golden-yellow or orange of its flowers is visible for miles. shell may be seen in the Bethnal Museum, London, and at When the sun is shining full upon it, it is too dazzling for the American Museum of Natural History in New York. the eye. In places where the ground was plowed paths of | The pearls taken from under the apron of the pink conch it had been left, and they seemed like tongues of fire run- are either pink, yellow, or black. The pink are, however, californicus, called cream cups; Dodecathon meadia; Baria are taken. Many of the pearls are beautifully water lined, wealth of color as is rarely seen elsewhere.

THE CONCH FISHERIES OF THE BAHAMAS.

BY W. H. WEED.

Conch fishing in the Bahama Islands is quite an extensive from £2 up. industry. There are about 500 vessels engaged in this and the sponge and turtle fisheries. Most of these from time to time engage in conch fishing according to the demand for the shells.

The vessels employed are either sloops or small schooners, and carry from three to ten men, most of them of the "colored persuasion." These negroes are expert divers and swimmers, being accustomed to the water from childhood. They enjoy the distinction of being perfectly fearless, even in the presence of that dreaded enemy of divers, the shark. who is found in abundance in these waters. It is a current not afraid of sharks, that "a shark will not attack a nigger." others at their work; they all labor with more energy than is usually characteristic of their race in this climate. The largest proportion of double flowers. conch, which is like an enormous snail, is found in the shallow waters of this vicinity, the sea bottom of the numerous has been performed by M. Lambotte, the record of which, shoals being a favorite place for them. The larger crews together with an illustrative woodcut, may be found in a work in parties of two, three, or four, in separate boats and recent number of the Revue Horticole. M. Lambotte tells independent of each other.

called a "water glass." This is a rectangular water-tight and more fit for planting than for cooking. He had at the box about thirty inches long, with one end a foot square, and time, close at hand, a plant of the bitter sweet (Solanum dul closed by a pane of ordinary glass. The other end is slightly camara), the stem of which he cut to a sloping point, which larger and is open. In using the "glass" the closed end is he introduced into a hole in the potato as deftly as possible. immersed in the water a few inches below the surface, when Some days afterward the potato had regained its hardness the sea bottom is distinctly visible through the glass, the and speedily sprouted from the eyes, the principal stem water being clear as crystal.

leaps in and obtains it, and in a few moments is back in the smaller tubers and rootlets. In point of fact there was a boat looking for more. Some of the fishermen use a double tuber growing in the same manner as it would in the ground, pronged hook attached to a long staff, such as is used in and only differing from an ordinary tuber in its hard consponging, and with this secure the conch instead of by div- sistence. Things went on in this manner till the end of ing.

When a boat load is secured the conchs are taken ashore to some convenient beach and left to die. When dead the and decomposed after its ten months' sojourn on the stem of shells are beaten against the soft sand, which loosens the the bitter sweet, the latter continuing its growth in the ordiflesh so it may be easily removed.

The meat of the pink conch is carefully examined for pearls, but the other varieties have no pearls.

seaweed, serpulæ, or other incrustation, but the others are this bird, but within the last century it has gradually become naturally pretty clean and are sold in the rough state.

time is three or four weeks. On the return to Nassau the two were taken near Iceland. There are but three specishells are sold to the conch dealers or merchants, who sort and pack them for shipment. The finer specimens are Sciences at Philadelphia, one in the Smithsonian Institution, packed in cases with sponge clippings, but the ordinary and one in the Cabinet of Vassar College. The last is the kinds are packed in bulk or shipped loose.

is the most common, and is the well-known conch used for prices realized on these two rarities were \$560 and \$500 re-: ground. ornamental purposes. It is also the same formerly used for spectively. The purchaser was Lord Lilford. the dinner horn by many old farmers; indeed, it still does good service in that line in the far West.

and properly dressed, a very fair salad, as the writer can often seen in cultivation, Peperomia avifolia, of which the testify from experience.

known reason they do not take well in the United States, as to show on cross section a depth of nearly four centime-Exquisite pink cameos are cut from this shell, and are often ters. When the concave stalks take a suitable direction, mistaken for coral by novices.

nufactories of France and Germany.

smaller than the pink conch. The name is derived from the when the windows of the house were often open, the milk-white color of its interior. The shell is much less number of insects was very considerable, and these, soaking fragile than the other species, and it is used in the United in the water, gradually fell into decay, and it was remark-States for ornamental purposes.

able shell than the preceding varieties. Its flat face is egg eating plants may perhaps in this be led to find an argument ness, attended by a persistent cough. After her death a shaped and of a handsome salmon red color, being of a favorable to such doctrines. They will add that the variety beautiful brownish black near the teeth. The shell of this of colors so strikingly seen in these leaves constitutes the and the king conch is very valuable in cameo cutting, agent of attraction for the insects to come and be drowned.

differs somewhat from it in having a triangular face of a tion of these leaves is in this case accompanied by an apparbrownish yellow, and the interior of the shell and around entinesctivorism, and that the leaves of the plants known p.75. the teeth is of a purple black.

Several very handsome specimens with cameos cut in the like, horn-like forms only to an excessive peltation of their Hamilton & Adams. 1833.

ning over the ground. Among other showy plants are Si- the only valuable kind. These are of that exquisite shade dalcea malvaflora, with large purple flowers; Platystemon of pink which gives the name to the conch from which they gracilis, a composite with bright yellow flowers, covering and this, together with their size and color, determines their acres of ground; Paronia brownii, in tufts, with large purple worth. The lucky fisherman who has any of these pearls or reddish flowers; various species of Gillia, Pentstemon, for sale finds a ready market for them in Nassau, where the in contact with them, and that the same surface daily ab-Lobelia, Phacelia, Nemophila, together with Clarkia, Salvia, buyers offer very good prices for the pearls, £20, or \$100, is sorbs water charged with albuminoid substances and the Castilleia, Convolvulus, and Colochortus, making up such a not a very unusual price, though the majority of the pearls like? bring a very much lower figure, of course.

> The buyers export them to England, where the demand is good. They may be seen in London set in all sorts of ways, the favorite being in the form of rings, which can be bought

> The value of the pearls annually exported from Nassau was recently estimated at £10,000, or \$50,000.

> The value of the different conch shells in New York is, for the pink conch, \$4 per one hundred shells; milk conch, \$6.50; king conch, \$?5; queen conch, \$20.

NATURAL HISTORY NOTES.

Old Seeds versus New.—There is a widespread impression that old seeds of many plants are preferable to new, espeputting his view to the test, an experimenter, whose results saying in Nassau, when a stranger asks if the negroes are are recorded in a recent number of the Revue Horticole, un-The men usually work on shares, and their reward being camellia-flowered balsams of varying age. The conclusion thus dependent upon their own exertion, each one spurs the arrived at-diametrically opposite to the generally received opinion-is that it is the youngest seeds which give the

The Potato Grafted on the Bitter Sweet.—An experiment top. us that in the spring of the year, while picking out some In order to locate the position of the fish they use what is potatoes for culinary purposes, he remarked one sprouting measuring more than sixty centimeters. The tuber became Having discovered the position of the conch the diver green, excessively hard, and developed little shoots bearing September, when suddenly the leaves withered and the shoots became pendent, and the tuber gradually became soft nary manner, unaffected by the fate of its quondam associate.

The Eggs of the Great Auk.—The numerous bones of the great auk found on the shores of Greenland, Newfoundland, The shells of the pink conch are scraped to remove the Iceland, and Norway attest the former great abundance of more and more scarce, and is now believed to be extinct, The length of the cruise varies, of course, but the usual none having been seen or heard of alive since 1844, when mens in the United States-one in the Academy of Natural most perfect specimen, and possesses the greatest historical Most of the exports are to England and the United States, value, as it is the one from which Audubon made his drawthough France takes a good many from English consignees. ing and description. The eggs of this extinct bird are also The four varieties of conch which form the basis for this extremely rare, and it is, therefore, interesting to learn that

A Case of Apparent Insectivorism .- Professor Baillon, at a recent meeting of the Linnæan Society of Paris, read the The flesh of the animal is edible, making, when cooked following notes on the apparent insectivorism of a plant, when frightened, but never even raised their wings. water (principally that from sprinkling) would accumulate: Many tons of this shell are also used in the porcelain ma- and rest in these receptacles, so well prepared to preserve it. Many small insects would fall into this water and be The milk conch is also one of the strombs and is much drowned. Last year, when the season was warm and able that there was during this not the least sign of any pu-The queen (Cassis madagascariensis) is a much more valu- trescent odor. Those who believe in the theory of insectand are much used for this purpose in England and France. These reflections, each of a different sort, here present them- portion of the lung was much discolored. The king conch is of the same species as the queen, but it selves: 1. Is it not remarkable that the exaggerated peltaup to this time by botanists as carnivorous owe their sac

limb, as we demonstrated in the evolution of the leaves of Sarracenia (Comp. Rend. lxxi. 630)? 2. How can it be considered as a proof of insectivorism, that plants such as the Utricularia grow better in a fluid containing albuminoid compounds, when other plants grow equally favorably in the same kind of fluid, and which latter are never for a moment thought of as carnivorous? 3. How do the chief priests of our science reconcile the two ideas, that the surface of the leaves of plants is unable to absorb pure water

Albino Arethusa.—A white flowered variety of this rare and beautiful North American orchid has recently been discovered in Rhode Island by Professor W. W. Bailey. It has the yellow markings of the labellum, as in the ordinary red flowered form. In his "Wild Flowers of America," Professor Goodale states that the plant grows in bogs, with its corm embedded in peat moss, sometimes two or three inches below the surface.

CURIOUS FACTS ABOUT THE ALBATROSS,

The tracts of lower, nearly flat land of Marion Island, skirting the sea, and the lower hills and slopes along the shore, presented a curious spectacle, as viewed from the ship as it steamed in towards a likely-looking sheltered spot cially in the production of double flowers. Desirous of for landing. The whole place was everywhere dotted over with albatrosses, the large white albatross or goney (D. exulans). The birds were scattered irregularly all over the dertook a series of experiments with the seeds of the green in pairs, looking in the distance not unlike geese on a

The albatrosses were all around, raised from the ground. Their nests are in the style of those of the mollymanks, but much larger, a foot and a half at least in diameter at the

They are made up of tufts of grass and moss, with plenty of adhering earth beaten and packed together, and are not so straight in the sides as those of the mollymanks, but more conical, with broad bases. The female albatross is sprinkled with gray on the back, and is thus darker than the male, which is of a splendid snow white, with the least possible gray speckling, and which was now, of course, seen in his full glory and best breeding plumage; the tails and wings of both birds are of course dark.

The albatrosses one meets with at sea are most frequently birds in young plumage or bad condition, and have a rather dirty, draggled look. The brooding birds are very striking objects, sitting raised up on the nest, commonly with the male bird beside it. They sit fast on the nest when approached, but snap their bills savagely together, making thus a loudish noise. They will bite hold of a stick when it is pushed up against their bills. They need a good deal of bullying with the stick before they stand up in the nest and let one see whether they have got an egg there or no. Then the egg is seen to appear slowly out of the pouch in which it is held during incubation. It is nearly five inches long, or about as big as a swan's, and is white, with specks of red at the large end. Only one egg is laid. In most of the nests there were fresh eggs; in some, however, nearly full-grown young birds.

At Campbell Island, of the Campbell and Auckland group, the young of Diomedea exulans were found just breaking the shell in February, by an exploring party.*

Charles Goodridge, who was one of a sealing party on the Prince Edward Islands in 1820, and spent two years on the Croyets, says that the albatrosses there lay at about Christmas, and that the period of incubation is about three months (?). The young, he says, were wing-feathered, and good to eat about May, and did not fly off till December.+

The young albatrosses are dark-gray in plumage. They snap their bills, like the old ones, to try and frighten away industry are the common or pink conch, the milk conch, and two specimens have been recently discovered in an old enemies. The old birds never attempt to fly, though perthe king and queen conchs. The first, the Strombus gigas, private collection in Edinburgh and sold at auction. The sistently ill-treated or driven heavily waddling over the

> Very many were killed by the sailors that their wing bones might be taken out for pipe stems, and their feet skinned to make tobacco pouches. The old males tried to run away

It is amusing to watch the process of courtship. The variety Argyreia is cultivated in so many greenhouses, has male, standing by the female on the nest, raises his wings, The shell is used for turning into sleeve buttons and the leaves more or less deeply peltate. I have seen stalks spreads his tail and elevates it, throws up his head with the brooches, much in vogue in Naples, Italy, but for some unon which the peltation on certain leaves was so exaggerated bill in the air, or stretches it straight out forwards as far as he can, and then utters a curious cry, like the mollymanks, but in a much lower key, as would be expected from his larger larynx. While uttering the cry the bird sways his neck up and down. The female responds with a similar note, and they bring the tips of their bills lovingly together. This sort of thing goes on for half an hour or so at a time. No doubt the birds consider that they are singing. Occasionally an albatross flies round and alights upon the grass, but I saw none take wing. -H. N. Moseley. -Challenger Notes.

> A Wisconsin cow died not long ago, after a lingering illveterinary surgeon opened the windpipe to discover the cause of the irritation, and found in the upper part of the lung a live striped frog of ordinary size. The surrounding

^{* &}quot;Notes on the Geology of the Ontlying Islands of New Zealand, Reported by Dr. Hector, F.R.S."-Trans. N. Zealand Inst., vol. xi., 1869.

^{+ &}quot;Narrative of a Voyage to the South Seas, and Eight Years' Residence in Van Diemen's Land," p. 35. By C. M. Goodridge. London: