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Pyramid Lake core data

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In the Pyramid Lake core data folder:

¹⁴C and calibrated ages for core PLC08-1 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.

¹⁴C and calibrated ages for core PLC92B are reported in:

Benson, L.V., 1999, Records of millennial-scale climate change from the Great Basin of the Western United States: In Clark, P., Webb, R., Keigwin, L., eds., *Mechanisms of Global Climate Change at Millennial Time Scales*, American Geophysical Union Monograph 112, p. 203-225.

Benson, L., 2003, Western Lakes: Chapter 9 in Gillespie, A. R., Porter, S. C., & Atwater, B., eds. *The Quaternary Period in the United States: Developments in Quaternary Science*, vol. 1 (Elsevier), p. 185-204.

Benson, L., Lund, S., Negrini, R., Linsley, B., and Zic, M., 2003, Response of North American Great Basin lakes to Dansgaard-Oeschger oscillations: *Quaternary Science Reviews* vol. 22, p. 2239-2251.

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.

¹⁴C and calibrated ages for core PLC97-3 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.

Calibrated age, depth TOC, TIC, ¹⁸O, ¹³C for core PLC97-1 are reported in:

Benson, L., Kashgarian, M., Rye, R., Lund, S., Paillet, F., Smoot, J., Kester, C., Mensing, S., Meko, D., and Lindstrom, S., 2002, Holocene multidecadal and multicentennial droughts affecting northern California and Nevada: *Quaternary Science Reviews* vol. 21, p. 659-682.

Depth, ¹⁴C age and ¹⁴C age corrected for reservoir effect for core PLC98-4 are reported in:

Benson, L., Kashgarian, M., Rye, R., Lund, S., Paillet, F., Smoot, J., Kester, C., Mensing, S., Meko, D., and Lindstrom, S., 2002, Holocene multidecadal and multicentennial droughts affecting northern California and Nevada: *Quaternary Science Reviews* vol. 21, p. 659-682.

Depth TOC, TOTC, porosity TIC, ¹⁸O, ¹³C, and estimated calendar age for core PLB98-2 are reported in:

Benson, L., Kashgarian, M., Rye, R., Lund, S., Paillet, F., Smoot, J., Kester, C., Mensing, S., Meko, D., and Lindstrom, S., 2002, Holocene multidecadal and multicentennial droughts affecting northern California and Nevada: *Quaternary Science Reviews* vol. 21, p. 659-682.

Calibrated age, depth TOC, TOTC, TIC, ^{18}O , ^{13}C for core PLC98-4 are reported in:

Benson, L., Kashgarian, M., Rye, R., Lund, S., Paillet, F., Smoot, J., Kester, C., Mensing, S., Meko, D., and Lindstrom, S., 2002, Holocene multidecadal and multicentennial droughts affecting northern California and Nevada: *Quaternary Science Reviews* vol. 21, p. 659-682.

Depth, TOC, TIC, ^{18}O , ^{13}C in PLC92B and equivalent depth in PLC08-1 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.

Depth, PSV age, TIC, ^{18}O , ^{13}C in PLC08-1 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.

Depth, PSV age, ^{14}C age in PLC97-1 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.

Depths before and after removal of slumped and turbidite sediments in PLC97-3 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.

<u>Name</u>	<u>Date modified</u>	<u>Time modified</u>	<u>Size MB</u>	<u>Extension</u>
Pyramid Lake Core Data\				
14C and calibrated ages for core PLC08-1.xlsx xlsx	01.03.2014	19:45:30	0.01	
14C and calibrated ages for core PLC92B.xlsx xlsx	04.03.2014	16:41:30	0.01	
14C and calibrated ages for core PLC97-3.xlsx xlsx	01.03.2014	19:50:48	0.01	
CalKa Depth TOC TIC 18O 13C for PLC97-1.xlsx xlsx	09.11.2017	20:51:22	0.04	
Depth 14CAge Corrected 14C AGE CAL Age PLC98-4.xlsx xlsx	15.11.2017	18:26:12	0.01	
Depth 18O 13C TOTC TOC TIC porosity CYBP Box Core PLB98-2.xlsx 0.01 xlsx	01.03.2014	20:00:46	0.01	
Depth CalAge TIC TOTC TOC 13C 18O PLC98-4.xlsx xlsx	02.03.2014	00:32:20	0.05	
Depth Equivalent Depth in PLC08-1 PSV age 18O 13C TIC TOC for PLC92B.xlsx 20:14:54 0.03 xlsx	01.03.2014		0.03	
Depth PSV age 18O 13C TIC for PLC08-1.xlsx xlsx	01.03.2014	20:10:24	0.03	
Depth PSV age, 14C age PLC97-1.xlsx xlsx	04.03.2014	16:38:24	0.01	
Depths before and after removal of slumped and turbidite sediments in PLC97-3.xlsx 20:23:36 0.01 xlsx	01.03.2014		0.01	
PLC97-3 data with 14C and PSV age models.xls xls	13.11.2017	14:29:54	0.06	
PSV age as a fcn of depth used in age model construction for PLC97-3.xlsx 20:44:06 0.01 xlsx	01.03.2014		0.01	
Pyramid Lake box core sediment chemistry.xls xls	11.11.2017	22:24:06	0.04	
Pyramid Lake gravity core pore fluid chemistry.xlsx xlsx	12.11.2017	16:04:20	0.01	

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