

Reconstructing the paleo Lake Bonneville in Utah/Idaho

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Executive Summary

Lake Bonneville is the name for a highstand of the Great Salt Lake (Utah, U.S.A.) during the last glacial ca. 15,000 years ago with a surface area of 51,300 km². This is approximately 10 times the mean-historical values. Water depth was reconstructed by sedimentologists and paleoclimatologists and long-term stable water levels are evident by sediment rims along these paleo shorelines. This project seeks to reconstruct water volumes and surface areas for the recognized shorelines of the ancient lake through use of digital elevation models.