CAVES

and

CAVE MAKING.

A reading list
compiled by

LAURA RUSSELL GIBBS

for the

LIBRARY
of the

UNIVERSITY OF ILLINOIS.

1898.
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VIII. MISCELLANEOUS CAVES " 185-98
WORKS REFERRED TO.

American encyclopaedia.
Bonney, T. G. - Story of our planet. 1893.
Burnham, S. M. - History & uses of limestones & marbles. 1883.
Dana, J. D. - Characteristics of volcanoes. 1891.
Dawkins, W. B. - Cave hunting. 1874.
Dawson, J. W. - Story of the earth and man. 1887.

Geology of Vermont.
Encyclopaedia Britannica.
Hovey, H. C. - Celebrated Amer. caverns, especially Mammoth, Wyandot and Luray. 1882.
LeConte, Joseph. - Elements of geology. 1896.
Lyell, Sir Charles. - Elements of geology. 1868.
---------- Principles 1866.
Mantell, G. A. - Wonders of geology. 1864.
Pouchet, F. A. - The universe. 1882.
Prestwich, Joseph. - Geology. 1888.
Reclus, Eliseo. - The earth. Woodward tr.
Rogers, W. B. - Geology of the Virginias. 1884.
St. John, Samuel. - Elements of geology. 1868.
Shaler, N. S. - Aspects of the earth. 1890.
--------- First book in geology. 1892.
Tissandier, Gaston. - Wonders of water. Devere tr. 1875.
Ure, Andrew. - New system of geology. 1828.
Zurcher, & Margolle. - Volcanoes and earthquakes. Lockyer tr. 1868.

GOVERNMENT AND STATE PUBLICATIONS.

Indiana - Geological survey. Reports.
--------- Dep't of geol. & natural resources. Rep't of State Geol.
Iowa - Geological survey. Reports.
Kentucky " "
Missouri "
Smithsonian Institution. Contributions to knowledge.
Texas - Geological survey. Reports.
Vermont. Geology of Vermont.
U. S. - Geological exploration of the 40th parallel. Reports.
" Geological survey. Annual reports.
" Monographs.
PERIODICALS REFERRED TO

American naturalist................................Amer. nat.
Atlantic monthly................................Atlan.
Canadian naturalist and geologist........Can. nat. and geol.
Century magazine.................................Cent.
Dial..............................................Dial.
Geological magazine..............................Geol. mag.
Geologist........................................Geologist.
Journal of the Franklin Institute.............Jour. Frankl. inst.
Littell's Living age..............................Liv. age.
Memoirs of the National academy of sciences..Mem. nat. acad. sci.
Nation............................................Nation.
Popular science monthly.......................Pop. sci. mo.
Proceedings of the Amer. philosophical society. Proc. Amer. phil. soc
Quarterly journal of the geological society..Quart. jour. geol. soc.
Science..........................................Science.
Scientific American supplement................Sci. Amer. sup.
Scribner's magazine..............................Scribner.
Scribner's monthly..............................Scribner's monthly.
I. CAVERNS IN GENERAL.

1. Dawkins, W. B.
   Cave hunting. 455 p. illus. 1874.
   Deals principally with contents of caves, and the light they throw on the history of man. Chap. 2 - Physical history. Illustrated by English examples.

   Reviews.
   Deals with post-tertiary deposits.
   Nation 20:42-4, 1875. (F. W. Putnam.)

2. Caves. (Amer. ency. 4:611-3, 1867.)
   Brief popular sketch of caves and their history.

3. ----- (Ency.Brit. 5:230-5.)
   Good general description.

4. Reclus, Elisee.
   Formation of caves. (see his Earth. Woodward tr. p. 251-60.)

5. Shaler, N. S.
   Caverns and cavern life. (see his Aspects of the earth. 1890. p. 98-142.)
   Enumerates kinds of caverns, and briefly describes each.

6. ---- Courses of underground water. (see his First book in geology. 1892. p. 74-87.)
   Good but elementary description of cave making, and cave animals.
II CLASSES.

a. Limestone.

7. Burnham, S. M.
Caverns. (see his, History and uses of limestone and marbles. 1883. p. 9-12.)
treats of limestone caves.

8. Dana, J. D.
Formation of caves in limestone. (see his, Manual of geology. Ed. 4. p. 130-1.)
Brief description of formation by water.

9. LeConte, Joseph.
Limestone caves. (see his, Elements of geology. 1896. p. 77-8.)
Treats of formation.

10. Merrill, G. P.
On the formation of stalactites and gypsum incrustations in caves. (see U.S. national museum. Proceedings. 1894. 17:77-81. illus.)
Treats of vermicular forms and of gypsum rosettes especially.

Effects of underground water, etc. 1 1/4 col.

Origin, formations, etc.

13. Rogers, W. B.
Growth of stalactites in caves. (see his, Geology of the Virginias. 1884. p. 764-5.)
One page description of formation of stalactites and stalagmites.

14. Shaler, N. S.
Caverns formed by hot water. (see his, Aspects of the earth. 1890. p. 123-8, illus.)
These caves eventually become mineral veins.

15. —— Limestone caves. (see his, Aspects of the earth. 1890. p. 100-23, illus.)
Good general description of caves and cave formations.
16. Shaler, N. S.
   Rock houses.  (see his Aspects of the earth. 1890. p. 134-7.)
   "Recesses - hardly to be termed caverns."

17. Tissandier, Gaston.
   Describes the formation of stalactites, etc.

   Theory of the formation of caves.  (Monograph 7:94-5.)
   One page on limestone caves.

b. Sea caves.

19. Bonney, T. G.
   Sea caves.  (see his Story of our planet. 1893. p. 177-8.)
   Account of the formation of sea caverns.

20. Shaler, N. S.
   Sea caves.  (see his Aspects of the earth. 1890. p. 130-4, illus.)
   See also no. 140.

c. Lava caves.

21. Dana, J. D.
   Cave at Hilo. (Hawaii.)  (see his Characteristics of volcanoes. 1891. p. 209-10.)
   Description of the cave and its formations.

22. ---- Hawaiian caves.  (see his Manual of geology. Ed.4. p. 295, 324.)
   Both very brief mentions of lava caves.

23. Shaler, N. S.
   Lava caves.  (see his Aspects of the earth. 1890. p. 137-40.)
   See also nos. 182, and 194.

d. Fault chasms.

24. Shaler, N. S.
   Fault chasms.  (see his Aspects of the earth. 1890. p. 128-30.)
III CONTENTS.

a. Ice caves.

25. Balch, E. S.
   Ice caves and causes of subterranean ice. (Jour. Frankl.
   Inst., 143:161-78. Mr 97.)
   Very full scientific account.

   1/4 col. Mentions the occurrence of ice in
   some caves, especially at Teneriffe.

See also no. 102

b. Accumulations of gas in caves.

27. Mantell, G. A.
   Carbonic acid gas in caves. (see his Wonders of geology.
   1864. p. 80-1.)
   Illustrated by the Grotto del cane at Naples.

c. Ossiferous caves.

Those containing the remains of animals only.

   Inferences drawn from discovery of animal re-
   mains in caves.

   1/4 col. Mentions a few birds whose remains
   have been found in caves.

30. Cave fossils. (Ency. Brit. 10:283.)
   1/4 col. Adaptability of caves for the pre-
   servation of higher forms of terrestrial life.

31. Mantell, G. A.
   Fossil carnivora in caverns. (see his Wonders of
   geology. 1864. p. 175-6.)

32. Pleistocene caves of the Americas and Australia. (Ency.
   Brit. 5:233.)
   22 lines. Sketch of animal remains found in
   caves, and inferences drawn from discoveries.
33. Lyell, Sir Charles.
   Cavern deposits containing human remains and the bones of extinct animals. (see his Elements of geology. Ed.6. 1868. p. 122-7.)

34. ---- Preservation of organic remains in fissures and caves. (see his Principles of geology. 1866. p. 732-4.)
   Deals with Morea and caverns in the south of France, especially.

35. Pengelly, William.
   Accumulation of cave deposits. (Geologist, 1862. p.65-6)
   One page suggestion that remains may have been deposited in caves by water.

   Description of remains found in these caves.

37. Prehistoric caves of Neolithic Age in Europe. (Ency. Brit. 5:233-4.)
   Notes remains of man found here.

38. Prestwich, Joseph.
   Ossiferous caves. (see his Geology. 1888. 2:488-511.)
   Principly English caves, some French, a few other European, and a mere mention of American.

   2/3 col. in article on geology.

40. St. John, Samuel.
   Ossiferous caves. (see his Elements of geology. Ed.11. 1868. p. 228-32.)
   Treats especially of Kirkdale and Gailenreuth caves.
   d. Faunae.

41. Emerton, J. H.
   Notes on spiders from caves in Kentucky, Virginia, and Indiana. (Amer. nat. 9:278-81. 1875.)
   "Describes and figures linyphia subterranea, a spider from Wyandotte."

41a. Martel, E. A.
   Cave dwelling animals. (Pop. sci. mo. 46:815-8, 1895.)
   Modern cave inhabiting animals.
42. Packard, A. S. jr.
Cave fauna of North America, with remarks on the anatomy of the blind species. (Mem. Nat. Acad. Sci. 4. 1888.)
"Treats in detail the fauna of Wyandotte and Bradford caves; gives brief description of Clifty caves, Washington Co. Gives full description of many cave animals, with notes on origin, changes due to environment, etc. The most valuable work extant on cave fauna."

43. ---- Effects of cave life on animals, and its bearing on the evolution theory. (Pop. sci. mo. 36:389-97. 1890.)
"Discusses the origin and changes due to environment of certain animals found in Bradford and Wyandotte caves."

43a. ---- The invertebrate cave fauna of Kentucky and adjoining states. (Amer. nat. 9:274-8. 1875.)
"Mentions the habits of linyphia subterranea, a small spider found in Wyandotte, also comments on the origin of the myriapod therein found."
IV CAVES AS HUMAN HABITATIONS.

44. Cave dwellers. (Ency. Brit. 2:102.)
   12 line note on remains found in ossiferous caves of the valley of the Meuse. In article on anthropology.

45. Cave remains. (Ency. Brit. 2:294-5.)
   1 1/4 col. Deals mostly with cave dwellers.

46. Lumholtz.
    Cave dwellers. (Scribner. 16:31- 1894.)

47. Prehistoric caves of Bronze and Iron ages. (Ency. Brit. 5:234.)
    Notes few remains in Bronze age and scarcely any in the Iron.

    Annual report. 11:564-5.
    One page on the life of the cave period.
49. Hovey, H. C.

Celebrated American caverns, especially Mammoth, Wyandot and Luray. 228 p. illus. 1882.

Contains chapters on: - Structure and varieties of caverns, Contents, Cave dwellings, Mammoth cave, Wyandot cave, Caves of the Shenandoah valley, Caverns of Luray, Howe's cave, Schoharie Co., N.Y.; and a chapter on the lesser American caves.


Annual report. 11:329. 1889-90.

15 lines on the caves of the Galena limestone, of the Mississippi valley.

California.


Cave city. (Report of progress. 1860-64. p. 261.)

12 line mention of cave in Calaveras Co. Principally concerned with the location.

52. ---- Bower cave. (Report of progress. 1860-64. p. 235.)

One page description of the cave in Tuolumne Co. Gives an illustration of the cave.

Colorado.


Cave on Silver Wave claim, Leadville. (Monograph 12:394.)

15 line description of limestone cave, near ore deposits.

Indiana.

54. Blatchley, W. S.

Indiana caves and their fauna. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:121-75. 1896.)

Takes up the most noted caves of Indiana and describes them giving a brief list of fauna of each.
55. Hovey, H. C.

Eighty miles in Indiana caverns. (Scribner's Monthly, 19:875-87, 1880.)

Good popular description. A brief account of Sibert's, or Little Wyandotte cave: a description of Wyandotte cave and its points of interest. Illustrated.

Fauna of Indiana caves.

56. Aldrich, J. M.

On a collection of diptera from Indiana caves. (Indiana Dep't of geology and natural resources. Annual report of the State geologist. 21:186-90. 1896.)

A description of each variety, and a note of where found.

57. Blatchley, W. S.

Fauna of Indiana caves. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:175-85. 1896.)

Sketches of varieties of cave fauna and some mention of their habits.

58. Hay, W. P.

Observations on the blind crayfishes of Indiana, with a description of a new subspecies. (U.S. national museum. Proceedings. 16:283 1893.)

"An excellent account of the habits of Cambarus pellucidus (Tellk.) with description of the subspecies testii, also remarks on Shiloh and Mayfield's caves."

59. Hay, W. P.

On a collection of crustaceans from Indiana caves. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:206-10. 1896.)

Brief description of species, habits and places where they are found; also references to articles on the blind species.

60. Murtfeldt, Mary E.

A cave inhabiting moth. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:191-2. 1896.)

Description of a variety of tineid found in Wyandotte cave.
Indiana.

61. Wickham, H. F.
On a collection of Indiana cave beetles. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:193-205. 1896.)
References to descriptions of varieties and notes on where each variety is found.

Borden's cave.

Borden's cave (Harrison Co.) Indiana - Geological survey Report. 1878. p. 360-1.)
One page description of the cave.

Bradford cave.

Bradford cave see no.43.

Clifty cave.

63. Blatchley, W. S.
Clifty caves. Indiana - Dep't of geology and natural resources. Annual report. 21:142-4. 1896.)
Description of caves and their fauna. Map.

Connelly's cave.

64. Collett, John.
Connelly's cave. (Lawrence Co.) (Indiana - Geological survey. Report. 1873. p.298.)
Half page description of cave and enumeration of its inhabitants.

Coon cave.

65. Blatchley, W. S.
Coon's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:129-32 1896.)
Description of the cave and fauna. Map.

Donnehue's cave.

66. Blatchley, W. S.
Donnehue's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21: 138-40, pl. map. 1896.)
Cave and fauna.
Indiana.

Donnelson's cave.

67. Blatchley, W. S.
Donnelson's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:141-2. 1896.)

One page description of the cave and fauna.

68. Collett, John.

One page description of the cave and its fauna.

Dry cave.

Dry cave. (Lawrence Co.) (Indiana - Geological survey. Report. 1873. p. 290-1.)

One page on the cave.

Eller's cave.

70. Blatchley, W. S.
Eller's cave. (Indiana - Dep't of geology and natural resources. Annual report. 21:133-5, map. 1896.)

Description of the cave and its fauna.

Evaston's cave.

71. Blatchley, W. S.
Evaston's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21: 175. 1896.)

Half page description of cave and fauna.

Grinstaff's cave.

72. Collett, John.

1/3 p. des of the cave.

Hamer's cave.

73. Blatchley, W. S.
Hamer's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:140-1. 1896.)

2/3 p. description of cave and note of fish and crustaceans being found there.
Indiana.

74. Collett, John.
   Half page description of the cave and stream.

    King's cave.

75. Collett, John.
   2/3 p. description of the cave.

    Little Wyandotte cave.

76. Blatchley, W. S.
   Little Wyandotte cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:172-3. 1896.)
   1 1/2 p. description of the cave and its fauna.

    Map.

77. Collett, John.
   Good description of the cave.

    See also no. 94.

    Marengo cave.

78. Blatchley, W. S.
   Marengo cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:144-9. 1896.)
   Description of Marengo cave and its fauna.

    Mayfield's cave.

79. Blatchley, W. S.
   Mayfield's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:127-8. 1896.)
   One page description of the cave and its fauna.
Indiana.

Porter's cave.

80. Blatchley, W. S.

Porter's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:124-6. 1896.)

Two page description of the cave and its fauna.

Rhodes cave.


2/3 p. description of the cave.

Saltpetre cave.

82. Blatchley, W. S.

Saltpetre cave. (Crawford Co.) (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:173-4. 1896.)

One page description of the cave and fauna.

83. Collett, John.


2/3 p. description of the cave.

84. Blatchley, W. S.

Saltpetre cave. (Monroe Co.) (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:135-6. 1896.)

Description of the cave and its fauna.

Shiloh cave.

85. Blatchley, W. S.

Shiloh cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:137-8. 1896.)

1 2/3 p. description of the cave and its fauna.

86. Collett, John.


One page description of the cave, mentions coons, rats, and ant-lions, as inhabitants.
Indiana.

Sibert's cave,
see Little Wyandotte cave.

Sibert's well cave.

87. Blatchley, W. S.
Sibert's well cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:174-5. 1896.)
3/4 p. on the cave and fauna.

Spring cave.

88. Blatchley, W. S.
Spring cave. (Indiana ) Dep't of geology and natural resources. Annual report of the State geologist. 21:126. 1896.)
Brief description of the cave.

Strong's cave.

89. Blatchley, W. S.
Strong's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:132-3. 1896.)
Description of the cave and fauna.

Truett's cave.

90. Blatchley, W. S.
Truett's cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:128-9. 1896.)
1 1/2 p. description of the cave and its fauna.

Washington Co. cave.

91. Gorby, S. S.
Washington Co. cave. (Indiana - Dep't of geology and natural history. Annual report. 1886. p. 151-2.)
One page description of the cave.
Indiana.

Wyandotte cave.

92. Blatchley, W. S.
Wyandotte cave. (Indiana - Dep't of geology and natural resources. Annual report of the State geologist. 21:149-71. 1896.)

History, description, relics and fauna of the cave. 4 plates and 1 map.

93. Burnham, S. M.
Wyandotte cave. (see his History and uses of limestones and marbles. 1882. p. 66.)

A brief description of the cave.

94. Collett, John.

Description of the caves.


Quite a full popular description of the cave, accompanied by a map.

96. Cope, E. D.
On the Wyandotte cave and its fauna. (Amer. nat. 6:406-1872.)

"Makes brief mention of the more interesting features of the cave, and gives an account of its fauna as then known, together with descriptions of a number of forms supposed to be new."

97. Hagen, H.
The blind crayfish. (Amer. nat. 6:494-5. 1872.)

"States that Cope's genus orconectes, proposed for the blind crayfish is not valid, and that the species o. inermis from Wyandotte is but a form of cambarus pellucidus (Tellk.)"

98. Hovey, H. C.
Wyandotte cave, and cave region of Indiana. (see his Celebrated American caverns. 1882. p. 123-53, illus.)
Indiana - Kentucky.

99. Mercer, H. C.
"Mr Mercer states his doubts of the alleged age as given by Hovey of the stalagmite quarry near the base of the 'Pillar of the constitution' in Wyandotte. Describes briefly the quarry and mentions other discoveries made by him, which tend to prove the Indians former inhabitancy of Wyandotte."

100. Owen, Richard.
"Four page description of Wyandotte, accompanied by two illustrations and a good map, the latter in the appendix to the volume."

See also nos. 41, 42, 43 and 43a, for fauna of Wyandotte cave.

Iowa.

101. White, C. A.
Description of lead caves at Dubuque, and ice cave at Decorah.

Kentucky.

Brief notice of caverns, enumeration of the best known Ky. caves. Little value.

103. Shaler, N. S.
Note of work by F. G. Sanborn and Dr A. S. Packard on caves, on the geological survey.
Kentucky.

104. Shaler, N. S.
   Age of Kentucky caverns. (Ky.-Geological survey.
   Report of progress. n.s. 3:194. 1877.)

105. ---- Underground water courses of Kentucky. (Ky.-Geological
   Lines of caves marking courses of rivers originally on the surface.

Fauna.

106. Garman, H.
   Origin of cave fauna of Kentucky. (Science 20:240-1. 1892.)

   Inhabitants of Mammoth cave. (Nature 5:445-8, 484-7. 1872.)
   Crustaceans and insects. Gives also some views concerning the formation of the cave. Abridged from American naturalist.

108. Putnam, F.W.
   The blind fishes of Mammoth cave and their allies.
   (Amer. nat. 6:6-30. 1872.)
   "Mentions the occurrence of amblyopsis spelaeus in Wyandotte cave and Lost river, Indiana. Discusses its origin and habits, and the changes which it has undergone by cave environment."

Mammoth cave.

109. Call, R. E.
   Mammoth cave, notes on flora and fauna. (Amer. nat. 31: 377-92. 1897.)
   Refers to Dr. A. S. Packard's Cave fauna of North America, with remarks on the anatomy of the brain and the origin of the blind species. Adds to this several new species.

110. Down the Ohio to Mammoth cave. (Liv. age 92:40-5. 1867.)
   Account of a day in the cave.
Kentucky.

111. Fawcett, W. L.
A tour in the dark. (Atlan. 20:670-9. 1867.)
Quite a vivid popular account of a day in Mammoth cave.

112. Hovey, H. C.
Mammoth cave. (see his Celebrated American caverns. 1882. p. 53-122.)

113. ---- Mammoth cave in March. (Science 21:189-90. 1893.)
Mentions also one or two smaller caves near by.

114. ---- One hundred miles in Mammoth cave. (Scribner 20:914-24. 1880.)
Account of a two weeks' exploring expedition in the cave. Illustrated, well written, and popular.

115. ---- and Call, R. E.
Mammoth cave of Kentucky.
Reviews.
Dial 23:151 (16 S 97.)
Nature 56:493 (23 S 97.)

Good description and map of the cave.

A popular description of a part of the cave, written by an Englishman.

118. Pouchet, F. A.
Mammoth cave. (see his The universe. 1882. p. 483-8.)
An illustrated description of the cave.

119. Procter, J: R.
Mammoth cave of Kentucky. (Cent. 55:643-58. 1898.)
A good popular description, well illustrated.

120. Vegetation of Mammoth cave. (Pop. sci. mo. 51:859. 1897.)
2/3 col. mention of some fungi found in the cave.
Missouri - Tennessee.

Missouri.

121. Broadhead, G. C.
   Caves. (Mo.- geological survey. Report. 1873-74. p. 35-7.)
   Two page on caves in Missouri.

122. Marble cave. (Sci. Amer. sup. 19:7586-88. 1885.)
   Quite a full description of the cave.

Nevada.

   Cave spring, East Humbolt range. (Report. 2:531. 1877.)
   Brief mention of the cave which had not at that
   time been explored.

   Caves at Eureka, Nevada. (Monograph 7:94-100.)
   Caves in connection with the silver-lead deposits.
   Theory of formation, connection with fissures,
   ore bodies, etc.

New York.

125. Mather W: H.
   Caves. (Geology of New York 1843. 1:109-11, 637.)
   Brief description of various caverns in the
   state, especially Howe's.

   See also no. 49 for caves in New York.

Tennessee.

126. Jones, Joseph.
   Explorations of aboriginal remains of tennessee.
   (Burial caves.) (Smithsonian Inst. Contributions to knowledge.
   no. 259. 22:1-6. 1880.)
   Mention of remains found in limestone caves of
   Tennessee and Kentucky.
Texas - Virginia.

Texas.

127. Cummins, W. F.
1/2 page mention of caves which have not, as yet, been to any extent explored.

Utah.

Cave in Oquih mountains. (Report. 2:454. 1877.)
Six line mention of the cave.

Vermont.

129. Cavern in Mt. Eolus. (Geology of Vt. 1:219. 1861.)
1/2 page description of the cave.

Virginia.

Luray.

130. Hovey, H. C.
Caverns of Luray. (see his Celebrated American caverns. 1882. p. 163-86.)
Illustrated description of caves.

Quite a full description of the cave.

Weirs cave.

132. Mantell, G. A.
Wyser's cave. (see his Wonders of geology. 1864. p. 466-8.)
1 1/2 page description of the cave.
VI. ENGLISH CAVES.

133. Davies, W.
    Note on animal remains in bone caves in North Wales.
    (Quart. jour. geol. soc. 42:17-9. 1886.)
    Describes remains found in Ffynnon Beuno and Cae Gwyn caves.

134. Hicks, Henry.
    Bone caves in North Wales... with a note on the animal remains, by W. Davies. 
    (Quart. jour. geol. soc. 42:3-16, illus. 1886.)

135. Mantell, G. A.
    Bone caverns of England. (see his Wonders of geology. 1864. p. 179-84.)

    Origin and contents of caves. (see his Treatise of geology. 1852. p. 310-6.)
    Deals principally with English caves, especially with Kirkdale.

    Cae Gwyn cave.

137. Hicks, Henry.
    Evidence of man and pleistocene animals in North Wales prior to glacial deposits. 
    (Nature 34:216. 1886.)
    1 col. Remains found in Cae Gwyn cave.

138. ---- On the Cae Gwyn cave, North Wales; with a note by C. E. DeRance. 
    (Quart. jour. geol. soc. 44:561-77. 1888.)
    A full account of the work in Cae Gwyn cave.

139. Hughes, T. McK.
    On the Cae Gwyn cave. (Quart. jour. geol. soc. 44:112-37. 1888.)
    Principally on deposits.
    See also nos. 144-6.
England.

Cantyre cave.

140. Hull, Edward.
   Caves of cantyre. (Geol. mag. 1866. p. 8-10.)
   Brief description of caves along coast at Cantyre.

Cefn cave.

141. Cefn cave. (Flintshire.) (Geologist 1863. p. 114.)
   19 l. Mention of bone cave at Cefn.

DEVONSHIRE.

142. Bone caves of Devonshire. (Ency. Brit. 7:121.)
   6 l. Mentions Kent's hole and other caves containing remains.

143. Dawson, J: W:
   Kent's hole. (see his Story of the earth and man. 1887. p. 304-9.)
   Description of the cave and its contents, in connection with the history of mankind.

143a. Pengelly, William.
   Contents of Devonshire caverns. (Science 2:562-9. 1883.)
   Remains found tending to prove the caves older than was formerly supposed.

Ffynnon Beuno cave.

144. Smith, W. G. and Morton G. H.
   Ffynnon Beuno and Cae Gwyn caves. (Nature 37:7, 32. 1887.)
   Discussion of Dr Hicks' paper, (Nature 34:216)
   Very brief.

145. Browne, A. J. J.
   Cave deposits. (Nature 37:224. 1888.)
   2/3 col. On the question of the age of the Ffynnon Beuno and Cae Gwyn caves.
146. Hicks, Henry.
FFYNNON BEUNO AND CAE GWYN CAVES. (Geol. mag. 1886. p. 566-71.)
Article on contents of the caves, called forth by T. McK. Hughes.

147. Hughes, T. McK.
FFYNNON BEUNO CAVE. (Geol. mag. 1886. p. 489-92.)
Discussion of the age of these caves.

KENT'S HOLE.
See nos. 142-3a.

KIRKDALE CAVES.

KIRKDALE CAVES. (See his Elements of geology. Ed. 11. 1868. p. 229-30.)
1 1/2 p. Description and contents of the cave.

149. Ure, Andrew.
KIRKDALE CAVES. (See his New system of geology. 1829. p. 567-70.)
This is an old book and seems of comparatively little value.
See also no. 40.

ROYSTON CAVE.

150. Cave of Royston. (Hertford) (Ency. Brit. 11:690.)
Four line mention of the cave.

ST. ROBERT'S CAVE.

Six line mention of the cave.
Settle cave.

152. Dawkins, W. B.
   Exploration of Settle cave., (Yorkshire.)  (Nature 1:628 1870.)
   Remains found in the cave.

Stainton cave.

153. Cameron, A. G.
   Description of the recently discovered caverns at Stainton.  
   (Geol. mag. 1871. p. 312-4.)

Uphill.

   Discovery of cave at Uphill.  (Geologist 1863. p. 331.)
   17 line notice, mentions some bones found.

Vale of Clwyd.

155. Hughes, T. McK.
   On the drifts of the Vale of Clwyd and their relation to 
   the caves and cave deposits.  (Quart. jour. geol. soc. 
   43:73-120, 1 pl. 1887.)
   P. 102-20 treat of caves and cave deposits.
VII. EUROPEAN CONTINENT.

AUSTRIA.

Adelsberg.

Descriptive article of no great value.

157. Reclus, Elisee.
Cave of Adelsberg. (see his The earth. Woodward tr. p. 256-8.)

Carniola and Istria.

158. Reclus, Elisee.
Caverns of Carniola and Istria. (see his The Earth. Woodward tr. p. 255-60.)

BAVARIA.

1 1/2 col. Notes of discovery of a cave and of its contents.

BELGIUM.

160. Dupont.
Ossiferous caverns of Belgium. (Geol. mag. 1866. p.144)
1/2 p. Abstract of a report made to the Belgian government.

FRANCE.

161. Broca, P.
Cave dwellers of France. (Pop. sci. mo. 2:699-708. 1873.)
Speculations in regard to life of Troglodytes, based on remains found in caves near the river Vezere.
162. Falconer, H.
Works of art in caverns in central France. (Geologist.
1864. p. 155.)
Traces of ancient man found by M. Lartet and
H. Christy.

163. French and Swiss cave dwellers. (Nature 13:401-2. 1876.)
Review of books on excavations, by Lartet and
Christy, and Merk.

164. Prestwich, Joseph.
French caves. (see his Geology. 1888. 2:500-4.)
Ossiferous caves.

For caves of southern France see also no. 37.
"  the Meuse valley, "  44.

La Balme.

165. Grotto of La Balme. (Sci. Amer. sup. 44:18218-9. 1897.)
Illustrated description of the grotto.

Saumur.

166. Saumur. (Ency. Brit. 21:337.)
3 line mention of a cave.

Vezere.

Cave dwellers of the Vezere. (Nature 7:305-8, 426-8.
1873.)
Substance of an address to the French association
for the advancement of science. Conclusions gathered
from remains found in a cave.

See also no. 161.
GERMANY.

168. Ure, Andrew.
   Bone caves. (see his New system of geology. 1829. p. 558-93.)
   Bauman's hohle in the Hartz mountains, Unicorn cave, Gailenreuth, and many others.
   Bauman's hohle.

169. ---- Bauman's hohle. (see his New system of geology. 1829. p. 559-60.)
   Account of the cave.
   Forest cave.

170. Mantell, G. A.
   Forest cave. (see his Wonders of geology. 1864. p.178-9)
   Gailenreuth cave.

171. LeConte, Joseph.
   Gailenreuth cave. (see his Elements of geology. 1896. p. 600-1.)
   Vertical section, and brief mention of the cave.

172. Mantell, G. A.
   Cave of Gaylenreuth. (see his Wonders of geology. 1864. p. 176-8.)

   Gailenreuth cave. (see his Elements of geology. Ed.11. 1868. p. 231.)
   One page description of the cave and its contents.

174. Ure, Andrew.
   Gaylenreuth cave. (see his New system of geology. 1829. p. 561-4, illus.)
   Account of cave and contents.
   See also no. 40, for contents of Gailenreuth cave.
   Hartz mountains, caves.

175. Ure, Andrew.
   Caves in the Hartz mountains. (see his New system of geology. 1829. p. 558-61.)
GREECE.

Antiparos.

Very brief notice of the cave.

177. Pouchet, F. A.
Antiparos. (see his The universe. 1882. p. 482-3.)
1 1/2 page description of the grotto, and a
visit to it by Tournefort.

Cerigo.

178. Cerigo. (Ency. Brit. 5:300.)
Six line mention of the cave.

Morea.

For cave at Morea see no. 37.

HUNGARY.

16 line mention of several caves.

ITALY.

180. Mantell, G. A.
Grotto del cane. (Naples.) (see his Wonders of geology.
1864. p. 80-1.)

See also no. 27. for a mention of the grotto.

POLAND.

12 lines.
SICILY.

182. Lyell, Sir Charles.
Subterranean caverns at Etna. (see his Principles of
geology. 1866. p. 401.)
1/3 page description of lava cave.

SPAIN.

183. Gibraltar. (Ency Brit. 10:52.)
2/3 col. Description of caves and their contents.

184. Caves of Gibraltar. (Geol. mag. 1865. p. 213.)
16 line notice of C. Warren's paper before the
Geological society of London, Enumerates caves at
Gibraltar.
Anguilla.

185. Cope, E: D.
Contents of a bone cave in the island of Anguilla, (West Indies.) (Smithsonian Inst. Contributions to knowledge. no. 489. v. 25. 1883. 30 p. pl.)
Enumeration and description of species found in the limestone cave.

Australia.

186. Wellington caves. (Nature 56:184. 1897.)
1/2 col. notice of the caves.

Borneo.

3 line mention of caves.

Brazil.

188. Bone caves of Brazil. (Ency. Brit. 4:201.)
9 l. Remains of man so buried with remains of mastodon, etc. as to leave no doubt that they were contemporaneous.

Canada.

189. Gibb, G: D.
On the existence of a cave in the Trenton limestone at the Cote St. Michel on the island of Montreal. (Can. nat. and geol. 3:192-3. 1858.)
Two page note on cave which had not been very carefully explored.

190. Vennor, H. G.
Cave in limestone near Montreal. (Can. nat. and geol. Series 2. 1:14-6. 1864.)
Farther note of cave mentioned by G: D. Gibb.
191. Cave of Moa, Cuba. (Ency. Brit. 6:601.)
   3 line mention of a cavern from which the Moa river falls.

Guatemala.

   4 line mention of the cave.

Hawaii.

See nos. 21-2, for Hawaiian lava caves.

Hindoo Koosh.

   7 line notice of caverns.

Iceland.

194. Zurcher, and Margolle.
   Caverns of Surtschellir. (see their Volcanoes and earth­quakes. Lockyer tr. 1868. p. 69-70.)
   One page description of a lava cavern.

Malta.

195. Caves of Malta. (Geol. mag. 1865. p. 520.)
   16 line summary of exploration of caves on Malta.
Orkney.

4 line mention of immense Orkneyman's cave, and caves of Papa-Stour.

Syria.

One page notice of caves of Syria.

Teneriffe.

See no. 26, for account of Teneriffe.

Venezuela.

Very brief notice of the cave.