

Column C summarizes the information from column B and sedimentology in terms of particular environments ranging from mud flats to large lake, with the diagrammatic curve showing relative water depth. Uranium/Thorium tufa ages from Ku *et al.* (1998) from the margins of Death Valley are shown in column D. The Devils Hole stable isotope record (column E, plotted against the Devils Hole time scale, Landwehr *et al.* 1997) is shown for comparison of its hydroclimate profile with the lake record from Death Valley.

Archive Data

Appendix 1 Ostracode and other fossil as well as endogenic minerals found in the samples examined in this study.

Appendix 1

Ostracodes, other fossils, and endogenic minerals found in the sand fraction Death Valley Core. Samples containing ostracodes or other taxa identified by marking the depth in bold numbers

Depth(m)	contents
1.57	gypsum
2.11	black botrioidal Fe/Mn nodules
2.36	black botrioidal Fe/Mn nodules, gypsum
3.33	gypsum
4.19	gypsum, black botrioidal Fe/Mn nodules
4.47	gypsum
4.72	gypsum, black botrioidal Fe/Mn nodules
5.64	gypsum
6.73	barren

7.11 gypsum

8.69 *Limnocythere staplini*

10.41 *Limnocythere staplini*, *Candona rawsoni*, gypsum,

10.82 brine fly

13.74 barren

14.02 cyprid sp. (ostracode) juvenile

14.3 *Limnocythere staplini*, *Limnocythere ceriotuberosa*

14.59 barren

14.96 *Limnocythere staplini*, carbonates, black redox nodules

15.6 *Candona rawsoni*, *Limnocythere staplini*, gypsum, pyrite, carbonates

~16.0 *Limnocythere staplini*, bivalve shell fragments, carbonates

16.09 *Limnocythere staplini*, *Limnocythere sappaensis*, carbonate, pyrite

16.57 pyrite

16.87 *Limnocythere staplini*

16.98 *Limnocythere staplini*, carbonates, gypsums

17.67 *Candona caudata?*, pyrite

18.01 carbonate

18.15 to 18.21 *Limnocythere staplini*

60.71 gypsum, wood

61.19 gypsum

62.15 gypsum

63.07 gypsum

64.1 gypsum

64.52 *Candona rawsoni*, bivalve shell fragment, gypsum, carbonate

65.1 woody material, carbonate

65.66 gypsum

66.28 gypsum

67.22 gypsum

67.96 gypsum, carbonates

68.88 plant debris

69.39 Fe-Mn oxides, plant debris

69.95 gypsum, Fe oxide stained silt aggregates, plant debris

70.52 plant debris

71.12 botryoidal Fe-Mn crusts, plant debris

71.82 carbonates, plant debris

72.42 carbonate after gypsum, plant debris

73.23 barren

73.62 carbonate after gypsum, plant debris

74.55 barren

92.03-92.06 barren

92.45-92.50 barren

94.34-94.36 barren

96.40-96.45 *Candona* sp. juv., ostracode genus species unkown

98.13-98.16 barren

100 barren

101 barren

102 barren

104 barren

107.1 barren

108 barren

108.96 *Candona* sp.

109.65 barren

113.35 *Limnocythere ceriotuberosa, L. staplini*

115.6 *Limnocythere ceriotuberosa, Candona* sp.

115.8 *Limnocythere sappaensis, L. staplini, L. ceriotuberosa, Candona rawsoni*

116 *Limnocythere staplini?*

117.05 barren

117.4 barren

118 *Limnocythere staplini*

118.4 *Limnocythere sappaensis?*

119.1 barren

119.6 *Limnocythere staplini?*

120 *Limnocythere sappaensis?*

120.3 *Limnocythere staplini, L. sappaensis*

120.6 *Limnocythere staplini, L. sappaensis*

120.8 *Limnocythere sappaensis*, woody material

121.2 *Candona rawsoni*

121.6 *Limnocythere staplini, Candona* sp?

122.6 ostracode valve fragment

123.25 barren

124.25 barren

124.95 *Limnocythere sappaensis*

125 *Limnocythere staplini*, L. sp?

125.15 *Limnocythere sappaensis*, *L. staplini*(ornate), *L. certiotuberosa*, *Candonia rawsoni*, *L. paraornata*, cyprid genus and species ?

125.45 *Limnocythere staplini*, L. *sappaensis*, *Candonia* sp?

125.65 *Limnocythere staplini* (ornate), *L. sappaensis* (ornate)

125.85 *Limnocythere sappaensis*

126 *Limnocythere sappaensis*(ornate), *L. staplini*(ornate), *Cyprideis beaconensis*, cyprid, *Candonia rawsoni*, *Candonia* sp., (ground-water), heterocyprid (ostracode) valve fragment *Elphidium* sp. (marine foram).

126.1 *Limnocythere sappaensis*, *L. staplini*

126.3 *Limnocythere sappaensis*, *L. staplini*

126.5 *Limnocythere sappaensis*, *Candonia* sp.?

126.7 *Limnocythere staplini* (ornate), *L. sappaensis* (ornate), *L. itasca*?

126.9 *Limnocythere sappaensis*, *L. staplini*

127 woody material

127.1 *Limnocythere sappaensis*, *Cyprideis beaconensis* (juvenile)

127.3 *Limnocythere sappaensis*

127.5 *Limnocythere sappaensis*, *L. staplini*

127.75 *Limnocythere sappaensis*, *L. staplini*, *Cypridopsis vidua*

127.95 *Limnocythere sappaensis*

128 *Limnocythere sappaensis*

130.8 *Limnocythere staplini, Potamocypris* sp

131 *Limnocythere staplini*

131.2 barren

131.4 *Limnocythere staplini*

131.6 barren

131.8 *Limnocythere sappaensis*

131.88 *Limnocythere sappaensis*

133 *Limnocythere sappaensis*

133.2 *Limnocythere staplini*, cyprid

133.4 *Limnocythere sappaensis, L. staplini*, cyprid

133.6 *Limnocythere staplini*

133.8 *Limnocythere staplini*, cyprid

134 cyprid

134.2 *Limnocythere staplini*, cyprid

134.4 *Limnocythere staplini*, cyprid

134.6 *Limnocythere staplini*, cyprid

134.8 cyprid

135 *Limnocythere staplini, Candona rawsoni*, cyprid

135.2 *Limnocythere staplini*, cyprid

135.4 *Candona* sp.?

135.6 *Limnocythere staplini, L. sappaensis, Candona rawsoni*, cyprid

135.8 *Limnocythere staplini*

135.89-135.92 *Limnocythere staplini*, cyprid

136 *Limnocythere staplini*, cyprid

136.15 *Limnocythere sappaensis*

137.1 *Limnocythere staplini*, *Candona* sp. ?D

137.3 *Limnocythere staplini*

137.5 carbonates, seed frag., ostracode shell fragment., plant debris

138.5 *Limnocythere ceriotuberosa* juvenile reworked

138.6 *Limnocythere ceriotuberosa*, *Candona rawsoni*

138.8 *Limnocythere ceriotuberosa*

139 *Limnocythere sappaensis*, *L. ceriotuberosa*, *Candona rawsoni*

139.2 *Limnocythere sappaensis*, *Candona rawsoni*

139.4 barren

140 *Limnocythere ceriotuberosa*, beetle

140.2 *Limnocythere ceriotuberosa*, *Candona rawsoni*

140.4 *Limnocythere ceriotuberosa*

140.6 *Limnocythere ceriotuberosa*

140.8 limnocytherid juveniles valve fragments

141 limnocytherid juvenile valve fragments

141.2 *Limnocythere sappaensis*, *L. ceriotuberosa*?

141.4: *Limnocythere* sp?, charophyte gyrogonite

141.6 *Limnocythere sappaensis*, *L.* sp.?

141.8 *Limnocythere sappaensis*, *Candona rawsoni*

141.95 barren

143 barren

143.2 *Candona caudata*

143.4 barren

143.6 barren

143.8 barren

144 barren

144.2 plant debris

144.21-144.26 barren

144.4 *Limnocythere* sp?, charophyte gyrogonite

144.6 barren

144.8 barren

145.1 *Limnocythere sappaensis*

145.2 barren

145.4 *Limnocythere* sp?, *Candona rawsoni*

145.6 barren

145.8 *Candona* sp. (ground water taxon)

146.0 barren

146.2 barren

146.4 *Candona* sp. (ground water taxon), *Limnocythere* sp.?

146.6 barren

146.73-146.79 barren

147.85 barren

148.0 barren

148.2 barren

148.4 barren

151.0 barren

151.2 barren

151.4 barren

151.6 *Limnocythere sappaensis*

151.8 barren

152.0 barren

152.2 barren

152.4 barren

152.6 barren

152.8 barren

153.0 barren

153.2 *Limnocythere sappaensis*

153.4 barren

154.0 barren

154.2 barren

155.2 *Limnocythere sappaensis, L. staplini, Candona rawsoni*

155.5 barren

155.7 *Limnocythere sappaensis*, gastropod shell fragment

156.8 *Limnocythere staplini*

157 *Potamocypris* sp, *Limnocythere staplini*

157.2 mollusc shell?

157.33-157.38 barren

157.69-157.73 *Limnocythere sappaensis, L. staplini, L. ceriotuberosa?*

158 barren

158.2 barren

158.4 barren

158.6 barren

159 barren

159.2 barren

159.4 *Limnocythere staplini*

159.6 *Limnocythere sappaensis*

159.8 barren

160 barren

160.1 barren

160.8 barren

160.9 barren

161.24-161.26 barren

161.55-161.6 barren

162.15 *Candona rawsoni*

172.2 barren

173.7 no codes

173.93-174 barren

174 barren

174.64-174.73 barren

175 barren

175.02-175.1 plant debris

175.71-175.75 plant debris

176 barren

176.74-176.8 barren

177 *Limnocythere staplini*

177.52-177.59 plant debris

177.9-177.98 barren

178 barren

179 barren