No. 2. - Preliminary Report on the Crustacea dredged in the Gulf Streum in the Straits of Florida, by L. F. de Pourtales, Assist. U. S. Coast Survey. Part I. Brachyura. Prepared by Dr. William Stimpson.

(Comulicated by the Superintendent of the U. S. Coast Survey.)

Tine crustacea collected by M. Pourtales are very numerous in species, and among them there is an unusually large proportion of new forms; so that their investigation has occupied more time than was anticipated. To aroid delay in publishing a portion at least of the results, it is thought best to give at once that part of the work which has been done thus far, reserving the completion for a second part, in which the general considerations derived from the entire study will also be given.

To preserve accuracy in the statements of localities and depths, and to insure the correction of any errors which may have occurred, all the details on the labels of each species are given below, arranged in the order of depuhs of water.

## MAIOIDEA. <br> Family maildaE. <br> Subfamily LEpTOPINAE.

The group typified by the genus Leptopus Lamarek (Egeria Latr.) should be separated from the Inachinae of Dana on accopnt of the broad and somewhat heart-shaped meros-joint of the external maxillipeds, which in Inachus is simply ovate and clongater, with the palpus articulated at the small extremity.

## Pyromaia nov. gen.

Carapax somewhat pyriform, convex : rostrim simple, slender, of moterate length, acute; transorhital breadth small: preorbital spine short, almost erect ; postorbital tonth rather large, pointing forwards. Lerosjoint of the external maxillipels short and broad, deeply and broadly: notched for the reception of the palpus, and with the inner lobe strongly projecting and the onter lobe angular. Ambulatory feet long; those of the first pair t'ree times as long as the port-fromtil portion of the carapax
This genus approaches nearest to . Wiryonhynchus Bell, but differs in its mome elonguted and priform canapax. lareer rostrum. and prominent, angular exterinal lobe of the mevosiont of the outer maxillipeds. From Leplopus it difites in its simple rostrom.

## Pyromaia cuspidata nev. sp.

Body and feet naked. Carapax granulaterl, with the regions well defined, tmmid, and armed with short spines. Rostrum trigonal, with the three edges (the superior and two lateral) armed with minute spines. Basal joint of external antenme with a slender spine in front, and a smaller one beneath; the latter pointing direetly downward. Chelipeds with the meros-joint spinous below and with a spine at the summit; carpus with one spine on the outer side at the articulation of the hand; hand inconspienonsly spinulose, fimgers longer than the palm, not gaping, serrated, and acmminate. Ambulatory feet with eylindrieal joints; in the adult female smooth and naked; in the young male sparsely and inconspicuously hairy ; dactyli two thirds as long as the penult joint, and flattened toward the extremities.

The dimensions of the largest specimen, a female, are as follows: Length of the earapax, 1.2 inch; gratest brealth, 094 inch; proportion of breadth to length, $1: 1.28$. Length of anbulatory feet of the first pair. 3.05 incll.

This species lives in deep water, with a range of from 82 to $1 \cong 5$ fathoms, as shown by the following table of localities, ete., taken from the notes of the experlition.

| Off Sand Key, | May 11, 1868. | Cast Nu. 5. | 82 fathoms, |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Off Alligator Reef, May | $8,1869$. | Cast No. 6. | 88 | $"$ |  |
| Off the Samboes, | May | $9,1868$. | Cast No. 6. | 93 | $"$ |
| Off the Samboes, | May | $9,1868$. | Cast No. 1. | 121 | $"$ |
| S. W. of Sand Key, February 17, | 1869. | Cast No. 2. | 125 | $"$ |  |

## Subfamily PISINAE.

Pisa antilocapra nov. sp.
Carapax subovate, rather narrow, pubeseent, and spinous, with a strong, aeute spine on the hepratic region, seven to ten smaller, subecfual ones on the branchial, and four, foming a rhomb, on the intestinal reqion. $A$ few sharp tubercles on the cardiae and gastric regions. Rostrmm horizontal, equalling in length more than one third the post-fromal length of the carapax; horns diveroine from the basal third, rather slender, acute, and straight, or slightly curved inward near the extremities. Preorbital spine slender, less than one third as long as the rostrum. On the superior margin of the orbit there are two spiniform teeth between the base of the preorbital spine and the external angle, which is also acute. Spine of the basal joint of the extermal antennæ much smaller than the prarorlital spine. Feet pubescent, with the meros-joints sparsely spinose above. Dactyli of the ambulatory feet unarmed on the inferior edge.

Dimensions of a male: Total length of carapax, 1.22 ; breafth, excluding the spines, 0.65 ; length of ambulatory foot of the first pair, 1.30 inch.

It is a more elongated species than any of the three Pisae described by Desbonne and Schramm, which are the only ones as yet indicated as inhabiting the West Indian seas, if, incleed, these species truly belong to the genus.

The specimens occurred at the following localities and depths:Off Carysfort Reef, Mareh 31, 1869. Cast No. 1. 52 fathoms.
Off Carysfort Reef, March 31, 1869. Cast No. 5. 60 "
Off Alligator Reef, May 8, $1869 . \quad$ Cast No. 10. 118 "

## Pisa praelonga nov. sp.

Carapax long and narrow, the width across the branchial regions being very little greater than that between the orbirs. It is sparsely hairy, and armed with a few very small spines on the sides. Surface beneath the hairs smooth. Rostrum large, as long as one third the post-fiontal length of the carapax ; horns slender, acute, divergent. Preorbital spine slender, acute. Orbit large, with one sharp tooth on the upper margin, near the hase of the post-orhital tooth. Basal joint of external antemne with a spine in front (smaller than the proorb.tal spine), and another on the 0 ver side near the base.

Dimensions of a male : Lenoth of carapax, rostrum included, 0.39 ; length to the base of horns of rottrum, 0.30 ; breadth, 0.19 inch.

It differs from all species of the genus hitherto known in the narrowness of the earapax.

Off Alligator Reef, May \& 1869. Cast No. 10. 118 fathoms. Off Temnessee Reef, May 7, 1869. Cast No. 7. 124 "

## Milnia bicornuta Stm.

Pisa bicormita Latreilie, Encyc. Mèth., X, 141.
Pericera bicoma II. Mane-Edwards, Mist. Nat. des Crust., I, 337.
Pisa bicorna Gibbes, Proc. Am. Assoc. Adv. Sci., 1850, p. 170.
Pericera birornis Sicssure, Crnst. Nouv. dn Mexique et des Antilles, p. 12; pl. i, fig. 3.
Milnia bicornnta Stimpson, Notes on North American Crustacea, p. 52. Sminn, 'Trans. Connecticnt Acad. of Arts and Sciences, II, 1.
Found at low-water mark at the Turtugas, and dredged at Key West in 2 to 5 fathoms.

The generic name Wilnia is preoceupied, having been used by Hame for an Echinoisl, but it seems sarrely necessary to change it.

## Subfamily PERICERINAE.

Milne-Edwards, Dana, and anthors generally, speak of the eyes of Pericera as being non-retractile, having probably studied the genus by means of dried specimens only. In fact, however, the eyes in this group are more perfectly retractile than in any other crustacea; so much so that they may be entirely concealed in their orbits, whieh form a capacious cavity with a small, round external orifice. In this cavity the peduncle of the eye, the inner half of which is not indurated, becomes bent to a right angle when retracted.

## Pericera trispinosa II. M.-亡ゅw.

Pisa trispinosa Latrellee, Encyc. Mèth., X, 142
Pericera trispinosa H. M.-Edwards, Hist. Nat. les Crust., I, 336 Guerin, Iconog. du Règne Anim., Crust., pl. viii, fig. 3. Gigbes, Proc. Am. Assoc. Adv. Sci., 1850, P. 172.
Dredged at Key West in from 2 to 5 fathoms, and fomd at the Tortugats at low-water mark.

Pericera camptocera nov. sp.
Allied to $P$. trispinosa, hut differs as follows: The carapax is narrower and more sparsely pubeseent. The four tubercles at the summit of the gastrie region are more prominent, forming erect spines. The posterior spine and the lateral spines are longer and more curved. The rostrm is longer, and its horns are regularly divergent from the base. The orbital tubes are more protuberant, and the preocular and postocular teeth longer. The movable part of the antenne is both longer and stouter. Finally the carpal joint of the ambulatory feet is narrower and not tuberrulated.

Measurements of a male: 'Total length of carapax, 0.92 ; length of rostrum, from base of orbital tuhes, 0.2 .5 ; brealth, between the tips of the lateral spines, 0.70 ; between the bases of these spines, 0.48 inch.

One male and one temale specimen were taken near Key West in from ? to 5 tithoms.

## Pericera eutheca nov. sp.

Carapax subtrapezoidal, constricted anteriorly behind the orbits, and broadly rombled behind. Frontal and hepatie regions concave; gastric, carliar, intestinal, and branchial regions motherately prominent and each bearing a slender spine. Rostrum very suall, forming about one sixtl the lengeth of the carapax, nearly horizontal, and consisting of two slender, acute, parallel horns. Orlits wry strongly prominent, projerting forward and ontward far bevond the antero-latemal margins, forming shenths longer than the rostrm, and each orcopying nearly one third the interorbital
width of the earapax. The distance between their extremities equals four fifths of the greatest width of the carapax. The extremity of the orbital sheath is armed with two spines, one before and one behind the eye. The spine of the basal joint of the external antennæ is rather small and slender, and about one third as long as the rostrum. The ambulatory feet are very slenter.

The measurements of a female specimen are: Total length of earapax, 0.90 ; breadth, excluding the spines, 0.65 : length of first pair of ambula tory feet, 0.75 inch.
It may be distinguished from all the species hitherto known by the great size and prominence of the orbital sheaths.

Off French Reef, April 3, 1869. Cast No. 1. 15 fathoms.
West of Tortugas, Jan. 16, 1869 . Cast No. 9. 37 fathoms.
Pericera septemspinosa nor. sp.
Carapax oblong, strongly convex, pubescent ; antero-lateral and posterolateral sides concave. Dorsal surface armel with seven prominent spine, one on the gastric, one on the cardiac, one on the intestinal, and two on each branchial region. Rostrum about one fouth as long as the post-frontal portion of the carapax, deflexed; horns sultriangular, aeute, diverging, curved, pointing outward. Orbits projecting, with a prominent, acute preocular and postocular spine. On the suborbital and subhepatic region there are three spines, the posterior one of which is longest. There is a small, slender, acute spine on the basal joint of the antenne. Feet unarmed. The pubescence of the body allheres strongly to rough objeets brought in contact with it, and notably to that of other specimens of the same crab.

Measurements of a male : Length of carapax, 0.33: breadth, exeluding the spines, 0.25 inch.

It differs from $P$. enthece in its broader rostrmm and less prominent orbital sheaths; also in the spines on the subhepatic region, ete.

West of Tortugas, Janu:ny 16, 1869 Cast No. 4. 36 fithoms.
Pericera cornuta H. M.-Fdw.
Cancer comuta Herbst, Naturg. d. Krabben u. Krebse, pl. lix, fig. 6.
Maia tumen Lamarck, Animaux sans Vert., V, 242.
Periceru cornuta II. Milne-Edwards, Mist. Nat. des. Crust., I, 335 ; pl. xiv bis, fig. 5. Illust. Cuv. Règne Anim., pl. xxx, fig. 1. Gıbbes, Proc. Am. Assoc. Ads. Sci. 1850, [ 172. Stimisur, Notes on N. American Crust., p. 55.
A young example, one inch long, of this well-known species, oceurred in rather deep water. It had previonsly been found only about low-water vol.. 11.8
mark. In the young, the horns of the rostrum are more divergent than in the adult, and the anterior branchial spine is smaller. 'The feet are provided with a few long, thick lairs not found in the adult.

Off the Quicksands, January 23, 1869. Cast No. 1. 34 fathoms.

## Tiarinia setirostris nov. sp.

Carapax narrow, with perpentlicular sides. The greatest breadth, which is at the posterior fourth of the post-frontal length, is only one fourth greater than the transorbital breadth. 'Ihe upper surface is maked, and bears a few small tubereles, of which three, in a median line on the posterior half of the carapax, are larger than the others. The posterior tuberele, on the intestinal region, is spiniform and curved upward. Sides of the carapax somewhat setose. Rostrum half as long as the post-frontal part of the earapax, with the horns slightly gaping near the base, but contiguous for the remainder of their length, very slender, setiform, and setose. External antennæ as long as the rostrum ; basal joint concave, without any spine at the antero-external angle; flagellum long, hair-like. Cloelipeds in the male large, longer than the carapax incholing the rostrm, hand somewhat compressed, grambated above; fingers very short, widely gaping. Ambalatory feet long, slender, and smooth; those of the first pair nearly as long as the chelipeds.

Dimensions of a male specimen: Length of carapax, 0.82 ; breadth, 0.35 inch.

This speeies differs much from the typical Tiariniac in the great length, slenderness, and smoothness of its ambulatory feet, and future investigations, on more abundant materials. than those at present available, may prove it to be generically distinct ; in which case I wonld propose for it the name Leptopisa.

The Tinriniae litherto deseribed all belong to the Indo-Pacifie fauna, living chiefly in the southern part of the Japanese Arehipelago, in the seas of Sulu and the Philippines, Nicobar, ete. Of these species our Florida form approaches nearest to T. angusta Dana, which it resembles in the narrowness of the carapax, hut from which it is at once distingnished by the less tnberculaterl carapax and slemder feet.

It was taken at the following points: -
Key West, 2 to 5 fathomis.
Near the Torncas, 9 fathoms.
On the Fishing Banks, S. W. of Loggerhead Key.

## Sumpamif NAXIINAE.

The characters of the orhital recion in Chorinus are so different from those of Noxia and its allies as to forlid its being plared in the same sub-
family with the latter group, for which the name Naxiinae is here proposed. The deep noteh on the upper side of the orbit is here a constant charaeter.

## Scyra umbonata nov. sp.

Carapax triangular, with six large flat-topped protuberances on the upper surface; one on the posterior part of the gastric region, one on the cardiac, and two on each branchidl region. On the outer sitle of the branchial region there is also an aeute triangular tooth, pointing forward and outward, and of similar character and nearly as large as the other protuberances just described. They are all not only flattened, but somewhat expanderl at the top. Their summits are naked, but the deep channels between them are pubescent. Besides the above there are on the carapax three small tubereles on the gastric and a stroner erect tooth on earh hepatie region. The gastric and the sides of the branchial regions are hairy. The rostrum is rather longer than the interorbital width of the earapax ; it is hairy above, and is neither flattened nor expanded. The movable part of the external antennæ has eylindrical joints. The merosjoint of the external maxillipeds is not notched for the reception of the palpus. Abdomen and stermum pubescent. Sternum of the male with clecp excavations between the segments, the exeavations being broader than the ridges separating them.

Dimensions of a male: Leugth of earapax, 0.94 ; breadth, measured between the tips of the branchial teeth, $0 . i 2$ ineh.

The species of Scyra heretofore known are but two in number, and inhabit waters of moderate depth on the shores of the North Pacific Ocean, one on the coast of California and Oregon, the other on that of Japan. The present speries was placed in the genus with some doubt, on account of the "haranter of the rostrum, the external antenne, and the outer maxillipeeds which, as may be noticerl by the eleseription, differ somewhat from those of the type, S. acutifrons. The resemblance in all other essential characters is, however, very great; and in the present state of our knowledge, the Florida species ought not to be separated as the type of a distinct genus.

It is an inhabitant of deep water, as follows:-
Off Sand Key, May 11, 1868. Cast No. 15. 143 fathoms.

## Subfamily OTHONIINAE.

The Othoniinae are characterized by great orbito-frontal breadth, a small, short rostrum, an extremely short epistome, and gaping external maxillipeds. The orbits are tubular like those of the Pericerinae but are directed forwards insteal of outwards.

## Othonia aculeata Srm.

Hyas aculeata Gubes, Proc. Am. Assoc. Adv. Sci., 1850, p. 171.
Othonia aculeata Stimpson, Notes on N. Ameriean Crust., p. 3.
Othonia Lherminieri Desbonne et Scuramm, Crust. de la Guadeloupe, p. 20.
The specimens in the collection are all young, and oecurred as fol-lows:-

At Key West, 2 to 5 fathoms.
At the Tortugas, 5 to 6 fathoms.
Off the Tortugas, Jamary 29, 1868, in 13 fathoms.

## Subfamily MiTilidCinaE.

Mithrax hispidus I1. M.-Edw.
Cancer hispidus Herbst, Namrg. d. Krabben n. Krebse, pl. xviii, fig. 100.
Maia spinicinctu Lamanek, Anim. sans Vert., V, 2+1.
Mithrux spinicinctus Desmarest, Consid. sur les Crust., p. 150; pl. xxiii, figs. $1,2$.
Mithrax hispidus H. Muse-Ebwardx, Hist. Nat. des Crnst., I, 322. Gipbes, Proe. Am. Assoc. Adv. Sci., 18.50, p. 172. Sphmpos, Notes on N. American Crust., p. 60. Smitn, Trans. Comecticut Acall. of Arts and Sciences, II, 2, 32.
This well known species occurred at Key West, in liom 2 to 5 fathoms.

## Mithrax pleuracanthus nov. sp.

This is closely allied to M. hispidus, but is a smaller species, with a somewhat narrower farapax. The protuberances of the carapax, and the teeth or spines of the orbits and the basal joint of the antemme, are sharper and more prominent, ant there are small tubereles on the intestinal, branchial, and hepatic regions which do not ocem in M. hispidus. The minute pmetures of the surface are less apparent than in that specties.

The dimensions of a male specimen are: Lemoth of the carapax, 0.57 ; breatth, 0.55 inch; propertion of length to breadth, $1: 0.965$.

This speecies can sarcely be the M. afferis of Desbome and Schramm (Crust de la Guadeloupe, 1. 10), the description of which applies to it in most resperets, for those anthors state that the front, rostrum, and orbits are like those of Mithraculus soulptus.

It oceurred at Key West in from 2 to 5 fathoms, and at the Tortugas in 5 to 6 fathoms. There is in the Smithsonian Collection a specimen taken at St. Thomas by A. II. Riise, Esy.

## Mithrax acuticornis nov. sp.

Carapax much longer than hroad, amb tuberenlated, sparsely on the gastric region but more elosely postenionly and at the siles, the tubercles
becoming spinifirm toward the margins, which are armed with true spines curving forward at their tips. Fiostrum half as lome as the interomital wilth, and consisting of two rather stember, acoute homs. Basul joint of the extermal antenne armerl with two spines, the anterior one of whielh is slenter, (used, ant two thirts as long as the rostrom. Tlue marein of the orbit is armed with six spiniform terth, not including those of the antemal joint. The fect are strongly pinose above, the the hands are marmed. The color in wet specimems, and probably in life, is a bright deep reel.

Dimensions of a male: Length of carapax, 0.73 ; breatth, 0.5 .5 inn $h_{1}$ : proportion. $1: 0.7 .33$.

This species appoaches schizophrys in the shape of its carapax, which is much more ohlong than in other species of the gems in whith I have placed it ; but the rostrm is simply two-lowned, and the orlate are smilar to those of the typical forms of Methrex.


## Mithrax Holderi nov. sp.

This species resembles .II. afuticnrnis in the charaters of the front, hut the earapax is boader and more strongly and closely tuberculated, the tuberdes occuping nearly the whole pler surface, can-ing it to resemble that of Tiurinim eormigere. There is a small spine om the hepatic region and one at the lateral "xtremity of the brachial rowion. 'The anterior spine of the basal goint of the antemase is nearly as long as the rostrom, amb there is another spe, very small, at the insertion of the movable part of the antema. The ambulatory feet are thatened above giving the joints a smewhat trigonal fom, and both margine of thoir uper surface are spinulose and ciliaterl.
 propertion, 1: 6.s.

This speries ocomerel at the Tortugat in a fathems: It is namen in compliment to 1)r. J. l'. llohter, who fommel it, also at the' 'Tortugas, and I believe at low-water mark, several yars awo. Dr. Hohders specimen is in the Mnsenm of the Sinithenian Institntion.

## Mithraculus sculptus Stu.

[^0]| Key West, | 2 to 5 tithoms. |  |
| :--- | :--- | :--- |
| Tortugas, | 5106 | $"$ |
| Cor'the Simboes, | 123 | " |

This well-known speecies is finmel thromghem the West Indian seas, and is very abmont on the reefts at and alowe low-water mark. I have queriod the depth 123 fathoms, feaning that some acerishatal transurnition of labels, has taken place, as the Mithrecule are eminently littomal in their hathits, and the eperimen so lathelled is a till-grown male, similar in all respects to those fimul on the shores.

## Mithraculus ruber nov. sp .

Carapax sulbriangular, one fitth broater than loug. Surface nakeel. podished, and meven, but with the protule rances less numeroms and sualler than in M. scuptus and M. cormuthes. These protulewanes ane ahon romulded, and mot chongated ats in the allied speriow, and some of them are eparedy tuberentated. Autero-lateral margin armed with thee Ineth, herides the angle of the ondit, the pesterion tooth being shatp, spini-

 it and the poterion twoth. Behlime the perterion tooth there is a small
 maxillipeds is slightly simons in fromt. Ahwing a faint imblication of : a notch. (Cleclipeds sather longe and stender; meres armed above with six shall, conical, cqual tuherecres ; wanm: and hamd smoth. Ambulatory feed eqlindriwal, densedy sherthiry alkere (hairs simple); they are alse spinulosi : alunce, the spine beine seattered in two rows. Color of the arapax whentut red, with some hluish postriorly.
 prowntion, 1: 1.25.

It liffers: from II. sentptus, II. cinctimenns, anul II. minutus in its hroader (earapax, "tes, and from 1/. coromethes in its spinitionn latemal touth and in the character of the surface of the carapax.

Fonnd on the reed at Cruz ide Palre. Cuba.

## Mithraculus coronatus Sm.

Cancro cormaths Hmass, Naturg. d. Krabben und Kirbee, I. 184; ph. xi, tis. tis ( ${ }^{\prime}$ ).
Mithuralus cormums Wrme, Brit, Mus, Cat. Crust., pi (? partim). Stumb son, Note on N. Americau Crust., p. is. Smme 'Trams. Comn. Acall. of Arts and Sciences, II, 2.
It is sumewhat rloubtful whegher this is really the Cancer coronatus of

Herbst He refers to seba, pl xxii, fige f. Seloas fig. 22 of pl. xix is a better representation of the species under consideration.

Littoral on the reef at Eastern Dry Rocks.
Reef at Cruz del Padre, Cuba.
Key West, in 2 to 5 fathoms.

## Family TyCiIdAE.

## sibrimity TYCHINAE.

## Tyche emarginata Winte.

Typhe rmaremata Whate, Amnals and Magazine of Natural History, First series, Vol XX. p. 206.
 P. 3 ; pl iii, higs 7 and s.

The reurions geme Tyele is so liftle known that a short deserpiption of the erab under comataration may not be out of patae here. The casapax is flattemed and partly concave above, and has laminifom expansions in tiont and belhel. 'The fromtal region is very hroad, the tranowhital width nearly equalling that areos the bramehial recrions. 'The hepatie regiom is
 gent. Iracorbital spines very long, and smewhat divergent, thes, with the matron, giving the entire front a fom-lomend form. Extermal antemar

 anth.

The extemal maxilliperls are very remakable in form, the wosuath having a how-shaped process at the hase, whith oree lape the bane of the
 posterin folse which projerts fir into the anterion extremity of the ischime.

This wat, wate fomed by the expeatition at Key West in e to is fathoms, amb at the Tortugas in 7 ththoms.

## Fhaly Eurypodifate.

Among the general waraters of this family, the existenee of a distinet orlital areln wer the base of the ere, and of a pertercular spine, seem to be the most important.

## N'thfamhy COLLODONAE.

This name is proposed for a group of menera of Enrypodiidate haracterized hy the extreme shorthess of the rostrm, wheh group is, as far as knewn. perentiar to the tropieal parts of the Ameriean sata, ant ocers on both sides of the comtinent.

## Collodes trispinosus nov. sp.

Carapax ovate-triangular, hairy, and everywhere covered with small granulated tubereles, except on the front and the anterior portion of the gastric region. There is an erect, capitate spine on the gastric, one on the cardiac region, and one of equal size on the basal joint of the abdomen. Rostrum with two minute horns. Four minute spines on the basal joint of the antenne, the anterior one of which is placed nearly on a level with the horns of the rostrum. Ambulatory feet long, and provided with long stiff hairs; hairs of the penult joint below straight and above hooklike and often serrated on the inner sille near the tip. Daetyli of the ambulatory feet about as long as the penult joint.

In the male of this species the earapax is somewhat more clongated and depressed than in the female; the hands are of morlerate size only, and much curved inward; fingers nearly as long as palm and gaping, with a tooth inside on the middle of the thumb. Abdomen of the male elongate triangular; intromittent organs nearly straight, simple, rearhing nearly to the extremity of the abdomen.

All the specimens examined were covered with a thick coating of mud, held by the sete.

The dimensions of a female specimen are: Length of the carapax, 0.41 ; breadth, 0.32 inch.

The only species hitherto known of this genus is the C. granosus of the west coast of North America, described by me in "Notes on North American Crustacea," page 66 (Annals of the New York Lycemm of Natural History, Vol. VII, p. 194), from which the species under consideration differs in its more elongated earapax, which is more completely covered with gramulated tubercles, and in the somewhat greater length of the rostral horns and the spines on the hasal joint of the antemne. It is proper to state that of C. granosus only a single (female) specimen is as yet known.

The species oermerel as follows:-
Off the Quicksands, January 23, 1869. Cast No. 1. 34 fathoms.
Off Carysfort Reef, March 21, $1869 . \quad$ Cast No. 8. 35 "
Off Carysfort Reef, March 21, 1869. Cast No. 7. 40 "
Off French Recf, April 3, 1869 . Cast No. 4. 50 "

## Collodes nudus nov. sp.

Allied to C. granosus and C. trispinosus, having three spines on the back similar in shape and position to those of those speries. It differs from them, however, in its nakel carapax and feet, and in the less numerous and prominent granulaterl tubereles of the dorsal surface. The carapax is also much broader anteriorly.

The ambulatory feet of the second pair are rather longer than those of the first pair. The dactyli of the ambulatory feet are armed with spines along the imer edge.

The dimensions of the single specimen found, a male, are as follows: Length of carapax, 0.24 ; brealth, 0.18 ; length of ambmatory foot of the first pair, 0.45 incll.

Off Carysfort Reef, March 21, 1869. Cast No. 7. 40 fathoms.
Arachnopsis nov. gen.
Carapax oblong, narrow, and somewhat truncated in front. Rostrum short, bifich. Orbital areh high, protuberant. Postocular spine lons, and reparated from the orbital areh by a deep, narrow fissare. Eye loms, considerably overreaching the tip of the postocular spine. but capable of being drawn baek bencath it. Sasal joint of the external antemme with a small, sharp spine at the extromity, pointing oblifuely forward and outwarl, between which and the rostrum the movable part of the antenna is exjuosel, and with a spinulons erest on the inferior surface extending back to the angle of the bnecal area. Merosjoint of the external maxillipects broader than long, and with shaply prominent external and internal anterior angles. Ambulatory fect long, filiform; those of the secoml pair longest ; dactyli straight, acute, and mearly as long as the pemult joint.

This genus difficr, from Collodes in its filiform ambulatory feet and long eye perduncles.

Arachnopsis filipes nov. sp.
Boty armed above with three erect, slender, blunt spines, one on the gastrie re :nn, one on the carliar region, ant one on the basal joint of the abdemen. Aldtominal spine small; eardiae and gastric spines equal and about as long as the distance between the orhital arehes. Carapax convex anteriorly, and flattened posteriorly. Surface of rarapax smooth and glosey, naked, except for a few hairs on the anterior part of the branchial, the sides of the gastrie, and the frontal reqion. Beneath, the subhepatic and pterygostomian regions are armed with spiniform granules. Chelipeds in the male as long as the carapax and much curved : etges of meros and carpus spimbose; hand nearly smoth: fingers as long as the palm. Ambulatory feet spinulose along the lower edges of all the joints, except the lactyli; those of the scond pair more than twice as long as the carapax. Stermm, ablomen, and external maxillipeds tuberculated.

Dimensions of a male : Length of carapax, 0.25 ; brearlth, 0.18 ; length of ambulatory foot of first pair, 0.5 ineh.

Off Conch Reef, May 11, 1869. Cast No. 2. 34 fathoms.
Off Carysfort Reef, March 21, 1869. Cast No. 7. 40 "
Off French Reef, March 21, 1869. Cast No. 2. 45 "

## Batrachonotus nov. gen.

Carapax triangulat, broadly expanded belind: surface ronglh with granulations: gastric, cardiar, amd branchial regions strougly protulserant ; wervieal depressions deep and bread, giving the rarapax at surerior outline

 nated at the midfle. basal joint of the external antemar with a small tooth or spine on the outer margin, but mone at the anterior extremity. No spine on the orbital ardi. P'ost-oलular spiue: minute. Meros-joint of the external maxillipeds hoad, with prominent extemal and internal anterion angles. Amblatory feet simple; thase of the first pair disproportionately fong, nearly twier as long as those of the semond pair; these of the posterion pairs very shom. Inatyli of ambulatory feet rather long. Abdomen wery narrow at base.

It diflicis from the other genemo of Collodinate among wher characters, in the want of a terminal spine on the hasal joint of the antemate, and in its bery long anterior and short poterior ambulatory fet.

## Batrachonotus fragosus nor. sp.

The following elempiption is that of a mate. loony and feed noked. On

 the basal joint of the abdemen. A share thberele on the sublepatic, and



 व:an:
 variagated with purplid.

Of this speries we find in the collertion only one specimen, a mate, the


 the 2ed ot Jannary, 186s. (ant No. B. Dipth 16 fathoms.

## Euprognatha nov. sen.

Carapax periform. Rontrum shert, tifid. the median hom being the
 level than that of the other two horne, which are minute ame divererent.

Basal juint of the extemal antenne armed at the anterior extrmity with a slender spine reaching forwarl as far as do the rostral homs；movable part of the anteme exposed from its insertion．An erret spine on the orbital aren．Eye large；peluncle short．Postocular spine reaching be－ yont the extremity of the eye．Meros－joint of the external maxilliperds somewhat L－－haprel，strongly produced beyond the insertion of the palpus in front and at the postero－intarior angle．Feet lome and slemerer．Pemult joint of the ambulatory feet of the first pair more than twice as long as the dactyli，and three times as longs as the antepemit joint．

This gems differs from all the other genera of Collodinae in it－interam－ tembar spine and the spine on the orbital areh，and especially in the shape of the meros－joint of the external maxilligeds．

## Euprognatha rastellifera nor．sp．

The following deceription is that of a male．Carapax naked，with the regions well defined，and mintely and imerularly grambated．There is a single，erect，blunt，almost rapitate spine on the gastrie，the cardiac，and eath hamelial rewion making forr in all，and there are a few smaller Spines on the sides of the branchial，and on the lepatic and pterygusto－ mian regions．Thene is also at small spine on the basal joint of the abdo－ men．The interatemular shine projects somewhat beyond the other four spines of the front，which reach to the same wertieal plane．The ehelipeds are large，nealy twiee as lone as the carapax ：hand swollon： fingers not gaping．Amblatory feet of the first pair nearly one thimd longer than the chelipeds．The ambulatory feet are naked（except in bearing a few minute corbled sete above），and rough with minute pines． The strmm is regularly grammated，escept on the concave portion be－ tween the edetiperts．

Dimension：Length of carapax， 0.32 ；breathl，0．23；length of ambula－ tory foent ol the first pair， 0.76 im h．

This cral）in an inhabiant of deep water，rancing from 80 to 135 fathoms， and oceurrel in comsislerable abombance，as follows：－

|  | リッド ${ }_{\text {¢ }}$ | （．ant N゙o．5． 80 | a）fithom |
| :---: | :---: | :---: | :---: |
| －Alligator Rect， | May s．Istio． | Cast No．6．ins | － |
| nol liey， | Mey 16，In6s． | （ ast No．2．120 | 20 |
| （）ff the Simbroes， | May ！，1s68． | （：1\％t No．12．12：3 | ：3 |
| Wf：Sma Key，1 | Fehruary 17， 1869. | Ciast No．2． 125 | 25 |
| 1 | Felru：uy 15， | No．5． 125 | 25 |
| Off simul Ker， | y 11 ，Isfis． | （ $\mathrm{a}=1$ No．11．120 | 2＊ |
| －W．wi kimd k | Fobmary 17，1sic | （＇a－t $\mathrm{N}_{0}$ ．3，1：3 | 3 |

## Nrmamily AMATHIJNAE.

The only spereies of this group, hitherto known is the Amathia Rissoana of the Meditermean Sal. 'Two speries are now added, as follows:-

## Amathia hystrix nov. sp.

This species has a close resemblance to .1. Ieissoana, but differs in having four instead of three spines on the gastrie region.

The dimensions of a male secemen are as fotlows: Length of carapax, including the rostrum, $1.2 ;$ : rachuding rostrum. 0.71 ; beadth, including lateral spines, 0.95; excluding theee spines, 0.48 inch.

Off sand Kiey, May 11, 1st9. Cast No. 16. 138 fathoms.

## Amathia modesta now. \&p.

Carapas armel with twelve spines shorep than in the other spectes of the genns, the two on the gatrice region being in fact only spiniform tubercles. The lateral and penterior spines are longent, that on the onter extremity of the branchial region equalling in length one fitth the width of the carapox. Rostrmm nearly as loms as the port-firmalal part of the ramax; homs rather stout, divergent, amd curving outward at the tips. The spine before the eye is small, and that behind still smaller. No trace of a spine at the anterior angles of the buecal area. Feet somewhat Shorter than in the other two species, and with no trace of a spine at the stmmit of the maros-joint.

Dine nisons of a male: Leneth of (arapax, rostrum and posterior spine indmed, 1 ).s. ; fiom hate of rostral homs to tip of posterior spine 0.54 ; mearth of carapas, indmeng pines, $1 . .50$; excluding spines, 0.36 ; lengeth of ambulatory font of the first pair, 1.95 inth.

Taken ofl saml Key in 120 fathoms.

## GIRFMmar ANOMALOPINAE

This group is indieated for the reeception of the" gemens Annmalnpus, now for the first time deseriberl, with a single spereies. 'The eral, diflers from all
 of its amblatory feet : those of the posterion pair being larger than those of' the peruult pair. 'The orlital arch is lase distinct than in other Eurypodidat, and the post-ocular spine much smaller.

## Anomalopus now. gen.

 slender, bifid. Eyes without ohits; premolital spine small, aente: post-
ocular spine minnte. External antemate exposed from above: basal joint narrow. Antemulary fisse large. Epistome two thirds as long as it is loroal. Meros-joint of the external maxillipeds without any noteh at the interior angle where the palpus is inereded external angle sharply prominent. Cheliperls in the female shorter than the earapas. Ambulatory feet of the first pair very long, twice as long als the camax. with the dactylus nearly straight, amd three fourths as loner as the pernult joint. Amblatory feet of the posterior two pairs shorter and stouter than those of the anterion two, ant with prehensile extremities; those of the penult pair slorter than these of the last pair.

## Anomalopus furcillatus nov. sp.

Carapax minutely pubesent, marmed exeept in front, regions scarcely defined. Rostrmen analling in length two thinds that of the pot-tiontal purt of the carapax. fiokent in the termmal half of its longth ; lorns lyut slightly divergent. Exterpal antemme melh shorter than the rostrum: flatellum as long as the two joints preething it taken together. Antenmake reaching to the extremity of the perluncle of the antemas. Chelipeds with a small spine on the outer sile of the carpus; hand very small; tingers half as long as the pratm and murh gaping.
limen-ions of a fimate: Length of caramax 0.67 ; headth, 0.25 ; longth of ambulatory firet of the first pair, 1.50: of the third pair, 0.48 ; of the fourth pair, $1, s^{2}$ en inch.

Of this spectes 1 fint hut one speeimen in the collection, a female, which was taken at the elepth of 123 fathoms ofl' "The Sambers."

## Famify LEPTOPODHIDAE.

This fami? is charaterizell by anentive want of orlits and of a true post-ocular spine, and by the ereat lengeth of the tient.

## Stranamy LEPToPob)HA.AE.

## Leptopodia sagittaria Lew'i.


Inechus sumittorios Fabmolus, suppl. Ent Sy-t., p. 359.
Couner sticomis Herbst, Nature d. Krahben n. Kireber, III, pl. Ir, fig. 2.
 Mith. pl. reveix, fir. 1. Desitheat, Consid. sur les Crust., pl. xvi, fig. 2. Citeris, Iconorraphia du Lieme Anim., Crust., pl. xi, fig. 4.
 Cuv. Regue Anm., Crust., plosxvi. (ibmbs, Proc. Am. Assoe, tavo, p. 169. Desbonae et Achrima, Cra-t. de la Guateompe, p. i.

This crab, which has hitherto been fomed in shatlow waters, but never, as fion al am aware, athove low-water mark, oreurred to the expedition at the lodlowing point a and depths:-

| South ot the Tortngas, | Jammary 15, 1869. | Cast No. 3. 17 |
| :---: | :---: | :---: |
| Otf Cunch lieef, | May 11, Iafig. | ( a at No. 1. 30 |
| Santarem Channel, | ge of Bahama Bamk. | Cast Nor - . 35 |
| ff French Reef, | March 21,1 | Cut No. 45 |

## Submamay A('ILAEMNAE.

## Podochela macrodera Stu.

Poduchetu muerodera Snimpos, Nutes on N. American Crist., p. 68.
Found at Key West, in from 2 to is fathoms
Podochela gracilipes now. sp.
Closely atlied to $l^{\prime}$. meterodera, but dillers in its narrower body, iongen
 daretys of the first pair of amblatory feet ix exeredingly shomer and longer than in cither of the two spere hitherto known, being more than one thind as long as the permatt jerint. 'The process of the pernult joint in the othere ambulatory feet is almest atione olientete.

Dimensions of at female: Lengeth of catapax. ".3.5; breathl, 0.24 inch.
Only female sperimens owern in the collection.

| Wrat of Torthgas, | Jamery 16, $185 \%$ |  | 36 fithoms. |  |
| :---: | :---: | :---: | :---: | :---: |
| Oft liaitie Reat, | May 13, 1xem. | (ast No. | 49 |  |
| Ofl Catyont hecl; | Mareh $31,1 \times 69$. | ( anst No. 1. | 52 |  |
| (fir Carysom licef, | Marela 21, 1~69. | Cast No.s. | 60 |  |

Podonema nov. gen.
The sureins of this gemn- I fimmerly included muler Podocheld (Notes
 sine become known to me has hed me to consider it distine in the haod*hapeat rotrom, and in the existene of lamedifioms ri hers on the pery-
 gems has at comeate pextorion marem of the calapax.

## Podonema Riisei stm.


 tugas.

## Podonems lamelligera nos. ¢

The fulluwing daseription is that of a female, the only specimen as yet
found. Carapax similar to that of $l$ '. léese, exeept that there is a spmiform tuberele, curving backward at the tip, on the gatric region, and that the rostrm is smaller and more pointed. The two margisal lame llat of the lasal juint of the external antemme are strongly prominent, joining each other in tront, and curving ontward at the posterior extremty On the irelimmojont of the external maxillipets there is a smouth emonithdinal ehamel, defined exterionly by a ciliated ridge. On cither side of the burean area there ane four laminiform erests; one at the antero-exterior angle of the areas one on the bejatie, and two on the pteryonstomian region. The sternam, where not covered by the abdenem, and the bases of all the text, are ormamented with cavities, the smbee of earls jont being roneave and surmumed by a laminfom expansion.
1)imensions of the female specimen: Length of earapax, 1.44 ; lorealth, $0.3:$ inch.

It was taken at the depth of 21 fathons, of Temessee Reef, on the ith of May, 1869.

## Podonema hypoglypha nov. sp.

The followine deseription is that of a male. Gastrie, cardiac, and lomelial protuberances low and rombed. Rostrum slightly carved upward, and triangular in outline when seen from in front and below, but with the lateral expmans well dewloped The basal joint of the extermal antemae is sroatly elomgated, and the laminiform expansions of the margins slight. In patic tooth and pteryor-tomian ridere moderately developed. Stermm with deep and broad chamels separating the serments, which have each a corresponding tlattened ridge as broad as the channel.

Dimensions of a male specimen: Length of carapax, $0.63:$ breadth, $0.4\rangle$ inch.

It diflers from $P$. Ruisei in the shape of the rostrum, and from both Riusei amd lumelligere in the elongated lasal joint of the external antemute

No female specimen orerurs in the collection.
Key Went, in + to 5 fathoms.
S. W. of Loggerhead Key, in 9 farhoms.

## Fsmma ACANTIONYClIIDAE.

In this group the eye is short, in some senera searcely movable, and in others somewhat retractile or rather capable of being moved in a horizontal plane. There are no true orlits. lut in many genera the eye lies beneath the expmend orbital marein of the carapax, which has frequently two tecth, one betore and one behind the position of the eye. The eye
is, however, never concoaled by these expansions. The carapax is gen erally thattened, angular, and naked, insteal of subpyriform and spinous as in the mapority of Maionds 'The feet are nsually short.

It is neressary to reject the name I'creceridue, whieh was applied to this group by Dana, for in the genus P'ericert the eyes are completely retractide, as stated on a previons page. The grenus Acanthongr seems the most typical of the group, and from this is taken the nane adopted above.

## stmamhy EPIALTINAE.

## Epialtus longirostris Sts.

Epialtus lomgirostris Stimison, Notes on N. Amencan Crust., p. 71.
Found at Key West in firm 2 to is fathoms.

## Epialtus affinis Sitm.

Epialtus affimis Stisn'son, Note on N Ameriean Crust., p. S.
Found on the $\operatorname{Fecef}$ at C'riz del l'adre, Cuba.
Niocosoa nov. yen.
Carapas subpentagonal, tumid; rostrm subtriangular, entire, obtuse, exeavated below; "yes large, mmovable. External antemne concealed beneath the rostrum and not rearhing to its tip; basal joint triangular. unarmed in front. External maxillipeds very brod : meros-joint partienlarly short and broal, with the outer angle murd projecting ontward, and the inner one a right angle, not at all notined for the reecetion of the palput-

This gems differs from Ejpioltus 111 ite immorahle exes, which resemble
 The name adopted fior the semes is that of one of the Florida Cacigutes encountered by De soto in his march.

## Mocosoa crebripunctata nov. sp.

Upper surface of carapax everywhere miformly puntate, the minute pits being equal in size and wider than the interspaces. Carapax naked and protuberant, there being two prominenees between the eyes, three on the gastrie region, one large one on the cardiade, and three on cach lonanGhial region. Of the three branchial protuberances one is sitmated at the midille of the region and two on the onter margin, the pesterior one being smallest and hearing a minute What spine. Feect short and armed with a few short, blunt spines, chiefly on the meros-joint.

Boxly of a strawhery color; upper sirface of carapas indeseent.

Of this species there is but one specimen in the collection, an immature female, the dimensions of which are: Length of carapax, 0.20 ; breadth, 0.17 inch .

It was taken in 15 fathoms, off French Reef, April 3, 1869.

## Family PARTHENOPIDAE.

## Sibfamily PAlithenopinaE.

## Lambrus crenulatus sarss.

Lambrus crenulatus De Sacssure, Crust. Nour. du Mexique et des Antilles, p. 13 ; pl. i, fig t. Stmpsos, Notes on N. American Crnst., p. 73. Des. bonse et Scurama, Crmst. de la Guadeloupe, p. 21.
This speries is remarkable for its depressed form and the excavation of the ptergostomian and subhepatic regions. which excavation extends to the infero-exterior margin of the orbit, firming, when the chelipeds are retracted, covered aflerent passages, the external apertures of which are seen between the base of the finger of the cheliped and the margin of the orhit. This arrangement wonld indicate that the erab halitually conceals itself in the saml, with the rostrmm, eyes, and afferent apertures only exposed.

Lambrus laciniatus: De Itaan axlibits the same features in a less marked degree, and the two species, with threr or four similar forms. eomprise a group which future studies may prove to be distinct from the triangular Lambri, and for which the name Plathlambrus would be appropriate.

Lembrus cremulatus was taken near the Tortugas in from 5 to 7 fathoms, and ofl Lorgerhed liey in 13 fathoms.

## Lambrus Pourtalesii nov. sp.

Carapax considerably broader than long, with a median row of four spiniform tubercles, of which one is placell upon the gastric and three on the eardiae region. In front of the tubercle on the gastric region there are two much smaller ones in a transverse line. The oblique ridge on the branchial region is armed with three unequal tubercles, and a strong. spiniform, laciniated tooth, with a smaller toothat its base, at the margin of the earapas. There are a few small, seattering tubercles on the other parts the earapax, particulady in the hollows between the branehial and cardiac regions. The depressions between the branchial, hepatie, and gastric regions are moderately deep. The general surface is pitted and grambated, having a carions appearance. Thore is a small prominent tooth on the hepatie region. Antero-lateral margin, behind the cervical suleus, with vol. II.
nine small, slender, laciniated teeth, propresively diminishing in size for wards: poterion tooth only one thied the size of the large bathelial pine or torth, which is the lanes on the marein of the carapax. There is a prominent tuberele at the smmot of the brathehal receion. Rostrmom of moderate size, pointing oblifuely downward and forward, and bearing a tooth on each side neat the base, and a smaller one near the dip. At the basal tooth the rostrum is abrupty romtrated more than one half in width. Cheliperls rather hoge; magins armed with latiniated teeth: meros comvex, with the "per suffere granated and tulerentated, the largest tubereles, thone along the mitdle, being subspiniform : earpme with five large and several small spinitorm tuthercles above and on the onter side. C"porer surface of hand with only two or three tubereles about the middle; teeth of the margins larow and more triangular than those of the mareins of the meros; thoee of the immer broader than those of the onter margin, particularly those loward the fingers, which are not, like thone towird the empus, sepatad ly intervals; inner margin with cight large and three small teetly; outer one with four large and six small teeth. Lower surface of hathl pmetate, with a reqular median row of tubereles. Ambulatory feet somewhat compresed; meros-joint spimatose on both upper and lower edge. The ridges of the abdomen, stemm, and outer maxilliperds are theremater.

Dimemions of a male: Length of carapas, f. 47 ; breadth, lateral teeth inchated, 0.52 inch: propertion of lengeth to breadih, I : 1.106 ; lengith of meros-joint of chulipeds, 0.:3: incll.

| Oif C'onch heeft, March 21, 1869. ('ast No. 1. 40 fathoms. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| h Reef, | March 21, 1869. | Cast No. | 45 |  |
| rican Shoal, | May 6, 1s68. | Cast No. | 100 |  |
| ff Conch Reeff, | May 11, 1s69. | ast | 11 |  |

## Lambrus fraterculus nov. sp.

 narrower, the proportion of length to breath lwing 1:1.04 ewen in the fimale, white in the malde it is longer than hoad. The depresions berween the bemedial and the gastrice and hepatie regions are bush deeper. In the femate the tubereles of the earatas and the teeth of the maresins are less spiniform and erenerally smaller ; the tubereles of the branchial amt
 malle speremen at hand the median tuberele of the wastrie and that of the

 slember, and the basal teeth more prominemt there is also a small shater
spine placed beneath and ontside of this basal tooth. The eholipeds are shorter, and the lower surface of the hame is always ornamented with sencral rows of erambated tuberdes. The datedi of the ambulatery feet


Dimensions of at male: lemoth of campax, 0.17; brealth, 0.45 inch
 of cheliperl, $0.3: \mathrm{I}_{\mathrm{in}} \mathrm{H}$.


## Lambrus agonus nor. sp.

Carapax browher than bome of romded form, withont :morles at the sule Depmesions between the regions rather shallow. Surface above everywhere mimbely tuberoulated and grambated. The lawer tubereles art semushat spiniform, and are armaged as follows: Pive on the gastrie
 and one larerer than the othere on the median line belime them; there in a longitulinal row on the cardiad requon one rade sille of the intestialal, far apart: five on each hanchat. and one on the hepatie region. From the eentral eardiae and from each lepatie tuberele, proceeds on earb side a row of erambes forming a $V$. Antero-lateral margin behint the hejatio region armen with six very small teeth, beneath and behind the posterion one of whelh there is a short towth-tike apest. The rostrme thongh smaller in siza, resimbles that of $L$. Pourtal sii in having a shomber extremity, hat insturel of two dentiales near the tip. it has twe on there dentieses near the basal teeth. There are two prominent terth on the onter sile of the orthit, and a minnte rinine at the sammit of the eve On
 rach side. 'Tonth of the hasal joint of the dheliped andely trimushar. On the serond joint of the aldemen there is a sarply frominent, bumtly
 foint theee is a crest like that of the seroml joint, lant smallere.

The chelipeds are wery leng and shomber: ipper sulace minutely sea-
 the meros atm araps, but apporelos the omer marein in the hand.


somewhat requlary in size to a point man the anterior extremity, where they gratually diminish again. (On the onter empe of the hame there are
 the larger ones. 'Tlue fingers are white in color, and not so mush bent downwats as is matal in the genms. Ambulatory feet long, slember, naked, and unarment, we wht only obsempe indications of theth on the meros-joint.



In a mate eperimen of what is probalaly a varioty of this prectes, fredged off Conch lacef, the hands ance shenter than in the typieal finm, and the rostrum is not narowed towarl the extemity and is devoil of marginal terth. These dillerenes are eotain! impertant ones, but the sperimen aroorls so well with the type in all other charaters that 1 wan searely beliew it to ber di-tinet.
 in the smather and lese momernes margimal tereth of the carapas, amb in the tharmed amblatory tiect.

| Off the Matrequenas, | Pebruary 10, 180 | Cast No. 3. |  | homs |
| :---: | :---: | :---: | :---: | :---: |
| Itect, | March $21,18 t 9$. | Cativo. | 40 |  |
| oh Reet, | 3areh 21, 1869. | Cast Nu. | 40 |  |
| If Conch Reef, | May 11, 1869. | ast |  |  |

## Solenolambrus nev. sen.

 to Lamberes, of which I hase hefore me three eperies the only ches ats yet known, all of which ate now to sefolle.

The "arapax is pentagum, and mone or less brouler than loms. The pesterine sithe of the pentarom is melth the shetest, ant the other fime


 tric and rardiar protubreames are more or les triangularly pyamidal, and
 to the pentero-latemal magin of the campax. 'The fromal rewion is sighly eonvex. and there is ne protuberame on the orthat region. 'lhe restrm is short aml bunt, on fitintly fridentate. 'The whits are rombl, with the "pper marein entire amb smonth. 'The hasal finit of the external antenna is about as long as the mest joint; it maty be wither lomere on shorter.

 dheliped, sparating the concave perverntanian from the sublepatis
region, which is also eoncave and channel like. When retracted, the extremity of the hand of the eheliped covers the ptergostonian region, forming the afferent passage. The external maxillipeds fit acourately the buceal area, and clocely against earh other within, and the exognath is concave, forming part of the wall of the ath rent chamel, which is tefined within by a slight elevated ridge on the outer side of the ischium of the endognath; the meros-joint lias a prominent antero-external angle, and its surface is consave toward the antero-interior angle, and there is no noteh for the insertion of the palpus, which, except at its origin, is eoncealed beneath the other joints of the endognath. The chelipers resemble those of Lamburs, execpt that the fingers are very small, and the dactylus is generally at right angles with the patm when retracted. The terminal joints of the ambulatory feet are actumate. The third, fourth, and fitth joints of the make ablomen are soldered together.

This sems diflers from Perthenope and Lambrus in its naked, polished carapax. in the distinct defmition of the afferent chamels, and in the want of a notels in the meros-joint of the extermal maxillipeds for the reception of the palpus. As far as known, it is peculiar to the tropical portions of the American seas, species being fomen om both the east and the west coasts of the continent.

## Solenolambrus typicus nor. sp.

 dured. Surtace purctate. Protuberanses of the gastric amb wardian regions triamemary promilal, and arote. with the ridges forming the angles crembaterl ; we of the ridges, the posterion, is in the median lime of the carapax, and the other two diverge from carh other in front. The carliae pramid is symmetrical, each of its triangular sides being equal : while the grastrie protuberance is not symmetical, the posterior ridge being a short, stere shore, and the two antorion ridges being long, and enclosing a seralual, somewhat convex shope towarl the fiome. The ridge of tho bramelial rewion is also eremmlatend, and is bent at the midtle at an obthese angle, almost a right angle. In the later earle of the protuberanees of the carapax is sumoment ly an acote spine, while in the female the apieal angles are mot thas aente. The margin of the carapax is more or les distinetly eremblated, eperially the antero-lateral margin, at the onter on posterion end of which there are theer small bat distinet terth. The antero-lateral maryin is eoncaw anterionly and consex posteriorly. The posterior marein is straight, with the lateral angles sharply defmed, and ewers spinitorm in the male. Eyes rather large, with a minute tuberele on the anterior sible of the extremity. Basal joint of the external antemne somewhat fonger than the next joint.

Epistome of morlerata length. On the suhbepatie region, near the afferent ridere, and parallel to it, there is a slight suphementary ridge. External maxillipeds naked: ischimm with the outur ridge tubereulated, and a few tubereles on the surfare near the atremity ; external angle of meros very strongly prominent. On the sterman between the bases of the chelipeds there are two small tuberetere one on either site of the merlian line. Chelipeds long, naked, with the exerption of some inconsparnons setae on the erest of the hamd : meros with denticulated margins, and with the surtice smooth and glosey above, exerpt at the imer or peoterior extremity, where there are the or four small tulderess amb the whter extremity, where there is a grambated protuberane : earpus with fise denticulated erests ; haml trigonons, with ten stron⿱世, resular, equal teeth on the superior crest. twelve small, granulaterl teeth om the onter marem, and fifteen teeth, increasing reqularly in size toward the extremity, on the lower margin; upjer surdae of the hand with two rows of tubercles and two or thee seattered enes between the rows: lawer sumface with thre rows of tubercles, those of the midfle row minute and obolesent toward the extremity; immer surface erlabroms at the midelle, and with a row of tubereles elowe to either marein, and a lew wattored ones near the fingers. All the thberches of the surfines of the ham are ornamented with grambers, fiom two to five in monter. Fingers very small and sender, one fitth as long as the palm: dactylus when retrated placed ahoset at a right angle with the palm. Ambulatory fert compreseel, naked, polished, with a laminiform arest atowe : har move of the poterion pair having a ceret below aks. which has a hore-like expan-inn at the inmer extrenits. Ablomen tuheremated on the sides; that of the male not wareowed at the thiret joint and very litthe taperiner.
 0.50 inch: proportim, $1: 1.11$ : length of merow-juint of chefiped, 0.41 : length of hand, 11.50 inch.


()ff Alligator Reef, May \& 1a69. (:ast No \& Ito

## Solenolamb us tenellus mw, sp.

This speriox is murh smaller than the preeredings and mere delieate and fragile in alpearaner. The campax is but litto shomer than lomat, and about equally prodneel in fromt :mel behind begond the line of the


 of branehial region sulliefently well marked near the pootero-lateral matein,
but ahost obsolete anterionly. Margins of carapax cremulated, the teeth being most distinet on the flatemerd, expanded, and broadly rommed iateral angh, where they are about six in number, not aremulated, aml but little projecting. being defined chefly by the impressed lines on the marginal limb. On the hepatic region there are two or three denticulated teeth. Postero-lateral margin slightly coneave. Posterior marein convex; its lateral angles obtuse. Lostrum rather prominent and faintly tridentate at the extremity: median tooth smallest and most prominent. External angle of orbit not prominent. Eye laree, with a very minute tubercle at the summit. In the external anteme the basal joint is about equal to the next in lemgeth. Sublepatie region less concave than in s. typicus, and without any supplementary ridge. External maxillipets and afferent 'hannels nemply as in s. typicus, but with the ridges less strongly tuberenlated, and with the outer angle of the meros-joint less acutel! prominent. Sternmen betwern the bases of the ehelipeds conves on either sile, but not tuberenlated. Chelipeds very loner and slemder: edges denticulated. but with the surface brtween them smooth and polished; meros with about thirteen denticles on either exqe, the third denticle from the outer extremity beine larger than the others; hand with twelve sharp, forwardcurving teeth on the superior edge, the terminal touth above the finger being spiniform and considerably longer than the others; outer edge of haml with about eleven obtuse, equal, less prominent, minutely crenulated teeth; inner edge with nineteen or twenty very minnte teeth Ambulatory feet naked aml compresed, but without laminiform crest: merosjoint of the posterior pair slightly expanded bedow near the have In the male the stemm and abolonen are smooth amb glabrous; abdomen broad at the base and narrower at the third joint.

Dimensions of a male: Length of the earapax, 0.25 ; brealth, 0.27 inch; proportion, 1:1.0s; length of meros-joint of cheliperl, 1.29 ; length of hand, 0.32 inell.


Mesorhoea nov. gen.
This genns bears an almost exact resemblance to Solenolambrus in the form and armature of the eampax, the character of the feet, and that of the pterygostomian aml hepatic chamels, exeept that the latter are deeper. It tiffers, however, in the very important point that the affe-
rent channels meet at the middle of the emdostome, which has there a triangular projection, and a deep notch in its sertical, laminitorm wall. The meros-joint of the external maxillipeds is acutely prodneed forward at its internal angle, and behind it the palpus is entirely concealed. The epistome is vory short. The eyes are small, and may be retracted into their deep sockets so as to be ahmost entirely eoncealed The basal joint of the external antemme is somuwhat shorter than the next joint.

The remarkable form of the endostome and extemal maxillipeds in this genus indieates an approach to the oxystomatons crabs, to which the Parthenopidate show, imdeed, considerable rescmblance in other respects.

## Mesorhoea sexpinosa nov. sj.

Carapax one fifth broader than long, and about equally produced in front and behind beyond the line of the lateral angles. Surface punctate and meonspieuously pubesent. Protuberances of the gastrie, cardiae, and branchial regions strongly angular, eath summonted by a three-sided spine, the spme of the branchial region being situated on the postero-lateral margin, of whirh it forms a projection. The angles or ridges are more or less crembated. The lateral elges of the gastric protuberance are continued forwarel nearly to the front, becoming parallel shortly after diverging from the spine. The cardiae spine is more slender than the others, and its posterior elge is nearly vertical. The branchial ridge is nearly straight. Between the protuberances and ridges the surface is more or less regularly concave, the sildes of the protuberances being not swollen. The rostrum is short. The margins of the earapax are sub. laminiform and almost cntire, the normal crenulation being indieated only by faint impressed lines on the limb. Microseopic in thes may, however, be detected on the antero-lateral margin, which is slightly convex toward the lateral angle. Postern-lateral margin eoneave. Posterior margin about half as long as the postero-lateral, convex at the midde, and terminating on cither side in a slight tooth. Aflerent channels deep, separated from the subbepatic chamels by a very thin and sharp, prominent, ciliated lamina, and defined on the imner side by the ciliated outer edge of the ischinm of the external maxillipeds. From the anterior angle of the buecal area a short ridge extends to the midtle of the inner tooth of the orhit, which ridge separates the eomeavity of the epistome from that of the subheratio region. Meros-joint of the extermal maxilliperds with two tuluercles on the surface, one towatels the pestero-exterior angle, the other rlose to the anteroexterion angle; anterior margin of the joint deeply eoncave or noteded. Chelipeds short, pubeseent, especially on the toother edges; surtace between the edges smooth; on the basal joint
below there is a strong, triangular, pyramidal spine, nearly as large as the dorsal spines of the carapax; margins of the meros erenulated with six or seven small teeth on either edge; carpus flattened above, with two strong, erenulated crests, the outer one of which bears a larger, spiniform tooth at the middle ; hand with an elevated, nine-toothed smeerior crest and elewen-toothed outer margin ; fingers very small; dactylus at right angles with pralns Ambulatory feet much compressed ; antepenult and penult joints with a laminiform crest above; meros-joint of the posterior pair with a slicht crest below. Aldomen glabrons.

Of this speries there is but one specimen - a female - in the collection ; in which the length of the carapax is 0.32 ; the loradth, 0.39 inelh. The length of the hand is 0.28 inch.

The specimen was taken in 11 fathoms, four miles southwest of Loggerhead Key.

## Subfamily CRYPTOPODINAE.

## Cryptopodia concava nov. sp.

Carapax subpentagonal, greatly expanded posteriorly, the posterior margin, which is nearly straight, equalling the entire width; lateral margins short; antero-lateral margins slightly convex. Rostrun triangular. The gastric region is protuberant, and from its summit a slarp, crenulated ridge or raised line passes on either side to the postcro-lateral angle, enclosing a concave, triangular space. The surface between this ridge and the antero-lateral margin is also concave. The entire upper surface of the carapax, the ridges excepted, is smooth and shining. The margins are crenulated with small teeth, the furrows separating which extend for some little distance inward, giving the indentations the appearance of being much deeper than they really are. The teeth themselves are minutely granulated. External maxilliperls smooth, glabrons; merosjoint triangular, with the external angle very acntely projecting, and the internal angle without a notch for the insertion of the palpus, the first joint of which is inchurated, with a projecting tooth at its extremity.

Cheliperls flattened as in (C. formicata, but with the meros-joint narrower, the carpus smaller, and the hand convex below; fingers slenter. curved. Ambulatory feet erested; crest of meros spinulose above and below. Transwerse crest of stermm biloberl. each lobe being threetootherl, and in the same line with a tooth on the basal joint of the cheliped, which belongs also to this crest, which forms the margin of the concave and perpendicular front of the sternum.

The dimensions of the only specimen fomel - a young female - are as follows: Length of earapax, 0.32 ; breadth, 0.43 ; proportion, 1:1.34;
length of meros-joint of clelipect, 0.22 ; length of hand, 0.26 ; breadth of hand, 0.12 inch.
The specimen was taken off Conch Recf in 34 fathoms.

## CANCROIDEA.

Family CaNCRIDAE.

## Subfamily Xanthinae.

## Actaea nodosa Stm.

Actaen nodosa Stimpson, Notes on N. American Crint., p. 75. Desbonve et Scurana, Crust. de la Guadeloupe, p. 25.
Dredged Jamary 16, 1869, west of the Tortugas, in 35 and 37 fathoms.

## Actaea setigera Sim.

Xentho setiger Il. Musee-Edwards, Hist. Nat. des Crust., I, 390.
Actura setigera Stimbon, Notes on N. American Crust., p. 51. A. MilieeEnwards, Nonv. Arch. du Museum d'list. Nat., I, 271 ; pl. xviii, fig. 2. Found on the Reef at Crmz del l'adre, Cuba.

Carpoporus nov. gen.
Carapax subhexagonal, nearly as long as broad; antero-lateral marcin armed with three small teeth (in a line which eombucts bencath the orbit anteriorly), and drawn in posterionly, the greatest breadth of the carapax being at the middle tooth; postero-lateral shorter than the posterior margin; facial region very breal; front prominent. Orhit circular, without teeth below, exerpt two or three minnte spinitorm denticles on the margin: fissures of outer and inferior margins obollete. Basal joint of the external antemar narrowing forwarls, reaching the front, and passing well into the hiatus of the orbit, nearly as in Euconthus, mowable part of the antenne very small. Chelipeds, when retracted, having a large hole between the carpus and hand ahow fin the passage of water to the afferent branchial apertures. Thirl, fourth, and fifth joints of the abdomen in the male soldered together: terminal joint as hroad as long.

This games diflers from Xantho in its external antenne; from Euxenthus on the narrowness of the carapax; frem Polycremmes in its fivejeinted male abdomen: and from Helimede and Medteves in the want of eonspicuons fissures and teeth on the margin of the orbit.

It is wery pecenliar in the perforation of the rotracted elpeliperds, recalling a similar perforation of the 'lueliperls of Echinorerus forraminatus, in which, howeser, it ocenrs between the carpus and meros.

## Carpoporus papulosus now. sp.

Carapax maked ahove, arcolated; areolete protherant, somewhat wartlike, ant grambated : gastric and fiontal regions very prominent. Lateral tecth small, spinitom ; their interstices amed with denticles, two or three in number. Front strongly projecting at the midelle and bilobed; margin of lobe concave. ledume oft the eye gramulad. and with at fow minute spines at the smmmit. Orlit with the margin mintely arematated with grantes, with a slight fiswre near the midelle of the surerior matein, and with two spiniform teeth below hear the outer side. (outer maxilliperls armed in front and along the inner eders with small hat strmoly prominent tubereles. The carpus and hath of the cheliperls are senpptured externally with granulated protnheramees, which on the had are arraged in four or tive longituclinal rows; hand serrate above with four teeth; fingers short, less than half the length of the palm. Ambulatory feet hairy bobw : pendt and anteproult joints armen above with two rows of short, stont -pilles.

Dimensions of a male: Length of carapax, 0.25; Irceadth, 0.31 inch: proportion, 1: 1.21.
S. W. of the Torturas, Jamary 18, 1869. Cast No. 1. 25 fathoms. Off Carysfort Rect, Marcha, 1869. Cast No. 1. 32 "

## Micropanope nor. gen.

The generic gronp how fion the first time deseribed is nearly allied to Petnopeus, and also shows some resemblane to Pilummus. As in the latter genus, the efeetice are amoms the smallest of Comeroid forms, and live in deep or molerately depp water. As far as I am aware they are never truly littoral like the P'anope S. Seceies of the genus occur in the wamer seas of buth sides of the Anerican continent.
'The carapax is rather narrow, with the antero-lateral margin short and the front horacl. As in I'enopens, there are five tecth on the antero-lateral maresin, but the serome tonth is coaleosed with the scarcely prominent angle of the orbit, and the posterior tooth is minute; so that only two of the tweth are prominent. armines the carapan at its antero-lateral angle. The external hiatns of the orlat is rechered t, a smple emargination. The hasal joint of the external anteme is short lat meete a prosess from the front. The embentome is memally marked on either side bey a slight
 in the eholipeck is large with rather hore finere, bent to an angle with the palm, so that the lower margin of the hand is rather deeply concave.

Carapax naked, distinetly areolated: anterior and antero-lateral areolets somewhat ronghened in front with small, sharp, tooth-like tubereles. An-tero-lateral teetr sharp and dentienlated; the poterior one nealy obsolete. Frontal lobes little frojecting, lat with a convex ontline ; margin minutely cremulated, and detined by a slipht furrow following it abowe A small tubercle on the subhepatic resion beneath the second anteru-lateral twoth. Chelipeds grambated above : empme with a sharp tooth and denticulated margin within, and with the grambes armoged in reticulating lines: hand with a donble denticulated erest, and with tiae minute grantes of the outer surface showing a tendeney to arrausement in rows; these gramules become obsolete towat the base of the thanl, or propedal finger. Ambulatory feet armed with minute spines above. whinl form two rows on the carpal joint.

Dimensions of a male: Length of carapax, $0.1:$ : brealth. ( 0.17 inch; proprtion, 1:1.30.

It was taken at the following localitios and Aepthe: -

| Marguemas, | Fcurnary 10, 1469. | (int No. - 15 | fathoms. |
| :---: | :---: | :---: | :---: |
| Off Carysfort Reef, | March 21, 1stig. | ( B (1) No. 8.3.5) | " |
| West of the 'Tortugas, | January 16, 1-69. | (:1-t No. 6.3.) | " |
| West of the Tortugas, | Jommary 16, 1569. | Cat No. 12.42 | " |
| Off French Recf, | March 21, 1569. | Cast No. 2. 45 | " |
| Off Carystort Reef, | March $21,1869$. | Cast No. 5. 60 |  |
| West of the Tortngas, | January 16, 1869. | Cast No. 13. 68 |  |

## Chlorodius dispar nos. sp.

Carapax transwersely oval. very brond, convex, shooth, poli-hed, sparsely punctate in frome aml swarely at all areobated. the only depressions at all compichoms being those at the antero-fateral corners of the gastric rexion, partly defininer the protogatric lolnes. Antero-lateral maroin almost 'antire, the postritor two of the five nommal terth only leing distinguishable. OHhits antire, aluove and behw. Front straight, slightly noteherl, bont not at all prominent at the midde ; maresin firrowed. (helipeds very meppal, the rinht one in both sperimens under observation being much harger than the other ; they are maked, smooth, and polished; fingers a little mone than half as lung ac the palm, seareely qupinge and but little exeavated at the tips. Ambulatery feet compresed, hairy above.
 greater hand with one or two white spots on the oiter side between the bases of the fingers.

Dimensions of a male: Length of carapax, 0.18 ; brealth, 0.26 inch; proportion, 1:1.44.

This -pectes approarhes somewhat $($. Iecissimus Dana, of the Sandwich Islands, but differs from that and all other known species in its smonth, oval, convex carapax and the obsoleserence of the antero-lateral teeth.

Found on the reef at Cruz del Padre, Cuba; two specimens, a male and a female.

# Family EripilimdaE. 

## subfamiay OZiNaE.

## Pilumnus aculeatus Il. MI.-Edw.

Cancer aculeatus Sir, Jour. Acal. Nat. Sei., P'hilad., I, 449.
Pilummus aculeatus Il. Minee Enwards, in Geerin, Ieonog. du Regne Anim., Crust., pl. iii, fig. 2; and Hist. Nat. des Crnst., I, 420. Gibbes, Proc. Anl. Assoc. Adr. Sci., 1850, p. 177.
A young specimen of this species was collected at the Tortugas. I find no note of the depth of water at which it was taken.

## Pilumnus caribaeus Desb. et Schr.

Pilumms caribacus Desbenne et Scheama, Crust. de la Gnadalonpe, p. 3 .
The specimens which I have referred to the above species differ from $P$. aculcatus in having the anterior spine of the three principal ones of the antero-lateral margin lifit, and in the shorter and more numerons spines of the frontal margin.

Fommen the reef at Cruz del Padre, Cuba, and at Key West in from 2 to 5 fathom:

## Pilumnus floridanus nov. sp.

This species belongs to the same group with $P$. aculeatus, and hears a close resemblance to it. It dillies in its narrower carapax, which is covered with a dense, short pubecence, with a few longer hairs, a transwerse series of which, across the firontal region. forms a somewhat conspicuons feature. Below the ciliated line, the frontal region is naked, and its margin is unarmed; its lobes are not strongly and evenly projectins as in aculeutus, but are most prominent within, near the median sims. The orbits are unarmel above but have eight or ten spiniform teeth on the margin below. which teeth are far shorter than in aculeatus. The sulbepatic tonth or tulorele is small and inconspienoms, and the surface of the subhepatic region is not pereeptibly granulated. There are no spines on the hepatie reqion above. In the chelipeds the entire onter surface of the greater hand is tubereulated. The ambulatory feet are armed with spines as in arventus.

Dimensions of a female specimen : Length of carapax, 0.22 ; breadth, 0.30 inch ; propertion, $1: 1.36$.

Found at the Tortngas.

## Pilumnus lacteus nov. ap.

Closely allied to $l$ 'gemmetus. Stu. (Notes on Nortlı American Crustaeea, p. 86). and like that speces cowerel $n$ ith a whiti-h or eream-colored, velvet-like pubsecence. It ditlers in the more spiniform shape of the antero-lateral teeth of the carapax, in the less mmerons tubereles on the - arapax and chelipeds, in the want of tubereles on the superion marein of the onbit, and in the smooth, glathons onter surface of the hambe, which is light red in color. The lubes of the front also are more triangular and pointed.

Dimensions of a male: Length of earapax, 0.31: hreadth, 0.44 inch; proportion. 1:1.42.

Found on the reef at Cruz del l'adre, Cula, and at Key West in frem 2 to 5 fathoms.

## Pilumnus Agassizii nov. sp.

Carapax convex, ant with the anterior two thirels deeply areolated; areolets protuberant. Sinface pubescent worywhere exeept one the anterior and antero-lateral areokts, wheh are naked and thickly gramulated. The depressions between the potuberant areolets are broad, ocerpyiner filly as muth stace as the areolets themedres. Two of the areolets form the lobes of the front, which are as large and prominent as the epigastric lobes, or ewen larger. The fromtal surtace is wertical, and not much projerting, but the lobes are derply separated fiom each othere and from the orbits. Orbital region protuberant and granulaterl: marsin not toothed, but crenulated with granules, and maked hy two fis-omes abowe and two less ronspictons ones below. The antero-lateral margin behind the orbit is armed with thee triagelar, acente, equal treth of monderate size. Sobbepatie tooth distinct. Chelipeds stout, frort. and thick; farps covered above with gramulated tubreles which are contluent exterionly, forming transwere ridges : hamb covered above and on the outer side with small but prominent mammillary tubereles, havitu their apies pointing forwarls. Ambulatory feret pmberent and hairy ; penult and anteprenult joints armerl with minute spines athere.

Dimensions of a mald: Leneth of carapax, 0.fis; hrealth, 0.83 incll; proportion, 1:1.2s.

This speefies has some hatle resemblanee to $P$. grmatus, hat the protuberances of the carapax are densely sqamulated instead of sparsely tuberculated.

It was taken in from is to fatlions between Last and Middle Keys, Tortugas, and East of the Tortugas in 13 fithoms.

## Pilumnus nudifrons nov. sp.

Boty and feet everywhere pubesent above, except on the frontal and orbital regions. Campax abont seven dighths ats long as hroat, much narrowed posteriorly. convex; regions shigty defined and not protuberant : surface beneath the pubescence pumetate and aparedy roushomed with sattered tubereles variable in size, amd most numerens on the gastrice and hepatie regions. Frontal and orbital regions continuons, withont any teeth or spines, forming a prominent, wide, naked, minntely sramuated anterion border to the carapas, mate mone diotinet by a chamel-like depression which eqparates it from the rest of the surtace. On this berder there are no simses at the junction of the front and orthits, and the median emarmation of the straight on slightly convers trontal ontline i. very shight. At the outer agle of the orbit the borler is continued for a short distance poterionly on the anterolatemal margin. Beyomd thin the antero-lateral marqin is nearly parallel to the axis of the borly, and armed with three suall triangular teeth. Orbital margin below entire, aml smooth, withont fis-mers or teeth, with the exception of the usial large tooth form ng the imer angle. The subhepatie tooth is distinct. fomming part of an irresulary denticulated or ermatated ridere, which extend trom the perterior extremity of the anterior horder of the carapax to the anterion angle of the buecal area. The basal joint of the extermal antemme is small, and the - pace between it and the firontal projection is ahost equal twits own length. Chelipels very Nort and stont, armed above and on the onter side with roushened tubereles like those of the earapax. On the superior marnin of the hand there are three -trongly projeeting teeth.

Dimernions of a female specimen: Lerpeth of the carapax, 0.41; breath, 0.19 inth: propertion, $1: 1.1: 15$.

Only two sperimens of this serebe were takem. both females. They oceurred at the depthe of 111 and 120 fathme, ofl sombero Key.

## Pilumnus granulimanus now if.

This is a small speries in which the carapas is rather shont and hroat, nakel, areolated and orambated in front, and smooth puoteriorly. The grambation is experially comepicmons on the hepati rewions. Anterolateral margin minuthly dentiendated, and armed with fime small. equal. acoute triangular teeth, beribes the angle of the ornit. At the penult tooth a short eramulated ridge extembs inwarls on the surface of the
carapax. The antero-lateral margin in these characters resembles that of Xantho and Panopeus sather than that of the ordinary Pilumni. The subhepatic region is gramatated, and bears a minnte tooth beneath the interval between the angle of the orbit and the next marginal tooth. Orbit with a distinct notch beneath the outer angle ; margins otherwise entire, above and below. Front somewhat deflexed, very little projecting ; margin marmed and profomolly notelied at the middle. The basal joint of the external antemie falls considerably short of reaching the front. There is no rilge on the endostome. Feet setose; greater cheliperl less setose than the rest; carpus and hand covered externally and above with small, suberpual gramules, regularly crowded, and climinishing in size below; carpus with two minute, sharp teeth at the inner angle. Ambulatory feet with a few minute, short spines along the superior edge. Color yellowish, marbled with red.

Dimensions of a male: Length of carapax, 0.18 inch; breadth, 0.25 inch; proportion, 1:1.38.

A male and a female of this species were found on the reef at Cruz del Padre, Cuba.

Melybia nov. gen.
Carapax broad, subquadrate; front rather hepressed, very broad; antero-lateral margin short, only one third as lone as the postero-lateral, and armed with three or fom teeth. Basal joint of the external antenne occupying the hiatus of the orbit, firmly soldered, and reaching a process of the front. External maxillipeds very narrow, widely gaping ; exognath half the witth of the endognath. Feet all spinulose; chelipeds rather large, even in the female ; ambulatory feet long, slember, and compresset.

This genus is closely allied to Melia, bat differs therefrom in its broader earapas, three-toothed antero-lateral marein, firmly soldered basal-joint of the external antemne, broader exognath of the external maxillipeds, and spinulose feet. It has somewhat the appearance of a Thatamita.

## Melybia thalamita nov. sp.

Carapax somewhat convex, slightly pubesent; surface nearly smooth and even; regions faintly defined. Antero-lateral margin three-toothed (the little-prominent angle of the orlit not inchuded) ; teeth spiniform, pointing forward, the anterior one longest, the posterior one minute. Front lifobed; margin of the lubes nearly straight. Orhit with two fiswres above, and one bolow near the onter side: margins smooth or minntely cremulated. sublepatie region mimately gramulated. In the rhelipeds the meros-joint is spinulose along the "pereredge, and armed wilh two slender spines on the imer edge; (arphs with four or five spines
on the upper side, the spine at its summit being the longest one on the chelipeds; hand oblong, with two longitudinal rows of spines on the upper edge; fingers two thirds as long as the palm. Ambulatory feet sparsely hairy; meros armed with spines along the upper edge, and with one spine below near the extremity ; dactyli nearly as long as the penult joint.

Dimensions of a female speeimen : Length of carapax, 0.25 : breadth, 0.36 inch ; proportion, 1:1.44.

In a variety (?) of the speeies, dredged, as stated below, in 42 fathoms, the earapax and feet are naked.

Off French Reef, April 3, 1869. Cast No. 1. 15 fathoms.
West of the Tortugas, January 16, 1869. Cast No. 7. 35 "
West of the Tortugas, January 16, 1869. Cast No. 8. 37 "
West of the Tortugas, January 16, 1869. Cast No. 12. 42 "

## Subfamily ERiphilnae.

## Eriphia gonagra H. M.-Edw.

Concer gonagra Fabr., Ent. Syst., II, p. 460. Suppl. Ent. Syst., p. 337.
Eriphia gonagra H. Milne-Edwards, Hist. Nat. des Crust., I, 426, pl. xvi, figs. 16 and 17. Gibbes, Proc. Am. Assoc. Adv. Se1., 1850, p. 177. Dana, U. S. Expl. Exped., Crust., I, 250. Stimpson, Notes on North American Crust., p. 89. Suith, Trans. Conn. Acad. Arts and Sciences, II, 7.
Dredged at Key West, in from two to five fathoms.

## Domecia hispida Soul.

Domecia hispida Souleyet, Voyage au Pole Sud., pl. vi, figs. 3, 7. Stimpson, Notes on N. American Crust., p. 90.
Of this species I find three lots of speeimens, labelled as follows:-
Florida Reefs, in shallow water.
Reef at Eastern Dry Rocks, littoral.
Reef at Cruz del Padre, Cuba.

## Family PORTUNIDAE.

## Subfamly PORTUNINAE.

Bathynectes nov. gen.
Very near Portunus,* but differing in its antero-lateral teeth, which are not like those of a saw, but are somewhat spiniform, and separated by

[^1]considerable intervals. The front, also, has no median tooth, and the hiatus of the orbit is widely operis, not being filled by the basal-joint of the extermal antenner, which is narow, and firmly soldered anteriorly to the process of the front. The meros-joint of the external maxillipets is as broal as longe and does not projeet anterionly, but fits aceurately to the anterior edge of the buecal area. The ambulatore feet are wery slender; those of the first pair much shortor than those of the secomd; second and third pairs rery tong, the third lengest; fourth pair two thirds as long as third.

## Bathynectes longispina nov. sp.

The following deseription is that of a male: Bory naked ; feet also naket, exepp the pesteror ones, wheh are coliatent, as nemal. Carapax subhexaqual, with a gramulated and uneren smface. A well-defined ridere eroses the midule, comeering the lateral spines: while a shorter ridge croses the cardian, and another, inturupted at the miduld, the gastrie region. Antero-lateral margin armed with five sharp, spiniform teeth, including the angle of the orbit: the gooterion tooth or spine being three times as bong as the others, and more than one third as long as the width of the earapas, excluther the spines; first (anterior) two teeth broador and los abinitom than the othors; third and fourth teeth very acute and a liftle lenger than the distane between their bases. Front pominent, fometooherl ; the midelle two teeth lueing smalles than, and progectins: a little beyond, the two lateral ones. Orl it with two opres fissures alowe aud we below: berides which, lefow, there is a sims berobath the outer angle, and a browler one, with a thentionated margin, next the inner tonth. From the hase of this immer tonth of the orthit a small preperting lober (rosese the bottom of the hiatus of the orthit and reaches the lasal joint of the anteman. 'This joint is ohbors in form. and hears a crest or carimatomg the outer site tembinating anteriorly in a slight tonth. Fhareflum of the oufer antemat more tham half as lome as the carbpax. (hedipeds one haff hager tham the canapan; meros with a honer pine on the immere edere, aml a shot one on the strperior edge, beth distant from the anterior extrmity of the joint alont ome thind it bengh : rapps with a very long spine at the inmer angle. which spine is itself armed with $t$ wo or three small tecth on the anterion edge, ant with there
sllipects, the mero-joint of which is elongated. propecting considerahly the yond the hucesh matron: and the hasal font of the axternal antemase is slighty movahe: the carapax is makelt there is no elevated line on the sumtere of the tomanal and penult foint of the poterion pair of ambulatory fere aml the first fomt of the abdomen is almont entirely comealed bencall the carapax. for $I^{\prime}$. holsatus and its allies the name Locurcinus is propused.
other spines, and several spinuliform tubercles on the supero-exterior surfice. Hand costate, there being three ridges on the outer, two on the upper, and one on the inner side; of the superior ritleses the onter one is armed with five spines, and the imer one is dentienlated, with a long spine at the summit anteriorly: fingers nearly as long as the palm, and strongly toothed within, the teeth being fome or five in number on cach Ambulatory feet of the third pair two ant a halt times as long as the carapax. Colors: Buty greenish; ambulatory feet white.

Dimensions: Length of carapax, 0.5 s; breadth, inchuting the lateral spines, 1.10; excludiug the spines, o.68 inch: proportion of length to latter breadth, $1: 1.17$; leneth of third pair of ambulatory fied, 1.45 inch.

Off Sand Key, May 15, 1868. Cavt No. -. 100 fathoms.
Off hey West, April 21, 1069. Cast No. 5. 120 "
Off American shoal, May 8, 1868. Cast No. 3. 150 "

## Bathynectes brevispina nov. sp.

This species greatly resembles the typical form in eolor and most other characters, but diflers in the following important particulars: The earapax is more consex, and the transerse ridges are less prominent The anterobateral teeth are much smaller and shorter, the secomel, third, and fouth teeth being only half as long as the disiance between their bases and the pusterior tooth (lateral spine) equalling in length only one sorenth the with of the camapas, excluding the spines.

The elimensions of the only sperdmen in the collection - a female are: Length of earapox, 1.96 ; breath, inclating the lateral spines, 2.95 ; excheling the spines, 2.40 ; proportion of length to latter brealth, $1: 1.22$.

The specimen was taken in 107 fathoms, off the Manquesas, F (bruary 11. 1869.

It was at first regarded as a large female of $B$. longispinct, but the differences between the two forms are so much greater than is usual between the sexes in Portmide, that I have prefered to eonsider them distinet, until the question ean be derided by the aequisition of additional materials.

## Subfamity LUPINAE.

## Neptunus Sayi $\mathrm{S}_{\text {tı. }}$

[^2]
## Callinectes ornatus Ombway.

Callinectes ornatus Ordwar, Moneraph of the gemus Callinectes (1861), p. 6.
Fomm at Key West in from 2 to ${ }^{2}$ fathoms.
The C'allinectes ornatus of smith (Trans. Comn. Acad. of Arts and Sei. II, 8) is probably not the same as that of Ortwas, as the Brazilian specimens are described as hasing the carapax flecply areolated, which is not the case in specimens from the Florida coast.

## Acheloüs Ordwayi Sry.

Acheloüs Ordurayi Stimpons, Notes on N. American Crustacea (1860), p. 96. smiti, Trans. Conn. Acad. of Arts and Sciences, II, 9.
Neptunus Orduqui A. Milne-Edwards, Arch. du Muséun d'Hist. Nat., X, Add.
The carapax is everywhere granulated above, exeept on certain spaces about the midille. The depresserl pubescent areas on the male alofomen are characteristic.

For the difirences lotween this species and A.spinimames and 1 . crumtutus, see the excellent de-cription of smith. refermed to in the synonymy.

Dredged in from 5 to 7 fathoms between least and Middle Keys, Tortugits.

## Acheloüs spinicarpus nov. -p.

Carapax convex, and remberd uneven by grandated rifges and protubermeses similar to those seen in all epecies of Acheloiis, lnt which are gemerally mich less prominent than in the species under consideration. The loranchial ridge (that extending inware from the lateral spine) is sinums and stroncly comsex forward. 'The lateral spine is loner, equalling in length two thinds that of the entire antero-fateral margin. The eight smaller teeth of the antero-lateral margin vary somewhat in size, the seconsl, fourth, and sixtl, counting from the fromt, being smaller than the others. Front moderately prominent, pegeeting slightly beyond the level of the onter angles of the orhit; teeth sharp, triangular, rather deeply cut, and abont eqfall in size, but the median ones are mere prominent than the outer ones. The postero-lateral amples of the earapas are armed with a slight tonth. Lu the rheliperls, the mero-jont is armed
 other) :nd with ohe spine at the outere extremity. The immer spine of the carpus is wery long, two thirds as long as the pah of due hame. The butere eline of the ratpos is short. There is only one epine on the superine materin of the land. There is no spine on the meros-joint of the pesterior pair of amblatory feet, but the mareins of das joint are denticulated both above and below, most strongly so toward the extremities.

The abtomen of the male is naked, smootle, and polishem, and the ster num is s.amulated.

Dimensions of an alnlt male: Lengetle of carapax, 1.37 : breath, inrluding spines, $0 . ⿱ 1$; exdmling spiner, 0.5u inch: propertion of length to later breathe, $1: 1.35$. In at young male the lengeth of the earapas is


This species is easily recornized amone most of its congeners by its long carpal spines. From A. Ordmetyi and A. thmedules it is distingnishe by the great length of the lateral spines.

| Off the Torturas, | Jambary 4, 1868. | Cant No 1. 13 | f: |
| :---: | :---: | :---: | :---: |
| Oft 'arrsfort liceff | Mareh 21, 1869. | Cast No. 7.40 |  |
| Off Comeh Rect, | May 11, 1869 | (inst No. 3. 4! | \% |
| (til Alligator Reef, | May s, ls69. | Cast No. 3. 53 | . |
| (off Pacitic Retf, | May 13, 1869. | ('isst No. 3. 60 | " |
| att $31^{\circ} 31^{\prime}$, tomer. $79^{\circ}$ | May 25, 1868. | Cast No. 1. 74 | ، |
| Off American shoal, | May s, 1568. | Cast No. 3. 150 |  |

## Achelouis tumidulus nov. sp.

Carapax rather narrow, only one fometh broder than long, rather more convex than is manal in the gemes, and somewhat protaleciant atout the midfle and posterionly. Posterior tonth of the antero-lateral marwin (lateral spine) of moderate kength, abont as long as the space ocemplent by the three teeth mext in fromt of it. Front prominent, prejectine :mmeh beyond the bevel of the outer :mghes of the oflits, consex : tee themombed, the two middle ones being smaller and most prominemt, amd erparated from the lateral ones by a rather hroul, Aallow sinns. No noteln on the orbital margin above ihe insertion of the extemal antemat. Now-joint of the onter maxillipeds lomerer than bome. (Chelipeds rather shont: meros amed with three large and one small spine on the frent colge; spine of the outer extremity of the posterior chlee of the meros almost obolete. Imer spine of the carpos lome reachine to the mithe of the palm of the hand. There is only ome spine om the superion margin of the hame. () 1 the meves-quint of the porterion pie of ambulatery fert there is a dentientated exters-interior margin, hut mo spine. The ablemen of the mate is smonth and poli-herk.

 to latter loradth, 1 : 1.2. a .

This dithers from mest other American anedes hopetofore dexeribent in the namowness of the carapax and the prominene of the fremt. From I. Ordmene it dilliors in the fiontal teeth, which are not hemply ent.

## Achelouis spinimanus lle Inan.




Acheloüs spimimumus DE M.s, Fiuma Japmic:a, Crust., p. 8. A. MlexeEmward 'Trans. Conn. Acad, of Arts and Sciences, H, 9.
Taken in shallow watere on the Flomitat (")atst.

## Acheloüs depressifions irm.

Amphitrite demessifions stumasos, Nutes on N. American Crustacea (1859), P. 12.

Achloüs rleprossifroms Stambos, Notes on N. American (arustacea (1860), 1. 95.

Key West, in from two to five fathoms.
Two miles south of Rebecea shoul, in ten fathoms.

## OCYPODOIDEA.

## Famil CarcinoplacidaE.

In this family the base of the alobomen rowers the entire width of the posterion extremity of the stermm.

## 

The erems Euryplof is the type of a rroup whiche differs fiom the usual forms of Careinoplacilae (as Psentorlombilu, Eucrote, Pihumnoplax, amd
 in having the anterion romers of the posterion serment of the stermmen exposed insteat of beine tevered by the alulomen. 'Ithe first joint of the ahbomen is natrow and bery little deselopert. 'l"he wes are loner and the antemar are exelurled from the orthit by the internal sulurbital lobe.

## Euryplax nitida stm.

 ('onn. Acad. of Arts and teiences, II. 162.



 the perterion tootla whe whele is the smallent just the opposite of what owers in the male. 'There is mopit on the meros joint of the eherliperls. 'This pit would, therefore, appear to be a sextal elatrater, belonging to the male.

In a young female perimen, pobably of this sumes, which was dreded in fint y-nine fithems, and is las than two tomthe of : and in lemeth, the posterion tooth of the antero-lateral margin is oboulete. Tha sams hing necurs in a yomer male of about the ame size fiem St. Thomats. lut this
 but the shape of the earalax is like that of the female, and the internal sub)orbital lobe is sumbles bleselogred than in the whats.

Key Wrest, e to j tathoms.


## 

In this gromp the weral canals are cheed, and the last jeint of the



 than the secomd, but fallsemomiderably short of the marsims of the stomen. The thirl, fourth, amb fitth joints are soldered together: Bixept in the pasage of the verger throwh the stomm, the typical gemats of this group (Eucrutopsis) dillers little from P'anopus.

Panoplax nov. gen.

 -hort, with thee teedh (het ineluding the angle of the orthit, which is mot
 texth, which, being placel within as well as bedinel the promineme fourth tooth. belome more propery th the pooterolateral margin. Facial rewion




 hamls, etc.

## Panoplax depressa nor. sp.

Carapax faintly arolatm, anl smonth and makel abowe. 'Thind aml


 smonth. Theme is a slight, staight, achte tramsurse riblew erosing the frontal region fust above the margin. (helipeds rather larese: carphs
with a small spine at the inmer angle ；lanel comperesed，smonth．Ambu－ latory feet pubesent，the daceli in partienar being covered with short haits on all sules．

Dimencoms of a male：Lemeth of carapax，0．28：qreatest beath，at tips of the fimeth antero－lateral terth， 0.1 inch ；propertion，1：1．54；kength wh ：ambulatory feet of the secomt pair， 9.60 inth．

Dredged between East and Midhe Kiys，Tortugas，in from 5 to 7 fathoms．

## LEUCOSOIDEA．

## Family CALAPPIDAE。



Cyclois Balguerii srm．
 fig．20．

Tha eperimens agree in all rexperts with the dereription and figure



Kiy W゙いt，2 to 5 fithoms．
Betwern Eant and himble Revs，Tortugen， 5 to 7 fathoms．

Of the＇Torthats，
（Hf lamitic Reet，
om＇tarrant laef，
 （Hell Pench licet，

Marth t，tefis．Colat Nor．－1：3＂
May 1：3，IN69．（＇ant No．1． 30 ＂
Marth 21，1869．（Gat No．s．35＂
Narch 21，1869．Cast No．i．to＂
March 21，1M9．（ant No．2．45＂

## Acanthocarpus now．gen．

boxly requlaty orafe strongly convex in its ：nteropoterion dorsal out－




 trmater in tront，whtum propertine at the immernere which，like the







This genus dillers from C'elopht in the want of lateral exp:usions of the carapax, and trom Jewsen in the want of lateral spines. From all the genera of the family hitherto deembed it diflers in its great facial width.

## Acanthocarpus Alexandri nor. - N

Carapax regularly consex, with uneven surfaer, the protuberames being armared obsemedy in five lomgitndinal rows anterionty, the midde ones of which form erntrally and posterionly thee rompicums rideres, the lateral rideres terminating in the tereth of the posterolateral margin. The surfice is mitormly, but not thickly, covered with minutes aptal gramber, the interepaces betaeron which are wider than the grambes themselves. The posterim margin is rembaty aremate, and hears a sight ly prominent tooth at the midhle, and a slight wave in the outline on either side. The lateral margin is marmed, exeept ley two or there slight tuberenlifiom tee th near the onbit. The orlits are large, without liswers, except the imer sumerior one, which is itedf nearly oheolete ; orthital matrgin ciliated. 'The front is of moderate width, a little convex, but not tootherl, and is separated frem the orlit by its lateral angle simply, and not by any noteh. The spine ons the earpus of the chedijed is mealy hatl as long as the earapax : and above it, on the sme foint, there is anther -fine, stonter, but only one fiourth ats bor ats the fiest. Buth these pinines are eramblaterl. The hamd is prowided with a mexdetorthed erest abowe and another, whligne, six-tonthed arest on the onter surfiece, extemeling tron the base of the dadylus to the pestero-interior angle. Ont the latter erest
 from the othere teeth by a eonsiderable interval. Betwem the upper and hower erests ot the hand there are form or tive tubereses sattered upen the surface. Ambulatory feet maked, marmed, with smonth polished surlace.

Dimemsions of a male: Lemeth of earapas, 1.31 inth ; bremph the same.
Off the Quicksands, Jinnary 23,1869 . Cast No. 2. it fathoms.

## Calappa marmorata Fars.

Cencer marmoratus Fammens, Ent.sy-t., II, 4.50 (1793).
 fie. 2.

 Gilatdoupe 1. 51.
Fomul at hay Hert, in from 2105 fathoms.

## Calappa galloidos אור




## Famis MatctidaE.

The Natutidar may conseniontly be diviled into two sulfimilies, Matutinae and It patinae. The latter gromp differs fiom the former in having a broater carapix, a narrow tacial region, and shent onbits and eyes.

## SUBEAMA.9 IIEPATINAE.

Osachila nov. gen.
This groms is allied to Hepetus in all esomential fhataters, but differs "onsiterably in the shape ot the carapax, which is nearly as long as bromb,



 America. The name is that ot a Flomilat (indige.

## Osachila tuberosa nor. sp.


 tate of the depmesed parts. There of the peotale erames ate on the


















 the : athonem. Bemeath. the entire -



Chelipeds rather stont; outer surface strongly rugese with panctate tubereles and pits; hand with fom teeth on the superior crest. Ambalatory feet (except dactrli) maked, compresed, and crested abowe and below ; crest of meros-juint with a row of pits along the posterior side, siving it a plicated appearance; last there joints with another crest on the pres-tero-superior surface: dactyli stont, densely pubesedt below.

Dinemsions of a male: Length of carapax, 0.56 ; breatth, 0.59 inch; proporti,n, $1: 1.0 .54$.


Fhmif LEUCOSIDAE.
Stramamy ILIMNAE
No attempt has yet, I believe, been matle to separate the Lencosidac into subfamilies. The existence of the group which I hatse luwe named Ilime seems to be sutliciently well indicated by tamible chatarters, such as the long, slember ehelipeds, and the two-notehed extremity of the perygostomian chamel.

Iliacantha nov. gen.
Closely allied to Ilie, but haviner there spines (one mertian) at the posterior extremity of the carapas, instead of fone tuberenlitiom terth. From Persephona, Myra, and other allied genera of Leucosidae, it diflers in the pernliar conformation of the hames, which are twisted, so that the fingers opern in a vertical insteal of a horizontal plame.

The pteryentomian (lamels at their anterior extremitios project eronsiterably beyom the orbits. The abomen in a yones male, the omly -berimen of that ser I have seem, is seven-jointerl, nome of the joints beincrembered towe ther.

The efree ies of Iliot, the nearest ally of this new erems, are confined to the Mediterranean seat

Iliacantha subglobosa nov. sp.
Carapax subgholose, smooth! anl evenly convex, and marmed, except at the posterior extremity, where there are there pines, similar in positions to those of the species of Migra and I'erseptionte, the midelle one being loner (equalling in length one serenth that of the carapax) and curved upward, and the bateral ones flattenerl, trangular. The bepatier rerion is considerably swollem. lat entirely unamed, and is bomded posteriorly by a depres-
sion indieating the outer extremity of the antieal sulens, which is antirely oheolete in its median portion. The marein of the carapax is distine : mat somewhat abote on the hepatie rewion, and on the anterior fare of the bramblial, as far as a slight agghar projertion, pexterior to which it ceases to be detimed. Surtace of the camak minutely granulaterd. (helipends in the femate two and at hatf time ats har ats the carapax, exeluding the pines, and minutely granlated; muros more shaply grambated than carpus and hame; fingers very shender, math longer than the palm, ant ammed within with medle-like terth. Ambulatory fert very shother and smenth, these of the first par reathing to the midhle of the patur of the whelipeds: meros-joint as long as the terminal there joints taken tome ther.
'The alowe deereption is that of at femate. In the male the catapax is less smoothly rombled above the regions indige timety indic:ated, and the







## Iliacantha sparsa now


 Caphate spines ; surface betweon the grames funtate, or, as near the

 Shape to amb more than ome half as later as the mither atime. A spine on



 ame more coarsely erambated than in the preveding species: gramules prominemt, like those of the back of the arapax.

Dinemaions of a sterila femald: Lencth of carapas, pustorion spine induldel, 1.30 ; beathla, a.e.5 inch.



## Myropsis now. grn.

'This armes diflers fom Jyra, to whinh it is mondy allied, in its mome Ghobalar form, in havine five in-tand of there for-thor sumes, in the wat of the median and hepatie rideses, and in having the onter margin of the
exomath of the outer maxilliperle straight instead of curvert. Firom lien and llietcothe it diflers in its chelipeds, the fingers of which upen in a borizontal phane. From I'orephemen it ditfers, amoneg other characters in the hasal joint of the antomula, which is inhurated and erested. 'The anterion extremity of the ptoryontomian chamel atese not reach beyond the orthits. All the foints of the male alndomen are soldered torethere, ex"ppt the terminal othe

The sperice of Mym, the momed ally of the now gemme, are all, ats far as known, imbahitante of the East Indian and Autadian seats.

## Myropsis quinquespinosa now. sp.

Botly and chelipecl: werywhe grambated, abowe and below. Carapax
 testinal amb cardiae regions only defined, and defined by rather depp

 regularity, being divant from "ath other by as spece crpal in width to two
 archerl. Of the five petrerion spines the median one is situated on the intestinal resion ; the intermerliate (whes are lut little smallere tham the


 melian spine. Theme i: alos at smatl phene at the midule of the lateral margin, ant one om the hepatio mexion. The frontal teeth are ohture, and


 arowled: fingers lomger than the palm, and aned within with wery

 the tiret pain owe sixth lomer that the catapas.





## Callidactylus inn sam.





longitudinal, with three very distine fissures on the onter side, whieh extend to the base of the onbital tube. I'teryeotemian shamed much narrower than in Mype, stronsly tridentate in front, and extending beyond the orthit. Extemal maxillipeds shaply gramuated; exognath with a convex onter margin, but much less dilated than in Mgra; moros-joint of endegnath with atomeave outer stutace. (helipeds of moterate length; hand muth longer than the meros: patm short, periform, mude swollen withon toward the base, aml somewhat twisted, thongh less so than in Ilie, so that the fingers move in an oblique plane; fingers much longer than the palm, wery thin and delicate, laminate, furving upwad and inwarl toward the tijs, sorrated on the onter edere, and armed within with numerous
 posteriop pair, which are parsely pilose) ; penult joint compresed, with a laminifinm erest above and lelow ; dactyli lane ohate, thowe of the first there pais there-tered, those of the posterior pair two-edged and shorter and bromber than the of hers.

In the female there is a deap, smootly damed on the onter maxilliperls, in the median line, hetween and on the iseditm joints, defined on rither
 and has doubtless something to do with the flow of the water which bathes the ("gess or voung in the abotominal eavity.

In the male, all the joints of the alotomen, exerpt the terminal ome, are soldered lusether.

The geme rescmbles. Ityrontes somewhat in the character of the fingers, Int differs from it as well as from Myre and the allied fremera in the want of an indurated (erest on the batal joint of the antromuta, and in the dar-
 fers in the comsex outer mangin of the exognath of the outer maxillipeds.

## Callidactylus asper nor. sp.

The fralowing is a doweription of an adult female. Carapax con-
 anterior matrins. 'The sulci separatig the ematric, vadiac, and intestihal from the hamehat regions are easily tracoable, as well as hat between the earlian and the gatrie: lat there is nome lnetwen the cardiace and the intestinal regioms. 'Tlue hepatie reqion is surgounded by rather profonmolderesions and on its perterior part hare is a strong tooth-like protuburaner, oxempying about one thite its area. 'The wher surface of the camatis is ornamented with seatered, prominent granules, or short, capi-

 smaller amb more com leal and depmeand grambes. On the lateral parts
of the branehial region the two kints of eramules are fomb turether. In the median line there are there or fime short blunt spines on the posterior part of the gatrie and the cardiace regions, the posterion one of whel is bather remote fiom the others, and much lager than they, mealy as large as the median posterion spine. There is a strom, triansular tooth, pointing forwast, on the sublopatic region, and a smaller tooth at the anterion extremity of the branchial region on the antero-hatera! margin. On the potero-lateral marein there is also a small tooth, or short spine. The there posterior simes orrupy the usual prition (as in I'ersephome, Myru, ete.) and are short. The outer maxilipetls are gramulated, hike the upper surtere of the carapax, and somewhat setose, the sete arising betwern the granules. The fourth, fifth, and sisth jointe of the alotomen are soldered towether: the surface is smonth and glossy about the mithle, but there is a tram-veres tubereulated ridge on the fourth joint, and the sisth joint is sparsely grambated.

Of the male sex thate but one halfegown example. The earapax is rather hoader and more depresed than in the femake, and the gramules are smatler, les numerons, and more seattered. The posterior spines are longer. The sternm and ablemen are evenly covered with minute, deprossed, erowded gramles.

Dimensions of a femate specimen: Length of rarapax, spine inchuter, 0.70: bealth, 1.61 : kongh of mero-joint of eheliped, 0.42 ; hength of hand, 0.65 inch. In the yomg male the length of the carapax is 0.35 ; breatth, 0.65 inelh.

Lat. $24^{\circ}$ N. Long., $83^{\circ} \mathrm{W}$., January $22,1868$. Cast No. 9.16 fathoms.
Off Carrsfort Keef, Murch 21, 1869. Cant No. 8. 3. "
West of Tornugas, Jannary 16, 1869. Cast No 8. 37 "

## Sidbamily EB.dLIINAE.

Ther genera Elulit, Niursir, Lithulitr. Oroophorus, Splupophorus, etro, appear to form a matural group, to which the mame Ebahinate may be applied.

## Lithadia cadaverosa nov. w.

The following deseription is that of a fimate, no mates having ocemerd: Carapax lowad, somewhat oetagonal in shape, very hitte prothed pesteriorly, and very strongly empex; the lnanchial regions being more swollen than in any of the other known species of the genus and oeropying by fay the ereater portion of the carapax These regions and the other protulerant parte of the carapas are mome or less cotered with depressed, often conthent grannes, aranced in lines or eromps with thepresed spaces intervening, giving to the surface an eroded or remicolated appearances.

The exarations between the regions are very deep, but those suromoding the carliak rewim are brater and hes ahmpt than in other speries
 the band hial are very harow. la one of the 1 wo foerimens there are several small, rome foblated buberese in the depresion between the rardian and gatrie requns; white in the ofher this space, as well as the entire gastrie and fart of the bamehial reqion, is evenly covered with flat, transluecnt gramke giving the entace a finely retionlated appearance. The hepatie region is narww, whth a grambated rilge extembinge inward a shote distane from the antero-lateral margin, whith is here defined hy a similar ridge. Boblind the hepatic rexion, and separated from it by thep transwerse sinus below, there are on the margin two strong, triangular tecth fointing fownard on the anter-lateral part of the branchal region. 'She posterim of these two teeth compergmuls to the anturior lateral tonth of othere - peries of the semes, lat the tenth in frome of it is the larger: the surtare of lobh is tlatemed. The pesterion lateral tonth of the bane hial region is blunt. The intostinal reqion is broal, ant the two marginal lohes are thekened. but very little projerting, and mot at all dentiform. () the inferior smfare of the handial region there are one or two rows of small tuberedes. The front is thick, the epistome amb sumphat rewion
 su that the atherior fertion of the forial rewion is large amd lies in a verti(ad phan. The fontal manem is aghtly roneave, but not notelned. The

 athon with thom, thick phines as in $L$. Comimpii: daceyli and penult

 the atukmen and ahont the hase of the teet, partientar! of the eheliperts.
 0.30 incll

This arah is well photedod by its ermal apparanee, and with its feet
 rarioser in its broader and more eomers catapas, and in the much less prominnt lalse of the intertinal regime.

1)ecember lst, 18 ö 0 .


[^0]:    Meriet sculpta Lamanck, Anim. sans Vert., V, 242.
     l'roe. Am. Assoc. Adr. Sci., $1 \times 50$, p. 172. Desbonse et Schrama, Crust. de la Guadeloupe, p. 9.
    Mithoculus scuptus Stimpsos, Notes on N. Ameriean Crust., p. 58.

[^1]:    * By Portunus the typical forms are meant, $P$. puber, corrugatus, etc. $P$. holsatus (marmoreus) should be separated generically; it is quite distinct in its external maxvol. 11 .

[^2]:    Lupa pelagica Sir, Jour. Aeard. Nat. Nei. Philah., I, 97 (1817).
     Expl. Exped., Crust., I, 273 , ph. xvi, tig. 8 .
    Neptums Sayi sitmosex, Notes on N. American Crustacea (1860), p. 92. A Mhave-Edemrds, Arch. du Mas, X, 317, pl. xxix, fig. 2.
    Found on Gulf weed, Jimuary 18, 1869.

