

The Lazarette Gazette

NEWS FROM

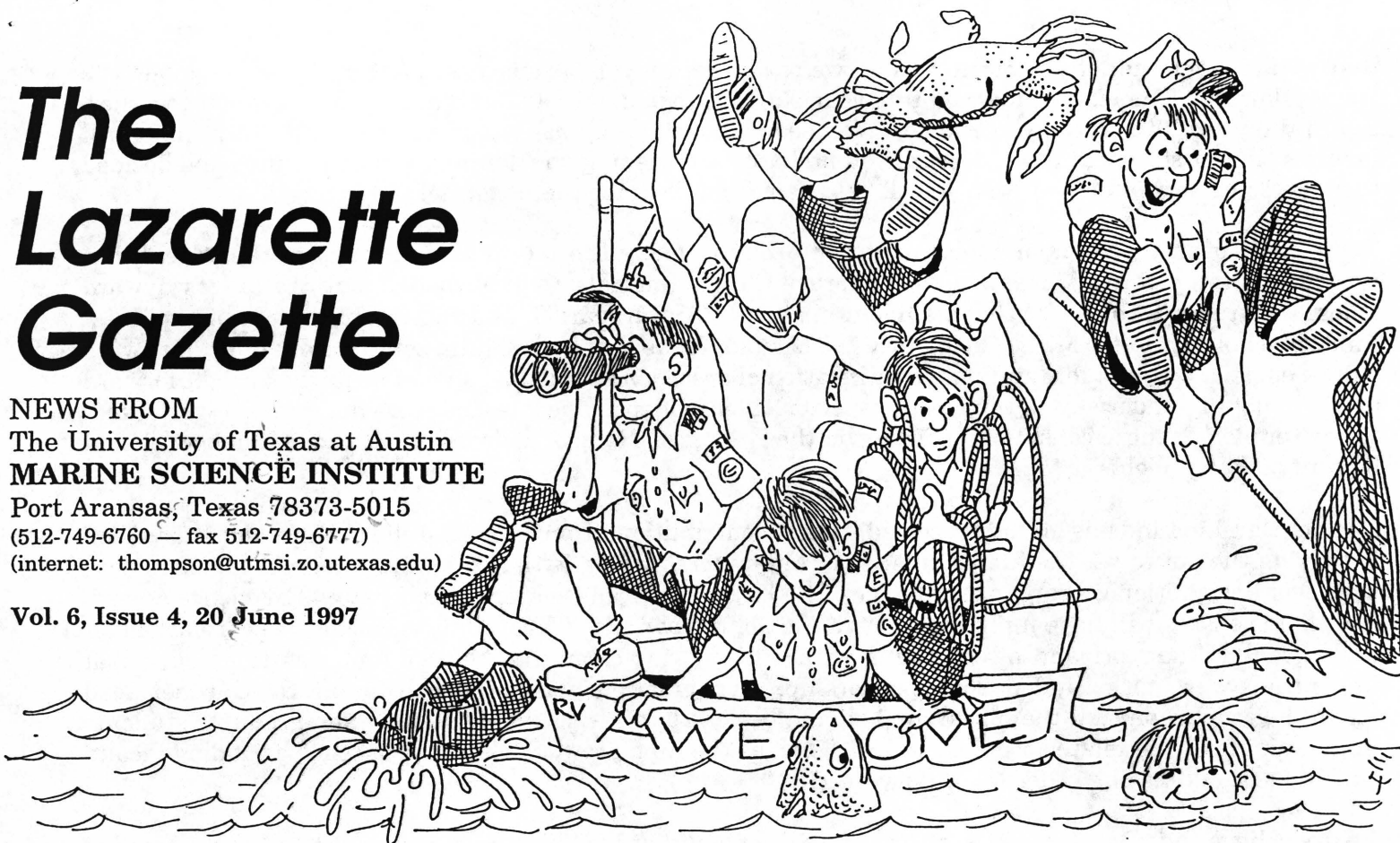
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Vol. 6, Issue 4, 20 June 1997



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MSI's 50-Year Anniversary

MSI REUNION — COMMUNICATION FROM FAUST PARKER:

JOLLY GOOD TIME !! I'm sure all of you who made it to *The Reunion* are thanking yourselves for taking the time and effort. What a fantastic gathering! Many thanks to all of the UTMSI Staff that did the real work required to keep it all together and make things happen. The list is long, but we should especially mention Patty Webb, Kathy Quade, Rick Kalke, Scott Holt, The Custodial Crew and The Cafeteria Ladies. Dick Hoese, Joe Morgan and John Hedges on the "exes" side did a little sweating as well. I think it all came together quite nicely, even though we had a few setbacks along the way (i.e., weather). It's apparent

that we are a very adaptable group and all we really need is a little space and a cold one or two to get the stories flowing. The lessons learned this year should prove invaluable in planning our next get together, say in the year 2000 (or maybe 2002?). We need feedback on all aspects of the reunion! Such input will insure a tighter ship next time. Most of you probably are wishing you'd brought more pictures and decided to make some sort of presentation—we'll get them organized for the next one!

There have been three major topics bantered around among the lab folks and many of the "Exes" that should be of interest to all. Namely, the history of UTMSI (formal and published), identification of wayward (should we refer to them as students, faculty, and staff "overboard"), and the establishment of an "Exes" funded "scholarship" for MSI. The history is a complex issue that will require some serious effort involving a few people and a plan for funding. Identification of *overboard* personnel should be fairly straight forward and is hopefully underway as you read this letter. Please identify people that were not invited (overlooked) to the reunion or those considered missing on the Exes list. Names, addresses and phone numbers should be sent to Patty Webb at MSI.

The Scholarship fund has already received its first contribution (from Jim and Julie Collins) and Mary Abell is stirring the pot to get the fund formalized. My understanding is that the fund can be established with whatever designation we care to ascribe (i.e., The U. T. Port Aransas Marine Laboratory Excellence Award) and that the Exes will have input into distribution of the awards. The Collins donation was earmarked for undergraduate support and after talking with Julie it was clear that their intent was to be sure that undergrads were not excluded from sponsorship. Conversations with others including Dr. Gardner, lead me to the conclusion that the initial fund should be set up to assist undergraduate and graduate students in pursuit of marine related studies at MSI. Then as the fund grows, look to options such as adding faculty support and addressing other laboratory needs.

I truly believe that Dr. Gardner and the rest of the faculty at MSI now have a much better understanding of the enormous heretofore untapped "Exes" resource. Many of the Exes have related to me that their allegiance is to UTMSI and not to the Austin Campus. If we can promote scholarship funds directed toward MSI, then many more of us will be willing to contribute to "The University". By the way, these are tax deductible contributions, so go crazy and give till it hurts. Please let us know how you feel about the fund and what features would make it attractive to you as a donor.

Thanks again for all the memories, more later. — *Faust*

MSI REUNION — COMMUNICATION FROM JOE MORGAN

WHAT A WEEKEND! It was so nice to see all those good (some would say "legendary") folks. Hell, some of those guys like B. J. Copeland were legends when I was there! Now I've really started to feel like an Old Fart, especially after looking at all the pictures. At least it was nice to remind myself that I didn't always have to buy my shirts this large, that Hedges had a reasonably nice head of hair at one point, and that Winters once sported the "Buddy Holly" wannabe look. I thought it was especially nice that Dr. and Mrs. Fonken and Ross Shipman were able to come down.

The highlight for me (among a great many), were the reminiscences by the Directors, Tony, Bill and John. The Chief won the trophy for most memories, but only because he got to be director half a dozen times, so we might want to disqualify him on a point of order. And it was nice to finally be able to place myself on the UTMSI-geologic time scale as falling somewhere between the "Era of the Hall Conference" and the "Time of Tempests". That cleared up some confusion for me (but not all). And the pictures and memories of CVB and Geraldine put a real lump in my throat.

I had forgotten that it was my Dad that originally welcomed PLP onto the UT campus. I guess he figured he got his revenge when he finally shipped me off to work for the Chief in the early 70's.

Even the beach party (location to be announced) (likely the auditorium), was a success, although the cooks were looking a little ragged by the end, and one of them (F. Parker) had disappeared altogether. At least Thompson finally recognized what a sensitive guy I am (it's about time).

In my book, the reunion was a fabulous success. Thanks to Patty, Kathy, JoAnn, the Ricks, the fine staff and everybody else that made the weekend so perfect. The BBQ on Saturday was outstanding—perfect in every way. I heard more than a few comments about a Reunion Reprise every three to five years from now on. UTMSI 2000 has a very nice ring to it, and if we give Faust a three year head start, there's no telling what pictures he may dig up.

For those who missed it, I can only say, you missed something special....but you were remembered well, and often, and occasionally to your detriment (but always with good cheer), and I hope you can make the next one.—Joe

MSI REUNION — COMMUNICATION FROM BILL SLINGERLAND:

I just wanted to say how much I enjoyed the weekend. The social events gave everyone a chance to catch up on what is going on. I enjoyed the talks about the history of the lab and what happened during terms of different directors. For such a small lab, in 50 years, it has had a great impact on science, education, and environmental awareness throughout the state and the US. I am proud to have worked at UTMSI as I am sure everyone else at the reunion is. It was good to meet legends in the field of Marine Biology such as Dick Hoese and B. J. Copeland. I appreciate all the work everyone did on the reunion and especially the efforts of Patty and Kathy. Thanks again. It was a memorable experience.—Bill

MSI REUNION — GROUP PHOTOS, VIDEO, HISTORY, ENDOWMENT

■ Faust Parker reports that the **group photos** came out fine. He plans to investigate increasing the size to 8 by 10 and make them available to anyone interested. If you would like one, send an email to John Thompson or otherwise communicate.

■ Dick Hoese made two **video cassettes** of the presentations. Dick reports that most of the talks were recorded satisfactorily. Dick has donated copies to MSI for the historical records. If there is sufficient interest, it may be possible to edit the two videos down to a more manageable size and make it available for purchase (at a reasonable price, the money to go into the history fund).

■ After all the bills were paid for the Reunion, a little more than \$2,000 was left as the beginning of a fund to finance the preparation of a **history** of the MSI.

■ It is very exciting that the former students, faculty, and staff of UTMSI want to establish an **endowment for student support**. Contributions to the fund will be held in a special account at MSI until the principal reaches \$10,000. At that time, the endowment will be named, and sent to the Regents for their approval. Interest on the endowment will be awarded according to the parameters set by the donors. This fund has received its first contribution from Jim and Julie Collins, **Thanks**. We invite each of you to give generously to this fund so we can reach the base funding level quickly, and start making awards. Donations in any amount are welcome. You know how much difference every dollar makes to the students!

Marine Education Services

OCEANOGRAPHY DAY — FINAL REPORT

Oceanography Day was held on a cool, rainy and windy day, Saturday, April 24. Nevertheless, almost all the 300 Scouts scheduled to participate in *Oceanography Day* came anyway, along with over 100 Adult Scout Leaders. After registration, the program began with a flag-raising ceremony featuring Rick Pratt (keeper of the Aransas Lighthouse and spouse of MSI employee, Cameron), who played *The Eyes of Texas* as the flags were hoisted. Over forty faculty, staff, and student volunteers presented the program. Before being allowed to attend, the Scouts were required to pass the first six requirements for the Oceanography Merit Badge in writing. The following letters were received, along with their six requirements:

■ *My name is John W. Fowler Jr. I am ten years old. I became a Boy Scout in February 1997. Oceanography will be my second merit badge. I have my Space Explorer Badge, now I want to learn about the sea and sea life. I think the ocean is really neat. I am looking forward to visiting the Institute and sleeping overnight on the beach, listening to the waves and having little crabs crawl across my face. Thank you for helping me and the other Boy Scouts to earn the merit badge. I will see you soon.*

■ *I'm Mark Rodriguez and I'm very excited to go, if I can. I became a Boy Scout in 1996 and have earned five merit badges. I'm 12 years old and I play the saxophone for the Elgin Middleschool Band. I make straight "A's" on my report card and is loved by all teachers. I have 9 pets, a dog and 8 cats. The female just had six kittens. Well, God bless you, I sure hope I get to go. Bye.*

Following *Oceanography Day*, each Scout must write a 500 word report to complete their Oceanography Merit Badge. The excerpts below are from a few of the 207 reports already received:

■ *Trent Grimes:* Before I came to Oceanography Day, I was not considering being a Marine Biologist, but now, I am. It was very much like a magnet to me....I shall always remember that ride that day, and how that place might have changed my life. ■ *Marty Moore:* Dr. Burleson was neat he let us cut the stomach open and see what the fish ate....I learned a bunch of stuff on Oceanography day I will always remember that day. ■ *Jeff Fenn:* ...we dissected a fish, and then we took out the heart, some people's fish hearts were still beating, and we took out the stomach and got to see what they ate. That was really cool. ■ *Trey Towers:* ..then we pulled out the liver, eyelenses, and what ever we wanted. It was really cool (that is if you had a strong stomach!)....where an asteroid hit, a possibility on how the dinosaurs became extinct. It was located at the tip of the Yucatan Peninsula. It was really awesome.... way in the distance, if you looked hard enough, you could see a ton of dolphins. It was radical....the last one had been in Boy Scouts in England...He was really cool. ■ *Chris Feller:* I had a great time on Oceanography Day. ■ *Raymond King:* This is the best merit badge I have done. It was fun and meaningful. Some of the stuff I never knew about, like the crater you are going to read about. If I had to pick a favorite merit badge I've earned, I would pick the Oceanography Merit Badge ...Physiology—Burleson...this was a great session, even though it was kind of disgusting and messy. I guess I'll have to get used to dissecting before I get to biology class. This was one of the best days I ever had....It made me think that being a marine biologist might be an interesting career. ■ *Ryan Holeywell:* I learned a lot at Oceanography Day, and in the process I had a lot of fun. ■ *Kenneth McNeil:* My visit to the UT Marine Science Institute was extremely joyful. ■ *Zachary Koehn:* When I got home and my family asked how it was, I could describe my experience in one word. Awesome ■ *Ben Stubbs:* I don't think it would be right to start out with "when I went to the Oceanography Day event I learned a lot". That would not explain how fascinated and excited I was all day long. I loved going out on the *R/V LONGHORN*, it made me want to become a sea captain myself. ■ *Bruno Perossa:* ...when we arrived, we were ecstatic about our upcoming adventure...After exchanging our salutations, we stood in complete exhilarance as we heard the music of a bag pipe playing in the distance... ■ *Kevin*

Lanan: I used my smooth victoria secret black panty hose to build a plankton net (that's OK 'cause they didn't fit me anyway). ■ *Bill Shipley:* It was better than I thought it would be because the instructors made it fun and interesting, not boring. ■ *Allen Chao:* Then everybody had lunch. Sloppy Joe on a windy day. Yuk! ■ *Aaron Richter:* Last of all we got to go out on the *R/V LONGHORN*. (It was like being a pilgrim in an unholy land—I'm an Aggie.) ■ *Kyle Jung:* The *R/V LONGHORN* has its own alarm system to let the people on the boat know if there is too much water in the boat so they can let some out. ■ *Shawn Albright:* What was really exciting to me about this was that I was actually taking part in this, handling the squid and miscellaneous fish, looking at the plankton and just taking part in the voyage. Where as, I had only been able to watch such activities on TV before. ■ *Michael Pue:* Oceanography Day was one of the most exciting days on earth. ■ *Clinton Williams:* Then we went and ate out in the 100 mph wind. ■ *Matthew Wall:* We got to listen to a bagpipe player while the flag ceremony was going on. I really, really, liked the bagpipe player...I was glad we didn't have lunch yet because we opened the fish up and watched its heart beat! It was a little sick, but okay. Then we had sloppy joes and chips for lunch. I was glad we didn't have seafood. ■ *Paul Johnston:* I wish Oceanography Day occurred every year! I want to be a marine biologist when I grow up! ■ *Matthew Birkline:* Oceanography Day was very good and it was an honor to me to go there...This experience will always be in my memory of scouting. ■ *Robby Frost:* Oceanography Day was a fun-filled day filled with all sorts of neat and fun things to do. ■ *Jonathan Kidwell:* What really impressed me was that we kids were being taught by some of the most important professors of oceanography in the world. These were people of a great deal of experience and knowledge and I was able to hear them talk about their work in a field that is very important. It made me feel important and I appreciate it. ■ *Patrick O'Donnell:* After that we had to strip down and get our panty-hose (just kidding!) to make our plankton nets. ■ *Mark McCann:* Building a plankton net was fun and the pier lab and the *LONGHORN* trip was awesome. Oceanography Day was a blast. ■ *Mark Rodriguez:* When it was my turn to do the cutting, we had to cut out the heart. I couldn't do it because to me that was murder.....We also saw her feed the fish, and we all saw them run up and feast. She then took us to the back and showed us how the fish reproduce... ■ *John Thaler:* I tried to sleep on the way home, but I couldn't because I was busy thinking about oceanography. ■ *John Fowler:* Mr. Thompson shook my hand and threatened to make me sleep on the beach. ■ *Joseph Strong:* Once again, I want to thank everyone for their hard work in making *Oceanography Day* such a great and wonderful day for us Boy Scouts!



The Marine Education Services Staff has been busy this Spring. Judy Reynolds and Rick Tinnin led 18 ELDERHOSTELER's through a Spring Migration Intensive Studies program April 13-18 with field work supervised by local bird expert, Ray Little. We visited the beach, the Port Aransas bird center, birded down the island road, and spent time at Hans Suter Park in Corpus, Blucher and Hazel Bazemore Birding centers, Cape Valero and Goose Island State park. The group identified 166 species of birds during an active 4 days of bird watching.

The office of The University of Texas-Mustang Island ELDERHOSTEL program has moved from Beachhead Condominiums to M-111 of the MSI Administration Building. We enjoyed 3.5 years of rent-free office space graciously provided by Beachhead, but the managers retired and the new managers needed the space. Judy Reynolds, the Program Coordinator and her staff of two part-time assistants can be found there most everyday. Beachhead remains our primary site for housing all but the on-campus Intensive Studies and Service programs. We thank them for their hospitable support these past three and a half years.

The *R/V KATY* made it's annual trip to South Padre Island to support two scheduled teacher workshops as well as provide an opportunity for students in the Lower Rio Grande Valley to participate in the shipboard experience. It was an eventful trip down for Captain John and Bob Huntington. They encountered fog south of Port Mansfield, nosed into the bank to wait it out along with several barges and accidently backed up over some submerged hard object. An inspection by a diver in Port Isabel revealed

propeller damage. The *R/V KATY* was hauled out, and wheel and boat crew brought back to Aransas Pass where the wheel was straightened; everyone returned to Port Isabel early Monday morning to resume the class trips. Some cancelled trips were rescheduled. Meanwhile, Rick Tinnin was down on South Padre leading marsh field trips for 8 classes of Rio Hondo Elementary 3rd graders who were completing a study on Wetlands. The classes seined for fish and crabs, dug up fiddler crabs and studied the unique adaptations of the many species of salt tolerant plants fringing the bay shore.

The MES visiting class season is drawing to a close with the onset of the DMS summer teaching schedule and its use of the dormitories. We will end the year with two final teacher workshops. From May 26-31, I will host my "Blue Planet" teachers from Lago Vista Elementary for an intensive look at the marine habitats we have been studying for the past year. This project is aimed at improving the teachers' Attitudes, Skills and Knowledge of science and math through the use of two thematic units, the Ocean and Earth Science. This project is funded 5 years through the Southwest Educational Development Laboratory in Austin. On June 2-4, 50 teachers from Northside ISD in San Antonio will attend an inservice program on Project OCEAN. These teachers represent the 29th and 30th elementary school from that district that has participated in this inservice program since MSI started Project OCEAN in the district in 1989 with an NSF grant in partnership with the Ocean Alliance.

—Rick Tinnin

Egabrag Wocs

THE MSI STORAGE ODYSSEY — A contract has been awarded for the construction of a new warehouse. Efforts to obtain a warehouse for MSI first began in 1986. But the *storage odyssey* begins even earlier. In 1960 MSI's storage facility consisted of an old (and small) chicken house, cluttered with outboard motors (all with frozen powerheads) plus a small area underneath what is now Dormitory B (aka Old Men's Dorm). Storage was a disaster. The new building (now known as Administration Building) constructed in 1960 included excellent storage facilities to correct the deficiency. It was not so long, however, before the general shop and storage area was converted to a research laboratory and a recreation room; and the room designated on a neat bakelite sign, *Administrative Storage*, eventually became the domain which researcher Scott Holt now occupies. Soon, storage was a disaster. But UT purchased the Enco Marina, which included a 2,400 square foot former dancing pavilion. Plans were made and materials ordered to convert the old pavilion to a warehouse, but before the first board was nailed an edict was received that we should, instead, convert the pavilion to an on-campus residence for a commissioned University Police officer. It was only after many years that this unfortunate aberration to the true security needs of MSI was ended and the dancing pavilion became MSI's warehouse. Meanwhile, a new building program had constructed the Laboratory Building, which included excellent facilities—many large lockers and large walls of open storage shelves in the lower floor of the wet lab— to correct the storage deficiency. It wasn't long, however, before we were knocking a hole through the ceiling to *dump* the air-conditioned air from above (before the building was changed from a *once-through* system to a normal return system) to allow the space to be converted to research, and eventually a first-class HVAC system was added to this area. For a few months we did have a good storage building at MSI—the Dockside Building at FAML, which was constructed as a warehouse. But hardly had we begun to organize MSI's storage in this building when it was handed over to the Aggies (of course UT did get most of the other facilities in that deal) and we had only a week or so to remove our stored items. Finally and only after I had to personally rob two liquor stores and a wino to raise additional funds, MSI will have its warehouse. And the real reason it is being built on the far end of the campus can now be told—so it won't be converted into something else. Lets just hope we don't have to give it to the Aggies.

—John Thompson

Cruise Reports & Boat Operations



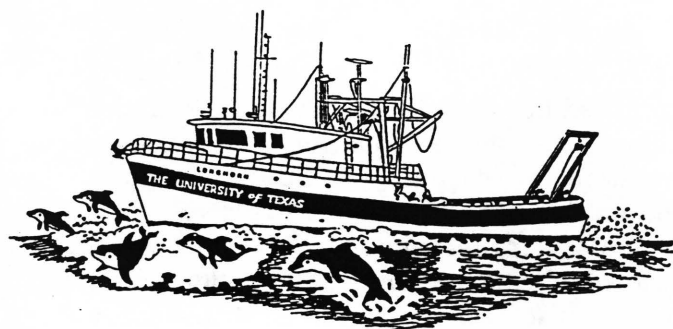
Cruise #97-684 —This trip took the *R/V LONGHORN* to the Master Marine Shipyard at Bayou La Batre, Alabama, and returned her to Port Aransas after a major refit and overhaul. The work at Master Marine consisted of sand blasting all the exterior of the hull and applying a complete new paint system. We carefully tested the thickness (audio-gauged) of all her plating and replaced one section which was deficient. Her freshwater tanks were inspected and cleaned and also her fuel tanks. A deficiency in the brownwater tank was corrected. The shipyard installed new air vents, rudder tubes, vents and fills to fuel tanks, Lexan in the transducer well, a portion of the keel cooler, replaced the jockey bar and replaced the anodes. Following completion of the work, we engaged a marine surveyor for a complete inspection and he stated *the vessel is in suitable condition for continued service and given acceptable maintenance should provide many years of service*. We are pleased with all the work we accomplished during this major haulout—the first major refit of the ship since her lengthening at the same shipyard in 1986. Unfortunately, due to the weather and an overload of work, the *R/V LONGHORN* was at the shipyard much longer than should have been necessary, and several scheduled trips had to be postponed.

Cruise #97-685 —April 26 was *Oceanography Day* at the Marine Science Institute. We were busy all day taking Scouts and leaders out on one-hour cruises. With the help of the *R/V KATY*, we took 300 boys and almost 100 leaders on the short cruises out to the Lydia Ann Channel.

Cruise #97-686 —*R/V LONGHORN* departed Port Aransas at 1830 on 5/12/97 for Freeport on a trip for the Texas Parks and Wildlife Department's Artificial Reef Project, returning back to homeport at 0930 on 5/16/97. Jan Culbertson of the TPWD was aboard as Senior Scientist along with Bryan Eastham and James Sinclair. Additional TPWD personnel were loaded at Freeport and the boat proceeded to the George Vancouver Liberty Ship Reef for tagging of red snapper and to survey fish traps. Senior Scientist Culbertson reported, *Great job done by captain and crew. Cook served excellent meals and was cooperative to scientific personnel's schedule. Fish was great!* The *R/V LONGHORN*'s crew assisted TPWD personnel in catching fish for the tagging work.

Cruise #97-687 —This cruise was just a short day-cruise on 6/3/97, primarily for a turtle release. Tony Amos was aboard as Senior Scientist. Personnel from all three Corpus Christi network television stations were aboard to cover the event.

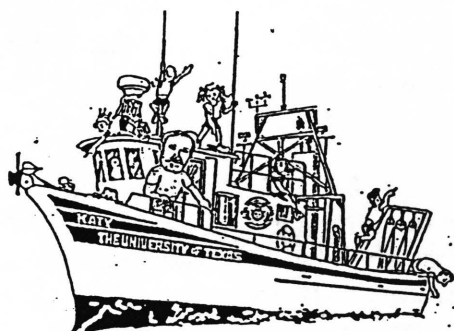
Cruise #97-688 —*R/V LONGHORN* departed Port Aransas at 0030 on 6/10/97 for another cruise for the TPWD's Artificial Reef Project, returning to homeport at 0615 on 6/12/97. Doug Peter was Senior Scientist and Bryan Eastham was aboard as Dive Master. Other TPWD personnel aboard were Jan Culbertson, Principal Investigator; Hal Osburn, Program Director; and Gene McCarty, Division Director. TPWD divers surveyed a rig site 60 miles Southeast of Port Aransas. After the diving was accomplished a buoy was deployed at a reef site offshore from Port Mansfield and another buoy was retrieved. We had great weather which made for a smooth operation. We were able to deploy a buoy and anchor and retrieve a buoy in a record 30 minutes time. Senior Scientist Doug Peter reported, *Crew cooperative in helping scientific group accomplish tasks. Cook graciously accommodated scientific teams erratic eating schedule.*



Cruise #96-676 ☆UPDATE☆ — We have received great news from Dr. Yosio Nakamura and Dr. Dick Buffler regarding last year's 20-day cruise to Mexico for the UT—Austin Geophysics Institute on the structure of the Chicxulub Impact Crater. Because of bad weather, one OBS was not recovered before the *R/V LONGHORN* had to return back to Port Aransas. The OBS was just recently found by Mexican fishermen on the beach near La Pesca and has been returned to Austin. It contained full data. The failure to recover this OBS, although unavoidable, was nevertheless a concern in an otherwise successful cruise. We are delighted to have received this wonderful news.

—Noe Cantu

R/V KATY SCHEDULE FOR APRIL, MAY, JUNE



APRIL

01 1300-1700	LIFEGATE CHRISTIAN SCHOOL, SEGUIN	BILL HOLMES
02 0800-1200	PHOENIX ACADEMY, LOCKHART	DOUG ALFIER
02 1300-1700	WINSTON SCHOOL, DALLAS	LEHMAN MARKS
03 0800-1200	LAMAR HS, TEMPLE	KARYL SCHILLER
03 1300-1700	WM JAMES MS, FORT WORTH	AVA MYERS
04 0800-1200	FORT WORTH COUNTRY DAY SCHOOL, FW	SHARON HAMILTON
04 1300-1700	TRINITY EPISCOPAL SCHOOL, VICTORIA	BETTY FREDERICK
07 0800-1200	LAGO VISTA ELEMENTARY, LAGO VISTA	KAREN GREEN
07 1300-1700	JOHN MARSHALL HS, SAN ANTONIO	SHERYL SOLANIK
08 0800-1700	TAFT HS, TAFT	SUE LANOUX
09 0800-1200	KEYSTONE SCHOOL, SAN ANTONIO	JOHN PRINCE
10 0800-1700	UTMSI ELDERHOSTEL	JUDY REYNOLDS
11 0800-1200	DUNBAR JR. HIGH, LUBBOCK	
11 1300-1700	BIOLOGY DEPT. TAMU COLLEGE STATION	DAVID OWENS
12 0900-1500	TNRCC	DARLENE GOORIS
15 0800-1700	GREGORY-PORTLAND JR. HIGH, PORTLAND	KIM SCHMID
16 0800-1200	ELDERHOSTEL	JUDY REYNOLDS
17 0800-1700	GREGORY-PORTLAND JR. HIGH, PORTLAND	KIM SCHMID
18 0800-1700	GREGORY-PORTLAND JR. HIGH, PORTLAND	KIM SCHMID
19 1300-1700	UTMSI WORKSHOP	RICK TININN
21 0800-1200	FAYETTEVILLE HS, FAYETTEVILLE AR	ROBIN BUFF
21 1300-1700	ALLEN HS, ALLEN	GAYLE MITTERER
22 0800-1200	MCNEIL HS, AUSTIN	SUSAN WILLSON
23 0800-1200	LBJ HS, JOHNSON CITY	STANLEY PROCHNOW
23 1300-1700	FLORENCE HS, FLORENCE	SHERI HILL
24 0800-1200	RIVIERA HS, RIVIERA	JOSEPHINE SMITH
24 1300-1700	MARION HS, MARION TX	KEITH MCDONALD
25 0800-1200	ROBERT E. LEE HS, TYLER	LISA BARTON
25 1300-1700	MESQUITE HS, MESQUITE	VIVIAN KINES
26 0800-1700	UTMSI OCEANOGRAPHY DAY	STAFF
28 0800-1200	LIBERTY HILL HS, LIBERTY HILL	CAROLYN COBB
28 1300-1700	STROMAN HS, VICTORIA	SHELLY HELLER
29	DEPART FOR PORT ISABEL	
30	RESERVED -- PORT ISABEL	

MAY

01	RESERVED -- PORT ISABEL	
02 0800-1200	NIKKI ROWE HS, MCALLEN	JOE KOWALLSKI
03 0800-1200	PSJA SCHOOL DISTRICT	BOB LONARD
03 1300-1700	CSL WORKSHOP	RICK TININN
05 0800-1000	LOS FRESNOS HS	PHILLIP DODSON
	(COMBINED WITH RIO HONDO HS	SANDY AGUILAR)
05 1000-1200	SAN BENITO HS	ROSALINDA GONZALEZ
05 1200-1600	NIKKI ROWE HS	KAREN DISQUE
06 1000-1400	PHARR SAN JUAN ALAMO HS	DAVID BENDER
07 0800-1200	MCALLEN MEMORIAL HS	JOEL SALINGER
07 1200-1400	PHARR SAN JUAN ALAMO HS	ANGELICA CISNEROS
08 1000-1400	PHARR SAN JUAN ALAMO SERVICE CENTER	BOB SOPER
08 1400-1800	ALAMO HS	ROY BROOKS
11	RETURN FROM PORT ISABEL	
13 0800-1200	FOREST TRAIL ELEMENTARY, AUSTIN	SANDY MEDINA
13 1300-1700	CEDAR VALLEY COLLEGE, LANCASTER	RON BEECHAM
14 0800-1200	BECKER ELEMENTARY, AUSTIN	PAT JOHNSON
14 1300-1700	CEDAR VALLEY COLLEGE, LANCASTER	RON BEECHAM
15 0800-1200	MARTIN MS, CORPUS CHRISTI	NANCY LONG
15 1300-1700	EASTFIELD COLLEGE, MESQUITE	GAYLE WEAVER
16 0800-1200	FOREST TRAIL ELEMENTARY, AUSTIN	SANDY MEDINA
19 0800-1700	ROGERS MS, SAN ANTONIO	MARY WILLIAMS
20 0800-1200	HILLCREST ELEMENTARY, DE VALLE	MARY KAY SEXTON
20 1300-1700	OZONA HS, OZONA	RON CASEY
21 0800-1200	NORH LAKE COLLEGE, IRVING	KENT REPPOND
22 0800-1200	ROBSTOWN HS, ROBSTOWN	REBECCA SULLIVAN
23 1300-1700	MEMORIAL HS, SAN ANTONIO	SYLVIA MANCILLAS
27 0800-1200	LOHN ISD, LOHN	RICHARD MOORE
28 0800-1200	BLUE PLANET WORKSHOP	RICK TININN

JUNE

03 1300-1700	NORTHSIDE ISD, SAN ANTONIO	DEBBIE TRAYNOR
05 0800-1200	BIOS, ORANGE	MICHAEL HOKE
09 0800-1700	ELDERHOSTEL	JUDY REYNOLDS
10 0800-1200	MARINE INVERTEBRATE CLASS	PAUL MONTAGNA
12 0800-1200	TAMUCC	DAVELYN FORREST
16 0800-1700	ELDERHOSTEL	JUDY REYNOLDS
19 0800-1700	VOGEL ELEMENTARY, SEGUIN	DAVID GETTIG
20 1300-1700	TAMUCC	DAVID MCKEE
27 0800-1200	TEMPLE JR. COLLEGE, TEMPLE	ED MORGAN

Trip Reports & Travel

Travel ending between March 22 and June 20

- *Peter Thomas*, March 20—23, Denver, Colorado, attend the Western/Southwestern Regional Conference on Comparative Endocrinology as organizer.
- *Todd Sperry, Izhar Kahn, Yong Zhu*, March 20—23, Denver, Colorado, attend the Western/Southwestern Regional Conference on Comparative Endocrinology and present paper.
- *Terry Whittedge*, March 24—25, Houston, Texas, attend Galveston Bay Estuary Program Research Coordination Board Meeting.
- *Noe Cantu*, March 27—31, Bayou La Batre, Alabama, monitor shipyard work on the *R/V LONGHORN*.
- *Peter Thomas*, April 1—2, Washington, D.C., attend Endocrine Disruptors Screening and Testing Advisory Committee Meeting.
- *Paul Montagna*, April 1—3, Metairie, Louisiana, attend Gulf of Mexico Modeling Workshop sponsored by the EPA.
- *Rick Tinnin*, April 1—4, New Orleans, Louisiana, attend National Science Teachers Association Conference and present activity and attend National Marine Educators Association Mid-Year Meeting as board member.
- *Ellery Ingall*, March 27—April 5, Seattle, Washington, attend Oceanography Society Meeting and coordinate summer cruise at University of Washington.
- *Noe Cantu, Randy Pritchard*, April 2—5, Bayou La Batre, Alabama, monitor progress of shipyard work on the *R/V LONGHORN*.
- *Paul Montagna*, April 3—6, Portland, Maine, present paper, *Effect of freshwater inflow on benthic production*, at a Benthic Ecology Meeting.
- *Terry Whittedge*, April 2—7, Seattle, Washington, attend Oceanographic Society Meeting and Arctic Submarine Cruise Meeting.
- *Peter Thomas*, April 6—7, Miami, Florida, present seminar at University of Miami.
- *Rick Tinnin*, April 11—12, Lago Vista, Texas, conduct teacher training as outlined in the Blue Planet program.
- *Scott Holt*, April 1—13, Woods Hole, Massachusetts, present seminar, *Movement of fish larvae from offshore spawning grounds to estuary nursery areas: Biological and physical process*, and meet with Phil Lobel and learn new sound analysis technologies.
- *Peter Thomas*, April 15—16, Boston, Massachusetts, make presentation, *Mechanisms of chemical interference with reproductive endocrine penetration in fish*, at the Symposium on Endocrine Disruptors in the Environment.
- *Steve Opsahl, Sue Ziegler*, April 14—18, South Padre Island, Texas, field work as part of research initiative in lower Laguna Madre.
- *Noe Cantu, Randy Pritchard*, April 14—20, Bayou La Batre, Alabama, to monitor shipyard work on the *R/V LONGHORN* and return ship to homeport.
- *Ellery Ingall*, April 17—20, Virginia, make presentation at Emory and Henry University.
- *Charles Rowe, Hayden Abel*, April 20—21, Bayou La Batre, Alabama, to return *R/V LONGHORN* to homeport from shipyard.
- *Paul Montagna*, April 21—24, Washington D.C., attend EPA panel review.
- *James Kaldy, Kun Seop Lee*, April 21—25, Port Isabel, Texas, research in Laguna Madre with National Marine Fisheries Service.
- *Terry Whittedge*, April 19—26, Fairbanks, Alaska, attend Bering Sea workshop and cruise meeting and make presentation.
- *Ron Benner*, April 24—26, Lewes, Delaware, attend dissertation as a member of an examining committee for Ph.D. candidate Niels Borch.
- *Rick Tinnin*, April 23—27, Boston, Massachusetts, attend ELDERHOSTEL coordinators conference and make presentation on service project.

- ✦ Ken Dunton, Kelly Machalek, Lanny Miller, April 4—May 1, Ottawa, Canada, conduct research on NSF project on effects of ozone depletion and increased UV radiation on Arctic Kelp, Resolute Bay, Canada.
- ✦ Izhar Khan, April 25—May 2, Bergen, Norway, present paper, *Estradiol and O, P'-DDT stimulate gonadotropic release in Atlantic croaker*.
- ✦ Bob Huntington, John Turany, May 2—5, South Padre Island, Texas, emergency travel to Port Isabel to assist in repairs of the R/V KATY.
- ✦ Ed Buskey, April 23—May 7, Carrie Bow Cay, British Honduras, carry out research on copepod swarm formation and myriad schooling behavior as visiting scientist.
- ✦ Rick Tinnin, May 4—7, South Padre Island, Texas, support R/V KATY trips in South Padre Island and work with Rio Hondo schools in marsh field trips.
- ✦ Paul Montagna, May 5—8, Marathon, Florida, Attend NOAA National Marine Sanctuary Program Review.
- ✦ Steve Opsahl, Sue Ziegler, May 6—9, South Padre Island, Texas, conduct field research in Laguna Madre.
- ✦ Lynn Tinnin, Terry Whittedge, Gretchen Westrick, April 30—May 16, Dutch Harbor, Alaska, participate in Southeast Bering Sea carrying capacity research cruise on the R/V MILLER FREEMAN.
- ✦ Christine Ritter, May 8—16, Ocean Springs, Mississippi, participate in cruise to deploy benthic biomoorings.
- ✦ Paul Montagna, May 11—17, Mexico City, Mexico, present seminar, *Fresh water inflow in Texas bays*, and perform research activities.
- ✦ Terry Whittedge, May 20—22, San Francisco, California, attend SCICEX-95 submarine cruise planning meeting as chief scientist.
- ✦ Wayne Gardner, May 25—26, Kingsville, Texas, perform sampling and experiments in Baffin Bay.
- ✦ Todd Sperry, May 25—29, Monte Carlo, Monaco, present paper, *Characterization of two nuclear androgen receptors with different binding specificities in the Atlantic croaker, Micropogonias undulatus*, at the 13th International Symposium of the *Journal of Steroid Biochemistry and Molecular Biology*.
- ✦ Peter Thomas, April 25—May 30, Bergen, Norway; Oporto, Portugal; Monte Carlo, Monaco; present paper, *The teleost membrane progesterone receptor: A novel site of action of xenoprogesterones*, at the 9th International Symposium on Pollutant Responses in Marine Organisms, University of Bergen, Norway; give lectures on, *Endocrine system and endocrine disrupting chemicals*, at the University of Porto, Portugal; visit Fish Endocrinology Laboratories Institute National Research Agriculture to discuss mutual research interests with Dr. Florence Legac and Valotaine in Rennes, France; visit Dr. Roland Billard, Museum of Natural History in Paris to discuss mutual research interests; present paper, *Characterization and regulation of a progesterone*, at the 13th International Symposium of Steroid Biochemistry and Molecular Biology in Monaco.
- ✦ Trina Loomis, May 27—June 9, Minneapolis/St. Paul, Minnesota, research at the University of Minnesota.
- ✦ Ellery Ingall, Lauren Clark, May 14—June 8, Seattle, Washington, participate in NSF sponsored scientific cruise to Vancouver Island region.
- ✦ Peter Lavrentyev, May 31—June 11, Buffalo, New York and Ann Arbor, Maine, attend Great Lakes Research Conference, field research, process and pick up samples.
- ✦ Ed Buskey, May 29—June 17, Maui, Hawaii, to work with Dr. Dan Hartline on NSF project, *Behavior and physiology of bioluminescent copepods*.

Attaboys

■ Special thanks to the guys at the shop for doing such a good job on constructing our biomoorings. We put them out in May. But, an especially good job was done containerizing the biomoorings on pallets. No tiles were broken during the numerous times we had to move the pallets prior to cruise departure. Thanks to your efforts the chaos of biomoorning transport and deployment (not to mention general cruise mobilization) was greatly minimized.

(To John Shaw, Wyatt Harris {& guys at the shop} from Paul Montagna)

■ I wanted to write and tell everyone what a fantastic time my staff and students and myself had at your Institute. The students talked all night and the way home about all the neat and interesting creatures they handled on the boat. Thank you ladies for all the wonderful food you fed us during our stay. The shrimp was my favorite! I appreciate all the hard work and patience each of you exhibit for the students of Texas and surrounding states. Linda thank you for taking care of us again this year, you are super! I look forward to returning next year with another group of students. I hope everything was left in good order. See ya next year.

(To Captain John, Bob, Linda and the Cafeteria Ladies from Steven M. Ray, Principal, Florence Middle School)

■ Letters addressed Dear U. T. Marine Science Institute were received from each of a group of students from the Lockhart Jr. High Phoenix Academy. While space does not permit printing all the letters, the following are excerpts:

Missy Delgado: ...I studied the hermit crab, flounder fish, and glass shrimp...

Pete Castillo: ...thanks for letting us use the pier lab. It was pretty cool...

Tommy Mireles: ...the pier lab was a great place to study and have a good time...

Nick Baltierra: ...boat gave us the opportunity to see many different animals in the ocean...

Derek Evans: ...shower was nice and the bathroom was clean....

George Estrada: ...if your restroom smells it is because Derek used one of your wonderful toilets...

Stella Gonzales: ...thank you for giving us the opportunity to ride the boat Katy. That was so cool!...

Jose Garcia: ...me and my friends slept like babies on those beds...

Monica Ann Gonzales: ...I learned a lot of neat things on that boat like how many eggs a blue crab lays...

Catarina M. Ware: ...to view some the Gulf Coast animals up close so we could examine their body parts....

■ I want to thank all of you for *going the extra mile* this week to make good on your commitments to schools for time aboard the *R/V KATY*. I have enjoyed watching my students amazement as they begin to discover and learn. It is often hard to gauge the impact this experience has on them. After the *R/V KATY*, I see them initiate investigations with keener interest and more patient observations. They seem to have a greater sense of connection with their natural environment. Their feelings and attitudes about the beach and gulf go beyond sun tan oil. There is a positive change in appreciation of their own environmental backyard. This certainly can't be measured by a TAAS score, but it can be reflected in better, closer relationships with *things natural* in the rest of their lifetime. That should be a goal of any community as it educates its own future.

(To Rick Tinnin, Linda Fuiman, Bob Huntington, John Turany from Karen Disque, Rowe High School)

Personnel

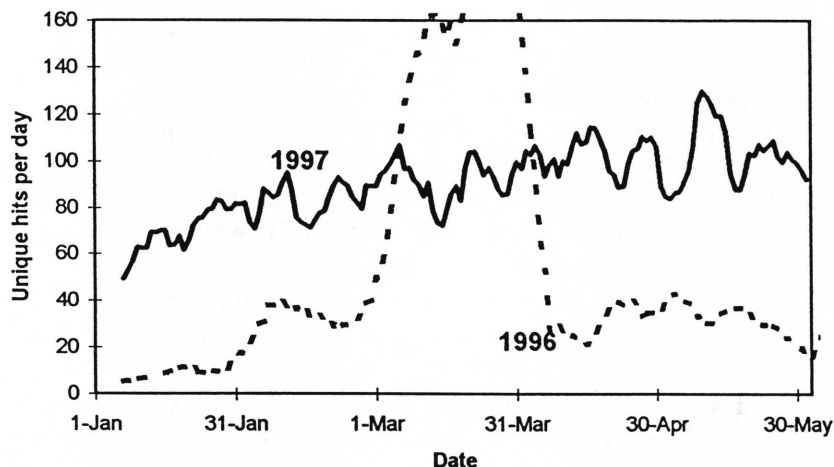
■ **Clark Hubbs** has received the George Miksch Sutton Award in Conservation Research from the Southwestern Association of Naturalists. Clark serves on the MSI Advisory Council.

■ **Andrea Cantu**, former MSI student, spouse of Senior Captain Noe Cantu and science teacher at Port Aransas' Brundrett Middle School, is in Austin this week as leader of four students chosen to participate, all expenses paid, in the 1997 Careers in Engineering for Women summer program. The team was one of only 16 in the state selected. Of the four young ladies on the team, three are daughters of MSI personnel: **Karli Dunton, Joanna Jackson, Stephanie Tinnin.**

■ **Vicki Roberson** has another granddaughter. Mike and Amber had a little girl May 5 at Doctors Regional Hospital in Corpus Christi. Her name is *Emily Darlene Roberson* and she weighed 8 lbs. 1/4 oz and is 21 inches long. Big sister Anna (age 2) is really happy about having a playmate. Vicki now has four granddaughters and one grandson.

■ **Veril and Barbie Barr** had their baby Saturday, May 3 at 3:00 in the afternoon. *Collin Dean Barr* weighed 5 lbs. and 9 oz; mother and baby are doing fine. Veril is doing o.k. too.

Visitors to the MSI Web Site



A CHANGE IN THE WEATHER

Our WWW site continues to enjoy consistent growth in the number of visitors. During April, there were 3,063 visitors and during May there were 3,161 visitors, averaging 102 per day. This is three times as many as in the same months last year.

This month we added a couple of new features that should make using our WWW site easier and more fun. First, we added access to the *Texas Coastal Ocean Observation Network* (TCOON). Now, you can obtain data on air temperature, water temperature, wind speed, wind direction, barometric pressure, and water level from TCOON's Port Aransas station, located on the channel at the Fisheries and Mariculture Laboratory. You can request a graph or table for any of these measurements, spanning almost any range of time periods at intervals of 0.1 or 1 hour. TCOON also provides data for a number of other stations along the Texas coast, and our page provides a link to their site, so you can obtain other data as well.

After adding the TCOON link, we realized that we have several different pages of environmental information on our web site. So, we reorganized the site a bit so that you can access any of the environmental information from one page. Check out the link for *Port Aransas Environment* on our home page.



Finally, fearing that our WWW site has grown to be too complex and that users may have difficulty finding what they want, we have added a search feature to the site. Now, you can search the entire MSI web site for any word or combination of words. Give it a try. It's located right on the main page, next to *What's New*.—Lee Fuiman

Seminars

- Dr. Alan J. Lewitus, University of South Carolina, *Phytoplankton dynamics in North Inlet Estuary: Seasonal variation in top-down vs. bottom-up regulation*, March 25.
- Dr. James L. Pinckney, University of North Carolina, *Nutrient regulation of phytoplankton community dynamics and ecosystem processes*, April 1.
- Andy Soto, Texas A & M - Kingsville, *Trophic interactions of newly settled red drum and Atlantic croaker*, April 1.
- Scott Stewart, Department of Marine Science, UT-Austin, *The role of vision in the behavior of the medusa Tripedalia cystophora (Cnidaria, Cubozoa)*, April 18.
- Dr. Sidney A. Gauthreaux, Jr., Clemson University, *Radar ornithology: A new conservation tool*, April 30.
- Cynthia Faulk, Department of Marine Science, UT-Austin, *Effects of parental exposure to o,p'-DDT on behavior of Atlantic croaker larvae*, May 2.
- Claire Fernandez, Department of Marine Science, UT-Austin, *The effect of temperature on larval fish growth: changes in RNA:DNA ratios of larval red drum (Sciaenops ocellatus)*, May 15.
- James Piper, UT-Austin, *Downslope sediment transport processes and sediment distributions at the East Breaks, Northwest Gulf of Mexico*, May 30.
- Dr. Andrea Raz-Guzman, Instituto de Ciencias del Mare Y Limnologia Universidad Nacional Autonoma de Mexico, *Ecology of seagrass beds in Laguna de Terminos*, Friday, June 13.

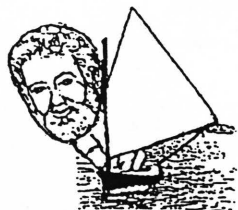
Tony's Tidings...

Dear Scout Troop 791:

I was stunned when I opened the rather battered envelope which Scoutmaster Ehrig handed me after *Oceanography Day*! The generous amount of the check inside (\$500) will make a real contribution to our proposed Sea Turtle Rehabilitation Center. Although it was not possible to show 300+ scouts and leaders the sea turtles we are presently caring for, had you seen the tanks they are occupying now, you would have realized how much we need a proper building to house them. We have 18 turtles ranging in size from two loggerhead hatchlings at about one pound each to "Big Bertha", a loggerhead weighing in at 150 lb. In between we have hawksbills, Kemp's ridleys, and green turtles. The problem now is that their tanks are exposed to the sun and the water circulation is weak. As the weather gets warmer, there are all the ingredients (which, of course, you all know from *Oceanography Day* lessons) for making a "soup" of phytoplankton and algae—sunlight, sluggish water, and nutrients (food scraps and the turtles' droppings). In the winter we don't have so much algae, but the outside temperatures are too cold and a freeze can kill the turtles. The new building will solve these problems with protection from the sun, a re-circulating water supply, and heating in the winter. Your contribution will help us realize our goal of providing the turtles (which come in injured or sick) a proper habitat until they are ready to be returned to the wild.

Thanks again, boys!

Anthony F. (Tony) Amos
Research Associate

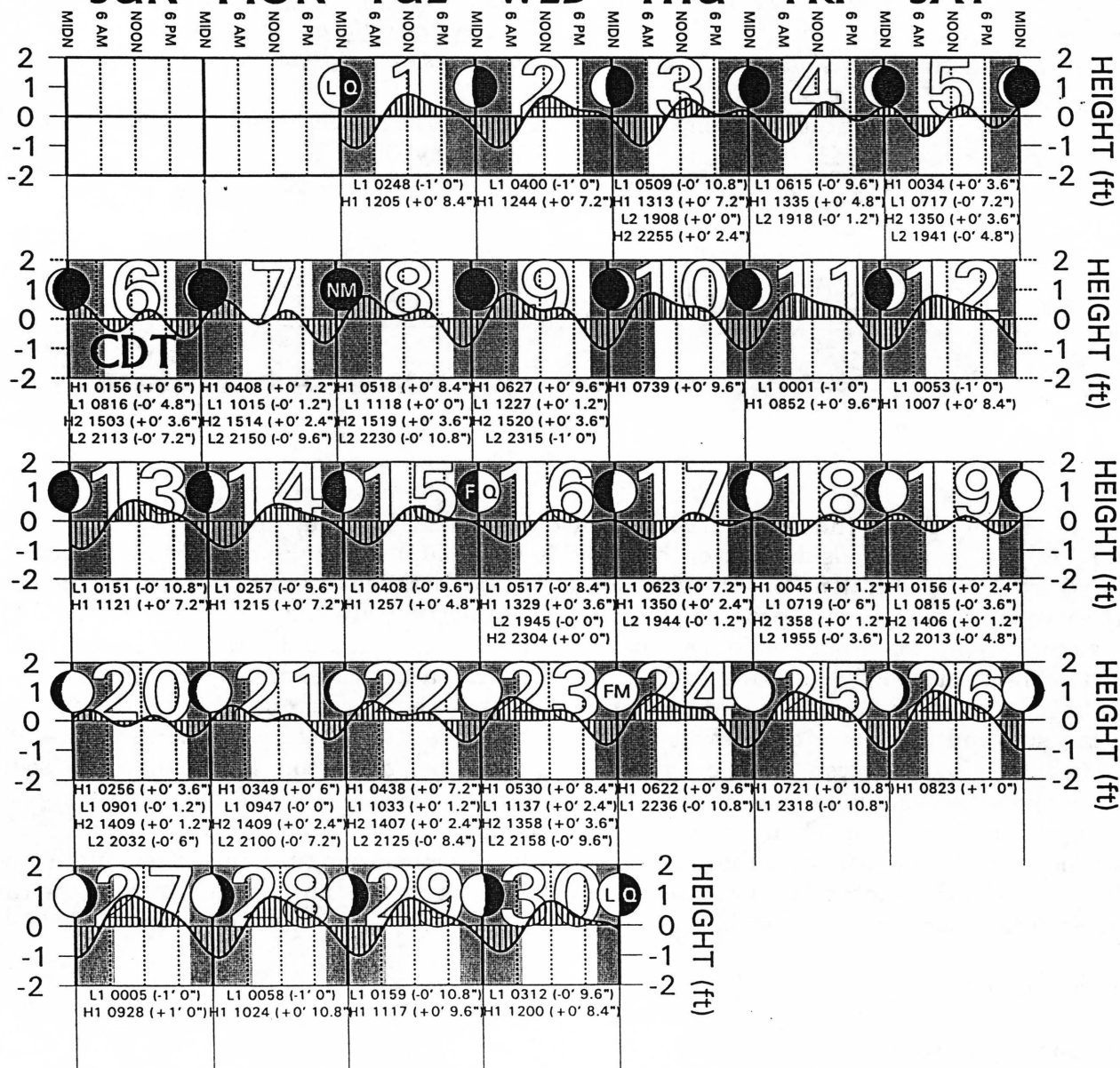


(Tide predictions are for tidal heights at the tide tower, South Jetty, the Aransas Pass. Heights are in feet above or below mean sea level. The shaded area is nighttime. Remember, this is tidal height, not tidal current. Slack water is when the wiggly line crosses the MSL line, not at peaks and valleys, where the tidal current will be at full flood or ebb.)

APRIL

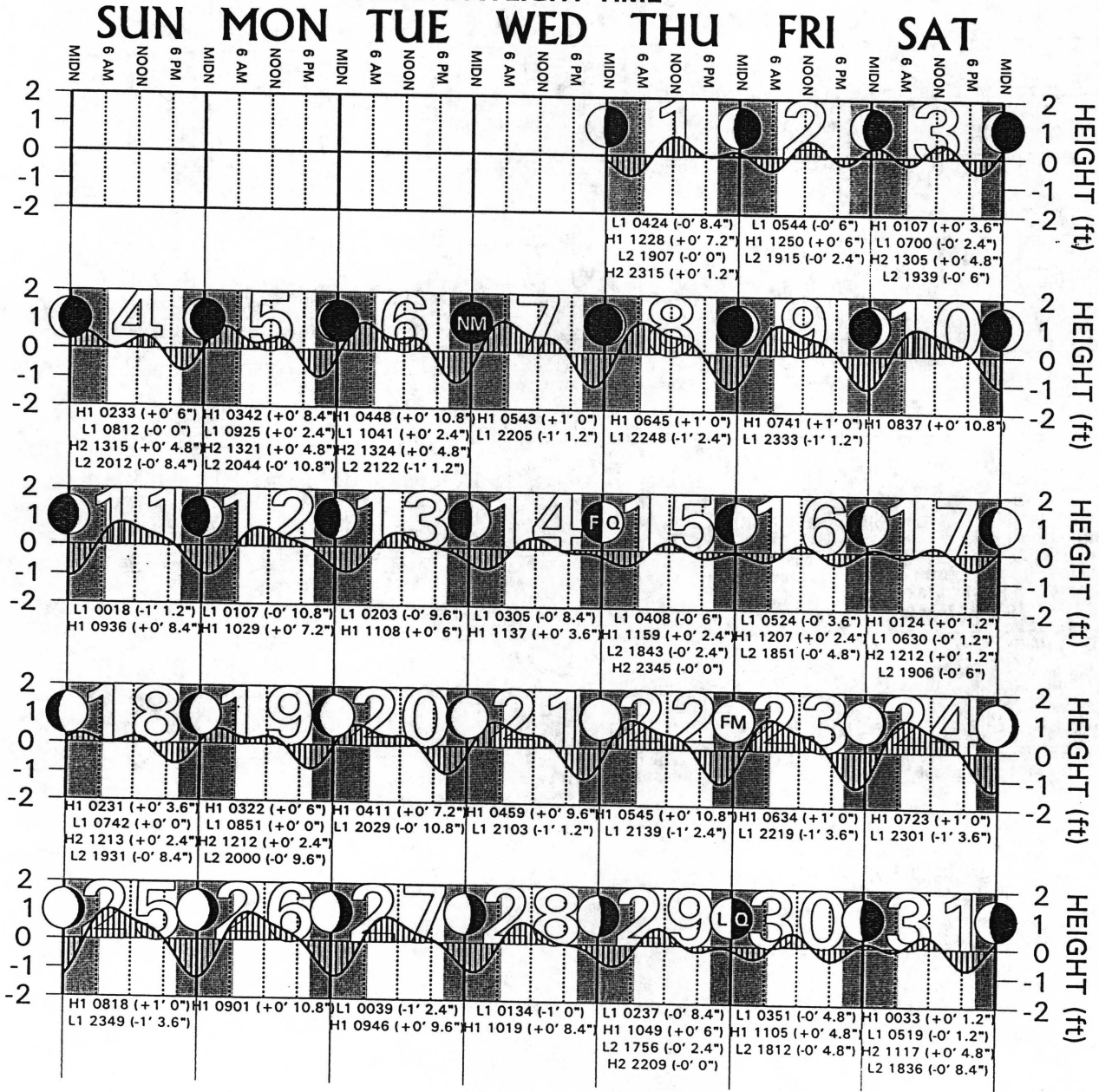
CENTRAL DAYLIGHT TIME STARTS AT 2 AM ON APRIL 6

SUN MON TUE WED THU FRI SAT

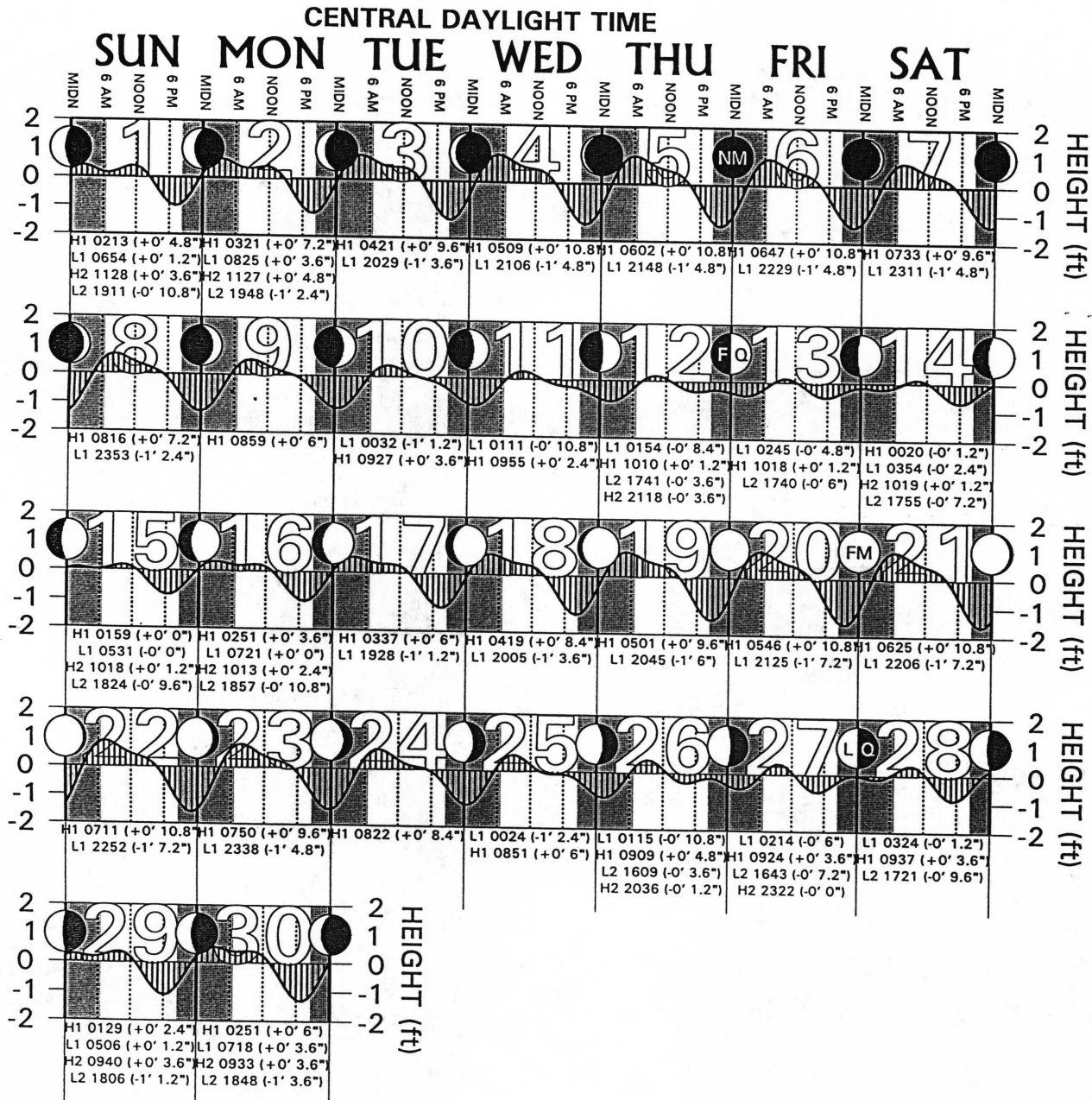


MAY

CENTRAL DAYLIGHT TIME



JUNE



Weather Report for 17 March 1997 - 27 April 1997

17- 23 MAR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	17	18	19	20	21	22	23	
AIR TEMP	HIGH 73.4	73.9	69.9	71.7	73.2	74.6	74.8	73.1
AIR TEMP	LOW 66.3	67.2	59.9	52.1	60.2	66.5	63.6	62.3
SEA TEMP	LOW --	64.6	--	62.6	--	66.7	--	64.6
RAINFALL	TOTAL 0.44	1.19	0.00	0.00	0.00	0.00	0.00	1.63

24 - 30 MAR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	24	25	26	27	28	29	30	
AIR TEMP	HIGH 76.2	76.2	70.3	72.8	77.1	77.7	75.9	75.2
AIR TEMP	LOW 68.9	61.8	59.3	66.9	66.9	69.8	64.4	65.4
SEA TEMP	LOW 69.1	--	64.2	--	68.7	--	71.6	68.4
RAINFALL	TOTAL 0.00	0.11	0.00	0.00	0.00	0.00	0.05	0.16

31 MAR - 6 APR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	31	01	02	03	04	05	06	
AIR TEMP	HIGH 73.0	71.9	75.0	77.0	77.5	75.5	80.4	75.6
AIR TEMP	LOW 61.3	66.5	66.5	66.7	72.6	62.0	67.6	66.1
SEA TEMP	LOW --	67.6	--	68.5	--	68.4	--	68.1
RAINFALL	TOTAL 0.02	0.13	0.86	3.73	0.13	0.00	0.00	4.87

07 - 13 APR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	07	08	09	10	11	12	13	
AIR TEMP	HIGH 76.6	75.0	--	--	78.9	61.5	55.9	69.6
AIR TEMP	LOW 65.4	70.5	--	--	60.4	48.3	50.5	59.0
SEA TEMP	LOW 67.9	--	69.8	--	70.7	--	61.6	67.5
RAINFALL	TOTAL 0.02	0.07	0.00	0.00	0.01	0.00	0.00	0.10

14 - 20 APR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	14	15	16	17	18	19	20	
AIR TEMP	HIGH 68.5	72.8	74.8	72.6	69.4	75.5	80.7	73.5
AIR TEMP	LOW 53.2	59.0	62.0	62.4	63.1	67.4	67.2	62.0
SEA TEMP	LOW --	63.5	--	66.5	--	66.9	--	65.6
RAINFALL	TOTAL 0.00	0.00	0.00	0.00	0.69	0.02	0.00	0.71

21 - 27 APR 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	21	22	23	24	25	26	27	
AIR TEMP	HIGH 78.6	84.3	76.8	--	76.5	72.0	66.0	75.7
AIR TEMP	LOW 70.5	70.5	64.9	72.0	71.9	61.7	58.7	67.2
SEA TEMP	LOW 70.9	--	67.2	--	72.5	--	67.9	69.6
RAINFALL	TOTAL 0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.44

—Tony Amos

Weather Report for 28 April 1997 - 15 June 1997

28 APR - 04 MAY 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	28	29	30	01	02	03	04	
AIR TEMP HIGH	80.7	76.1	76.8	78.8	78.8	78.6	78.2	78.3
AIR TEMP LOW	--	67.6	70.1	71.0	72.3	68.7	64.7	69.1
SEA TEMP LOW	--	67.0	--	71.7	--	70.8	--	69.8
RAINFALL TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

05 - 11 MAY 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	05	06	07	08	09	10	11	
AIR TEMP HIGH	76.8	81.1	79.8	82.2	78.6	69.9	74.6	77.6
AIR TEMP LOW	69.6	71.2	71.2	72.1	67.4	64.0	64.9	68.6
SEA TEMP LOW	69.8	--	74.4	--	76.2	--	71.5	73.0
RAINFALL TOTAL	0.00	0.00	0.00	0.00	1.21	0.01	0.00	1.22

12 - 18 MAY	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	12	13	14	15	16	17	18	
AIR TEMP HIGH	79.5	75.9	81.3	83.3	80.0	82.0	82.0	80.6
AIR TEMP LOW	65.6	65.4	71.9	71.9	68.5	72.6	73.4	69.9
SEA TEMP LOW	--	73.6	--	77.3	--	68.4	--	73.1
RAINFALL TOTAL	0.17	0.00	0.00	0.01	0.54	0.00	0.00	0.72

19 - 25 MAY 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	19	20	21	22	23	24	25	
AIR TEMP HIGH	82.5	82.9	82.4	82.7	78.2	83.4	83.3	82.2
AIR TEMP LOW	74.8	71.0	71.4	74.1	72.8	76.2	77.0	73.9
SEA TEMP LOW	--	--	--	--	--	--	80.0	--
RAINFALL TOTAL	0.00	0.00	0.68	0.00	1.29	0.00	0.00	1.97

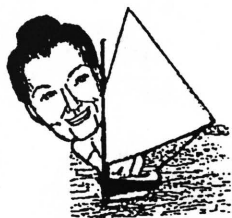
26 MAY - 01 JUN 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	26	27	28	29	30	31	01	
AIR TEMP HIGH	84.2	84.7	87.6	85.2	85.1	88.1	84.2	85.6
AIR TEMP LOW	77.7	77.5	71.7	73.9	77.7	75.3	70.7	74.9
SEA TEMP LOW	--	80.5	--	79.1	--	--	--	--
RAINFALL TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

02 - 08 JUN 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	02	03	04	05	06	07	08	
AIR TEMP HIGH	83.1	85.2	86.0	84.5	86.5	87.4	86.0	85.5
AIR TEMP LOW	73.0	71.2	73.0	76.4	69.2	69.4	74.2	72.3
SEA TEMP LOW	78.5	--	80.0	--	--	--	--	--
RAINFALL TOTAL	0.00	0.00	0.00	0.00	1.30	0.29	0.00	1.59

09 - 15 JUN 1997	MON	TUE	WED	THU	FRI	SAT	SUN	MEAN
DATE	09	10	11	12	13	14	15	
AIR TEMP HIGH	86.9	87.9	86.9	86.1	86.7	86.9	86.9	86.9
AIR TEMP LOW	76.4	78.6	77.3	78.0	79.8	80.0	80.0	78.6
SEA TEMP LOW	--	81.6	--	82.3	--	81.6	--	81.8
RAINFALL TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

—Tony Amos

Library



We have received from binding 240 serial volumes. For those who have been anxiously waiting, these titles include *Marine Biology*, *Marine Ecology Progress Series*, and *Aquaculture*. Another 195 volumes are in Austin being bound now and further volumes are being prepared for binding at this time in the library. Please be patient with us during this preservation process. You will want to know that the majority of the funds needed for this project have been provided by the Marine Advisory Council. The preservation project is the forth phase of cataloging this collection. We cannot place item records of serials holdings on UTCAT until they are bound. You will begin to see a major difference in the *look* of the collection as these newly bound serials appear on the shelves

NEW BOOKS IN THE MSI LIBRARY

General Libraries Automated Book Purchase Plan —

GC 11.2 B76 1997 MSL

The Universe Below: Discovering the secrets of the deep sea.

William J. Broad

Simon & Schuster

GC 228.6 S655 S67 1996 MSL

The South Atlantic: present and past circulation.

Gerold Wefer, et al.

Springer

HA 29 W49 1996 MSL

Applied statistics for the marine affairs professionals.

Niels West

Praeger

QH 91.75 A1 A 35 1997 MSL

Marine protected area and ocean conservation.

Tudi Spring Agardy

R. G. Landes

QH 541.5 G76 G77 1997 MSL

Groundwater/surface water ecotones: biological and hydrological interactions and management options.

Edited by: Janie Gilbert, et al.

Cambridge University Press

QL 639.3 B46 1997 MSL

Behavioural Ecology of Teleost Fishes.

Edited by: Jean-Guy J. Godin

Oxford University Press

SH 135 S87 1997 MSL

Sustainable Aquaculture.

Edited by: John E. Bardach

John Wiley & Sons, Inc.

TD 196 P4 B 87 1977 MSL

Oil Spills.

Joanna Burgerf

Rutgers University Press

GC 10.4 M36 L38 1997 MSL

Mathematical methods for oceanographers: an introduction.

Edward A. Laws

John Wiley & Sons, Inc.

GC 97 E79 1996 MSL

Estuarine shores: evolution, environments and human alterations.

K. F. Norstrom & C. T. Roman

John Wiley & sons, inc.

GC 97.7 A7813 1996 MSL

Geochemistry of organic matter in river sea systems.

V. E. Artemyev

Kluwer Academic Publishers

GC 1081 M36 1997 MSL

Marine debris sources impacts and solutions.

Edited by: James M. Coe & Donald B. Rogers

Springer

QC 981.8 C5 B54 1996 MSL

Oceans and climate.

Grant R. Bigg

Cambridge University Press.

QL 639.1 H6 V.15 1996 MSL

The fish immune system: organism, pathogen, and environment.

Edited by: George Iwama & Teruyuki Nakanishi

Academic Press.

GL 737 C432 K58 1996 MSL

ORCAvisions of the killer whale.

Peter Knudtson

Sierra Club Books.

SH 328 W67 1992 MSL

Fisheries resource utilization and policy. Proceedings of the World Fisheries Congress, Theme 2.

Robert M. Meyer, et al.

Science Publishers, inc.

TD 224 07 1997 MSL

River quality: dynamics and restoration.

Edited by: Antonius Laenen & David A. Dunnette

Lewis Publishers.

Mary Anderson Abell Library Funds —

QE 501.4 N9 F38 1986 MSL
Principles of isotope geology. 2nd ed.
Gunter Faure
John Wiley & Sons, inc.

Marine Science Advisory Council —

QH 96.57 A1 L3513 1997 MSL
Limnoecology: the ecology of lakes and streams.
Winfred Lampert, Ulrich Sommer, Translated by J. F. Haney
Oxford University Press

QH 344 N55 1996 MSL
Nitrogen cycling in the North Atlantic Ocean and its watersheds.
Robert W. Hobarth
Kluwer Academic Publishers

GB 460 U6 C58 1989 MSL
Coastal Land Loss.
Orrin H. Pilkey, et al.
AGU.

QE 72 16 1989 MSL
Coastal depositional systems, Northwest Gulf of Mexico.
John R. Suter & Robert Morton
AGU.



Editor's Note

I overdid it with all the *Oceanography Day* reports quotes, but here is another: Earl Macklin of Houston, *Even though the gentleman (yours truly) had a beard he didn't look all that old.* To be called a gentleman and not that old in the same sentence, raised my spirits and got me going—after far too long—on the *Lazarette Gazette*. Tony Amos made his one-hour *Oceanography Day* presentation wearing his old English Scout Uniform, and dazzled the Scouts with magical tales of the Antarctic. So many favorable comments have been received that I stopped sending them on to Tony, but I did send this one: *I*

could hardly see his face (due to the beard). While Tony Amos, Bill Behrens, and I have been noted by several Scouts as *old guys*, we have not achieved the status of B. J. Copeland and Dick Hoese—designated as *legends* (reunion correspondence of Joe Morgan and Bill Slingerland). We should add Clark Hubbs (see *Personnel*), Dick Hoese's major professor, to membership in both categories. I apologize to all for taking such a long time to finally produce this issue of the *Lazarette Gazette*. It is too thick and some will think there are things which did not need to be included, but the *Laz Gaz* serves several purposes, and at least in so far as the weather, tide tables, *R/V LONGHORN* cruises, travel, and seminar records are concerned, I wished to keep intact the 5 years of information recorded in the *Lazarette Gazette*.

—John Thompson