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The Scorpion Fauna of Cholla Bay

CHOLLA CHATTER Official Publication of the CHOLLA BAY SPORTSMEN'S CLUB, INC. P.O. Box 7171, Phoenix, Arizona 85001

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From the Editor's Desk

THINGS have been sort of hectic for me since the Derby. I turned the material for the July Chatter over to Bob Hudnall and left for the West Coast with four dogs, two wives and one cat. I just got back vesterday andhere I am getting things laid for the August Chatter.

Incidentally Bill Valentine promised on a stack of old fishing poles that he'll have an article for the September Cholla Chatter. He even rashly promised another cover.

My wife, Beatrice, says I should mention that I can claim only one of the two wives that I had on the trip-the other belongs to Mary Avery.

Well, even if I can't claim her as my wife, we had a very enjoyable trip into Sunny California.

We discovered a funny thing about California sunshine -- it's white and you can't see through it! Also, we were glad we had sweaters along-that white sunshine isn't warm.

However, when the eight of us got into our 22 foot Airstream trailer. it was nice and cozy and didn't seem at all cold.

The main object of the trip was to attend the American Malacological Union convention at Asilomar near Monterey, California. The AMU. incidentally, is made up of shell collectors who gather together once a year and tell each other about their

shells. Sort of like the way fishing folk do except these people are supposed to tell the truth!

Our local shell club (the Southwestern Malacological Society) had an exhibit of shells from Cholla which was admired by all and, in fact, the club was sent a special letter of thanks for putting on the exhibit.

In addition to attending the shell meetings we visited museums in San Francisco, Los Angeles and in San Diego. This was so my wife could gather material for a course in museum techniques that she will teach at ASU this fall.

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CHOLLA CHATTER

Three

The Scorpion Fauna of Cholla Bay

By Neil F. Hadley

Assistant Professor of Zoology Arizona State University, Tempe

Scorpions are among the more common arthropods found in desert habitats in the Southwest, although they are by no means restricted to a desert environment. Taxonomically, scorpions are placed in the class Arachnida, a group to which spiders, mites, ticks, and daddy-longlegs also belong. One can easily recognize a scorpion from these close relatives and other animals by its distinct body form, for it is unique in having its tail-like abdomen modified to end in a sting. The sting is attached to the end of the last segment (telson) which contains a pair of venom glands. While the venom produced is toxic enough to be lethal to many organisms upon which scorpions feed, only a few species have been shown to produce a venom which can be fatal to man.

Preliminary investigations show that five different species, belonging to two families, occur in the Cholla Bay area. In the family Buthidae, the only representative is Centruroides sculpturatus. This scorpion is best identified by its reddishorange color and long slender tail, which in the male is approximately twice the length of the body. Unlike the other scorpions here, Centruroides is primarily a non-burrowing species. It seeks out shelter beneath rocks, vegetational debris, trash, boards, and the like during the day. At night it actively hunts for small insects and other invertebrates on the surface. Caution should be taken when this species is encountered, for the venom in some populations of C. sculpturatus has been shown to be quite poisonous. To my knowledge, the Cholla Bay population has never been investigated in this respect.

The remaining four species of scorpions all belong to the family Vejovidae. The largest of these is the "sand" or "hairy" scorpion, Hadrurus hirsutus. Adults of this species commonly measure 3 1/2-4 inches in length, and may attain 5 inches. Other means of identification in addition to its size are the presence of large, reddish bristles arising from the telson and a dark, interocular crescent on the carapace. Active only at night, Hadrurus spend the hot days in burrows of their own construction or those of lizards or small mammals. In spite of its large size, it is believed that this species is comparatively harmless in terms of its venomous properties.

Perhaps the most abundant scorpion is <u>Vejovis</u> mesaensis. Adults of this species also attain fairly good size and can be confused with juve-

niles of Hadrurus; however, V. mesaensis lacks the dark ocular crescent present in Hadrurus. Vejovis Mesaensis can be found at night in any of the sand lots within the community or along the coastal dunes. Along with V. mesaensis one also usually finds V. confusus, the latter species being characterized by its slender claws and long, slender pedipalp fingers. Both V. mesaensis and V. confusus are burrowing species often found at night sitting nearby or at the entrances to their respective burrows.

The fourth species of the family Vejovidae is Vejovis baergi. This is a new species which has been recently described in a paper published by the California Academy of Sciences. This species is the least common of the five species; little is known about its ecology. V. baergi appears to be a burrower like V. confusus and V. mesaensis. Specimens have been taken from the sand lots in back of the Oceanographic Station and in dune communities on either side of the granitic hills between Cholla Bay and Sandy Beach.

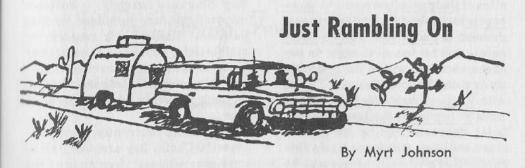
Scorpions are collected by several different methods. During the day, turning rocks, trash, or the like will usually locate a few individuals. Buried "pit-fall" traps have alsobeen successful. These consist simply of large food cans sunken into the ground and each then covered with a flat piece of rock or board. A small opening is left to provide an apparent burrow entrance for the unsuspecting scorpion. However, to collect scorpions in numbers, one must be active at night when they are. During this time, scorpions can easily be detected by ultraviolet light under which

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they fluoresce brightly. Portable mineralights are excellent for this purpose. Unlike their reaction to visible light, scorpions do not appear to be sensitive to ultraviolet light, and this permits close observation of their behavior while on the surface.

The studies currently being conducted at Cholla Bay are designed to provide additional information on the biology and ecology of these scorpions. With the use of ultraviolet light and fluorescent dyes, a detailed account of the scorpions' nocturnal activities, population size, and community structure will be possible. Questions to be answered include: "when do the scorpions first appear at night; how long do they remain on the surface; do they move around on the surface; do temperature, relative humidity, wind, moonlight affect their activity?" At the termination of the field study, some scorpions will be collected and returned to the laboratory at Arizona State University. Here the physiological relationships and tolerances of these organisms to their respective environments will be investigated. little is known about the lethal tempperature thresholds of these scorpions or about their mechanisms for maintaining a positive water balance.

You can help the study by turning in any scorpions you find to the Choya Bay Oceanographic Station. Such contributions will tell us more about the seasonal activity patterns of the various species. Be sure to include with the specimen information on when and where the scorpion was collected. Chances are excellent that there are more than five species living in the Cholla Bay area—maybe your specimen will be a new one!



I have given my solemn promise to write about our many experiences in Mexico again. This is the first time in two years so you readers of the Chatter have had a rest and, because I have been asked so many times this past year by Toska and several others for some of my stories, IsaidIwould try - so here goes.

The year of 1966 and the last half of 1965 were lost months for me and the less I think about them, the better off I will be. Just let's say they were a nightmare of illnesses that have left their mark.

We finally got down to Guaymas, arriving January 26th, where we have many friends from many points of the United States. I shelled a little during the extreme low tide, but this area, just like Cholla Bay, has seen its day of seashells in any quantity or quality unless you get to the out-of-reach areas where a boat is needed. I collected the small to even minute species, identifiable only thru the use of a microscope which Santa brought me for Christmas.

The spring of 1965 was the year that will stand out in my mind as the one great adventure of all. Ken and I left Phoenix January 28 for Guaymas, towing our 28' trailer with a station wagon and before we returned home again we vowednever again to go swaying down any highway with a station wagon and trailer. Ken solved that problem by searching the Phoenix and outlying areas until he found the type of vehicle he wanted for towing a trailer—a crew cab truck. He added a sway bar attach—

ed to the conglomeration of apparatus on the hitch of the trailer and now we sail down the highways with perfect ease. He loves that big beast, but for me--that is almost more than I can manage. Takes all the strength and both hands for me to shift into reverse, but I drive it when I have to, but not towing a trailer.

On February 16 Peter and Iva Barker joined us at Guaymas and we had made plans for a rather extended trip down the coast, stopping where and when, as we chose. At Masiaca, some miles south of Navajoa. Peter located a road leading down to the ocean that he remembered traveling over on a previous trip. He recalled it as being rouch, narrow but passable with their International truck. They lead the way and when they would come to a particularly bad spot they would stop and advise us how to proceed so as not to get hung up in a low dip in the road.

There was no turning back so we

went on slowly eleven torturous miles and arrived at the ocean front with no damage to car or trailer. We were the sole occupants of the area as all the small homes were vacant and we stayed two days and nights. Had it rained during out stay, I don't believe we could have returned to the highway again for many a long day, but the weather stayed good. First thing we did was walk to the shoreline to see what it looked like as far as shelling was concerned. That particular spot did not look too promising so Peter proceeded to unload his sand buggy of generator, gas can, etc. and we started out to scout the area.

We covered the area all right in that sand buggy with Peter at the wheel. Peter is a lightweight, but he had the steering wheel to hang onto. Iva has enough weight to help her sort of keep put. Ken has too much height and the top of the vehicle just low enough for him to continuously be bumping his head against the top. I am really a lightweight and, for four of us to crowd onto the one seat there was, I would have to squeeze in and sit sort of on the edge of the seat and hang onto the dash-board.

Riding with Peter in his sand buggy means you just make fun out of everything as best you can and fun it was until I felt as though I could never walk upright again, but I will say we covered every passable area in that vicinity. We just plain scoured that desert. There were a few roads but why bother with them when a short cut made it more fun so we made our own roads. If a clump of brush stood in our way, we just sort of jumped over it. If a jack rabbit dashed across our path, Peter set out to try



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Tucson: J.C. Building 1115 E. Ft. Lowell Road and outrun it. Down into arroyas and up over dunes -- down to the ocean front to look for shells and following the beach for a ways - then back up and across the desert.

In our roamings around the countryside via the sand buggy we noted a building being built that appeared to be of large size and would be rather pretentious for this area so far from a village or city of any size. In talking to the workers we were informed that it was going to be a night club for the people who would come to occupy the now vacant houses along the oceanfront during the summer to escape from the inland heat. Just beside this building and blocking a shortcut back to our trailer was a deep wash where the ocean water seeped in during high tides. It appeared fairly dry but the trail of cows' hoofs through the wash indicated it was merely covered with a heavy dry crust and underneath was a black, wet muck.

Peter insisted that his sand buggy could get through anything that a cow could walk through so, despite the vehement protests of the rest of us, down we plunged from high sand bank into the wash. Peter was wrong, believe me he was wrong, because we had progressed no farther than a few feet before we were mired deep in thick, black, tar like muck. We all piled out and naturally stepped through the dry crust. The combined efforts of Iva, Ken and myself with Peter at the wheel and we three pushing helped not one iota.

The sand buggy just sank deeper and slid around farther into the wash. Our shoes were a black, slimy mess and we were getting a nice heavy spray of muck from the spinning tires. Workers from the building

came running to assist us with board and cardboard and eventually we were able to get the buggy turned around and headed back to the bank and as soon as the front wheels hit dry sand Peter gave it all the power he could and was able to lunge up to dry sand again.

What a mess we were! I never did get my tennis shoes clean and my white socks I just pitched into the brush rather than try and wash them that black muck was like tar. In fact we were lucky we didn't all lose our shoes in that soupy marsh.

I never will be a very good camper roughing it with a limited water supply. Trying to get clean this time was impossible. Our trailer has a 30 gal, water tank for use in flushing the stools, washing ourselves and dirty dishes and that does not last long. I never could get adjusted to resorting to the tullies for a biffy, dish-washing without lots of hot water and washing my hands and face in a couple cups of water--measuring the water by the cupfuls for my morning coffee, etc.

We carry plastic jugs of drinking water which is also used for cooking but it doesn't take very many days to use 5 gals, so just a few days of this and I am ready for a trailer court with electricity--sewer connections and lots of good, hot water so when we all decided to move on to a more civilized area, I was ready to leave this spot and head back to the highway again. (Incidentally, the map indicated this place as Las Bocas in case anyone cares to check on where we had gone to reach the ocean.) Our collection of shells from there consisted of beach combings-good - but nothing new or unusual. Experience No. 1.

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Bob James - Taxidermist



Surfside Comments

By Gene Henry

DURING a recent club meeting I had the pleasure of displaying mounts of an 18-pound yellowfin and 9-pound seatrout which I was lucky enough to catch over the last Easter holiday at Cholla Bay. I am sure that those attending the meeting, as was I, were impressed by the beauty, durable finish and lifelike appearance of the mounts and asked many questions as to how and where the mounts were made.

The man responsible for mounting these fish was a local taxidermist Bob James. Many of you previously met Bob when he donated free mounts of the first sailfish and dolphin caught by Cholla Bay members in 1965. Bob has devoted more and more of his time to mounting fish during the past few years and is continually working on new techniques

to develop a more durable mount without sacrificing lifelike appearance.

Bob was one of the first taxidermists to utilize fiberglas for fish mounts. Since that time, many of the leading taxidermists have adopted this technique. One of the greatest criticisms of the old technique using the actual fish skin was that it was very fragile, hard to work with, and started coming apart after a very short time. The fiberglas mounts are virtually indestructible and look so much like the live fish it's hard to tell the difference. A brown trout Bob mounted for me in 1964 still looks as colorful and lifelike as the day it was delivered and. according to Bob, will still look the same many years from now.

The fiberglas cast is made from a plaster mold of the fish and every detail including scale patterns stand out. Bob cautions fishermen who desire to have a trophy catch mounted to take the following steps to ensure a lifelike reproduction:

- 1. Do not clean the fish as a whole and intact fish makes a much better mold.
- 2. Wrap the fish in a damp cloth before placing in ice. This will keep the skin and fins from drying out.
- 3. If possible, take a color photo of the fish as soon as possible after being caught. This will ensure an authentic color reproduction as colors of the same type fish vary considerably according to where caught and water temperature fluctuations.

Sailfish and marlin mounts are a specialty of Bob's and he takes great pride in having his billfish mounts

displayed all over the country and in Mexico. The techniques used in billfish are different in that they are too large to use fiberglas or other heavy casting materials. Bob uses lightweight material for the cast, covered with a tough durable plastic finish to ensure alifetime mount. Of special interest to fishermen who would like to mount their billfish, but who have limited room, is an eye-catching headmount Bob has developed for both sailfish and marlin

It is not necessary to bring back whole sailfish or marlin for mounting unless desired. Bob has several molds of different size fish and can closely match your catch provided you take length and girth measurements. You should bring back the bill, however, and make sure it is cut well back into the head.

Bob is a real friendly sports-minded guy and is a staunch supporter of our club. If you get a chance be sure to drop by his shop at 2613 West Northern Avenue and see his beautiful display of fresh and salt water fish mounts, many of which were caught in the Cholla Bay area.



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The editor should have mentioned in the last Chatter that the scale at Cholla used for weighing in the fish during the Derby was courtesy of Tony Hall Sporting Goods. Incidentally, the entire weighing setup including platform, uprights, etc., was donated by Tony Halls last year.

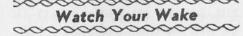
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I'd been having trouble with my 1964 International getting hot so followed my own advice and patronized one of our advertisers—Young Radiator Service—and had the cooling system 'back flushed.' It sure made a difference and made me feel real good to pass car after car pulled off the road making like a Stanley Steamer. I had some trouble with the car but not from the cooling system. Thanks Morris.

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WANTED OLD CHATTERS

Several people gave me some of the old Chatters after my appeal in the June issue. I would especially like to thank my predecessor, Toska Esenwein, who gave me quite a stack of them. I am now missing the following: March 1963; Jan., July and Dec. 1962; Feb., May, June, July and Oct., 1961; Jan., May, June, July, Sept., and Nov. 1960 and all earlier ones. I'd surely appreciate getting copies of any of the above.

SEA OF CORTEZ MOVIE

While at the Shell meetings at Pacific Grove last month the editor saw a wonderful movie produced by the California Academy of Sciences documenting a scientific expedition into the Sea of Cortez. I hope to be able to show this movie to the Cholla Club at the September meeting.

Editor Has Red Face

Somehow or another Sportsville West was left off the list of outfits that donated prizes to the Derby.

Next time the editor needs something for his boat I promise to buy it there. Let me know if I left anybody else off the list, but I won't promise to buy something from them until I find out what they sell.

Tank Water Tested

Mr. James Couch, U.S. Public Health Service Quarantine Inspector at Lukeville had a sample of water from one of the Cholla Bay Tank Trucks cultured for bacteria on June 27th. The culture was negative for "Coli-Aerogenes" which would indicate that there was no contamination with sewage. This is encouraging, but not to the extent that any of us should drink the tanker water unless it is first boiled or chlorinated.

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