St Joseph Falls, Michigan.
(44 33.6d) Trend in 60.
3646 Nov. No.

Specimen 460 mm long, enlarging from a diameter of 118 mm at the base to 162 mm, at a point 400 mm, further down. This indicates a rate of enlargement of \( \frac{162}{118} \) mm in 400 mm, or 11 mm in 160 = apical angle of only the phragma bone remains. This includes 46 \( \frac{1}{2} \) commase or in the length 460 mm.

At the top of the specimen, beginning to count at the 162 mm diameter, there are 21 commase in a length equal to the internal diameter of the cheek at top of series being counted. At the inner end of this series the diameter is 145 mm.
A) Counting downwards from the 145 mm diameter point there are 17\(\frac{1}{2}\) commences in this length of the diameter of 145 mm. Here the diameter is 129 mm at bottom of serice.

The big change takes place at a diameter of 139 mm, below which there are 14 commences in diameter of 139 mm. And in the series immediately above that are 21\(\frac{1}{8}\) commences in this length. This big change may take place at other diameters in other specimens. It suggests approaching mature conditions.

The latest diameter is enlarging from an estimate of 112 mm at the base to 146 mm at the point 400 mm further up.
At present, at least, the cross section is oblique and
with the disc and anal
diameter shorter.
The outlines of the septa are
nearly directly transverse
but rise in the specimen
slightly toward the middle
of the ventral side. (In
another specimen they
go down slightly instead.)
The subumbrella practically
is in contact with the ventral
wall of the cupule.

Diameter of subumbrella = 51 mm in
lateral direction where lateral
diameter of cupula = 118 mm. =

\[
\begin{array}{c}
51.0 \ (432- \\
472 \\
380 \\
354 \\
260
\end{array}
\]

Ratio of diameter of
subumbrella to that of
cupula = .432.
The concavity of the septa equals the depths of about 2
converge. The line of contact between the septa and the
mucous membrane forms an angle of about 60° with the vertical axis
of the mucous membrane.

End of 3646
A) 3648  Rummiger Collection
same species as 4433.
87 Joseph Island
Enlarging from 92 mm at base
to 109 mm at tip in length of
142 mm, or 17 mm in 142 mm.
12 mm in 100 mm.
11camerae in length of diameter
where latter is 109 mm at tip
If series being counted.
Diameter of apical cone is 38 mm
where diameter of cone is
92 mm. Ratio = .41 at base of
specimen.
At tip of specimen diameter of
apical cone = 50 mm, where that of
cone is 109 mm. Ratio = .46
Line of contact between apical +
apical cone - about 55 degrees
with vertical axis.
A) 3648. See last page

curvature of septa greater on this side
A) 2599 old No.
From near Coffee Bay, Michigan.

Specimen 140 cm. large, with 16 capsules in diameter of stalk. Same species as St. Joseph Island, species 4433.

B) 2506. Probably from St. Joseph.

\[
\begin{array}{c}
430 \\
540 \\
\hline
125
divided by
430
\hline
110 \\
260 \\
2400
\end{array}
\]
2506. Probably from St Joseph Island. At least identical historically.

Enlarging from 66 mm, lateral diameter at base to 120 mm at tip, in length of 430 mm. Length, = 54 mm in 430 mm = 12.5 mm in 100 mm.

21.5 Camenae in diameter.
Camch where latter is 120 mm.
20 Camenae in diameter.
Camch where latter is 117 mm.
12 Camenae in diameter.
Camch where latter is 92 mm.
9 Camenae in diameter.
Camch where latter is 76 mm.

This giving me continuous arm's missing 2 camae at base.
40 mm = 1.57 in (diameter) of riphrenule where diameter of inch is 96 mm. Ratio = .42

The junction of septal with the riphrenule forms 55° with the axis of the riphrenule.
St. Joseph's Island and O'Connor 2471
B.

Yellow oral Rininjavu label

Cnide enlarges from 90 mm to 140 mm in a length of 300 mm =
50 mm in length of 300 mm =
$16\frac{2}{3}$ mm in a length of 150 mm.

At the tip of the specimen there are 17 cameral in the length of the diameter where the latter is 146 mm.

There are 16 cameral in length of diameter of 138 mm.

13$\frac{1}{2}$ cameral in diameter of 130 mm.

In other words, the septae are close together at base and further apart along middle of specimen.
Siphuncle 30 mm wide, where diameter of column is 90 mm.

This species may be distinct from form A, but I am afraid to assert it without more specimens. The neck looks exactly like the St. Joseph lithologically.
Leipsu

Cathays

Fairmount

Mt. Hope

Million

Cynthiana

Princetown

Woodburn

Barnum

Benton

Hermitage

Jezamine

Greene, Cardwell

Raymond.

Mansfield

Penn
To Mayville
Eden (Yarmouth)  Snottum
Regan Gap  Leipers
Sadieville  Grass
Bradley mtns  Haties
Guthman  Cathays  Cathays

Perryville  Satire  Cinnam
Tancame  Windham  Bradford

Flora town  Benson  Big by

Geeswmine  Organ
Curds ville

Black River

Capital is Big by

Dove Ward are Cameron  (Mich)
Dove = Brannum  (Mo)
Ward = Woodrum  (Mich)
Mills = Central Ry  Eden (Mich)

The line to Eden goes drop off progressively southward.
prehistoric man
France, Germany, Austria
Distinct species.
British and of Pishaba'a
Ardhanarishvara
Telgal Stenk
Proto-Australian type
Man is my surviving member of a group of man-like anthropoids.
Dr. Case
Valle geography
Silurian
Bransford, Fernvale
Silurian

Bramfield
Ferrarite

Concinnation
Leips

Cathays

Carbon
Bigby

Grahamite

Black. Rive

Brandon.
Franklin madrange
Hermannage midel, distrib"utes
Franklin quadrangle
Hermitage widely distributed
Bigsby this eastward.

Comments: thin not west

Cutlers very thin thickness both east & west.

Seipps: thin not SE

Fernvale thin not SE
and scarcely overlapped
Franklin quadrangle.

Brassfield thin not eastward. Follow the same
bays as the Fernvale
canyons.

Chattanooga, spreads over
everything.

Burlington to. Iron rich layers.
White 8 to 80 type of stuff.
Burlington & S. New Providence Dela in 1776 with its familial orphans.

Anna Vaughan Hyatt

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Bisunicig Herzig Edward
Specimens taken in the field, w/ notes
Michigan, n.d.

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