***Important information to accompany the***

***Pygmy Mammoths on the Santa Barbara Channel Islands,***

***narrated, animated movie***

This narrated movie was created to accompany the Pygmy Mammoth skeleton display the Channel Islands National Park Visitors' Center in the Ventura harbor. The movie describes how full-sized Columbian mammoths swam to the islands during the last low stand of sea level, then became isolated as the glaciers melted back and sea level rose. They were separated from their mainland predators, so it was no longer an advantage to be so large, and they were confronted by relatively low food supplies and dwindling flatlands\*, so it was an advantage to be smaller. Hence, they evolved by natural selection into a half-size species of mammoths.

\*Large elephants have a hard time navigating steep slopes, and rising sea levels were flooding the flatlands that surrounded the islands. For this reason, also, natural selection would favor smaller animals.

This movie was drawn, animated, and compiled in Photoshop, Morph, and FinalCut by John Iwerks, with help from Erich Meyr. Sound was recorded in the U.C.S.B. sound studios. Funding was supplied by the Channel Islands National Park funds and by the Educational Multimedia Visualization Center, U.C.S.B.

These materials may be used free of charge for personal and/or educational uses only. If you wish to use any of the items for the purposes of being sold in some form, contact Tanya Atwater [atwater@geol.ucsb.edu](mailto:atwater@geol.ucsb.edu) and we can discuss licensing agreements and costs. When using these materials, please credit them to Tanya Atwater, http://emvc.geol.ucsb.edu.

Complaints, corrections, comments and, especially, suggestions for how to make these materials more useful are always welcomed: [atwater@geol.ucsb.edu](mailto:atwater@geol.ucsb.edu)