

March 1890

Dear Dr. Hayden  
With reference to your  
inquiry respecting the Devonian (Green)  
beds of Gaspé and Bay de  
Chaleur, I shall endeavor to  
obtain and send with this  
reference to the Reports of the  
on the parts you name. In the  
mean time I may say as the  
result of my own examination  
1. That there are no unambiguous  
traces of the Devonian  
in the Gaspé Bay de Chaleur  
area, there are some local  
differences of mineral character  
only to contemporaneous greens  
in the Bay de Chaleur



2 That the Lower Devonian  
beds rest on Silurian rocks of  
the Helderberg age (Sudlow of England)  
In fact, ~~the~~ the ~~series~~ is ~~unconformable~~  
and there is a passage from one  
to the other. In Bay des Chaleux the  
series is somewhat marked & ~~is~~  
conspicuous

3. The Lower Carboniferous con-  
glomerates (Bourmontian formation of  
Saxony) rest unconformably on the  
Devonian beds, ~~the~~ the unconformity  
is slight and the small ~~conglomerates~~  
of the Lower series.

4 The Scammanian beds rest  
on a great thickness of Middle  
and Upper Devonian, and are  
themselves duly capped by the  
Lower Carboniferous conglomerate



Their fossil plants are in part  
identical with those of the  
Upper Devonian of Perry in Maine  
and of the Carboniferous group in  
New York and are distinctly  
Upper Devonian and different  
both from those of the Lower De-  
vonian below and the Car-  
boniferous above. They resemble  
those of the Kiltoran Series in  
Ireland. ~~and~~ In Scotland all  
the fossil plants I have seen  
seem to belong to the Lower  
or Middle Devonian, but  
I suppose the Scammanee beds  
may be regarded as the equivalents  
of the Upper Old Red. In no  
fossil plants are occurring they are distinctly  
different from those either of the Lower  
Devonian or those of the Kiltoran or Carboniferous  
Series, and  
(cont.)



Also from these of our  
series the equivalent here of  
the Swedish hats  
Dudges

To Japan  
Nov/90