

REVIEW

Cadien (in) Straughan & Klink (1980)

A very useful list of opisthobranch species "Known" (?) from the southern California bight. As this document qualifies as formal journal publication, I am compelled to point out several severe problems in the opisthobranch section. They are undocumented and unsupported synonymies of two species: *Aplysiopsis enteromorphae* (Cockerell & Eliot, 1905) = *Aplysiopsis smithi* (Marcus, 1961) = *Phyllobranchopsis enteromorphae* C. & E. *Flabellinopsis iodinea* (Cooper, 1862) = *Coryphella sabulicola* Cowen & Laur, 1978. Although I tend to agree with the latter, an explanation of the basis for these changes would certainly be preferable; and, many species included in the list are of questionable status and have avoided collection and/or documentation since originally described. This, of course, is a reflection upon the need for a little "formal" house cleaning on many of our older species, particularly those of the Bullomorpha.

To my knowledge, this may be the first "formal" reference to *Tritonia diomedea* as a senior synonym to *T. exsulans*, although Thompson (1971) did imply it.

Many new species are known from the bight, however, only one is listed here, Cadien's *Rumcinida* sp. (?)

Because this document is not widely available, two points of interest should be noted: a) the range extension of *Alderia modesta* from Elkhorn Slough to Newport Bay, California, 300 miles, and b) although dropped by Smith & Carlton, 1975, *Aglaja nana*'s range is extended from San Francisco Bay to Newport Bay, California, 375 miles. Does this mean that *A. nana* is still valid? Other than these oversights, a formidable work. - Dave Behrens.

FOR SALE

Dave Behren's book entitled "Pacific Coast Nudibranchs" is still available from the OPISTHOBRANCH NEWSLETTER at \$14.95 plus \$1.00 for shipping. California residents must add appropriate sales tax. A review of this book appeared in the San Luis Obispo TELEGRAM-TRIBUNE on Saturday, December 20, 1980 which includes a picture of Dave and of *Chromodoris macfarlandi*. About 2000 copies of Dave's book have been sold to date.

READER REQUESTS

Howard Katzman wants information on Arctic and Antarctic biology including unpublished photos. Howard is a Los Angeles teacher and is working on a paper for school including possible publication. Contact him at 2043 Veteran Ave., Los Angeles, CA 90025.

Bob Burn wants a few preserved specimens of *Cylichnella inculta* (Gould, 1855) to compare with local fauna found in Australia. He would like to obtain any of the Californian bullomorphs in exchange for similar Australian material or nudibranchs.

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FIRST CLASS MAIL

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A COLOR VARIATION IN **CHROMODORIS MACFARLANDI** (NUDIBRANCHIA: DORIDACEA). by David W. Behrens, 416 Lilac Drive, Los Osos, CA 93402.

Personal observations of a large number of specimens and literature concerning the cryptobranch dorid nudibranch **Chromodoris macfarlandi** Cockerell, 1901 has shown the characteristic notal striping to be highly consistent. Color descriptions by Cockerell (1901), MacFarland (1966), Keen (1971), McDonald (1977) and Behrens (1980) indicate a body color of deep violet with three solid yellow to cadmium orange longitudinal stripes. The median stripe begins about half way between the anterior margin of the notum and the rhinophores, and continues posteriorly to the branchial sheath. The midlateral pair begin just behind the rhinophores and pass posteriorly midlaterally, encircling the branchial pocket, where they unite. MacFarland (1966:155) reports that in one specimen several scattered small spots of yellow were observed on the mantle behind the gill and the union of the lateral stripes were prolonged posteriorly into a broad point, the tip of which was encircled by the above spots. Reported here is an additional yet more pronounced example of this color variation.

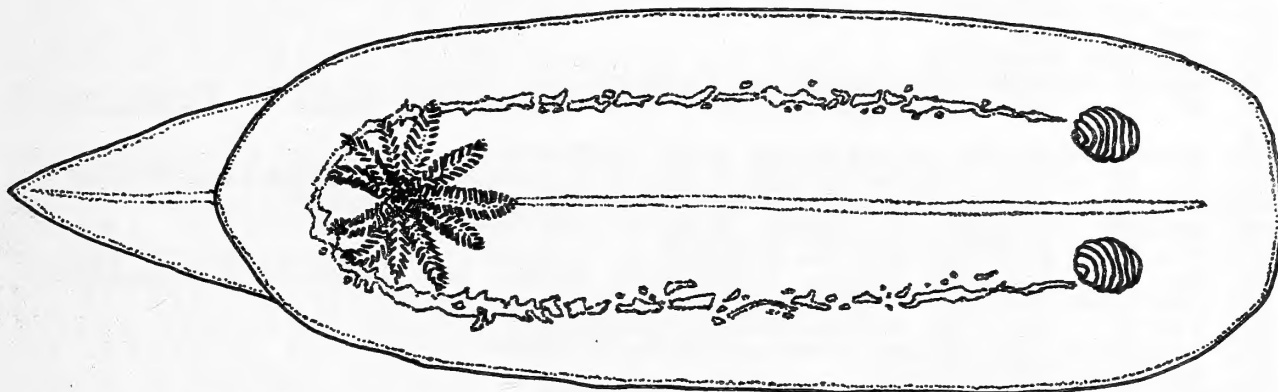


Figure 1: **Chromodoris macfarlandi**, Cockerell, 1901

On November 3, 1979, a variant colored individual of **C. macfarlandi** was collected by Mr. John Warrick, Pacific Gas and Electric Company, while conducting intertidal surveys in Diablo Cove, San Luis Obispo County, California (figure 1). The specimen measuring 40mm in length, was marked by quite irregular midlateral striping. Typical in all other characteristics, the midlateral stripes were broken into a series of scattered irregular yellow spots. Less dense anteriorly, the spots formed an irregular stripe posteriorly. Although never actually stated in the above color descriptions, the midlateral stripes are always with this exception smooth and unbroken.

ON CITATION NUMBERS FOR LITERATURE CITED: 9970, 0463, 2470, 8023, 9979

CALL FOR SPECIMENS

Currently there are some 30 undescribed species of opisthobranchs, on the west coast alone. Most of these species are in the process of being described by one or more researchers. Specimens, photographs, and all types of biological and ecological information are welcomed by those trying to describe them. This section will contain preliminary information (not descriptions) along with names of anyone known to be working with the animal. The intent is absolutely NOT to describe anything new to science here. I am hopeful that knowledge of who is working with which animals will lead to a useful exchange of information and/or specimens. For example, it seems ridiculous to me that **Doris** s.l. still exists without proper naming. Please direct future solicitations to **Opisthobranch Newsletter - CALL FOR SPECIMENS**. This column may also be used to solicit specimens of species already described).

?**Discodoris** - See Behrens, 1980 (figure 149). Deep water. Central to Southern California. Pure white cryptobranch dorid. Small branchial plume and sparse tubercles. (D.W. Behrens & R.H. Henderson)

?**Taringa** - See Behrens, 1980 (figure 147). Southern California. Subtidal in kelp holdfasts. Sparse, large, distinct papillae on the notum. Rhinophores and gills are cream with brown specs. Very cryptic. (D.W. Behrens & R.H. Henderson)

Porostome with yellow gills - See Behrens, 1980 (figure 146). Intertidal and subtidal. Egg mass flat and coiled, attached on its edge. (J. Lance & D.W. Behrens)

White Porostome - See Behrens, 1980 (figure 143). Pure white with deep purple gills and rhinophores. Deep water, southern California. (J. Lance & D. Behrens)

?**Coryphella** - See Behrens, 1980 (figure 155). Cedros Island, Mexico. Body violet.

Head tentacles, rhinophores and cerata violet at base, followed by a red band, then yellow to white apically. Rhinophores lamellate. (D. Behrens)

Aeolid from Morro Bay, California. White, flesh to salmon cerata (six rows) which arise from ridges. Behrens, 1980 (figure 162). Front margin of head flat, forming a plow-shaped veil. (D. Behrens)

Lake Merritt's Aeolid - Behrens, 1980 (figure 154). Oakland, California. Tiny, cream body with green cerata. (D. Behrens)

Aldisa sanguinea - Sandra Millen.

Laila cockerelli - Dave Behrens.

Porostome. Known from Santa Cruz Island. Large, 60-70mm in length. Body yellow with a scattering of brown spots or blotches on the notum. Branchial plume and rhinophores yellow-white with brown at tips. A white line around margin of notum. (D.W. Behrens)

ERRATA TO BEHRENS' BOOK

Dave Behrens has provided an errata to his book -- Pacific Coast Nudibranchs: A Guide to the Opisthobranchs of the Northeastern Pacific. The most significant errors lie in the oversight of Lambert (1976) making some of Dave's northern range limits a little short. Other errors are minor, even a few US/Canadian border disputes over Vancouver and Puget Sound. Errors in capitalization and minor punctuation are left out here. Corrections are underlined, except for deletions, which are noted.

- Page 14, para 7 - autotomized
 18, 4 - Lou Barr (Sorry Lou)
 26, - Figure 4
 28, line 7 - Fig. 1c
 30, para 2 - over 100
 32, No. 3 - California, south to Ecuador.
 34, No. 7 - delete Retusa harpa, change Acteocina harpa to Acteocina
inculta
 36, No. 12 - Alaska to Newport Bay, California.
 38, No. 15 - Baja California and Gulf of California to Guaymas, Mexico.
 40, No. 18 - Pearse Island, British Columbia to San Diego
 46, No. 29 - Vancouver Island, B.C. to San Diego
 50, No. 37 - Porcher Island, B.C. to
 50, No. 39 - Barkley Sound, Vancouver Island and coast of Washington to
 52, No. 42 - Vancouver Island
 60, No. 58 - Porcher Island, British Columbia
 60, No. 59 - Vancouver Island, British Columbia
 69, No. 75 - Hedgpeth's
 70, No. 78 - Dundas Island, British Columbia
 72, No. 81 - Alaska to San Diego
 72, No. 84 - Pearse Island, B.C. to
 74, No. 86 - Porcher Island, British Columbia
 76, No. 92 - Pearse Island, British Columbia to Duxbury Reef
 80, No. 98 - Pearse Island
 80, No. 99 - To 70 mm. Alaskan Border to Bahia
 82, No. 101 - Porcher Island, B.C. to
 84, No. 107 - Pearse Island, B.C. to
 84, No. 108 - Puget Sound, Washington
 88, No. 113 - Porcher Island, British
 90, No. 118 - Note: Rare in California, very common during summer in British
Columbia, also ... collected in California.
 100, para 3 - and the size range...
 100, No. 138 - Copper Cove
 100, No. 139 - Howe Sound
 100, No. 144 - PHYLLIDIA
 Page 101, No. 144 - PHYLLIDIA
 104, No. 154 - LAKE MERRITT AEOLID
 108, last citation - Smith, Ralph
 109 - Angels okenia NOT Angeles
 109 - Burrowing aeolid 104
 109 - La Jolla aeolid 104
 109 - Misaki aeolid NOT Misaki's
 109 - Morro Bay aeolid 104
 110 - White porostome 104
 111 - move all Cratena listings to just after Coryphella
 111 - Cumanotus sp. 104
 111 - Cylichnella culcitella 34
 111 - Dendronotus sp. 102
 112 - Eubranchus sp. 104
 112 - Jorunna sp. 100
 112 - Laila 64
 112 - Phyllidia 100
 112 - Stiliger fuscovittatus
 112 - Tergipes sp. 104
 112 - Trinchesia sp. 104
 112 - Tritonia sp. 102
 112 - Tylodina

ADDRESS CHANGES AND ADDITIONS

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Larry Andrews, 15707 - 37th N.E., Seattle, WA 98155

BIBLIOGRAPHY OF OPISTHOBRANCHIA

Please help me with citations! I have a terrible time with incomplete citations. Include publication date, volume number, issue number, pagination, figures, plates, tables, maps, complete publication name, and any new species names. I also appreciate knowing what language the paper is written in and the language of any summaries or abstracts. If any of this information is not included on the reprint, please write it in for me. Thank you.

BROWN, G.H. & B.E. PICTON, 1980. Nudibranchs of the British Isles. THE UNDERWATER CONSERVATION SOCIETY, c/o Zoology Department, University of Manchester, Oxford Road, Manchester, M13 9PL, England. 107 photographs bound in with text (16.50 British). [I do not have a more complete citation on this and would appreciate help from readers]

CAREFOOT, THOMAS H. Pacific Seashores - A Guide to Intertidal Ecology. [I do not know when or where published; has branch information; please send complete citation]

9981 BALLESTEROS, M. & J.A. ORTEA, 1980. Contribución al conocimiento de los Dendrodoridae (Moluscos: Opisthobranquios: Doridáceos) del litoral Ibérico. I. PUBLICACIONES DEL DEPARTAMENTO DE ZOOLOGIA, UNIVERSIDAD DE BARCELONA, FACULTAD DE BIOLOGIA, 5:25-37, figs. 1-5. [Spanish, English summary; *Doriopsilla evanae* n. sp., *D. areolata*, *D. pusilla*, *D. pelseneeri*, *D. albopunctata*, and others]

9982 BEHRENS, DAVID, May-June 1979. Hang Gliding -- Underwater. SEA FRONTIERS, :150-153, 4 photos. [*Chelidonura inermis*]

9983 CAREFOOT, THOMAS H., 1980. Studies on the nutrition and feeding preferences of *Aplysia*: Development of an Artificial Diet. JOURNAL OF EXPERIMENTAL MARINE BIOLOGY AND ECOLOGY, 42(3):241-252, 1 fig., 7 tbls.

9984 CATTANEO, RICCARDO, October 1980. Mollusc Fauna of Some Marine Caves of the Sorrentina Peninsula (Naples). COMMISSION INTERNATIONALE POUR L'EXPLORATION SCIENTIFIQUE DE LA MER MEDITERRANEE - MONACO. XXVIIe CONGRESS PLENARY ASSEMBLY, CAGLIARI, OCTOBER 9-18th, 1980, BENTHOS COMMITTEE, 2p. [English; French summary; About 14 spp.]

9985 COCKBURN, T.C. & R.G.B. REID, 1980. Digestive Tract Enzymes in Two Aeolid Nudibranchs (Opisthobranchia: Gastropoda). COMP. BIOCHEM. PHYSIOL., 65B:275-281, tbls. 1-2, figs. 1-3. [*Hermisenda crassicornis*, *Aeolidia papillosa*]

9986 FARMER, WESLEY M., 1980. Sea-Slug Gastropods. W.M. FARMER ENTERPRISES, INC., 177pp., 157 illust. [\$10.00 W.M. Farmer Enterprises, Inc., P.O. Box 26653, Tempe, AZ 85282]

9987 HARRIS, LARRY G., MARK POWERS & JULIA RYAN, July 1, 1980. Life History Studies of the Estuarine Nudibranch *Tenellia fuscata* (Gould, 1870). VELIGER, 23(1):70-74.

9988 JANSSEN, RONALD, October 24, 1979. *Berthelinia* und *Julia* aus dem Oligozän von SW-Frankreich (Gastropoda: Sacoglossa). ARCHIV FÜR MOLLUSKENKUNDE, 110(1/3):75-79, figs 1-3. [German; French summary; *Berthelinia* (*Berthelinia*) *oligocaenica* n. sp., *Julia girondica*]

2470 KEEN, A. MYRA, 1971. Sea shells of tropical west America: marine mollusks from Baja California to Peru. ed. 2. Stanford University Press, Stanford, California, pp. i-xiv, 1-1066, 22 pls., ca. 4000 text figures.

9989 MILLEN, SANDRA V., 1980. Range Extensions, New Distribution Sites, and Notes on the Biology of Sacoglossan Opisthobranchs (Mollusca: Gastropoda) in British Columbia. CANADIAN JOURNAL OF ZOOLOGY, 58:1207 - 1209.

9990 MORRIS, ROBERT H., DONALD P. ABBOTT & EUGENE C. HADERLIE, December 1980. Intertidal Invertebrates of California. Stanford University Press, Stanford, California, pp. i-xi, 1-690, P1-P200 (color plates including over 600 photos), 6 maps, and many text figures. [I need a review of this book. The opisthobranch chapter is done by Robert D. Beeman and Gary C. Williams]

9991 ORTEA, JESÚS ANGEL, April 29, 1979. La otra fauna de Asturias (VI). Las babosas marinas. ASTURIAS, 29 April, 1979:IV-V, 4 color photos. [Newspaper article; Spanish]

9992 ORTEA, JESÚS ANGEL, 1979. Deux nouveaux Dorididés (Mollusca, Nudibranchiata) de la cote nord d'Espagne. BULL. MUS. NATN. HIST. NAT., PARIS, 4e ser., 1, 1979, section A, no. 3:575-583, figs. 1-7. [*Discodoris rosi* n. sp., *Carminodoris boucheti* n. sp.; French; English abstract]

9993 ORTEA, J.A., 1980. Sobre la biología de *Aeolidia papillosa* (L.) (Mollusca, Nudibranchia) en Asturias. BOLETIN DE CIENCIAS DE LA NATURALEZA

I.D.E.A., (25):73-76, figs. A-B, 1 map. [Spanish]

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9995 ORTEA, J.A. & V. URGORRI, 1979. Una nueva especie de *Onchidoris* (Moluscos, Opisthobranchios, Doridaceos) del Norte y Noroeste de España, *Onchidoris cervinoi* n. sp. CAHIERS DE BIOLOGIE MARINE, 20:507-513, figs. [Spanish; English summary]

9996 ORTEA, J.A. & V. URGORRI, 1979. Primera cita de *Hancockia uncinata* (Hesse, 1872) (Gasteropoda; Nudibranchia) para el litoral ibérico. TRABAJOS COMPOSTELANOS DE BIOLOGIA, 8:79-86, fig. 1. [Spanish; English summary]

9997 OTSUKA, CARY, YVES ROUGER & ETHEL TOBACH, October 1, 1980. A Relationship Between Size and Reproductive Behavior in a Population of *Aplysia punctata* Cuvier, 1803. VELIGER, 23(2):159-162.

9998 PEREYRA, WALTER T. & MILES S. ALTON, 1980. Distribution and Relative Abundance of Invertebrates off the Northern Oregon Coast. Chapter 21 IN The Columbial River Estuary and Adjacent Ocean Waters. (Ed) A.T. Pruter & D.L. Alverson, University of Washington Press, Seattle, Washington, 868pp. [*Tritonia diomedea*, *Armina* sp., dorid unidentified, *Issena pacifica*, *Chlamylla* sp., *Pleurophyllidia californica*; see pages 444-474]

9999 ROS, JOANDOMÈNEC, 1978. Distribució en l'espai i en el temps dels opisthobranchis ibèrics, amb especial referència als del litoral català. BUTLL. INST. CAT. HIST. NAT., 42(Sec. Zool., 2):23 - 32, tpls. 1-6. [Spanish; English summary; numerous species included]



Citation numbers 2426 through 5000 are not yet used so I will go through these numbers now to avoid going to a fifth digit. Note that numbers 1 through 2425 were used by Dr. Henry Russell in his Index Nudibranchia and are not duplicated in the ON except where Dr. Russell used alpha suffixes.

2426 ROS, JOANDOMÈNEC, November 1978. Presentación de los Opisthobranchios y bases para una campana de recolección. INMERSION Y CIENCIA, 12(2):17-38, figs. 1-3. [Spanish; English summary]

2427 SARVER, D.J., 1979. Recruitment and Juvenile Survival in the Sea Hare *Aplysia juliana* (Gastropoda: Opisthobranchia). MARINE BIOLOGY, 54: 353-361, 9 figs.

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2433 TODD, CHRISTOPHER D., 1979. The Population Ecology of *Onchidoris bilamellata* (L.) (Gastropoda: Nudibranchia). JOURNAL OF EXPERIMENTAL MARINE BIOLOGY AND ECOLOGY, 41(3):213-255, 18 figs., 12 tpls.

2434 TODD, CHRISTOPHER D., 1979. Reproductive Energetics of Two Species of Dorid Nudibranchs with Planktotrophic and Lecithotrophic Larval Strategies. MARINE BIOLOGY, 53:57-68, 5 figs., 8 tpls.

2435 VAYSSIÈRE, PAUL, 1977. Albert Vayssièr (1854-1942). Entomologiste et Malacologiste sa vie, ses publications, ses taxa. TETHYS, (4) 1975 (1977):321-338. [Lists all of Albert's branch papers and the species he described; French; English summary]

8493 PARSONS, T.R. & W. PARSONS, 1923. Observations on the Transport of Carbon Dioxide in the Blood of some Marine Invertebrates. JOURNAL GEN. PHYS. Baltimore, 6:

8494 PASHO, DAVID, April 1, 1971. Observations on Mollusks and Brachiopods Dredged on the Santa Catalina Insular Shelf. TABULATA, 4(2):6-10, figs. 1-2. [*Acteocina culcitella*]

8495 PASTEELS, J., 1934. Recherches sur la morphogénèse et le déterminisme des segmentations inégales chez les spiralia. ARCH. ANAT. MICR. Paris, 30:

8496 PATTERSON, P.L., 1933. Comparative Physiology of gastric Hunger Mechanism. ANN. NEW YORK ACAD. SCI., 34:

8497 PAULEY, GILBERT B., 1971. Bacterial clearance in the marine Gastropod Mollusk *Aplysia californica* (Cooper). NATIONAL SHELLFISHERIES ASSOCIATION, 1970 PROCEEDINGS, 61:11-12. [Abstract]

8498 PAULEN, O., 1910. Pteropoda. BULL. TRIMESTRIEL RESULTATS ACQUIS PENDANT LES CROISIÈRES PÉRIODIQUES DANS PÉRIODES INTERMÉDIARES. RESUME OBSERVATIONS SUR PLANKTON MERS EXPLOREES PAR CONSEIL PENDANT LES ANNEES 1902-1908. 1:52-59.

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Illustration at right
Okenia vancouverensis (O'Donoghue, 1921)
Drawing by Floy Zitton

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EDITOR'S NOTE

Please note that my correct zip code is 90814 **NOT** 94501 as indicated on the last two issues.

Thanks to all of you for your patience and continued support. Thanks especially to Don Cadien, James Lance, Tom Cockburn, Sandra Millen, Hans Bertsch, Jeff Hamann, Eveline Marcus, Clayton Carlson, Bob Burn, I.S. Roginskaya, and Dave Behrens, who have recently sent information for the newsletter.

PERSONAL NOTES

From Jeff Hamann: "I made an interesting trip to Cedros Is. in August. My wife, parents, 3 brothers and 1 year old daughter spent a week aboard a friend's boat, the Kalinga. We dove the southern end of the island and found 13 species of nudibranchs. The two worth mentioning were a new chromodorid and a range extension for an unnamed coryphelid. I brought the chromodorid home and Jim Lance is working it over. We also found a new species which I've sent to Dave Behrens. The other species are more what you'd expect: **Chromodoris macfarlandi**, **Dendronotus frondosus**, **Doto kya**, **D. amyra**, **Eubranchnus rustyus**, **Facelina stearnsi**, **Flabellinopsis iodinea**, **Polycera atra**, **Hypselodoris californiensis** & **Cadlina flavomaculata**.

Grace & Tom Cockburn had their first child, a boy, Brian Andrew, on December 27, 1980. Congratulations!

Dr. S.A. Mileikowsky died suddenly on September 12, 1980. His works included seasonal dynamics of pelagic larvae of bottom invertebrates, and particularly breeding and larval distribution of Pteropoda.

Bob Burn identified the dorid on Carlson & Hoff's Christmas card as **Chromodoris bullocki** Collingwood, 1881 which has also been found in Northern Australia.

From Hillary H. West: "I am currently an assistant professor of biology at Illinois State University. In 1980 I received my Ph.D. from Northeastern University, Boston, MA. My thesis work was an investigation of chloroplast symbiosis and development of **Elysia chlorotica** a local salt marsh ascoglossan. Currently Dr. June Harrigan (of the NITT Biophysics program at Woods Hole) and I are collaborating on a study of the inheritance of variable reproductive modes in this animal using laboratory crosses."

Dr. Itaru Usuki is now working in the field of Protozoology and is not doing any opisthobranch research.

From Jeff Hamann: "I've finally finished sorting slides from Aruba. I also used Jim's [Lance] great library to identify most of them. I had all three of my brothers collecting with me & we came up with a grand total of 22 species. Snorkelling proved to be most productive as there is little or no tidal throw & only 3 specimens were collected in over 10' of water. **Elysia cauze**, **Elysia ornata**, **Oxynoe antillarum**, **Aplysia dactylomela**, **Berthellina quadridens**, **Pleurobranchus areolatus**, **Aglaja evelinae**, **Aphelodoris antillensis**, **Chromodoris clenchi**, **Hypselodoris ruthae**, **Dendrodoris krebsi**, **Platydoris augustipes?**, **Siraius kyolis**, **Hexabranchnus morsomus**,

