

The east side of the mountain is by far the best exposure 400324-24  
levels between the Provo and the Bonneville stages while <sup>sure</sup> the west  
side seems to retain the best evidence of levels below the Provo  
stage. If one has never observed the shore lines of this island before  
one will be very sceptical about the observations & deductions made  
but one only has to see them to be more than convinced. The  
island is situated at the end of a direct corridor into the  
open expanses of Great Salt Lake and <sup>direct</sup> those exposure and contacts  
of wave action on the west side were to score or unfavorable, they  
were recorded upon the east side or the lee side of island where  
wave action was indirect. The profile map of entire section  
indicates that there was probably a cut action of mountain  
side as the water rose upon the hillside as the lake attempted  
to establish its greatest height and then as lake subsided the  
present terraced were made upon material placed upon this  
older surface. The major cycles are 14 in number and are un-  
doubtedly regular. The Bonneville-Provo section has between  
each major level a minor level of a slightly lesser extent which  
is evenly spaced between the major level and between the  
major and lesser level is still a minor level of about a 15' height.  
Below the Provo one finds the major divisions continuing and  
4 minor levels between each major level. Some slopes between  
major levels are without surficial indications of shore lines &  
may be due to either a lack of shore lines or they could have  
been erased by an upward trend of the lake level. The present  
lake shore level is considered in comparing with regularity  
and degree of erosion, as a major level and its present day low  
level the first minor level. If one knows the age of Lake  
Bonneville, one can readily calculate the cycles and establish  
a time scale for the Great Basin since this early pleistocene  
period. The range of shore lines represent 14 major levels, one  
lesser stage between major cycles of levels above Provo level, and  
minor levels ranging on the average of 4 or 5 to major period or cycle.  
Will attempt to work out ratios and cycles of this from this evidence  
to see how closely they compare with cycles established by ring counts,  
varves etc. An interesting thing occurs upon the west side of the  
island at the north end of broad exposures of southern half of  
island or on the south side of main mountain mass that extends  
west from main ridge of island. Here, and at other points however,  
one finds upon the steep <sup>and bare</sup> solid rock cliffs the signs of the Provo  
and Stansbury level as evidenced from the precipitation of