

were found:—*Paradoxides*, sp.; *Agraulos socialis*, Bill.; *Agnostus gibbus*? Linns; *Hyalithes*, sp.

HORIZON OF PARADOXIDES TESSENI.

A different and probably somewhat higher horizon appears to be indicated by species found at Chapel Arm, Trinity Bay. Mr. Billings describes from this place:—*Paradoxides tenellus*, Bill.; *P. decorus*, Bill.; *Anopolinus venustus*, Bill.; *Obolella* (*Linnarssonina*) *misera*, Eill.; *Solenopleura communis*, Bill.; and *Agraulos socialis*, Bill. In the species from this locality there are also the following:—*Eocystites*, sp.; *Beyrichona*? sp.; *Agnostus laevigatus*, Dal.; *A. punctuosus*, Ang. var., *Agnosti*, other species and *Microdiscus punctatus*, Salt. There are fragments of a *Paradoxides*, which by its hypostome, suture, pleuræ and pygidium is very like *P. Tesseni* of Europe. This is, perhaps, the *P. decorus* of Billings. The organisms from this locality are evidently a Menevian assemblage, equivalent to Band *d* of Division I. of the St. John Group.

HORIZON OF PARADOXIDES SPINGSUS.

This species was quoted on account of the occurrence of *Paradoxides Bennettii*, Salt., at St. Mary's Bay. Discovered many years ago, it was the first which drew attention to the interesting Primordial Fauna of Newfoundland. The resemblance to *P. Harlani*, Green, from Braintree, Mass., has been pointed out by Mr. Walcott and others. Mr. Billings describes from the same locality *Agraulos affinis*. The corresponding species in the Acadian region is found in Division I., Band *c* (and *d*?). An *Agraulos* and a *Ptychoparia* have been described from the slates in which *P. Harlani* occurs in Massachusetts. If we have regard to the associated species, and also to the suture and eyelobe of *P. Bennettii* (= *P. Harlani*?), it seems probable that the horizon of this species is below that of *P. Forchammeri* and *P. Davidis* of the European Cambrian rocks.

HORIZON OF PARADOXIDES DAVIDIS.

In a black, calcareous rock from Highland's Cove, in Trinity Bay, there are abundant remains of a large *Para-*