oded surface, the bands becoming ditions are unfavorable, either cold the hollows of the trees or under r elsewhere, or under sacks at the rovided. It thus becomes an easy e to tree. A few snails placed by trees in March, increased in such mould by mid-summer of the same ange with some variation from the north, to the Caloosahatchie river bably native to Florida, as specived about the hummocks and else-Its habit of feeding on the sooty not known until within the past two

nails for the injurious sooty mould nee to observe their treatment of fungi parasitic on orange insects le value to orange growers. These m as an effective parasite on the gus also parasitic on the white fly; ded fungus, both parasitic on the is so effective in control of the white spreading hyphæ for some distance

It seems that the snails occasionase spreading hyphæ, but evidently read of the fungus, since this fungus in the groves in the Manatee region bink fungus is also abundant in the is untouched by them. The snails neither the red or the gray fungicales, and it is probable that they fungi. Colonies of the snails are where the white fly injury is severeable for the growth of the snail. It given to the habits of the snail, as nies against unfavorable conditions. The seems to afford a needed protection of the snail that sprays can not be used

on trees stocked with the snails without injury to the colony, for, although protected by the shell from the immediate effect, sufficient spray probably clings to the sooty mould on which they feed to destroy them. The beneficial parasitic fungi and the snails may be allowed to work together on unsprayed trees. The snail is here spoken of as the Manatee snail since while recorded as occurring in other parts of the State it was found working on the orange groves first in the Manatee region.

## NOTES.

Collecting in the Everglades. I have recently returned from a collecting trip in the Everglades. Most of the collecting was done at a point where the Big Cypress Swamp and the Everglades meet, about 80 miles from Myers and 35 miles from Immokalee P. O. Drymaeus dominicus Reeve was found in the air-plants. Dead shells of Glandina truncata var. minor, were plentiful, but live ones scarce. A few Zonitoides arboreus were also found in air-plants. Polygyra cereolus var. carpenteriana and uvulifera I did not collect. Beautiful specimens of the glossy, dark, amber-colored Physa cubensis Pfr., were found on the under side of the leaves of water plants. Planorbis intercalaris Pils., and P. tumidus were very plentiful, the latter in the more shallow water. Ancylus peninsulae Pils. & Johns., was found on decayed wood in the Cypress Swamp. Ampullaria depressa is abundant on the edge of the Everglades. The shells are heaped around isolated cypress trees, where they are dropped by the hawks which feed upon them; a bright yellow variety without bands is occasionally found. A small Unio was common in a stream near A. G. REYNOLDS. Immokalee.

OUTPUT OF AMERICAN PEARLS.—Dealers in American pearls state that the past season showed a diminished output of fine gems, but a gain in the traffic in baroques or pearl formations of irregular shapes.

The most valuable pearl discovered last season was taken from the Wabash river, near Mount Carmel, Ill. This was a pink-white gem of eighty grains, and is valued by its owner at \$8000.

A pearl valued at \$5000 was found in a mussel shell taken from the Skillet Fork river, Carmi, Ill. Other pearls, worth from \$500 to \$3000, were found last year; but such fortunate discoveries were considerably fewer in number than in former years.

Nearly every year witnesses a shifting of the pearl-hunting industry. The Kankakee river, Indiana, was the newest field last season, and some valuable gems were found there.

Of late, French buyers have been actively represented in the American market. The activity of these foreign buyers, together with the diminished supply, was largely responsible for the fact that prices at the close of the season ranged from 25 to 35 per cent. higher than they did a year before.

Despite the fact that American pearls now command a higher price than ever, the volume of business has shrunk because of the destruction of so many of the mussel beds.

In one year the output of the rivers of Arkansas was valued at \$2,000,000. Last year, some experienced dealers assert, the value of the whole American product, exclusive of baroques, was not worth more than \$500,000.

Dealers charge that many fine pearls are rendered valueless by the practice of button houses, and those who fish for them, of throwing mussels into hot-water vats, in order to open great quantities of shells rapidly. These button houses seek the mother-of-pearl in the shells.

Baroques, or pearls of irregular shapes, have attained a prominent place in commerce. Some of them have a sheen or opalescence equal to the quality of the finest gems.

Until recently, pearl hunters sought only symmetrical shapes, and the baroques were left as playthings for children along the streams, or were cast aside.

The influence of the "new art" originated a demand for these angular, irregular and eccentric formations.

Jewelers now use the baroques in making scarf pins, chrysanthemums, figures and ornaments.

The long and narrow shapes, especially, lend themselves with readiness to the jeweler's art. As many of these odd formations were found to have attractive color, lustre or iridescence, the public soon found a liking for them.—North American.

COCHLIOPA ROWELLI IN CALIFORNIA.—In response to an inquiry in the December NAUTILUS concerning the habitat of this species a single note has been received, referring to the original finding of the shell. It has apparently not been found since. The note follows: "Cochliopa Rowelli, was named from shells collected by me, near Baulinas Bay (not Clear Lake) Marin Co., California."—J. Rowell.

On the Generic name Anostoma.—At the monograph of this genus (Man. of Conch., XIV not notice that two modifications of the same muse: Anostomus Klein in Walbaum, Pet. Arted. 659, 1792, and Anastomus Bonnaterre, Encycl. xciii, 1790. Whether these conflict with the 1 depends upon whether the different spelling be different name—a question still in dispute. Tom next name applied to the molluscan Anostoma.—

On the Pathology of Sphærium,-Ar Sphærium solidulum Pr., in company with severa Des Moines, Iowa, collected and sent for examir Hyning, there were several dozen specimens of normal and evidently of a pathological nature. erably smaller than the average, almost globul nearly as broad as in the normal form-appardistinct species. At the anterior margin of the more or less marked scar, contiguous to the anter and the lateral teeth. This was evidently caus by one and the same agency, probably a parasite ed es in some way and thus causing the deformit the effect was not only local, as is evident by the line of growth, from that place, all around both in nearly all specimens thus affected, and the ne whole mussel was checked. Some larger specim irregular growth, show the same scar at the sam stances only slightly marked.

Similar mussels have been noticed before, fro never in such numbers. Also some *Pisidia* wer fected. It is hoped that fresh, living specimens order to ascertain the cause of the deformity.—V

## PUBLICATIONS RECEIVED.

CATALOGO DE LOS MOLUSCOS TESTÁCEOS DE NAS, JOLO Y MARIANAS. I, MOLUSCOS MARINOS 1905, xvi + 408 pp. Since 1840, when the descrich collection was begun, the Philippines have great number and beauty of their marine shells.

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ON THE GENERIC NAME ANOSTOMA.—At the time I prepared a monograph of this genus (Man. of Conch., XIV, p. 109, 1901) I did not notice that two modifications of the same name were already in use: Anostomus Klein in Walbaum, Pet. Arted., Gen. Pisc., III, p. 659, 1792, and Anastomus Bonnaterre, Encycl. Méth., Ornith., p. xciii, 1790. Whether these conflict with the molluscan Anostoma depends upon whether the different spelling be held to constitute a different name—a question still in dispute. Tomogeres Montf. is the next name applied to the molluscan Anostoma.—H. A. P.

ON THE PATHOLOGY OF SPHERIUM.—Among thousands of Sphærium solidulum Pr., in company with several other species, from Des Moines, Iowa, collected and sent for examination by Mr. T. van Hyning, there were several dozen specimens of special interest, abnormal and evidently of a pathological nature. They were considerably smaller than the average, almost globular, the beaks being nearly as broad as in the normal form-apparently representing a distinct species. At the anterior margin of the shell there was a more or less marked scar, contiguous to the anterior adductor muscle and the lateral teeth. This was evidently caused in all specimens by one and the same agency, probably a parasite affecting the mantle ed es in some way and thus causing the deformity of the shell. And the effect was not only local, as is evident by the fact that a coarse line of growth, from that place, all around both valves is noticeable in nearly all specimens thus affected, and the normal growth of the whole mussel was checked. Some larger specimens, of more or less irregular growth, show the same scar at the same place, in some instances only slightly marked.

Similar mussels have been noticed before, from other places, but never in such numbers. Also some *Pisid.a* were seen similarly affected. It is hoped that fresh, living specimens will be obtained, in order to ascertain the cause of the deformity.—V. STERKI.

## PUBLICATIONS RECEIVED.

CATALOGO DE LOS MOLUSCOS TESTÁCEOS DE LAS ISLAS FILIPINAS, JOLO Y MARIANAS. I, MOLUSCOS MARINOS, por J. G. Hidalgo, 1905, xvi + 408 pp. Since 1840, when the description of Cuming's rich collection was begun, the Philippines have been noted for the great number and beauty of their marine shells. A very large num-