

Rideau Club,
Ottawa.

Jan 1. 95 -

My dear Father,

I have seen on the
27th & 31st, a fore also
second the coat, poor weather,
which my fits admirably. &
Romances book, which I still
read, but weariable if you
should want it, please let me
know, for I may not be able to
get through it at once.

I don't know say about Windell's
tale, but probably you noticed
that the tale comprised two sections,
not of the "Caribbean Papers", official
vis. Prof. Lawyer & his own.

Neither way to correct, but in the
whole I think Windell is more

nearly covered them the
 Correlation papers'. The U.S. Geol.
 Survey is bound & the Algomaian,
 which, according to Van Hise &
 the Survey Staff, includes not
 only the Keewenawan, Animikie &
 Huronian, but also the Gremble
 Series. A map was published some
 years ago showing all this under
 one colour & this is surely a
 worse thing than anything of mine.
 I have not looked at this specimen
 myself enough to be a definite
 opinion, but as far as to tell
 that it has not arrived at a
 stage when it must be treated
 with great caution, & statements
 at such a mode. We have mapped
 the Keewenawan, Nipigon & Animikie
 conjecturally as Lower Cambrian,
 practically without fossil evidence,

& in disregard of the dictum
 that the Olivellus zone, even if
 found would be the base of the
 Cambrian. Below the Amherst
 comes a belt unconformably & before
 of time & below all this the Harriman,
 under its various local names
 & the Grenville Series.
 As to the Harttig's series - Venus's
 work upon which this was based
 must be revised. It rests largely
 upon lithological theories of
 Hartt - it evidently needs ^{re-examination}.
 The Harriman has so far never
 been found in contact with the
 Grenville series, but their relations
 remain to be worked out in more
 careful way in the region between
 the Upper Ottawa & Harttig's Co.
 A very general examination of the

country between the Ottawa & Kipster River, seemed best to show that it is possible that the Herkynian Series may possibly be divided between the Grenville & the Huronian, but while the rocks of the two latter are there appears the Wisconsin yet to show. The rocks of the Huronian & the Lower Canadian as explained by Soper consist of oblongs where Huronian & Ottawa facies were found together. Now west of the Ottawa facies is being undertaken as foliated granites, of which the foliolite at least is later in date than the Huronian. The Lower Canadian in fact, as we have been calling it, consists of two things - foliolite granites & bedded rocks like those of Grenville & what

The relations of the Collier may be to the Huronian is yet unknown. Logan could not allow for this classification, ~~as~~ as the theory held then was that the foliolite represented bedding was a less obscure.

I don't remember where Logan defined an upper ~~to~~ Huronian & certainly do not know what he persisted in any such definition. The attempt of the US geologists has been to confine the 'original Huronian' to certain rocks about the Goult St. Marie region & I claim that 'later' the Huronian was wrongly made to include the cryptotelluric schists of wide areas. Now Logan by largely deprecating the schists of Lake Temiscaming as Huronian & its violence has been done to his definition.

It was perfectly comfortable for him
 to extend the limits of his new
 System as far as he thought proper.
 In his work of 1855 - he coloured
 Haronian, Acanthian, Keweenawan
 all as Lower Cambrian of Sedgwick,
 but color'd the Haronian
 from the two last. The US. Geologists
 (officiale) have thrown everything
 below (or supposed to be below) the
Solenites zone & other de fundamental
 faunes into the new 'Algonkian'
 leading back to the time of Chaos, but
 with the evident intention of bringing
 the Haronian proper out again later
 under the new name & finding
 other new names of their own for
 the rest. Winchell is quite sound
 in countering this & deserves
 support in doing so I think.
 As for Algonkian, no objection can

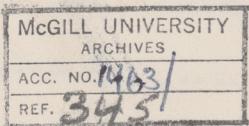
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be taken to the name if it
offered to something not already
named. Suspecting the Amniatic
to represent Lower Cambrian in the
Lake Superior region, an Algolian
façp might be interjected between
it & the Haronian, for which
determination finds way to prove
elsewhere. This might, I state it,
be what you refer to as the
Echaminian, or something of
that kind. There is undoubtedly
a very great facp between the
Amniatic & the Haronian
in the Lake Superior region.

It does not seem true that the
whole question is ready yet for
formulation, but that we should
keep the advances made &

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advance slowly with the
intervening voids.



James
Aug 8.

P.S. I got a copy from White
of his 'Bear R. formation'. White
knows all about the Belly R &
Danburyian formations - I have often
talked & written to him about them.
He thinks the Bear R. is older
than both of these. The Belly R. I
believe is really equivalent to
Musk & Haydins Judith R. of the
Upper Mississ. section. While I
think he believes this also, but rather
they admit a mistake by these great
men, he prefers to continue the
error! He has, or I suppose had,
scarcely some years ago his geological
convictions. This paper was in doubt
written before this was accomplished.