



Southern California Association of
Marine Invertebrate Taxonomists

3720 Stephen White Drive
San Pedro, California 90731

December 1990

Vol. 9, No.8

NEXT MEETING: Flatworms

GUEST SPEAKER: John Ljubenkov, MEC Analytical Systems Inc
Carol Paquette, MBC Applied Environmental
Tony Phillips, Hyperion Treatment Plant

DATE: Monday, January 14, 1991, 9:30 A.M.

LOCATION: Cabrillo Marine Museum
San Pedro, CA

MINUTES FROM MEETING ON December 10th & 11th, 1990

Barnard Amphipod Workshop: The first day of the workshop was spent examining some deepwater Orchomene specimens collected in bait traps at depths of 1500 ft around the Channel Islands. It was not resolved whether the animals represent various morphs of Orchomene abyssorum, or a new species. The consensus was that more specimens are needed to define the range of variation in these animals. SIO participants brought along a film of living Orchomene cf. abyssorum. The film clearly demonstrated the swimming and feeding movements of this species.

Doug Deiner, MEC Analytical Systems Inc., presented a key to Hippomedon of southern California. The key is included in this newsletter. Ron Velarde, City of San Diego, ran an Orchomene workshop for shallow water southern California species.

On the second day of the workshop, two species of Cerapus were examined; both appeared to be new species. Jim Thomas, Reef Foundation, agreed to describe both of these new species.

Sue Garner, SIO, brought in some specimens of Ingolfiellidea collected from magenese nodules. That is as far as we went on this rare group of amphipods.

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CHEVERON USA, AND TEXACO INC.

SCAMIT newsletter is not deemed to be a valid publication
for formal taxonomic purposes.

Four species of Foxiphalus were examined: F. major, F. golfensis, F. obtusidens and F. xiximeus. Aside from the most frequently used characters, Carol Paquette reported that F. golfensis has mi-lateral setae on the pleons which allows for a quick identification.

SCAMIT presented Dr. Barnard with a plaque (with a engraved picture of Listriella difusa) in appreciation for his years of help with amphipod taxonomy. In addition, SCAMIT also gave Dr. Barnard an Audobon book: Hummingbirds of the Carribean.

Biological Criteria Workshop: Larry Lovell represented SCAMIT at the EPA workshop on Biological Criteria: Research and Regulations held at the Crystal City Hyatt Regency Hotel, Arlington Virginia, on December 12th and 13th, 1990. The conference was sponsored by the U.S. EPA, Office of Water. SCAMIT's poster presentation was entitled "Regional Standardization of Taxonomy: The Southern California Association of Marine Invertebrate Taxonomists (SCAMIT)". The poster was only up for an hour and a half, allowing participants about 5 minutes to look at each of the 18 posters. There were many positive comments on the professional look of the poster as well as the work of SCAMIT in southern California. The conference addressed the current and future use of biological criteria as an environmental assesment tool. Major sessions were devoted to: Habitat Variation, Reference Condition, Designing Biological Surveys, Representation of Biointegrity, and Evaluation of Non-Attainment of Use. Each topic, (except the last), had speakers covering applications for streams and rivers, lakes and resevoirs, and estuaries, wetlands, nearshore marine waters.

There were approximately 200 - 250 participants at this national conference. The EPA will publish proceedings of the conference in the near future. A copy of this publication may be obtained from:

George Gibson
Office of Water, U.S. EPA
Washington, D.C. 20460

One of the most memorable quotes overheard at the conference was "If it's a group you despise, use a larger mesh size".

Spionidae Workshop: The Spionidae workshop will be in the San Diego area during February, 1991. If you have any provisional species that you would like to discuss at the meeting, Larry requests that you send a specimen to him prior to the meeting.

Larry Lovell
1036 Buena Vista Dr.
Vista, CA 92083

SCAS Annual Meeting: SCAMIT is working on sponsoring a symposium for the 100th anniversary of the SCAS meetings during May 1991. If you have a paper to present please contact Ron Velarde or Larry Lovell.

L.A. Co. Mus. Nat. Hist. Weekly Seminars: The schedule of seminars at the Los Angeles County Museum of Natural History from January 10th to March 14th 1991 is included in the newsletter.

New Literature: Roney, J.D. 1990. A new species of marine amphipod (Gammaridea: Ampeliscidae) from the sublittoral of southern California. Bull. Southern Calif. Acad. Sci. 89(3):124-129.

****Note:** This is a description of SCAMIT's Ampelisca sp. A.

SCAMIT Christmas Party: The SCAMIT Christmas party was a great success. The recipe for success included good food, lots of kids, Santa Barnard and a dash of holiday cheer. Thanks to everyone who helped and participated.

SCAMIT Officers: If you need any other information concerning SCAMIT please feel free to contact any of the officers.

SCAMIT Officers:

President	Ron Velarde	(619) 226-0164
Vice-President	Larry Lovell	(619) 945-1608
Secretary	Ross Duggan	(619) 226-8175
Treasurer	Ann Martin	(213) 648-5317



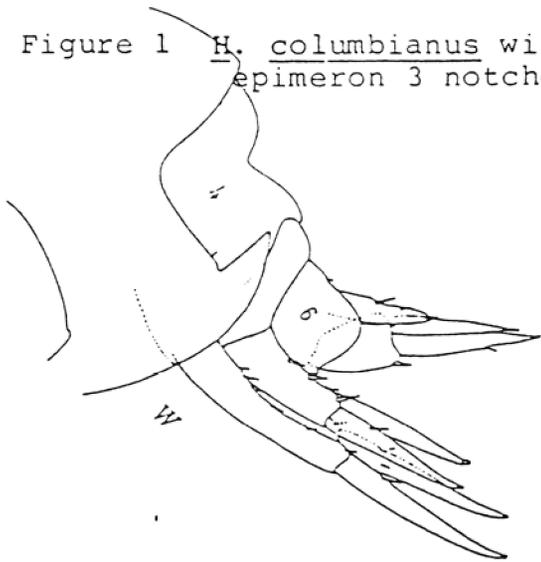
KEY TO NORTH PACIFIC SPECIES OF Hippomedon

Note most California species with epimeron 3 notched have been called H. denticulatus, however, this name is not valid for the specimens along our coast which do not fit this Atlantic species described by Bate.

1. Epimeral sideplate 3 with basal notch (Figure 1)..... 2
 Epimeral sideplate 3 without basal notch 6
2. Gnathopod 2, palm long, concave, dactyl much shorter than palm (Figure 2)H. columbianus
 Gnathopod 2, palm short, dactyl equal to palm 3
3. Antenna 1, peduncular segment 1 strongly produced anterodistally into an acute process reaching beyond segment 2, telson not heavily armed and without setules (Figure 3)....H. denticulatus
 Antenna 1, peduncular segment 1 not strongly produced into an acute process, telson not as Figure 3..... 4
4. Uropod 3, rami broad, margins parallel, tapering only at the tips, segment 2 outer ramus short (Figure 4)H. orientalis
 Uropod 3, rami tapering distally, segment 2 outer ramus rather elongate 5
5. Gnathopod 1 almost transverse (Figure 5)H. coecus
 Gnathopod 1 oblique.....H. sp. A
6. Urosomal segment 1 with prominent keel, crystalline eye lens presentH. holbolli
 Urosomal segment 1 without prominent keel or crystalline eye lens 7
7. Gnathopod 2, dactyl distinctly shorter than palm (Figure 2). 8
 Gnathopod 2, dactyl equal to palm 11
8. Peraeopod 7, posterior margin of segment 2 strongly tapered distally (Figure 6)H. pacificus
 Peraeopod 7, posterior margin of segment 2 weakly tapered .. 9
9. Gnathopod 1, segment 6 (propodus) broadened distally, peraeopods 5, 6, and 7, posterior marginal serrations of basis without setaeH. eous
 Gnathopod 1, segment 6 not broadened distally, peraeopods 5, 6, and 7 posterior marginal serrations with inserted seta 10
10. Gnathopod 2, segment 5 twice as long as segment 6, telson elongate, twice as long as broad (Figure 7)H. granulatus
 Gnathopod 2, segment 5 less than twice as long as segment 6, telson of medium length, less than twice the width....H. tenax
11. Uropod 3, rami broad, margins parallel, tapered only at tip (Figure 8)H. punctatus
 Uropod 3, rami slender and tapered distally 12

12. Peraeopods 5, 6, and 7, serrated posterior margins of segment 2 without inserted setae, observe under compound microscope H. propinquus
Peraeopods 5, 6, and 7, serrated posterior margins of segment 2 with inserted setae 13
13. Uropod 2, peduncle with one apical spine and rami naked or with at most one spine, no strong spines on peraeopod 4, H. zetesimus
Uropod 2, peduncle and rami spinose 14
14. Peraeopod 4, segment 5, posterior margin with 3 strong spines (Figure 9) H. subrobustus
Peraeopod 4, segment 5, without 3 strong spines...juv. H. sp. A

Figure 1 H. columbianus with
epimeron 3 notched



H. subrobustus without
epimeron 3 notched

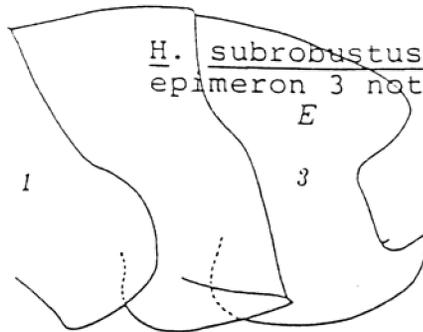
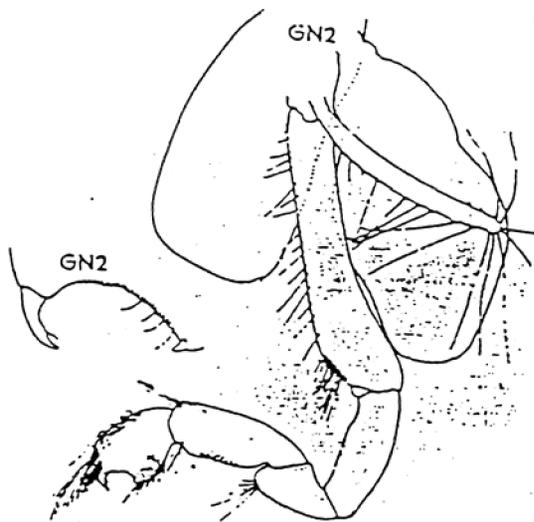


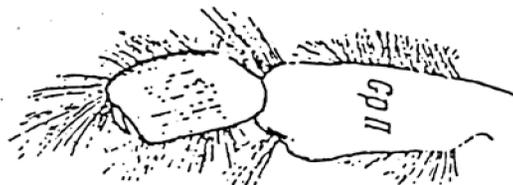
Figure 2 Palm longer than dactyl



H. columbianus



H. granulatus



H. pacificus

Figure 3 produced antennae 1 and telson H. denticulatus

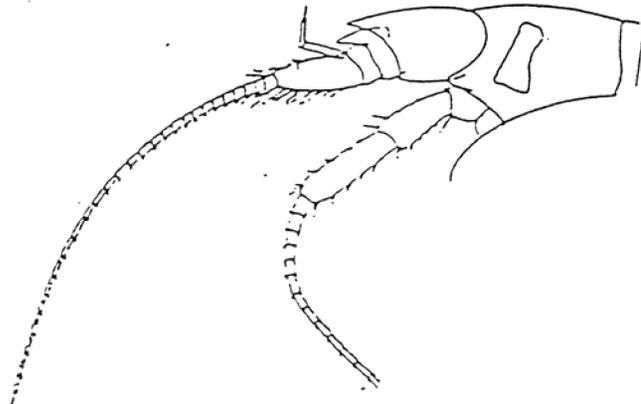


Figure 4 broad rami of uropod 3, telson and epimeron 3 of H. orientalis

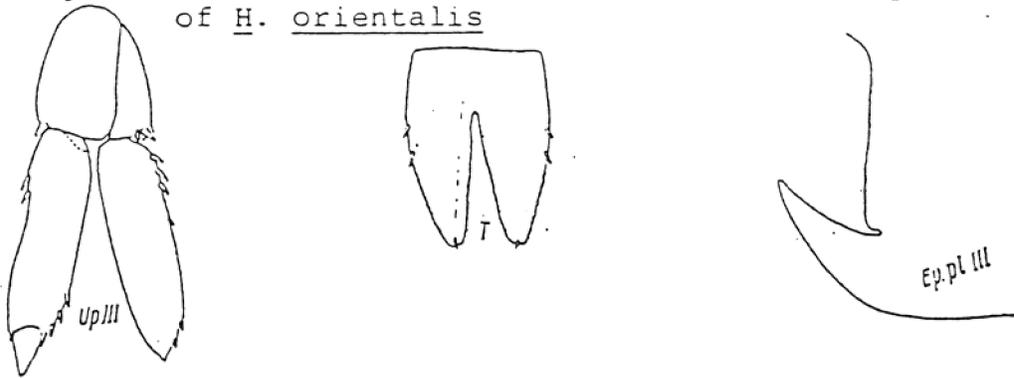
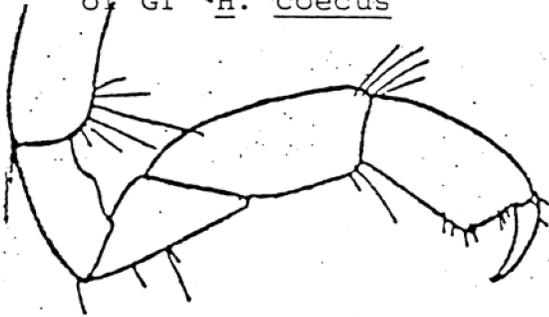


Figure 5 almost transverse palm of G1 of H. coecus



Oblique palm of H. sp. A

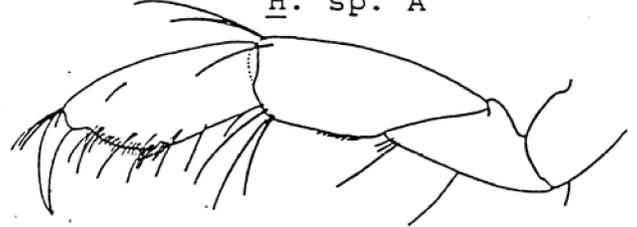


Figure 6 tapered post. coxal margin of P7 H. pacificus



non-tapered post. coxal margin of H. granulosis

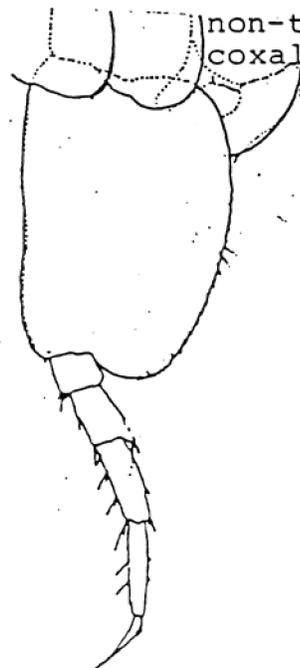
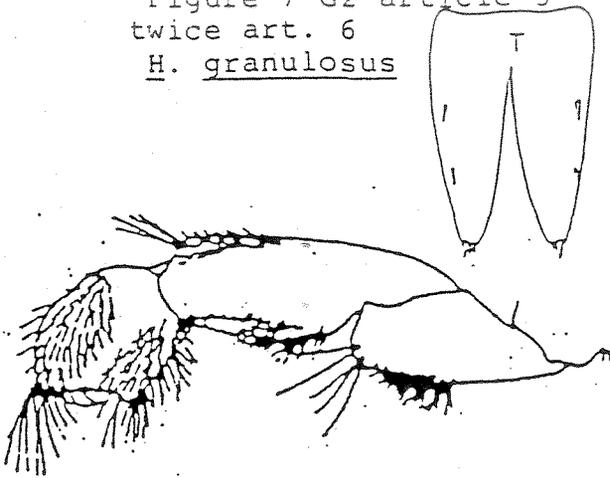


Figure 7 G2 article 5
twice art. 6
H. granulosis



G2 art. 5 less than
twice art. 6
H. tenax

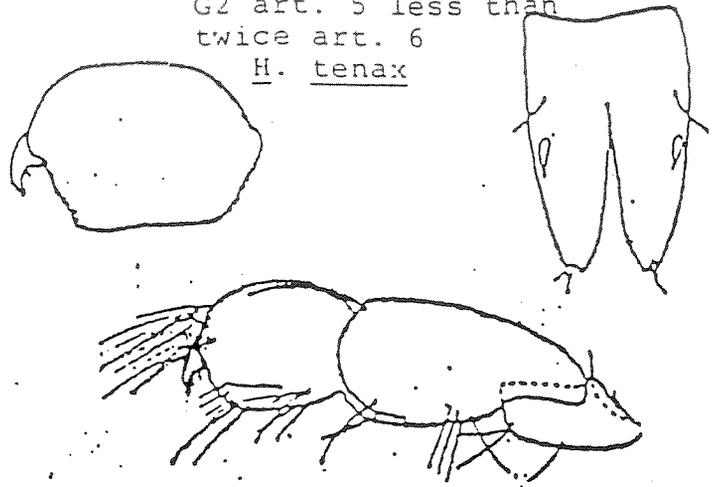
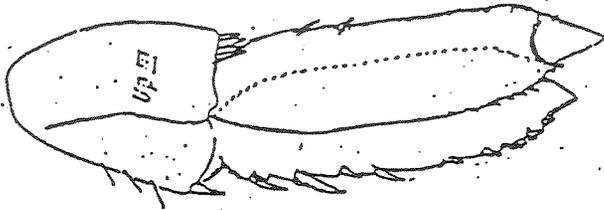


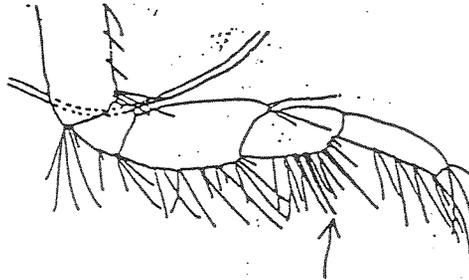
Figure 8 U3 broad H. punctatus



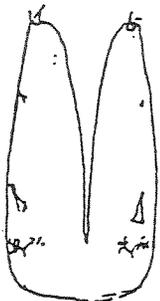
U3 tapered H. zetesimus



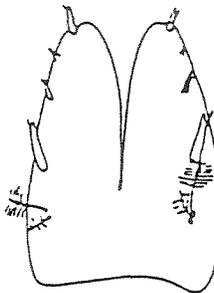
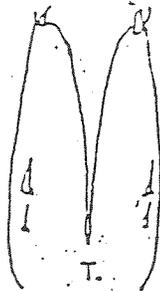
Figure 9 Peraeopod 4 with 3 strong spines H. subrobustus



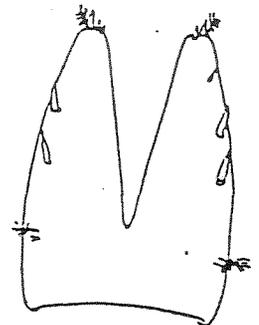
Telsons of common species



H. zetesimus



H. sp. A



H. subrobustus

Natural History Museum 
RESEARCH SEMINARS

PLEASE POST / CIRCULATE

Covering History and the Natural Sciences

WINTER 1991 SCHEDULE

- 10 JANUARY SHARON D. BLANK - *Conservation Section, LACMNH*
WHAT IS A CONSERVATOR AND WHY ON EARTH DO WE NEED ONE?
- 17 JANUARY ALFRED W. EBELING - *University of California, Santa Barbara*
SEVERE STORMS, SEA URCHINS, AND SOUTHERN CALIFORNIA KELP FORESTS
- 24 JANUARY J. D. STEWART - *Vertebrate Paleontology Section, LACMNH*
TOOTHED BIRDS OF THE CRETACEOUS: IMPLICATIONS FOR AVIAN ORIGINS AND INTERRELATIONSHIPS
- 31 JANUARY BRUCE N. RUNNEGAR - *University of California, Los Angeles*
WHAT WERE THE VENDOZOA? -- EARLY ANIMALS OR SOMETHING ELSE?
- 7 FEBRUARY DAVID S. WOODRUFF - *University of California, San Diego*
FROGS AND SNAILS AND GIBBON TALES: ALLOZYMES AND DNA SEQUENCES IN SYSTEMATICS AND EVOLUTIONARY BIOLOGY
- 14 FEBRUARY M. GUY BISHOP - *Seaver Center for Western History Research, LACMNH*
THE FOUR-MINUTE MEN OF LOS ANGELES COUNTY DURING WORLD WAR I
- 21 FEBRUARY RICHARD L. SQUIRES - *California State University, Northridge*
TETHYAN FOSSILS IN THE AMERICAS: NEW CORAL REEF INVERTEBRATES FROM THE EOCENE OF BAJA CALIFORNIA SUR, MEXICO
- 28 FEBRUARY CHERYL L. WATTS - *University of California, Los Angeles, and Mammalogy Section, LACMNH*
SYSTEMATICS OF THE GENUS *BLARINA*: NORTH AMERICAN SHORT-TAILED SHREWS
- 4 MARCH [MONDAY] WILLIAM GLEN - *U. S. Geological Survey, Menlo Park*
MASS EXTINCTION: IMPACT, VOLCANISM, OR ?
- 7 MARCH SHELI O. SMITH - *Los Angeles Maritime Museum, San Pedro*
THE RONSON SHIP: NAUTICAL ARCHEOLOGY AND 'THE SHIP BENEATH THE CITY'
- 14 MARCH DAVID R. LINDBERG - *University of California, Berkeley*
PHYLOGENY OF THE GASTROPODA: HISTORY, TRENDS, AND CLASSIFICATION
-

ALL SEMINARS ARE THURSDAY AFTERNOON AT 3:00 P.M.
IN THE TIMES MIRROR CONFERENCE ROOM
(basement level, west end of building)

NATURAL HISTORY MUSEUM OF LOS ANGELES COUNTY
900 EXPOSITION BLVD., LOS ANGELES, CA 90007

Coffee / Refreshments available at 2:45 PM

— ALL INTERESTED PERSONS ARE INVITED TO ATTEND —