Tephrochronology Results for the Copperton, Lofgreen, and Magna Quadrangles, Utah

by

Utah Geological Survey, Barbara P. Nash¹, and Michael E. Perkins²

¹ University of Utah, Department of Geology & Geophysics, 115 S. 1460 E., Rm 383, Salt Lake City, UT 84112
² University of Utah, retired

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INTRODUCTION

This open-file report makes available raw analytical data from laboratory procedures completed to determine the tephrochronology of rock samples collected during geologic mapping partially supported by the Utah Geological Survey (UGS). Additional information about these samples is available in Clark and others (2012, 2015) and Kirby (2010). Final published maps of the Rush Valley and Tooele 30’ x 60’ quadrangles and Lofgreen 7.5’ quadrangle are in progress. These data were prepared by the Electron Microprobe Laboratory of the University of Utah, Salt Lake City, under contract to the UGS. These data update some of the data and interpretations presented in the geologic maps of the Copperton and Magna 7.5’ quadrangles (Biek and others, 2007; Solomon and others, 2007). These data are highly technical in nature and proper interpretation requires considerable training in applicable geochemical techniques.

DISCLAIMER

This open-file release is intended as a data repository for technical analytical information gathered in support of geologic mapping. These data may not conform to UGS technical or editorial standards. Therefore, it may be premature for an individual or group to take actions based on the contents of this report. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

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REFERENCES


Table 1. Electron microprobe analyses of glass from volcanic ash samples from the Copperton, Lofgreen, and Magna quadrangles, Utah

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Notes:
Values in weight percent
Analyses by Electron Microprobe Laboratory, University of Utah, Cameca SX50
Lab Director Barbara P. Nash
Analyst: W. Mace (2-Sept-14, 30-Mar-15)
Analytical Condition: Acceleration Voltage: 15 KeV, Beam Current: 25 nA, Spot Size: 10 µm
Analyst: M.E. Perkins (30-Mar-12)

n = number of glass shards analyzed
SD = standard deviation