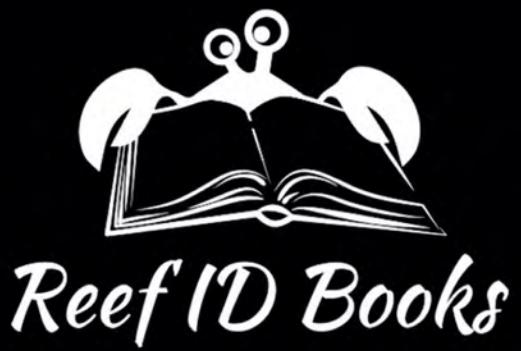


Nudibranchs of the Coral Triangle

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**Andrey Ryanskiy
Yury Ivanov**

Nudibranchs of the Coral Triangle

Reef ID Books



Photographic guide with
1080+ species covered

**Andrey Ryanskiy
Yury Ivanov**

PICTORIAL INDEX TO FAMILIES AND COMMON NAMES



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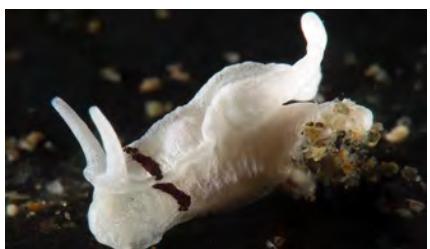
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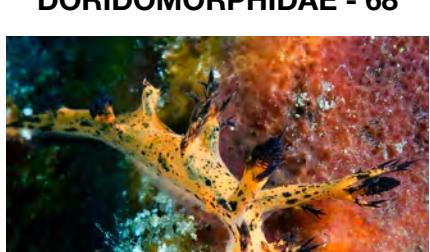
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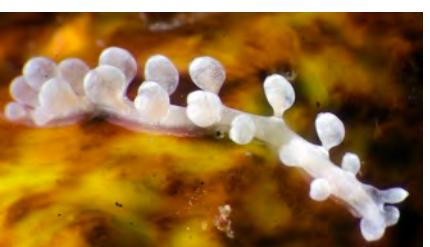
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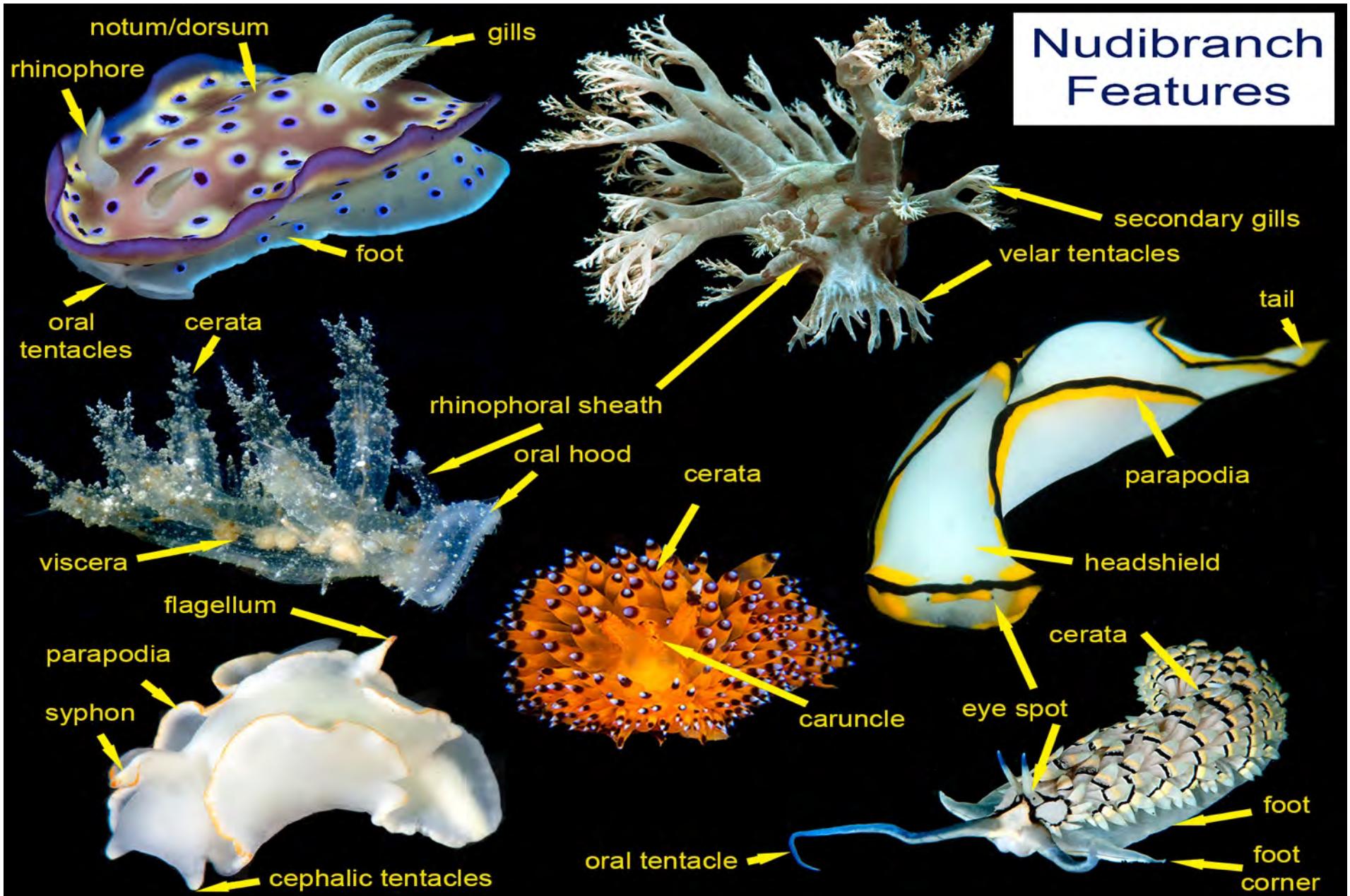
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NUDIBRANCHIA

HEXABRANCHIDAE



Giant Spanish Dancer *Hexabranchus giganteus* WIO, WP: Mozambique to Philippines, Indonesia, Vanuatu, reported up to 700 mm length. Five to eight separate gills. Yellow marginal band. Photos: Philippines, Indonesia



Spanish Lace Dancer *Hexabranchus lacer* IP: from the WIO to CP and French Polynesia, 600 mm. Highly variable, mottled pattern, with wavy red and white marginal lines. Notum red with fine white flecks, often aggregating in "clouds" or "rosettes". Capable of swimming by body flexions and mantle undulations.

6-8 separate gill branches that can not retract into a gill pouch. Common, nocturnal, found on coral reefs 2-20 m deep. Feeds on red sponges.

a juvenile, **b** early transitional, **c** transitional, **d** late transitional, **e** mature dark red, **f-h** mature (all photos - Philippines, Papua New Guinea, Indonesia)



Pacific Thecacera *Thecacera pacifica* IP, 50 mm. **ID:** orange with black and pearl-blue tips on appendages. Right photo - mating.



Painted Thecacera *Thecacera picta* IWP, 20 mm. **ID:** white with black lines and orange tips on appendages. Photo on the left - darker form from Bali.



Dotted Thecacera *Thecacera* sp. Indonesia, 7 mm. **ID:** translucent with tiny brown spots.



Black-Horn Tecacera *Thecacera* sp. WP, 40 mm. **ID:** rhinophores and appendages with black tips.



Yellow-Tip Pikachu *Thecacera* sp. WP, 40 mm. **ID:** semi-translucent white to orange, large dark spots, rhinophores and appendages with yellow tips.



Yellow-Spotted Thecacera *Thecacera* sp. Indonesia, 10 mm. Translucent with black and yellow spots.



Black-Orange Tecacera *Thecacera* sp. WP, 40 mm. Dark grey, rhinophores, appendages with orange tips.



Black-Tipped Thecacera *Thecacera* sp. WP, 20 mm.
ID: orange with black-tipped appendages.



Yellow-Spotted Thecacera *Thecacera* sp. Philippines, Taiwan, 8 mm. Translucent with yellow spots.



White-Tipped Thecacera *Thecacera* sp. Indonesia, 10 mm. ID: appendages with white tips.



Jujube Thecacera *Thecacera* sp. WP, 10 mm.
ID: rhinophores with two orange bands.



Dark-Spotted Thecacera *Thecacera* sp. Indonesia, 20 mm. ID: generally grey with oblong dark spots, rhinophores and appendages with yellow tips. Feeds on bryozoans (left photo).



Purple Pikachu *Thecacera* sp. Philippines, 40 mm.
ID: purplish with round orange spots.



Leopard Thecacera *Thecacera* sp. Indonesia, 20 mm. White-tipped appendages, surrounded by blue areas.



Black Thecacera *Thecacera* sp. Indonesia, 15 mm.
ID: totally dark grey.



Orange-Lined Thecacera *Thecacera* sp. WP, 20 mm. Translucent white w/orange lines. **Photo:** Jones Wayne





Strawberry Gymnodoris *Gymnodoris aurita* IWP, 100 mm. Like other *Gymnodoris* species, feeds on opistobranchs. ID: red with large yellow pustule. Left photo: feeding on *Marionopsis arboreascens*.



Translucent Gymnodoris *Gymnodoris* sp. Philippines, 15 mm. ID: translucent, white rhinophores and brownish intestines. Gills are forming nearly complete circle.



Ceylon Gymnodoris *Gymnodoris ceylonica* IP, 120 mm. ID: white with red spots, gill branches with red marginal lines. Photo on the right: mating.



Ceylon Gymnodoris *Gymnodoris ceylonica* with prey - sea hare *Stylocheilus striatus*.



Yellow-Guts Gymnodoris *Gymnodoris* aff. *citrina* WP 30 mm. Close to *G. citrina* (below), visible intestines.



Lemon Gymnodoris *Gymnodoris citrina* IWP, 30 mm. ID: white or yellowish, gill circle complete, anterior head with a dentate appearance.



Sweet Ceratodoris *Ceratodoris kendi* WP, 25 mm. Philippines, Indonesia. **ID:** white with purple-brown pigment. Photo on the left: pinkish form, probably a separate species.



Nakamoto Ceratodoris *Ceratodoris nakamotoensis* IP, 20 mm. **ID:** 5 pairs of dorsal appendages.



Hairy Ceratodoris *Ceratodoris pilosa* WP, 10 mm. White with tiny black dots ©Shaunak Modi



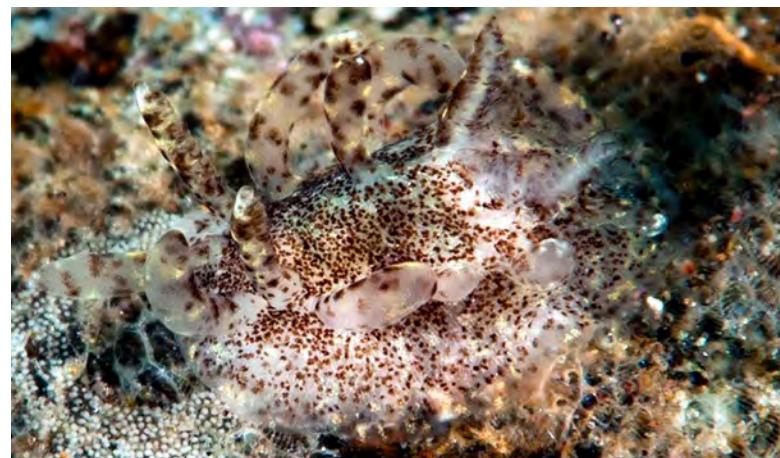
Yellow-Margin Goniodorid *Goniodoridella geminæ* WP, 9 mm. Gill branches and papillæ are of equal size



White Goniodorid *Goniodoridella unidonta* WP, 8 mm. Extrabranchial papillæ very broad at the base.



Stellar Ceratodoris *Ceratodoris stellata* PNG, Australia, 15 mm. **ID:** white notum with thin red lines.



Flat Ceratodoris *Ceratodoris plana* WP, 10 mm. **ID:** translucent with numerous dark-brown spots.



Savignyi Goniodorid *Goniodoridella savignyi* IWP, 10 mm. Papillæ much larger than gill branches



Brown Murphydoris *Murphydoris adusta* IP, 7 mm. **ID:** white with brown white-dotted areas.



Avern's Ardeadoris *Ardeadoris averni* WP, 55 mm. **ID:** bluish white with yellow to orange broad marginal band, rhinophores and gills brown.



White Ardeadoris *Ardeadoris egretta* WP, 100 mm. **ID:** white with yellow to orange broad marginal band, rhinophores and gills white.



White-Spotted Ardeadoris *Ardeadoris undaurum* IWP, 66 mm. **ID:** yellowish marginal band, white blotches.



Red Spot Ardeadoris *Ardeadoris cruenta* WP, 55 mm. **ID:** yellow marginal band, red spots.



Yellowish Ardeadoris *Ardeadoris angustolutea* IWP, 25 mm. Narrow pale yellow line near mantle margin.

Ornamental Cadinella *Cadinella ornatissima* IP, 35 mm. **ID:** yellow, large tubercles with pink tips.



Many-Lobed Ceratosoma *Ceratosoma tenuis* IP, 120 mm. **ID:** coloration variable, mantle with interrupted blue marginal line.



Red-Tipped Nudibranch *Goniobranchus* sp. WP, 15 mm. **ID:** red-tipped gills, midline purple-spotted.



Dalmatian Nudibranch *Goniobranchus* sp. Indonesia, 40 mm. **ID:** mantle and gills white with purple spots. Similar to *Chromodoris aspersa* but lacks orange marginal line.



Hilly Nudibranch *Goniobranchus* sp. PNG, 15 mm. **ID:** grey, mantle elevations mimicking sponge, grey gills.



Dolfu's Hypselodoris *Hypselodoris dollfusi* IO to Bali, 50 mm. Marginal band yellow. **Photo:** Anouk Houben



Purple-Blotched Nudibranch *Goniobranchus tumuliferus* WP, 18 mm. Marginal band white or purple.



Red-Spotted Hypselodoris *Hypselodoris iba* Indonesia, Philippines, 40 mm. Coloration variable. Anterior mantle margin often with bright orange and red bands. Rhinophores and gills orange to red.





Melanesian Hypselodoris *Hypselodoris melanesica*
WP, 25 mm. ID: gills and rhinophores purple basally.



Variegated-Gill Hypselodoris *Hypselodoris variobranchia* Philippines, Malaysia, 50 mm. ID: gills orange or blue, orange rhinophores, wide marginal band.



Baba's Hypselodoris *Hypselodoris babai* WP, 50 mm.
ID: red-brown with rounded white spots.



Bullock's Hypselodoris *Hypselodoris bullocki* WCP, 45 mm. ID: coloration variable, mantle from white to purple, thin white marginal line.



Broad-Margin Hypselodoris *Hypselodoris* sp. Indonesia
50 mm. ID: gills, rhinophores orange, wide marginal band.



Robe Hem Hypselodoris *Hypselodoris apolegma*
WP, 100 mm. ID: purple with reticulate white margin.



Robe Hem Hypselodoris *Hypselodoris apolegma* Philippines, Malaysia, 50 mm. ID: purple with reticulate white margin.



Red-Midline Hypselodoris *Hypselodoris peri* WP, 35 mm. ID: red median line, yellow marginal band.



Red-Midline Hypselodoris *Hypselodoris peri* WP, 35 mm. ID: red median line, yellow marginal band.



Fish-Net Hypselodoris *Hypselodoris jacula* IWP, 50 mm. Blue or pink w/white lines and orange margin.



Yellow-Teeth Armina *Armina* cf. *comta* WP, 120 mm.
ID: oral veil with orange margin and yellow tubercles.



Secret Armina *Armina occulta* WP, 80 mm. ID: oral veil with curved blue lines, foot with a blue marginal band, oral veil and mantle with orange.



Black-Face Armina *Armina* sp. Indonesia, 200 mm.
ID: orange-tipped rhinophores, oral veil w/yellow margin.



Scott's Armina *Armina scotti* WP, 60 mm. ID: foot and oral veil with yellow (outermost) and blue marginal bands. Bluish rhinophores with orange tips.



Pink-Face Armina *Armina variolosa* Japan, China, Philippines, 50 mm. ID: pink mantle and oral veil.



Orange-Margined Armina *Armina* sp. WP, 105 mm.
ID: mantle, foot and oral veil with orange margin.



Bluish-Foot Armina *Armina* sp. WP, 50 mm. ID: head and foot with blue pigment, velum with orange margin.



Orange-Chin Armina *Armina* sp. Philippines, 40 mm.
ID: pale-orange velum w/orange margin, foot white.



Bluish-Foot Armina *Armina* sp. WP, 50 mm. ID: head and foot with blue pigment, velum with orange margin.



Orange-Chin Armina *Armina* sp. Philippines, 40 mm.
ID: pale-orange velum w/orange margin, foot white.



Maroon Doto *Doto* sp. Philippines, Indonesia, 20 mm. **ID:** red-brown or maroon, rhinophores sheath margins yellow with bright yellow dots. Tubercles with yellow apex spot.



Red Doto *Doto* sp. Indonesia, Hong Kong, Japan, 7 mm. **ID:** red-orange with opaque white areas on sides, rhinophores sheath with papillae on margin.



Brown Doto *Doto* sp. PNG, 12 mm. **ID:** dark-brown body and translucent cerata covered by white dots.



Grape Doto *Doto ussi* IWP, 30 mm. **ID:** yellowish-grey with opaque white pigment.



Orange-Horned Doto *Doto* sp. Indonesia, 5 mm. **ID:** white with orange rhinophores. Translucent cerata, each rounded tubercle with opaque white apex.



Black-Striped Doto *Doto* sp. Indonesia, 8 mm. **ID:** cream-yellow, finger-like tubercles with black stripes.



Black-Spotted Doto *Doto* sp. Indonesia, 11 mm. **ID:** black-tipped tubercles, apex tubercles yellow.



Black-Ring Eubranchus *Eubranchus* sp. WCP, 8 mm.
Rhinophores and oral tentacles with black rings.



White Eubranchus *Eubranchus* sp. Indonesia, 8 mm.
ID: rhinophores with papillae and dark ring.



Purple Eubranchus *Eubranchus* sp. Indonesia, 7 mm. ID: purple body with orange spots, inflated cerata with white digestive glands visible, purple head.



Red-Tipped Eubranchus *Eubranchus* sp. Indonesia, 16 mm. ID: translucent, red-tipped cerata with white digestive glands visible.



Red-Ring Eubranchus *Eubranchus* sp. WP, 9 mm.
ID: white-spotted, each rhinophores with a red ring.



Red-Dots Eubranchus *Eubranchus* sp. Indonesia, 10 mm. ID: rhinophores with reddish ring.



Yellow Zigzag Eubranchus *Eubranchus virginalis*
WP, 40 mm. ID: translucent with black dots.



Yellow Zigzag Eubranchus *Eubranchus virginalis*
WP, 40 mm. ID: translucent with black dots.

TRINCHESIIDAE



White Tenellia *Tenellia puti* Philippines, Indonesia, Thailand, Tanzania, Red Sea, 25 mm. Basal 2/3 of the cerata white, followed by well defined (unlike *T. bughaw*) blue subapical band. Apical band yellow.



Siboga Tenellia *Tenellia sibogae* IP, 35 mm. **ID:** variable coloration, notum purple to red, cerata with yellowish tips and white apex. Feeds on hydroids.



TRINCHESIIDAE



Yamasui's Tenellia *Tenellia yamasui* Indonesia, Philippines, Japan, 15 mm. **ID:** orange head with white marking, brownish or greenish cerata with opaque white dots.



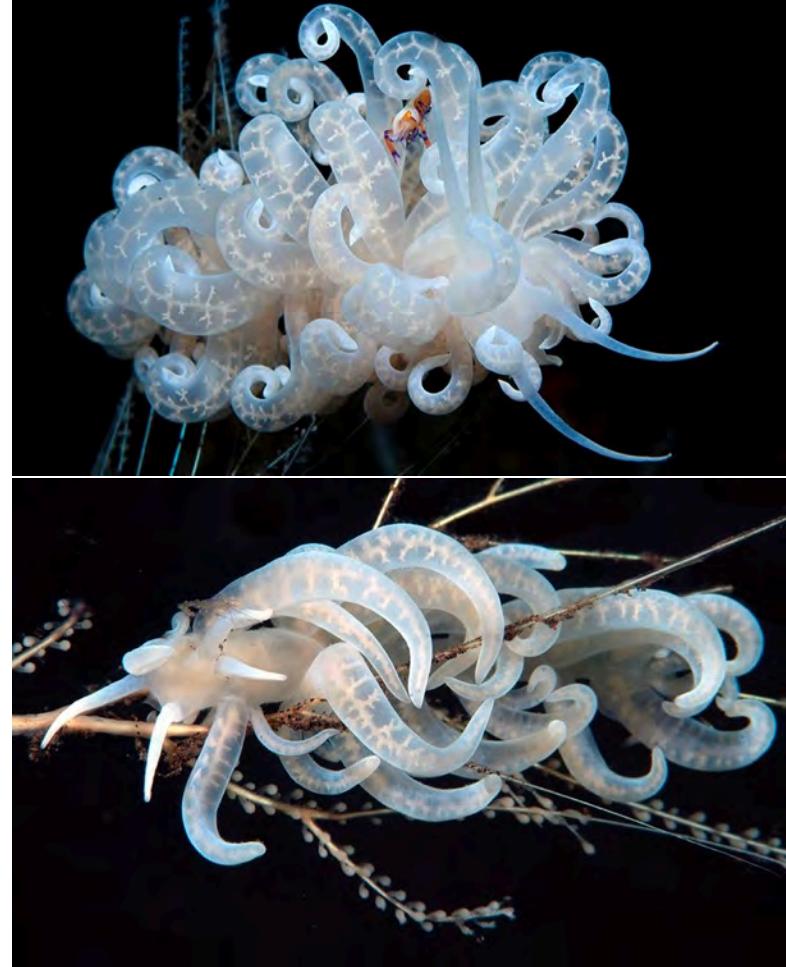
Pink-Top Tenellia *Tenellia* sp. Indonesia, 20 mm. **ID:** grey cerata with pink apex. **Photo:** Jack Israel.



White-Band Tenellia *Tenellia* sp. Indonesia, 20 mm. **ID:** cerata with white apex, blue and yellow rings.



Iriomote Phyllodesmium *Phyllodesmium iriomotense* WP, 100 mm. Translucent white, curved cerata with visible pinkish-yellow digestive glands, feeds on octocorals.



Glassy Phyllodesmium *Phyllodesmium hyalinum* IWP, 45 mm. **ID:** translucent body with opaque white frosting, cerata apically nodulose and curved, with white or brownish digestive glands. Head with pinkish spots.



Cryptic Phyllodesmium *Phyllodesmium crypticum* IWP, 50 mm. Extremely cryptic species, feeds on soft-coral *Xenia* sp. **ID:** translucent white, nodulose cerata with “dentate” appearance on the edges.



White-Spotted Phyllodesmium *Phyllodesmium* sp. WP, 12 mm. **ID:** bluish with white patches.



Poindimie's Phyllodesmium *Phyllodesmium poindimiei* IP, 40 mm. **ID:** Translucent white or bluish, notum and cerata often with white spots. Cerata smooth, curved, with yellowish branching digestive glands.



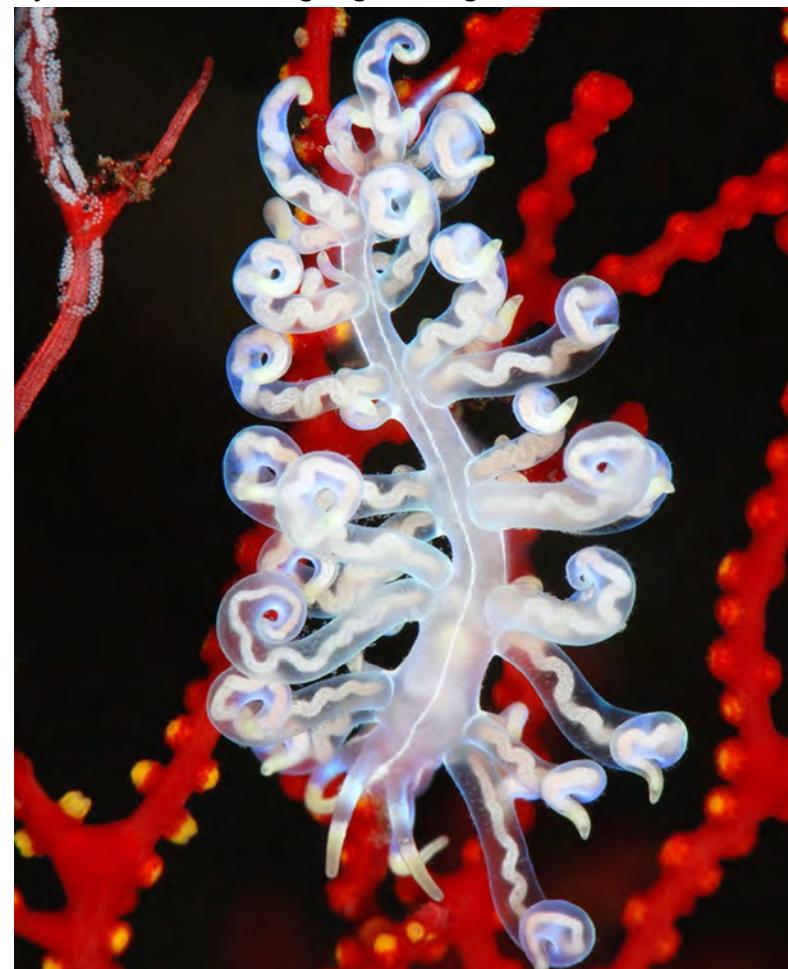
Karen's Phyllodesmium *Phyllodesmium karenae* WP, 20 mm. Purplish cerata with white apices.



Orange Phyllodesmium *Phyllodesmium* sp. WP, 25 mm. **ID:** wide yellow foot. **Photo:** Bjarte Håkonsen.



Golden Phyllodesmium *Phyllodesmium* sp. Philippines, 14 mm. **ID:** Golden dots, cerata bluish apically.



Undulate Phyllodesmium *Phyllodesmium undulatum* WP, 40 mm. **ID:** white median line.



Scarlet Pupa *Pupa coccinata* IWP, 20 mm. **ID:** white, shell with spiral pattern of orange spots.



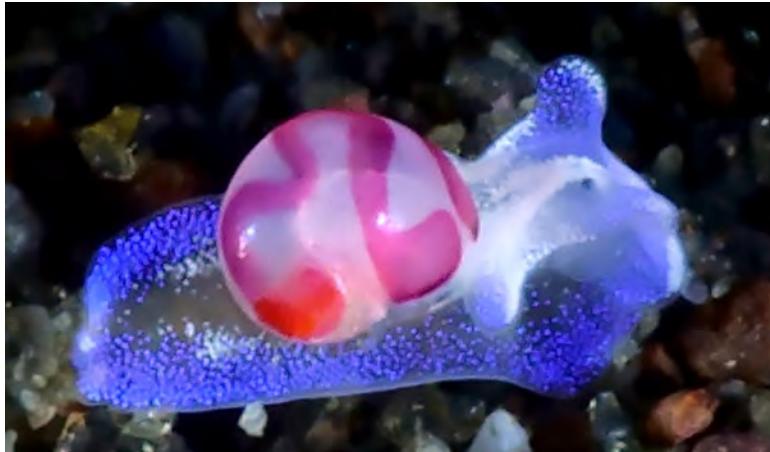
Shining Pupa *Pupa nitidula* IWP, 15 mm. Feeds on polychaetes. **ID:** white, shell white to orange.



Brown-Lined Paperbubble *Hydatina physis* Circum-tropical, 60 mm. Red with bluish edges, striated shell.



Swollen Bubble Snail *Aplustrum amplstre* IP, 30 mm. Pink spiral bands w/black margins. **Photo:** Jerome Kim



Guam Melo *Micromelo guamensis* WP, 30 mm. Large densely arranged white patches, pale blue and dark blue marginal bands. Right - adult. Photo on the left - tiny juvenile, 2-3 mm (**Photo:** Ni Komang Suci)



Solid Pupa *Pupa solidula* IWP, 20 mm. **ID:** white, shell with spiral pattern of black spots.



Red-Lined Bullina *Bullina* sp. WP, 15 mm. **ID:** white, shell with fine red lines.



White-Lined Paperbubble *Hydatina zonata* IP, 50 mm. Shell with white spiral bands. **Photo:** Jun V Lao



Barbara's Melo *Micromelo barbareae* WCP, 30 mm. **ID:** yellow-orange and green marginal bands.



MNESTIIDAE

CEPHALASPIDEA - BULLIDAE

DIAPHANIDAE



Pale Mnestia *Mnestia* cf. *girardi* Mnesttiidae, Indonesia, 9 mm. **ID:** bulla-like shell with atys-like striation.



Cylindrical Bubble *Aliculastrum cylindricum* IP, 30 mm. Greenish, shell with striations at both ends.



Yellow-Spotted Ilbia *Ilbia mariana* Runcinidae, WP, 3 mm. **ID:** white with yellow patches.



Debile's Bubble *Aliculastrum debile* WCP, 20 mm. Body with white pigment, shell w/striations at the ends.

RUNCINIDAE

HAMINOEIDAE

CEPHALASPIDEA - BULLIDAE

DIAPHANIDAE

White-Spotted Lobiger *Lobiger* sp. IP, 15 mm. On *Caulerpa* green alga. Green shell without blue lines.



Tessellate Oxynoe *Oxynoe kylei* WCP, 15 mm. Feeds on *Caulerpa filicoides* green alga. **ID:** cream with reticulate brown pattern and blue spots, large papillae.

Green Lobiger *Lobiger viridis* IP, 20 mm. Feeds on green alga *Caulerpa*. **ID:** thin blue lines on the shell.



SACOGLOSSA - CALIPHYLLIDAE

SACOGLOSSA - OXYNOIDAE



Pale Oxynoe *Oxynoe jordani* WP, 22 mm. White pigment on body and tail, blue spots with black centres.



Green Oxynoe *Oxynoe viridis* IP, 20 mm. Found in small groups on green alga *Caulerpa racemosa*.
ID: green with yellow patches, blue spots ringed in yellow.



Bourbon Butterfly Slug *Cyerce bourbonica* IP, 20 mm. ID: Inflated cerata with pale purple outline, translucent white with grey pigment and brown



Yellow Butterfly Slug *Cyerce trowbridgeae* WP, 30 mm. White with grey pigment, cerata with brown dots.



Whaap's Butterfly Slug *Cyerce whaapi* IP, 50 mm.
ID: translucent cerata with white bands and edges.



Dark-Dot Oxynoe *Oxynoe* sp. WP, 20 mm. ID: blue spots with black centres. IT, probably *O. jordani*.



Dark-Dot Oxynoe *Oxynoe* sp. WP, 20 mm. ID: blue spots with black centres. IT, probably *O. jordani*.



Peacock Butterfly Slug *Cyerce pavonina* IP, 30 mm.
ID: brownish cerata with transparent pustules.



Peacock Butterfly Slug *Cyerce pavonina* IP, 30 mm.
ID: brownish cerata with transparent pustules.



Elegant Butterfly Slug *Cyerce elegans* WP, 60 mm.
ID: lavender cerata with neon-blue spots.

SACOGLOSSA - CALIPHYLLIDAE

SACOGLOSSA - OXYNOIDAE



White-Edged Butterfly Slug *Cyerce goodheartae* WP, 25 mm. Translucent cerata with white outlines.



Dark Butterfly Slug *Cyerce nigra* WP, 15 mm. **ID:** yellow-orange with black lines and opaque white pigment. Cerata with concentric yellow lines and yellow spots.



Black And Gold Butterfly Slug *Cyerce nigricans* IWP, 40 mm. On filamentous alga. **Photo:** Jerome Kim.



Dark-Dotted Mourgona *Mourgona* sp. WP, 20 mm. **ID:** cerata and rhinophores with black dots.



Grainy Mourgona *Mourgona* sp. Indonesia, Philippines. On bubble alga, 15 mm. **ID:** small brown-pigment area near eyes. Cerata with digestive glands and scalloped opaque white margins. Photo on the left: juvenile.



Kikutaro's Butterfly Slug *Cyerce kikutarobabai* WP, 15 mm. **ID:** cerata with orange apex line.



Dark-Net Butterfly Slug *Cyerce katiae* Philippines, 18 mm. **ID:** network of dark lines, white and yellow spots.



White-Edge Mourgona *Mourgona* sp. Philippines. On bubble alga, 20 mm. Cerata with digestive glands.





Black-Dotted Polybranchia *Polybranchia jannae* WP, 20 mm. Papillated cerata with black dots and red lines.
Photo on the left: juvenile.



Oriental Polybranchia *Polybranchia orientalis* IP, 70 mm. ID: greenish to pink, brown dots, visible glands.



Green-Gland Polybranchia *Polybranchia* sp. Indonesia, 10 mm. ID: cerata with visible greenish glands.



White-Dotted Costasiella *Costasiella formicaria* IWP, 15 mm. Feeds on cyanobacteria.



Yellow Costasiella *Costasiella* sp. Indonesia, 12 mm. ID: yellow cerata, each with black central line.



Black-Edge Polybranchia *Polybranchia* sp. WP, 18 mm. Yellow digestive glands, cerata edge with black lines.



Palau Soghenia *Soghenia palauensis* IWP, 15 mm. ID: cerata with red dots and opaque white areas.



Black-Loop Costasiella *Costasiella fridae* IWP, 12 mm. ID: black oval behind the rhinophores.



Rabbit Costasiella *Costasiella usagi* WP, 10 mm. ID: black rhinophores, white-striped cerata.



Leaf Sheep *Costasiella kuroshimae* IWP, 7 mm. Found on *Avrainvillea* sp. green alga, like other costasiella. Variable coloration. **ID:** sandglass-shaped brownish patch behind the eyes, dark-tipped rhinophores.



Purple-Tipped Costasiella *Costasiella* sp. Indonesia, PNG, 12 mm. Translucent white, rhinophores grey-bluish. Cerata with purple tips.





White-Cap Costasiella *Costasiella* sp. Indonesia, 5 mm. **ID:** white patch behind the rhinophores, green cerata with blue spots and white apices.



Deceptive Costasiella *Costasiella* sp. Indonesia, Philippines, 10 mm. Found on *Avrainvillea* sp. green alga. **ID:** closely set eyes, dark blue rhinophores with yellow stripe.



White-Dotted Ercolania *Ercolania annelyleorum* WP, 5 mm. Body and cerata with digestive glands.



White Ercolania *Ercolania* sp. Indonesia, 3 mm. Translucent w/reddish digestive glands and white spots.



Bubble-Alga Ercolania *Ercolania endophytophaga* Australia, Philippines, 13 mm. Lives inside the large cells of the green alga *Struvea plumosa* and *Valonia ventricosa*. Cerata and rhinophores with green digestive glands.





White-Patch Ercolania *Ercolania* sp. Philippines, 9 mm. Lives within giant bubble-shaped cells *Boergesenia*.
ID: white with green digestive glands in the head, cerata and rhinophores.



Green Ercolania *Ercolania kencolesi* WCP, 6 mm.
ID: Light green, rhinophores with white bands.



Tattooed Ercolania *Ercolania* sp. Philippines, 10 mm. Internal feeder, like other animals on this page, feeds inside giant alga cells. ID: digestive gland pigment on the head and body highly branched.



Fuzzy Ercolania *Ercolania* sp. Philippines, 8 mm.
ID: digestive gland pigment with distinct pattern.



Yellow-Tipped Ercolania *Ercolania* sp. WP, 8 mm.
ID: cerata with opaque white spots and yellow tips.



Golden Ercolania *Ercolania* sp. Philippines, 10 mm.
ID: digestive gland pigment on the head unbranched.



DID YOU KNOW? Internal feeders are not only living and feeding inside alga cells but also laying eggs!



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Mushroom Slug *Sacoproteus nishae* WCP, 30 mm. **ID:** mushroom-shaped cerata. **Photo:** Bjarte Håkonsen.



Ornate Stiliger *Stiliger ornatus* IWP, 10 mm. Feeds on alga *Codium* sp. **ID:** orange, cerata each with dark sub-apical band and orange apex. There are black patches on the head between and under the rhinophores.



Yellow-Chin Stiliger *Stiliger* sp. Philippines, Taiwan 10 mm. On *Codium* sp. Head with blue patches.



Median-Line Stiliger *Stiliger* sp. WCP, 8 mm. **ID:** translucent with thin brown digestive gland on the head, cerata each with greenish digestive glands and opaque white spots.



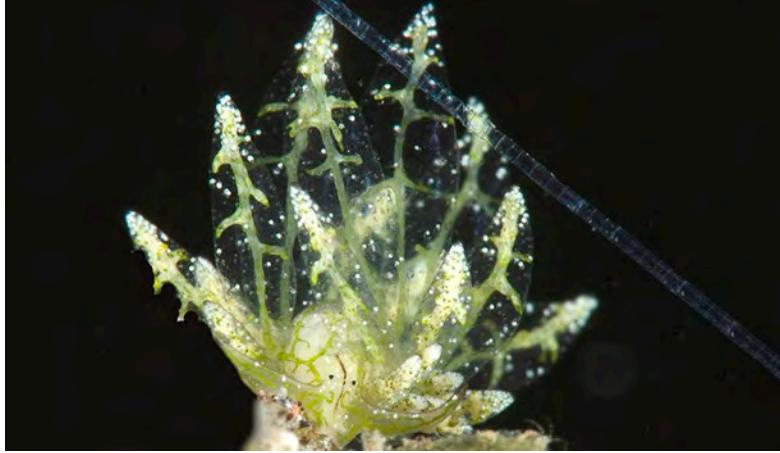
Emerald Slug *Sacoproteus smaragdinus* IP, 50 mm. **ID:** bubble-like cerata, found on *Caulerpa racemosa*.

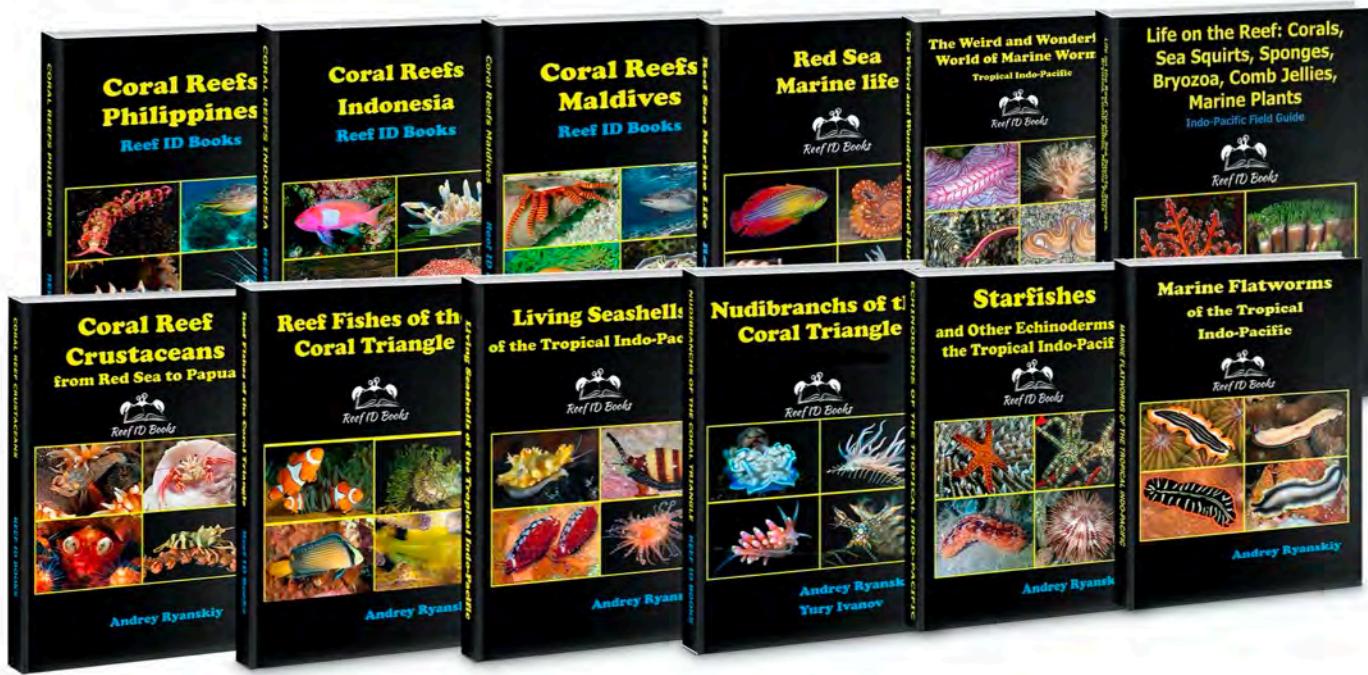


Pale Stiliger *Stiliger* sp. WP, 6 mm. **ID:** cerata, head and rhinophores with opaque white spots.



Median-Line Stiliger *Stiliger* sp. WCP, 8 mm. **ID:** translucent with thin brown digestive gland on the head, cerata each with greenish digestive glands and opaque white spots.





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