HELIOLITES MEGASTOMA.  
1. Upper surface of a corallum from the ferruginous clay of the Upper Niagara, near Louisville. Collection of the author.
2. Upper surface of a fragment from the stratum of white clay ten feet below the passage-beds, separating the Niagara and Devonian, near Louisville. Collection of Mr. McConathy.

HELIOLITES INTERSTINCTUS.  
3. Upper surface of a corallum from the stratum of white clay seven feet below the Niagara and Devonian passage-beds, near Louisville. Collection of the author.

HELIOLITES PYRIFORMIS.  
5. Upper surface of a corallum from the ferruginous clay, near Louisville. Collection of the author.
6. Lateral view of a small corallum from the white clay seven feet below the Niagara and Devonian passage-beds, near Louisville. Collection of the author.

HELIOLITES SUBTUBULATUS.  
8. Upper surface of a corallum from the white clay, near Louisville. Collection of the author.

PLASMOPORA POLLIS.  
9. Upper surface of a corallum from the white clay, near Louisville. Corallets of smaller size than those of typical examples. Collection of Mr. Nettelroth.
10. Lateral view of a corallum from the white clay, near Louisville. Collection of Mr. Nettelroth.

PLASMOPORA ELEGANS.  
KENTUCKY GEOLOGICAL SURVEY.

PLATE 1.
PLATE 2.

LYELLIA GLABRA.           Niagara.
  1. Upper surface of a corallum from the white clay nine feet below the
     Niagara and Devonian passage-beds, near Louisville. Collection of
     the author.

LYELLIA PAPILLATA.         Niagara.
  2. Upper surface of a corallum from the white clay seven feet below the
     Niagara and Devonian passage-beds, near Louisville. Collection of
     the author.

LYELLIA PUELLA, Nova Species.   Niagara.
  3. Upper surface of a weathered corallum from the limestone twelve feet
     below the Niagara and Devonian passage-beds, near Louisville.
     Collection of the author.
PLATE 3.

LYELLIA PAPILLATA. 

1. Portion of the upper surface of a corallum from the ferruginous clay just below the Niagara and Devonian passage-beds, near Louis ville. Collection of the author.

LYELLIA AMERICANA. 

2. Upper surface of a corallum from the white clay ten feet below the Niagara and Devonian passage-beds, near Louisville. Collection of the author.
PLATE 4.

CLADOPORA LABIOSA. Middle Devonian.

1. Front lateral view of the upper fronds of a corallum imbedded in rock matrix, from the Falls of the Ohio. Collection of the author.

LYELLIA DISCOIDEA, Nova Species. Niagara.

2. Convex upper surface of a corallum from the white clay, near Louisville. Collection of the author. [The example figured is exquisitely preserved, but its color seems to have prevented good photographic delineation.]


LYELLIA PAPILLATA. Niagara.

4. Lateral view of a weathered corallum showing the vesiculose coenenchyma, found near Louisville. Collection of the author.

CŒNITES LAMINATA. Niagara.

5. Upper surface of a weathered corallum from the white clay, near Louisville. Collection of the author.

CŒNITES CRASSA. Niagara.

6. Upper surface of a corallum from the ferruginous clay just below the Niagara and Devonian passage-beds, near Louisville. Collection of the author.
KENTUCKY GEOLOGICAL SURVEY.

PLATE 4.
PLATE 5.

COLUMNOPORA RAYI, Nov. Spec.  
_Hudson River Group._


3. Lateral view of a corallum from the same locality. Collection of the author.

COLUMNOPORA CRIBRIFORMIS.  
_Hudson River Group._

2. Lateral view of a corallum found in Nelson county.

4. Tipper surface of a corallum from the same locality. Collection of the author.

5. View of the under surface of a corallum from which the epitheca has been removed, showing diaphragms and mural pores; from Nelson county. Collection of the author.
PLATE 6.

COLUMNOPORA RAYI, Nov. Spec.  
_Hudson River Group._

1. Lateral view of the corallum figured in Plate 5, Fig. 1.

COLUMNOPORA CRIBRIFORMIS.  
_Hudson River Group._


COLUMNSARIA ALVEOLATA.  
_Hudson River Group._

PLATE 7.

COLUMNARIA STELLATA.  
*Hudson River Group.*


COLUMNARIA ALVEOLATA.  
*Hudson River Group.*

2. Longitudinal section of a corallum found near Fisherville, Jefferson county. Collection of the author.
PLATE 8.

FAVOSITES FAVOSUS. \textit{Niagara.}
1. Upper surface of a fragment from the ferruginous clay, near Louisville. Collection of Mr. Nettelroth.
2. Longitudinal section of an example whose corallets are smaller, found in the same horizon and locality. Collection of the author.

FAVOSITES NIAGARENSIS. \textit{Niagara.}
3. Upper surface of a corallum, composed of very small corallets, showing spinulous walls; near Louisville. Collection of the author.
4. Upper surface of an example, composed of the largest sized corallets, with smooth walls; near Louisville. Collection of the author.

FAVOSITES FORBESI. \textit{Niagara.}
5. Upper surface of a large corallum found near Louisville. Collection of Mr. McConathy.

FAVOSITES SPONGILLA. \textit{Niagara.}
FAVOSITES CRISTATUS.  
Niagara.

1. Lateral view of a weathered corallum from the ferruginous clay, near Louisville. Collection of the author.
2. 3. 4. 5. Lateral views of several coralla from the white clay, near Louisville. Collection of the author.

FAVOSITES LOUISVILLENSIS, Nov. Spec.  
Niagara.


FAVOSITES VENUSTUS.  
Niagara.

7. Epithecated under surface of a corallum from the white clay, near Louisville. Collection of the author.
10. Upper surface of a fragment, showing spinulous walls; from the same locality. Collection of the author.

FAVOSITES DISCUS, Nov. Spec.  
Niagara.

8. Upper surface of a fragment from the white clay, near Louisville. Collection of the author.
9. Under surface of a corallum, from which the epitheca has been eroded; near Louisville. Collection of the author.
PLATE 10.

FAVOSITES HEMISPHERICUS.  

Lateral view of a portion of a corallum, showing squamous walls; from the Falls of the Ohio.  Collection of the author.
KENTUCKY GEOLOGICAL SURVEY.

PLATE 10.