control our direction by steering the dead motor. We were doing fine till about 8:30 p. m. when the tide turned and started reversing our direction against the wind.

We still had enough juice left in the 12 volt motor battery to light our running lights, and luckily, I had absently tossed a flashlight aboard before we left, so we took turns frantically punching out an S.O.S. in the direction of Cholla mountain. When we hadn't returned by the time I'd indicated, I guess little Patty got in gear.

What a welcome relief, we all felt, when two lights appeared on top of Cholla Mountain, blinking reassurance in our direction. It was my old buddies, Hector Munro and Bub Allison letting us know that we weren't alone.

Man, what a beautiful sight it was to see Bub's spankin' new sea goin' tug, the 'Pelican', pull up alongside and old Hectadore flip us a tow rope.

All's well that ends well, but you can bet your sweet cooney that old dad is taking corrective measures to see that I come in on my own power next time. (it says here!)

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Sea and Pacific Motor Boat

The Cholla Bay Sportsmen's Club was listed in Seas's Directory of boating organizations last year and our Club Burgee was illustrated in the 1969 Directory. Sea and Pacific Motor Boat is geared to Western boating more than any of the other boating magazines and is by far my favorite. For the benefit of those who might want to subscribe, the cost is \$ 6. 00 per year or \$ 10. 00 for two years and should be sent to Sea, 500 Howard St., San Francisco, California, 94105.

The last issue has an article by Club member Marvin Avery and the Editor's comment (see below) about the Club and Chatter which accompanied the article shows why I like the magazine so much. (I liked them before too!)

-T. B.

THE CHOLLA BAY SPORTSMEN'S CLUB

One of the most enthusiastic boating clubs coming to Sea's attention over the years is made up of "dry-land" skippers from Arizona. These Cholla Bay fishermen have chapters in Phoenix and Tucson. It is a long highway trek from the Arizona cities to "Choy-a" but it is obviously worth it.

This Mexican bay, north of Guaymas, is at the northeast end of the Gulf of California, and the club has accomplished a great job in teaching safety in those waters, in setting up search and rescue and in explaining the habits of the sportfish which abound.

In 12 years the club has grown to 800 family members. The monthly

magazine, Cholla Chatier (Sea, Feb. '69, pg. 20), is exceptionally informative and fascinating. One finds articles about 13-hour battles to land a 597-lb. bluefin on 50-lb. test line. Editor Tom Burch called it his "light fantastic."

At random we have noted other articles, such as a description of the jawfish, illustrations showing how to tell the age of fish, informative bits about the oceanographic station which club members maintain in cooperation with university schools, cone shell articles, catch records, and the great derby held every June. There is no end to the flow of good articles.

A fine series began in January: a guide to Cholla Bay fishing by Marvin O. Avery. The articles are enthusiastic, informative, and always safety-caution conscious. We wrote Mr. Avery and requested this special article for Sea. There is one sad note concurrent with our correspondence which began early this year. A health problem in the family is forcing the Averys to leave their proximity to the Mexican region's fishing.

An Arizona fishing editor wrote of Marvin Avery: "He is probably the king of the big thinkers and has boat-ed more giant fish from the reefs around Cholla Bay than any man I know."

**** MAIL CALL ****

Your mail can be picked up at the Cholla Bay Radio Station. Address it as follows:

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Western Style Barbecued Fish Steaks

- 2 lbs. fresh fish steaks, 1" thick
- 1/4 cup orange juice
- 1/4 cup soy sauce
- 2 tablespoons catsup
- 2 tablespoons melted fat or oil
- 2 tablespoons chopped parsley
- 1 tablespoon lemon juice
- 1 clove garlic, finely chopped
- 1/2 teaspoon oregano
- 1/4 teaspoon pepper

Cut steaks into serving-size portions and place in a single layer in a shallow dish. Combine remaining ingredients. Pour sauce over fish and let stand 30 minutes, turning once. Remove fish, reserving sauce for basting. Place fish in a greased, basket-type, hinged wire grill. Cook about 4" from moderately hot coals for 8 to 10 minutes on each side. Baste frequently with the sauce. When steaks are a milky-white color to their centers and will flake easily when tested with a fork, they are cooked. Makes 4 servings.

PICKLED FISH

- 1 lb. fish
- 2 tablespoons oil
- 1/2 cup water
- 1/2 cup vinegar
- 2 tablespoons minced onion
- 1 tablespoon mixed pickling spice or 1 bay leaf
- 1/2 green or red pepper, diced
- 1 teaspoon salt
- 1/8 teaspoon pepper

Gently simmer fish in salted water until cooked, or use leftover fried fish. Mix remaining ingredients together in a bowl. Add fish and gently turn in this mixture. Cover and let stand in refrigerator at least 24 hours before serving. Turn fish occasionally. Serve cold, as a relish, or as a main dish. Makes 2 1/2 cups. Will keep for 2 weeks in refrigerator.

-National Fisherman
August 1969

NEW DUES FOR— NEW MEMBERSHIP

Single membership dues for NEW members for the last half of the year have been reduced to \$6.00. The dues for spouse and sponsored children remain the same at \$2.00 each.

To join at this 6-month reduced rate, send your dues to Dave Conner at P.O. Box 7171, Phoenix 85001 or Verna Conlisk, 2570 E. Lester St., Tucson 85716.

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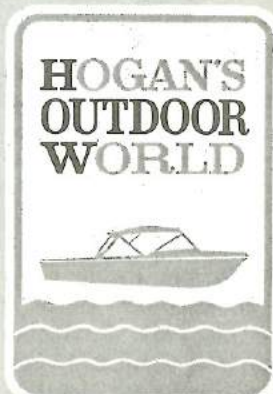
TIDE CALENDARS

Arrangements have been made to sell the Tide Calendars at the monthly meetings of both the Phoenix and Tucson Chapters for \$1.00 each.

All people who use the radio facility at Cholla Bay should be members of the Cholla Bay Sportsman's Club. ★ ★ ★

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MEL JARVIS, SERVICE MANAGER

The Expanding Economy Of Sonora, Mexico

Mexico and the Mexican economy have attracted considerable attention from foreign interests in recent years. A popular concept of Mexico is that it is a land of serenading mariachis, picturesque and charming, culturally traditional, but economically undeveloped. Tradition and old customs do exert a strong influence in the land "south of the border," however, the Mexican desire for progress exerts by far a stronger influence than tradition does, and in this generation, Mexico has realized exceptional advancement in economic development.

The population of Mexico is 47 million at present, and growing at about

3.4% per year -- one of the fastest rates in the world. The country's gross national product, which is roughly equivalent to that of Sweden's topped \$23 billion in 1967. In real terms, it expanded 6.4% over 1966-- which is even somewhat greater than the annual average increase of 6% recorded over the last 15 years!

The per capita personal income in Mexico exceeded \$500 last year -- a gross gain of about 15% over 1966. Oil-rich Venezuela is now the only Latin American country with per capita personal income appreciably higher than Mexico's.

There is marked similarity in the exceptional economic growth taking place in Mexico and that in Arizona. For both, the modern period of expansion commenced about two decades ago, and in each case it was inaugurated with the adoption of a realistic economic policy that embraced tax reform and encouraged industrialization. In Mexico today, manufacturing output accounts for about 28% of the national product, a greater portion than agriculture and mining combined. The development of a major tourism industry, as also occurred in Arizona, further strengthened and diversified the economy.

Mexico has 29 states, of which Sonora -- about 2/3 the size of Arizona -- is the second largest in land area. Sonora is located in north-west Mexico and situated on an inclined plain between mountainous terrain on the east and the Gulf of California on the west. It shares a common north border with Arizona, and in addition possesses a general likeness to Arizona in topography



and climate, and a common heritage of mission settlement.

Sonora is a dynamic expanding state playing a vital role in the new development of Mexico. Its population has been increasing rapidly-- a 35% gain since 1960, compared with a 26% gain in Arizona--and now exceeds a million persons. The population is projected to increase another 15% between 1967 and 1970.

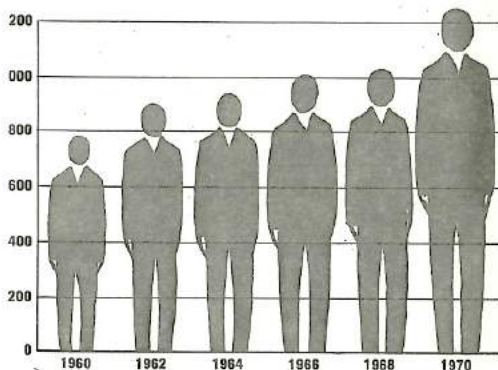
The population of Sonora is, moreover, exceedingly youthful. In the U.S. in 1960, the 65 years and over age group accounted for 9.0% of the total population. In Arizona, for 6.9%. In Sonora, the 65 years and over age group accounts for a considerably smaller portion -- only 3.1%!

Following a national trend, the urbanization pace in Sonora has been stepped up. About 45% of all residents lived in urban places in 1950; about 50% in 1960; and about 65%

today. Of the 72 municipalities in Sonora, eight contain a population greater than 25,000. Two cities, Hermosillo and Ciudad Obregon, have over 100,000 residents.

(Source, VNB, Arizona Progress) April, 1968

POPULATION GROWTH TREND IN SONORA
[In Thousands]



SOURCE OF DATA: Sonora Desarrollo Industrial 1961-1967
PREPARED BY: Valley National Bank Research Department

★ Tell 'Em You Saw it in the Chatter ★

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This _____ day of _____

19 _____

Witness

Applicant

GASTROPODA

Turbo fluctuosus
Acanthina angelica
Cerithium sculptum
Protothaca grata
Chione californensis
Nerita scabricosta
Nassarius brunneostoma
Nassarius iodes
Murex nigritis
Acmaea

PELECYPODA

Protothaca grata
Chione californensis
Modiolus capax
Cardita affinis

FISH

kelp, and bottom fish

It was thought advisable to reproduce, as closely as possible, natural conditions in the home marine tank to which all specimens were transported. Therefore, small rocks with algae and other marine plants adhering to them and bottom sand from the tidal pool were placed in the home tank.

Natural sea water, carried in plastic containers, was added.

All of this was set up in a 17 gal. marine tank made entirely of heavy plastic, and formed so that it did not have any metal parts or sealers, thus eliminating some acid hazard. A small reef was made out of the rocks brought up from the tidal pool, thus giving the occupants of the tank protection if they needed to hide. Water temperature in the tank was never lower than 58 degrees and density was maintained at 1.025 on the hydrometer scale. The animals in the tank were fed a diet of brine shrimp and frozen pieces of sea trout. Later, studies showed that the animals ate each other, as they

would in a natural tidal pool.

There were 3 anemones under observation. Two were great red ones, and a third was a smaller yellow. It soon became apparent that these were night feeders as they remained open all night, and were more active. They were constantly bothered by hordes of hermit crabs pushing at them, hoping to dislodge morsels of food. The anemones soon crawled up and established themselves on the sides of the tank out of reach of the crabs. The anemones can eat anything, and to great surprise, one snatched up a small hard shell crab and devoured it, crapace and all. At times the anemones were hand fed pieces of raw fish. They would not eat, nor reach out for the sea slugs (nudibranchia) when near, but closed away from them.

Within a few months a very tiny yellow pin-point dot appeared on the side of the tank. Using a magnifying glass, it was observed to be a

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new anemone developing. Within a few weeks it had grown to the size of approximately 10 mm., and was taking tiny pieces of shrimp. Later it disappeared leaving only one microscopic yellow dot on the tank side, and nearby evidence indicated something had destroyed it, possibly a huge flatworm or polycad.

The huge flatworm had crawled over the anemone and just about destroyed it. The tiny dot remained unchanged for a period of 3 months. After one more month it had expanded to 1 mm, but no tenacles had yet developed. In another month, three (3) very tiny tenacles were developing. It did not yet respond when small particles of shrimp were offered, and it was thought that the anemone was eating protozoa present in the salt water. After a total of 5 months from the destruction of the anemone, it could handle brine

shrimp and had developed 5 tenacles. These observations prove that the anemone is virtually indestructible.

SEA SLUGS (nudibranchia)

Three were observed. They are noted for their beauty; two were a greenish brown, the other was black with yellow dots. They were active both day and night. They preyed upon each other. The black one stalked and attached itself to the two greenish brown ones, severing one green one in half and eating the half. The other half of the green sea slug DID NOT DIE, but dropped to a protected hole in the "reef" and began to regenerate itself. An attempt was made to pry apart the black slug from the green, but they could have been destroyed so the attempt was abandoned. As yet, the green slugs have not been observed to be eating anything. Much is yet unknown about these animals.

TUBE WORMS (phylum annelida)

The two tube worms lived in the sand and were almost entirely covered by sand. They were positioned vertically and the tubes were approximately 3 inches. They were constantly under attack by hermit crabs who brushed away the sand, attempting to crack the tubes and extract the worm. The crabs destroyed one worm, and we then positioned rocks about the other worm, in an attempt to give it cover. The tube worm is apparently a protozoa eater. It has not grown nor changed materially since being in the tank, so we can perhaps conclude that it was an adult when collected.

There were 3 types of hermit crabs, the large Clibinarium digueti, Pylopagurus roseus and Petrachirus californienses. They were using

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2¼" x 4¼"	18.00	15.00
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Full Page	50.00	45.00

empty Turbo, Tegula, Carithium, Pyrene and other shells as their homes. They have 3 pairs of legs, the anterior pinchers for grasping food and the other 2 pairs for walking. Some of their "houses" had barnacles on them. During growth they outgrow their shells and must find larger empty shells or fight another hermit crab to take away his shell. Larger empty shells were added to the tank, providing adequate housing for the crabs. These crabs are very gregarious and they fight much of the time, with little or no damage done and the fighting could be part of the mating habits. They constantly search for food, and will eat anything. As mentioned before they are also "pests" to the anemones and tube worms. They are useful as scavengers and keep the tank clean of food particles. Their only enemy in the tank seemed to be the large Pacific rock crab (Eriphia granulosa) which will be the next specimen discussed. ●

1969 Prize Donors

The following individuals and/or organizations donated prizes for the Fish Derby. Club members should show their appreciation by patronizing them. Be sure to tell them you are from the Cholla Bay Sportsmen's Club.

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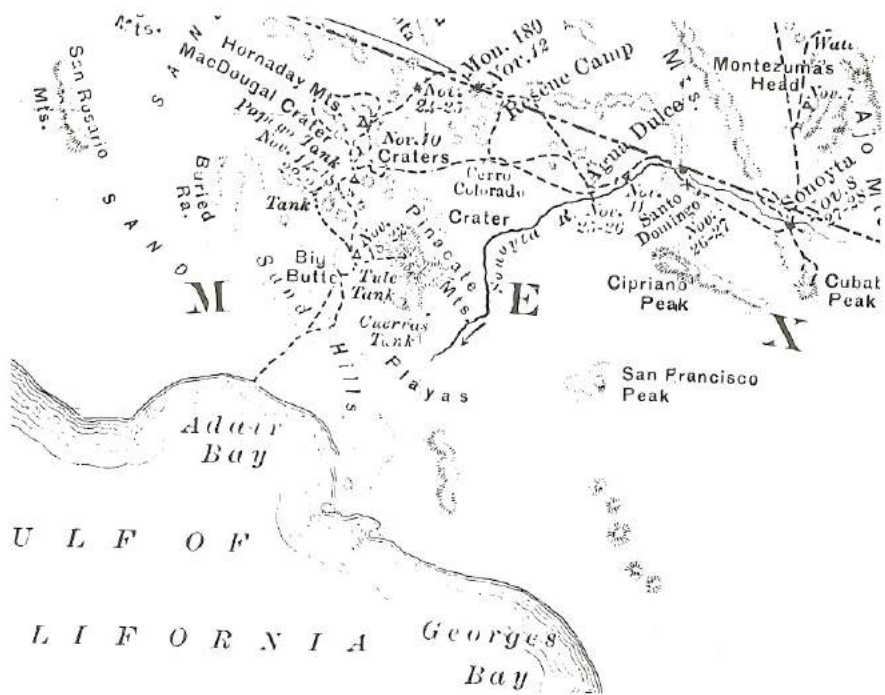
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Englishman Collects Shells at Adair Bay in 1908



Godfrey Sykes, 1908 fr. Hornaday,

Campfires on Desert & Lava, 1909

Campfires on Desert and Lava by William Hornaday describes what was probably the first exploration of the Pinacate region since Father Kino visited it two centuries earlier. The expedition consisted of a botanist, zoologist, sportsman, and geographer. Only one of these--the geographer--actually reached the shore of Adair Bay and he did it only so that he could check the setting of his altimeter. They were camped on the West side of Pinacate where they had a beautiful view of the Gulf and even of Baja California and one morning without a word to anyone he hiked down to Adair Bay. The rest of the account is in his

words: "I picked out what looked to be a fairly easy route across the sand-hills, set my pedometer and started. My selected route first led me diagonally across the playas toward the sand, then more or less of a zigzag course through the sand-hills, and after that straight for the shore of the Gulf. I estimated my distance from the shoreline to be from 15 to 20 miles, and this proved to be fairly correct; for from the time of leaving the top of the butte until I got back into camp, my pedometer tallied 43 miles.

"The sand-hills averaged about 5 miles across, and in them the walking is very bad. The Gulf front of

these hills in a clear-cut line, and the highest dunes are close to this eastern edge.

"Once through the sand, my course lay straight across some galleta grass flats towards some bare-looking saladas that I could see from the tops of the dunes. The walking was now very good, and by sundown I was probably two-thirds of the way from the sand to the shore. The full moon rose over Pinacate about dusk, and so I had plenty of light.

"I soon reached the tide flats, got down as far as salt water, corrected the scale of my aneroid and started back to camp . . . I got through without any difficulty, steering by the ten stars.

"The net zoological result of my pasear was a few little birds of unknown species, a jack-rabbit or two, one coyote and a little coiled up rattlesnake evidently suffering from the chilly night air. I put my hand on the snake, thinking it was a shell, and never discovered what kind of snake it was until, as it slid through my fingers, I felt his rattles! At that I bid him a hurried adieu and left him to find warmer quarters.

"The coastal plain beyond the sand is wonderfully level and covered with fine galleta grass, except on the saladas. The line of sand-hills stretches away in what seems to be an unbroken line, as far as one can see, both north and south."

Mr. Sykes collected five species of shells at the tide water which Mr. Hornaday classified as follows:

Murex (Phyllonotus) becki. Phil.
Arca pacifica Sow

Pectunculus gigantea Rve
Cardium (Trachycardium) pro-
cerum Sow
Ostrea lurida Carpenter

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Virginia Ludwig Ill

Virginia Ludwig became sick at Cholla Bay and was brought into Phoenix where the diagnosis of infectious hepatitis was made. She will be in Good Samaritan Hospital for several weeks and it will be longer than that before she's fully recovered. After saying that, it's sort of futile to wish her a speedy recovery--but I will anyway.

-TB

Ex-Editor Breaks Toe

I just came from the Safeway where I was admiring a pretty girl pushing someone in a wheel chair. Since the pusher was so pretty I, of course, didn't look at who was being pushed so imagine my surprise when the pushee suddenly said, "Hello, Tom." It was Toska Fieck, the immediate past editor of the Chatter. She broke her toe about three weeks ago--insists she didn't kick anyone or anything and has no idea how she did it. Since it was so long before she finally went to the doctor, she had to have an operation to get the bone, which was broken in three places, reassembled. She will probably also need an operation on the tendon later.

Best wishes for a speedy recovery.

-Tom Burch

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PRIVATE SECURITY GUARD SERVICE PROPOSED

Jesus Martinez Mezquita is considering establishing a private security guard service for the protection of the cabins at Cholla Bay.

Those interested should contact him at the Toll Gate.

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Register of Cholla Fish

AN APPEAL IS MADE TO ALL CHOLLA FISHERMEN TO HELP PREPARE A REGISTER OF FISH CAUGHT OFF CHOLLA. THE FOLLOWING INFORMATION SHOULD BE WRITTEN ON THE BACK OF THE PINK COPY OF YOUR CHECK-OUT SLIP:

KIND OF FISH
NUMBER CAUGHT
WEIGHT OR LENGTH
WHERE CAUGHT
ANYTHING ELSE YOU THINK OF
INTEREST

PHOENIX SHELL CLUB

The "Southwestern Malacological Society" meets the third Wednesday of every month at the Arizona State University Zoology Building Room 163 at 7:30 p. m. Next meeting will be Sept. 17th. Everyone interested in shells is invited to attend.

Citizens Band Radios

Monitor Channel	22
Conversation	16
Conversation	11
Conversation	9
Conversation	5

Cholla Headland, Photo by Roy Poorman



Students from ASU studied Invertebrate Zoology at the Choy Bay Oceanographic Station this summer. Mrs. Burch (Second from left) conducted the course.

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Observations on Cholla Tide Pool Animals (Part I)

By Mary and Paula Furtwangler

(Editor's note. --When the Furtwangers reported to the Southwestern Malacological Society about their observations and studies of marine animals in saltwater aquaria, I asked them to share their experiences with the rest of the Cholla Club members. Mr. Furtwangler wrote articles on making the aquaria (May 1969) and filtration and balancing the aquarium (July 1969). This is the first of several articles on the animals that they brought back to Phoenix and kept in their salt water aquarium.)

All of the specimens were taken from a tidal pool in the low tide zone on the reef off Sandy Beach near Puerto Penasco, Mexico, Gulf of California. This reef runs off shore from Sandy Beach and is basically composed of sandstone and covered

with great and small granite boulders.

The tidal pool from which the specimens studied were collected is located about 200 ft. straight out on the reef, and a fairly low tide must be present before the pool becomes visible. It is a large tide pool and at the lowest tide contains from 1/2 ft. to 1 1/2 ft. of water from the edge to the center.

Among other forms of life, this pool contains soft corals (Palythoa) and soft brown sponges. The specimens were collected during the first week of September 1966. The water temperature in the tidal pool was 70 degrees F. and the hydrometer reading was 1.025 grams per milliliter.

The following specimens were collected and placed in the salt water tank in Phoenix:

- 3 types of anemone (class Anthoza)
- 2 sea slugs (Nudibranchia)
- Brown sea slug (*Doriopsilla albopunctata*)
- Black sea slug (*Dendrodoris krebssii* (Morch))
- 2 tube worms (phylum annelida)
- hermit crabs (tribe anomura)
- true crabs (tribe Brachyura) including 1 Hairy-Under-Rock Crab *Pilumnus*. (*townsendi*, Rathbun)
- 1 Decorator crab (*Ala cornuta* (Stimpson))
- 1 large rock crab (*Eriphia granulosa* Edwards)
- starfish sun or rayed star
- Brittle starfish
- Serpent starfish

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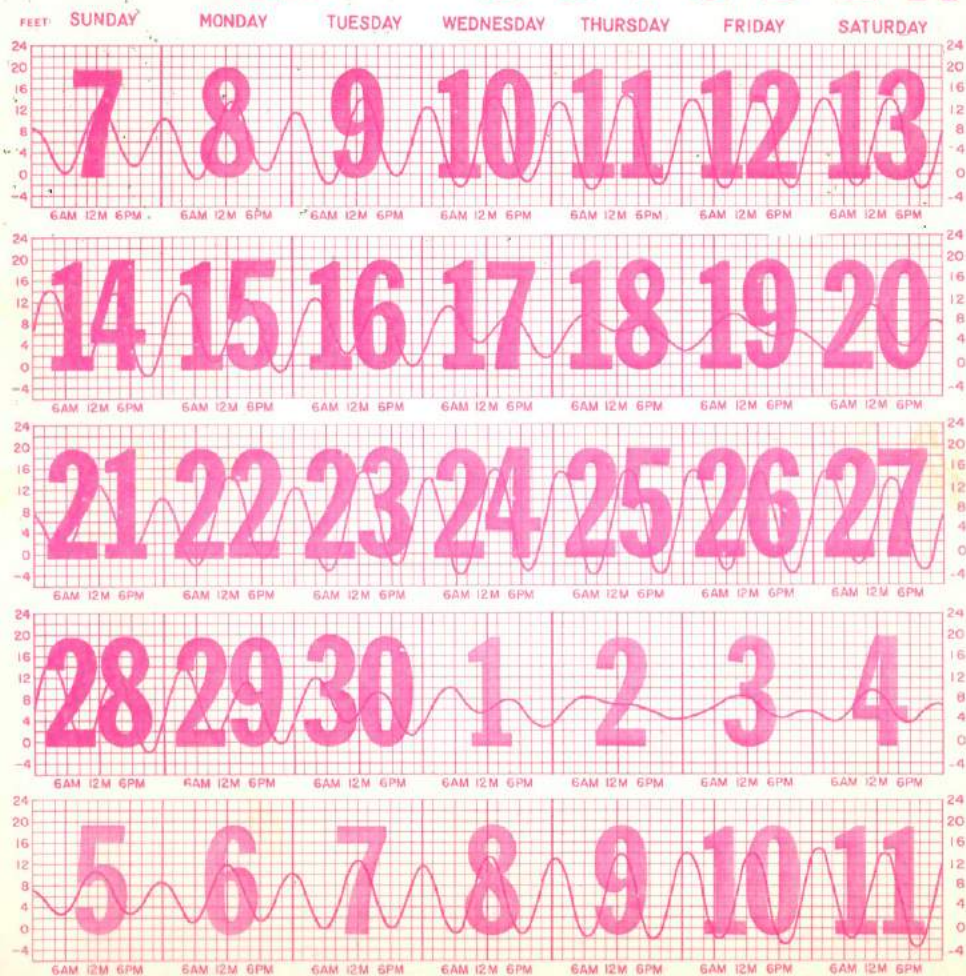
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