

sediment, the bottom is most curiously paved with polished and clean "cobble stones." This barren bottom is scattered over with patches of *Desmarestia*, *Ptilota*, and *Agarum*, which give shelter to *Hyas*, *Chiton*, *Cynthia*, and a few *Echini*. Three or four miles further out into the Straits, a long narrow ledge forms the "Bank," whose crown rises to within eighteen fathoms of the surface, and it is here that the *Astrophyton* abounds most. On this bank the *Ptilota elegans* and the *Nullipora polymorpha* were the only plants observed. Indeed I was struck with the poverty of this locality in sea weeds, compared with the mouth of the St. Lawrence river, as catalogued in a previous number of this journal.

The rocky shores exposed to surf from the Gulf did not seem to harbor any animal life, but a narrow, interrupted belt of sand and mud flats in Salmon Bay, with patches of *Zostera marina*, about six inches in length, exhibited a feeble assemblage of littoral animals compared with that of Maine, even. In the higher levels of the zone, whose whole extent was only six feet vertically, were *Littorina rudis*, *Rissoa minuta*, *Balanus balanoides* and *Jaera copiosa*; and below, *Mya arenaria*, *Macoma fusca*, *Mytilus edulis*, *Littorina littoralis*, *Tectura testudinatis*, and *Nereis*. In the pools on the flats, myriads of *Mysis* and *Crangon* occurred with *Platessa* and *Cottus*; under the rocks and seaweed, *Gammarus mutatus*, *Cancer borealis*, and occasionally *Homarus Americanus*; and on the fuci *Laomedea*, with *Dynamena pumila*.

The entire absence of any specimens of *Purpura lapillus* was inexplicable, though I searched for that shell. So also I did not find any species of *Idotea*, though it is found at Anticosti, and I took it from seaweed floating a few miles off Cape Ray, Newfoundland. There were also no Planarians or Nemerteans observed between tide marks.

Another belt, extending a fathom or two below low water mark, was characterized by the three species of *Asterias*, *Solaster pappos*, *Echinus*, *Echinarachnius*, *Pecten tenuicostatus*, *Mesodesma Jauriesii*, *Margarita helicina*, *Buccinum undatum*, *Pycnogonids*, *Cuma*, *Hyas aranea*, *Desmarestia* with *Spirorbis*, *Eupagurus*, two species, and *Agarum* with eggs of *Nudibranchs*; but no forests of *Laminaria* such as those in Maine, occurred around Caribou Island.

The muddy and sandy bottom of Salmon Bay in 15 to 20 fathoms was characterized by *Ophioglypha nodosa*, *Pentacta calcigera*, *Nucula tenuis* and *expansa*, *Leda buccata*, *Thyasira Gouldii*, *Car-*