

2017

Pyramid and Winnemucca lake basin carbonate data

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In the Pyramid and Winnemucca lake basin carbonate data folder:

New unpublished and previously published ¹⁴C and calibrated ages for materials in the Winnemucca Caves are reported in the table and in the references listed below the table

¹⁴C and calibrated ages for Winnemucca Lake Basin carbonates are reported in:

Benson, L.V., Hattori, E.M., Southon, J., Aleck, B., 2013. Dating North America's oldest petroglyphs, Winnemucca Lake subbasin, Nevada. *Journal of Archaeological Science* 40, 4466-4476.

Tufa ⁸⁷Sr, ¹⁸O, and ¹³C data are reported in:

Benson, L.V., Smoot, J.P., Lund, S.P., Mensing, S.A., Rye, R.O., 2013. Insights from a synthesis of old and new climate-proxy data from the western Lahontan Basin for the period 48 to 11.5 ka. *Quaternary International* 310, 62-82.

Benson, L.V. and Peterman, Z., 1996, Carbonate deposition, Pyramid Lake subbasin, Nevada: 3. The use of ⁸⁷Sr values of carbonate deposits (tufas) to determine the hydrologic state of paleolake systems: *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 119, p. 201-213.

Benson, L.V., White, L. D., and Rye R., 1996, Carbonate deposition, Pyramid Lake subbasin, Nevada: 4. Comparison of the stable isotope values of carbonate deposits (tufas) and the Lahontan lake-level record: *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 122, p. 45-76.

Tufa and organic ¹⁴C data are reported in:

Benson, L.V., Smoot, J.P., Lund, S.P., Mensing, S.A., Rye, R.O., 2013. Insights from a synthesis of old and new climate-proxy data from the western Lahontan Basin for the period 48 to 11.5 ka. *Quaternary International* 310, 62-82.

Benson, L.V., Kashgarian M., and Rubin, M., 1995, Carbonate deposition, Pyramid Lake subbasin, Nevada: 2. Lake levels and polar jet stream positions reconstructed from radiocarbon ages and elevations of carbonate deposits (tufas): *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 117, p. 1-30.

<u>Name</u>	<u>Date modified</u>	<u>Time modified</u>	<u>Size MB</u>	<u>Extension</u>
Pyramid and Winnemucca lake basin carbonate data\Pyramid and Winnemucca lake basin carbonate data\				
14C and calibrated ages for materials in Winnemucca Caves and other tufa dates.xlsx	11.11.2017	22:45:52	0.02	xlsx
14C and calibrated ages for WDL carbonates used in petroglyph study.xlsx	11.11.2017	22:50:20	0.01	xlsx
Tufa ⁸⁷ Sr, ¹⁸ O, ¹³ C datas.xlsx	11.11.2017	22:16:58	0.02	xlsx
Tufa and organic dates from Lake Lahontan.xls	09.11.2017	20:49:02	0.05	xls

General Comment: In most cases an age model based on ¹⁴C analyses is not included with the data sets although ones were created for the original publications. Given the general problems with ¹⁴C ages in the lakes of the Great Basin, age models based on paleomagnetic secular variation (PSV) are much preferred. However the original ¹⁴C data are included below so that the reader may create their own

age models. Most of the calibrated ages in this data base have been done more recently than the times of original publication so they may not exactly match the dates in the publications.