

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

BIBLIOGRAPHY OF PUBLISHED RADIOCARBON DATES
FOR ALASKA

by

John P. Galloway

OPEN-FILE REPORT
84-21

This report is preliminary and has not been
edited or revised for conformity with
U.S.G.S. editorial standards and
stratigraphic nomenclature

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INTRODUCTION

Since publication of the first radiocarbon dates for Alaska was reported (Arnold and Libby 1951) more than 1,900 radiocarbon age determinations have been reported for geological and archaeological samples from Alaska. Thirty-one U. S. laboratories (commercial, university, State, Federal) and eleven foreign laboratories (listed in Appendix I) have reported radiocarbon ages in Radiocarbon and other scientific journals. Before the first publication of Radiocarbon (originally the Radiocarbon Supplement to American Journal of Science), in 1959, radiocarbon date lists were routinely published in Science. Date lists published in Science (1951 to 1958) are listed in Appendix II. Citations, by laboratories, for Alaskan samples published in Radiocarbon are listed in Appendix III.

The purpose of this bibliography is to cite and index publications which mention radiocarbon dates for Alaska. Criteria for inclusion of a reference in this bibliography were the mention of either: 1) a date and laboratory number, or 2) a date with a standard deviation. Publications which contained a radiocarbon date(s) only were excluded. More than 375 geological and archaeological references make up this bibliography. Citations were indexed according to subject (archaeology or geology) then further subdivided according to geographic area. Figure 1 shows the geographic divisions used in this report. Appendix IV (archaeology) and V (geology) lists citations by author(s) and geographic area.

The more than 375 geological and archaeological publications listed in this bibliography were located by manual library techniques. A literature search of both geological and archaeological journals was undertaken. Although completeness was strived for, this bibliography has not benefitted from a thorough search of all doctoral and masters' dissertations (geologic and archaeological) relating to Alaska. The largest source for radiocarbon dates were the various U. S. Geological Survey publications (Bulletins, Circulars, Professional Papers, and Open-File Reports) which contained more than forty references. Two excellent sources for radiocarbon dates, geologic samples, were the journals Arctic and Quaternary Research (17 and 13 citations respectively). An excellent source for radiocarbon dates relating to anthropological material were Arctic Anthropology and Anthropological Papers of the University of Alaska (20 and 19 citations respectively).

Although Appendix IV and V list the citations by author and region the following is a listing of key references by subject and regions:

ARCHAEOLOGY - Northern: Anderson, 1970; Gal, 1982; Hamilton, 1979; Stanford, 1976; West-Central: West, 1978; East-Central: Cook, 1969; Southwestern: Aigner, 1978; Black, 1976; Clark, D., 1979; Workman, 1977; Southern: Bowers, 1980; Schweger, 1981; Thorson and Hamilton, 1977; Southeastern: Ackerman, et. al., 1979.

GEOLOGY - State: Péwé, 1975a; 1975b; Northern: Brown, 1965; Calkin and Ellis, 1980; Carson, 1968; Hamilton, 1982; Schweger, 1982; West-Central: Guthrie and Matthews, 1971; East-Central: Ager, 1982; Fernald, 1965a; 1965b; Péwé, 1965a; 1965b; 1965c; Thorson and Dixon, 1983; Southwestern: Black, 1976; 1974; Heusser, 1973; Southern: Denton, 1974; Denton and Karlen, 1977; Reger and Updike, 1983; Thorson, et. al., 1981; Southeastern: Goldthwait, 1966; McKenzie and Goldthwait, 1971. Several key references pertaining to vertebrate remains are: Guthrie, 1976; 1968; Harington, 1980; 1978; and Porter, 1979. For the Beaufort and Chuckchi Coast see: Hopkins and Robinson, 1981; 1979a; 1979b; Hopkins, et. al., 1981.

The primary emphasis of this report is the citation of radiocarbon dates for Alaska. Yet changes, both archaeological and geologic, occurred in adjacent countries, Canada and U.S.S.R., which directly affected events in Alaska. As an introduction to the radiocarbon literature for Canada and U.S.S.R. I have included several key references. For the U.S.S.R., particularly Siberia, papers by Chard and Powers, 1968; Kind, 1967; Klein, 1967, 1971; Svitoch, 1978; Svitoch, et. al., 1978, are quite useful. Useful references for Canada are: British Columbia: Borden, 1979; Clague, et. al., 1982a; Clague, et. al., 1982b; Wilson and Young, 1976; Northwest Territories: Andrews, 1975; Andrews and Miller, 1972; McGhee and Tuck, 1976; Yukon Territories: Denton, 1974; Denton and Karlen, 1977; Harington, 1980, 1978; Hopkins, et. al., 1981; Hughes, et. al., 1981; Irving and Harington, 1973; Jopling, et. al., 1981; Lowdon and Blake, 1979; Morlan, 1980; Thorson and Dixon, 1983; Wilson and Young, 1976.

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APPENDIX I

Laboratories which have reported radiocarbon determinations for Alaskan material

Radiocarbon laboratories - United States

A	University of Arizona
AU	University of Alaska
Beta	Beta Analytic, Inc.
BGS	Brock University
C	Chicago *
DIC	Dicarb Radioisotope Company
Gx	Geochron Laboratories, Inc.
I	Teledyne Isotopes
ISGS	Illionis State Geological Survey
L	Lamont, Columbia University
LJ	La Jolla, University of San Diego
M	Michigan *
MI	University of Miami
OWU	Ohio Wesleyan, University *
P	University of Pennsylvania
PIC	Packard *
QI	Quaternary Isotope Laboratory, University of Washington
RL	Radiocarbon LTD
SI	Smithsonian Institution
SM	Mobil Oil Corporation *
SMU	Southern Methodist University
TAM	Texas A & M University
Tx	University of Texas
UCLA	University of California, Los Angeles
UGa	University of Georgias
USGS	U.S. Geological Survey, Reston
UW	University of Washington
W	U.S. Geological Survey, Menlo Park
WIS	University of Washington
WSU	Washington State University
Y	Yale University *

Radiocarbon Laboratories - Foreign

B	Bern, Switzerland
GaK	Gakushuin University, Japan
Gif	Gif-Sur-Yvette, France
GrN	Groningen, The Netherlands
GSC	Geological Survey of Canada
Hv	Hannover, West Germany
IVIC	Caracas, Venezuela
S	University of Saskatchewan, Canada
St	Stockholm, Sweeden
T	Trondheim, Norway
TK	Tokyo Radiocarbon Laboratory, Japan

*denotes inactive laboratory

APPENDIX II
CITATIONS - SCIENCE

<u>Author</u>	<u>Lab.</u>
Arnold and Libby, 1951	C
Libby, 1954	C
Libby, 1951	C
Broecker and Kulp, 1957	L
Broecker, et. al., 1956	L
Kulp, et. al., 1951	L
Kulp, et. al., 1952	L
Crane, 1956	M
Rubin and Alexander, 1958	W
Rubin and Suess, 1956	W
Rubin and Suess, 1955	W
Suess, 1954	W
Barendsen, et. al., 1957	Y
Preston, et. al., 1955	Y

APPENDIX III

CITATIONS - RADIOCARBON

<u>Author</u>	<u>Lab.</u>		
Long and Muller	A	Rusnake, et. al., 1964	MI
		Ogden and Hay, 1973	OWS
Reeburgh and Young, 1976	AU		
		Fishman, et. al., 1977	P
Gfeller, et. al., 1961	B	Lawn, 1975	P
Oeschger, et. al., 1970	B	Lawn, 1974	P
		Lawn, 1973	P
Kigoshi, et. al., 1973	GaK	Lawn, 1971	P
		Ralph and Ackerman, 1961	P
Vogel and Waterbolk, 1972	GrN	Stuckenrath, et. al., 1966	P
Lowdon, et. al., 1969	GSC	Kowalski, 1965	PIC
		Kowalski and Schrodt, 1966	PIC
Krueger and Weeks, 1966	Gx		
		Tucek, 1977	RI
Buckley, 1973	I		
Buckley and Valdes-Pages, 1981	I	Rutherford, et. al., 1981	S
Buckley and Willis, 1970	I	Rutherford, et. al., 1979	S
Buckley and Willis, 1969	I	Rutherford, et. al., 1975	S
Buckley, et. al., 1968	I	Rutherford, et. al., 1973	S
Heusser, 1959	I		
Trautman, 1964	I	Long, 1965	SI
Trautman, 1963	I	Mielke and Long, 1969	SI
Trautman and Walton, 1962	I	Stuckenrath and Mielke, 1973	SI
Trautman and Willis, 1966	I	Stuckenrath and Mielke, 1970	SI
Walton, et. al., 1961	I		
		Noakes, et. al., 1964	TAM
Liu and Coleman, 1981	ISGS		
		Pearseon, et. al., 1965	Tx
Tamers, 1966	IVIC	Stipp, et. al., 1962	Tx
Tauber, 1973	K	Brandau and Noakes, 1978	UGa
Tauber, 1968	K	Noakes and Brandau, 1974	UGa
Tauber, 1964	K		
Tauber, 1962	K	Robinson, 1977	USGS
Tauber, 1960	K	Robinson and Trimble, 1981	USGS
		Robinson and Trimble, 1983	USGS
Olson and Broecker, 1961	L		
Olson and Broecker, 1959	L	Dorn, et. al., 1962	UW
		Fairhall, et. al., 1976	UW
Hubbs and Bien, 1967	LJ		
Hubbs, et. al., 1965	LJ	Ives, et. al., 1967	W
		Ives, et. al., 1964	W
Crane and Griffin, 1972	M	Levin, et. al., 1965	W
Crane and Griffin, 1968	M	Marsters, et. al., 1969	W
Crane and Griffin, 1964	M	Rubin and Alexander, 1960	W
Crane and Griffin, 1961	M	Rubin and Berthold, 1961	W

Spiker, et. al., 1978	W
Spiker, et. al., 1977	W
Sullivan, et. al., 1970	W
 Bender, et. al., 1982	 WIS
Chatters, 1968	WSU
Sheppard and Chatters, 1976	WSU
 Stuvier, 1969	 Y
Stuiver, et. al., 1963	Y
Stuiver and Deevey, 1962	Y
Stuiver and Deevey, 1961	Y

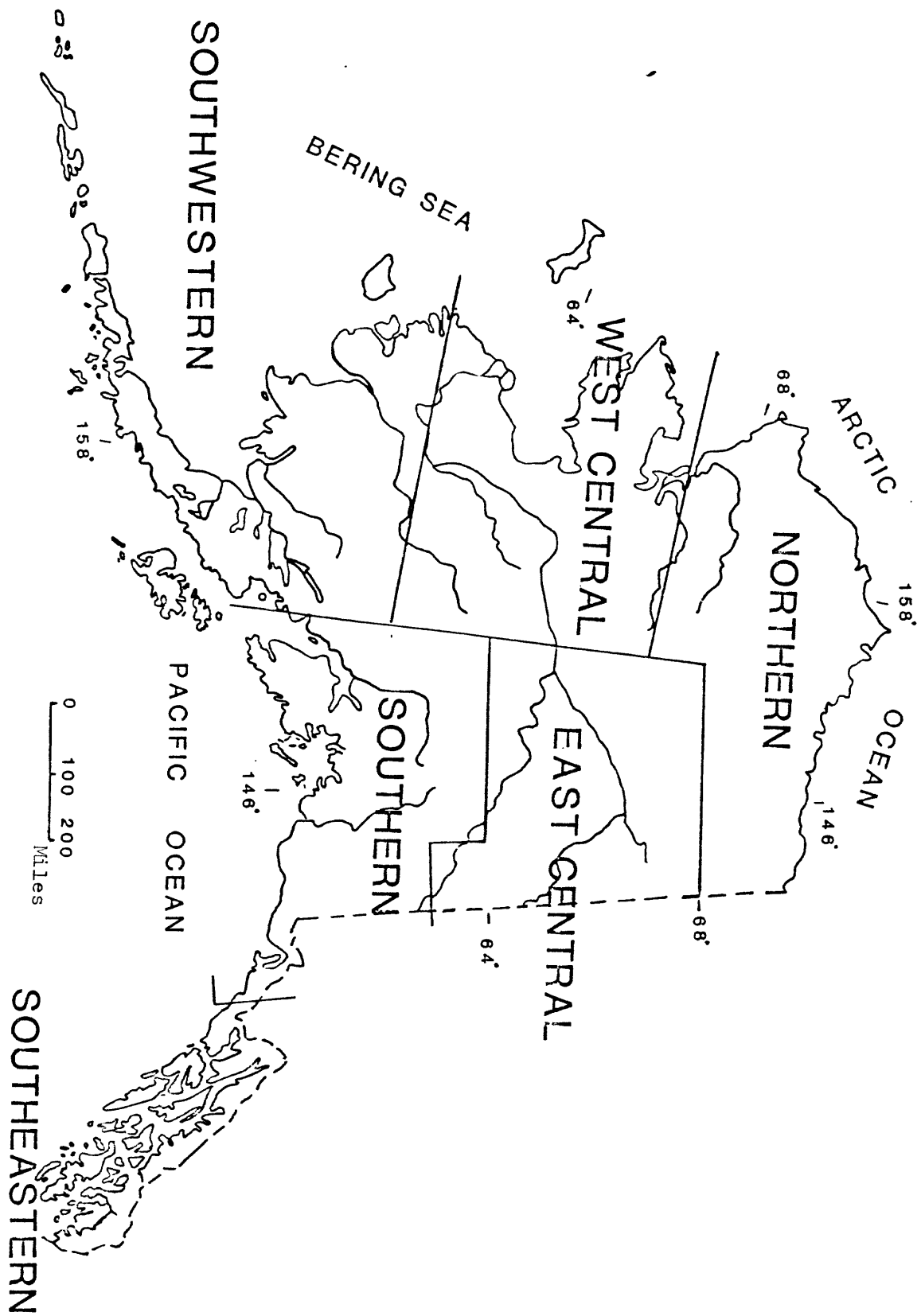


Figure 1. Geographic divisions used for Appendix IV and V

APPENDIX IV

ARCHAEOLOGY

Statewide

Alexander, 1974
Anderson, 1978
Bonnichsen, 1979
Borden, 1979
Borden, 1962
Bryan, 1978
Byers, 1962
Campbell, 1968
Cook, 1977
Dumond, 1980
Dumond, 1968
Dumond, 1965
Giddings, 1961
Giddings, 1960
Giddings, 1957
Hamilton, 1978
Haynes, 1982
Haynes, 1978
Hester, 1960
Holmes, 1982
Irving, 1976
Irving, 1974
Laguna, 1962
Larsen, 1982
Larsen, 1954
Larsen, 1953
McGhee, 1971
Morlan, 1977
Morlan and Cinq-Mars, 1982
Péwé, et. al., 1965
Rainey and Ralph, 1959
West, 1981
Wilson and Young, 1976
Workman, 1983
Workman, 1981
Workman, 1980
Workman, 1973

Northern

Alexander, 1969
Anderson, 1970a
Anderson, 1970b
Campbell, 1961
Crane and Griffin, 1964
Davis, et. al., 1981
Dixon, 1975
Ford, 1959
Gal, 1982
Hall, 1981

Hamilton, 1979b
Humphrey, 1970
Irving, 1962
Kunz, 1977
Lawn, 1975
Lobedell, 1981
Long, 1965
Lowden, et. al., 1969
Porter, 1964a
Porter, 1964b
Ralph and Ackerman, 1961
Sheppard and Chatters, 1976
Shinkwin, 1964
Stanford, 1976
Stuiver and Deevey, 1961
Tauber, 1973
Tauber, 1968
Wilson, 1978

West-Central

Ackerman, 1962
Buckley and Willis, 1969
Clark, 1977
Clark, 1973
Clark, 1972
Clark and McFadyen Clark, 1975
Dixon, 1976
Fishman, et. al., 1977
Gfeller, et. al., 1961
Holmes, 1973
Larsen, 1968
Lawn, 1975
Lawn, 1973
Lawn, 1971
Libby, 1955
Libby, 1954
Libby, 1951
Ralph and Ackerman, 1961
Rubin and Suess, 1956
Rutherford, et. al., 1981
Rutherford, et. al., 1979
Rutherford, et. al., 1975
Rutherford, et. al., 1973
Shaw, 1982
Stuckenrath, et.al., 1966
Tauber, 1973
Tauber, 1968
Tauber, 1964
Tauber, 1962

Tauber, 1960
West, 1978

East-Central

Cook, 1969
Kigoshi, et. al., 1973
Lawn, 1974
Schledermann and Olsen, 1969

Southwestern

Ackerman, 1973
Ackerman, 1964
Aigner, 1978a
Aigner, 1978b
Aigner, 1978c
Aigner, et. al., 1976
Arch. Res. Inc., 1970
Black, 1976a,
Black, 1975
Black, 1974
Black and Laughlin, 1964
Buckley, 1973
Buckley and Willis, 1970
Buckley and Willis, 1969
Buckley, et. al., 1968
Byers, 1962
Chatters, 1968
Clark, D., 79
Clark, D., 1977
Clark, D., 1974a
Clark, D., 1974b
Clark, D., 1970
Clark, G., 1977
Crane, 1956
Dumond, 1981
Dumond, 1969
Dumond, 1964
Dumond, 1962
Dumond, et. al., 1976
Fairhall, et. al., 1976
Henn, 1978
Henn, 1977
Ives, et. al., 1964
Laughlin, 1975
Laughlin, 1962
Laughlin, et. al., 1975
Lawn, 1974
Libby, 1955
Libby, 1951a
Lipold, 1972
McCartney, 1974
McCartney, 1969
Nowak, 1982
Nowak, 1970

Okada and Okada, 1974
Ralph and Ackerman, 1961
Schleiser, 1971
Spaulding, 1962
Stuiver and Deevey, 1962
Trautman, 1964
Turner and Turner, 1974
Turner, et. al., 1982
Turner, et. al., 1974
Workman, 1977
Workman, 1966
Workman, et. al., 1980

Southern

Bowers, 1980
Bowers, 1978a
Bowers, 1978b
Brandau and Noakes, 1978
Fetler and Shinkwin, 1978
Mobley, 1982
Noakes and Brandau, 1974
Oeschger, et. al., 1970
Powers and Hamilton, 1978
Reger, 1982
Reger, 1977
Reger, et. al., 1964
Rutherford, et. al., 1981
Schweger, 1981
Stuckenrath, et. al., 1966
Thorson and Hamilton, 1977
Turner and Holmes, 1978
West, 1975
West, 1973
West, 1967

Southeastern

Ackerman, et. al., 1979
Buckley, 1973
Chatters, 1968
Clark, 1982
Laguna, 1962
Laguna, et. al., 1964

APPENDIX V

GEOLOGY

Statewide

Ager, 1982
Arnold and Libby, 1951
Broecker, et. al., 1956
Guthrie, 1976
Harrington, 1980a
Harrington, 1978
Hester, 1960
Heusser, 1965
Heusser, 1953
Hopkins, 1982
Hopkins, et. al., 1981
Madden, 1981
Matthews, 1982
Karlstrom, 1961
Péwé, 1975a
Péwé, 1968
Péwé, et. al., 1965
Reeburgh and Young, 1976
Robinson and Trimble, 1983
Wilson and Young, 1976

Northern

Bender, et. al., 1982
Brown, 1969
Brown, 1965
Brown and Kreig, 1983
Brown and Sellmann, 1973
Brown and Sellmann, 1966
Brubaker, et. al., 1983
Buckley and Valdes-Pages, 1981
Buckley, et. al., 1968
Calkin and Ellis, 1981
Calkin and Ellis, 1980
Carson, 1968
Carter, in press
Carter and Galloway, 1982
Carter and Galloway, 1979
Carter and Robinson, 1981
Carter and Robinson, 1978
Coulter, et. al., 1960
Detterman, 1970
Detterman, et. al. 1958
Ellis, et. al., 1981
Everett, 1979
Fernald, 1964
Hamilton, 1982
Hamilton, 1981
Hamilton, 1980a
Hamilton, 1980b

Hamilton, 1979a
Hamilton, 1979b
Hamilton, 1969
Hamilton, n.d.
Hamilton and Brubaker, 1983
Hamilton and Hopkins, 1982
Hamilton and Porter, 1975
Hamilton, et. al., 1982
Hamilton, et. al., 1980
Harrington, 1981
Hopkins and Robinson, 1981
Hopkins and Robinson, 1979a
Hopkins and Robinson, 1979b
Hopkins, et. al., 1980
Hopkins, et. al., 1979
Ives, et. al., 1964
Lawn, 1975
Levin, et. al., 1965
Livingston, 1957
Marsters, et. al., 1969
Nelson, 1982
Nelson, 1979
Olson and Broecker, 1961
Olson and Broecker, 1959
Olson and Broecker, 1958
Pearson, et. al., 1965
Péwé and Church, 1962
Porter, 1966
Porter, 1964a
Reaniner and Ugolini, 1982
Rickert and Tedrow, 1966
Robinson, 1977
Robinson and Trimble, 1981
Rubin and Alexander, 1960
Rubin and Alexander, 1958
Rusnake, et. al., 1964
Sainsbury, et. al., 1965
Schweger, 1982
Schweger, 1976
Sellmann and Brown, 1973
Spiker, et. al., 1978
Stuckenrath and Mielke, 1972
Stuiver and Deevey, 1961
Stuiver, et. al., 1963
Tedrow and Walton, 1964
Trautman, 1963
Trautman and Walton, 1962
Trautman and Willis, 1960
Walker, et. al., 1981

Williams, 1983a
Williams, 1983b
Williams and Yeend, 1979
Yeend, 1983

West-Central

Guthrie and Matthews, 1971
Hopkins, 1963
Hopkins, et. al., 1976
Kulp, et. al., 1952
Levin, et. al., 1965
Marsters, et. al., 1965
Matthews, 1974b
McCulloch and Hopkins, 1966
McCulloch, et. al., 1965
Rubin and Alexander, 1958
Sainsbury, 1967
Sancetta and Robinson, 1983
Spiker, et. al., 1978
Stuiver, 1969
Stuiver, et. al., 1963
Weber and Péwé, 1970
Weber and Péwé, 1961

East-Central

Ager, 1975
Ager, 1972
Blackwell, 1965
Brown and Kreig, 1983
Brown, et. al., 1969
Brown, et. al., 1967
Buckley, et. al., 1968
Chapman, et. al., 1982
Crane, 1956
Farrand, 1961
Fernald, 1965a
Fernald, 1965b
Fernald, 1965c
Fernald, 1962
Foster, 1981
Guthrie, 1968
Hamilton, et. al., 1983
Harrington, 1980b
Harrington, 1969
Holmes and Foster, 1968
Holmes, et. al., 1968
Ives, et. al., 1964
Kjoller and Odom, 1971
Kowalski, 1965
Kowalski and Schrodt, 1966
Krinsley, 1965
Krueger and Weeks, 1966
Kulp, et. al., 1952
Libby, 1955

Libby, 1951
Long and Miller, 1981
Lowdon and Blake, 1979
Marsters, et. al., 1969
Matthews, 1974
Matthews, 1970
Matthews, 1968
Mielke and Long, 1969
Naeser, et. al., 1982
Noakes, et. al., 1964
Olson and Broecker, 1961
Péwé, 1975b
Péwé, 1965a
Péwé, 1965b
Péwé, 1965c
Péwé and Reger, 1983a
Péwé and Reger, 1983b
Porter, 1979
Repenning, et. al., 1964
Robinson and Trimble, 1981
Rubin and Alexander, 1960
Rubin and Alexander, 1959
Rubin and Berthold, 1961
Sellman, 1972
Sellman, 1967
Stipp, et. al., 1962
Stuckenrath and Mielke, 1973
Stuckenrath and Mielke, 1970
Stuiver, et. al., 1964
Suess, 1954
Tamers, 1966
Thorson and Dixon, 1983
Trautman and Willis, 1966
Tucek, 1977
Weber, et. al., 1981

Southwestern

Barr, et. al., 1973
Black, 1976
Black, 1976
Black, 1975
Black, 1974
Buckley and Willis, 1970
Colinvaux, 1981
Crane and Griffin, 1961
Detterman and Reed, 1973
Detterman, et. al., 1965
Everett, 1971
Feulner and Schupp, 1964
Gard, 1980
Heusser, 1973
Heusser, 1963
Ives, et. al., 1967
Kulp, et. al., 1952

Levin, et. al., 1965
 Marsters, et. al., 1970
 Parrish, 1980
 Porter, 1967
 Shacklette and Rubin, 1969
 Spiker, et. al., 1978
 Stuckenrath and Mielke, 1973
 Stuiver, 1969
 Trautman and Willis, 1966

Southern

Ager, 1976
 Ager and Sims, 1981
 Ager and Sims, 1981
 Bartsch-Winkler, et. al., 1983
 Bowers, 1978a
 Carter and Galloway, in press
 Denton, 1974
 Denton and Karlen, 1977
 Dixon, 1983
 Fairhall, et. al., 1976
 Ferrians, 1963
 Ferrians and Nichols, 1965
 Ferrians, et. al., 1983
 Heusser, 1983
 Heusser, 1959
 Heusser, 1958
 Hubbs and Bien, 1967
 Hubbs, et. al., 1965
 Ives, et. al., 1967
 Ives, et. al., 1964
 Kalstrom, 1965
 Karlstrom, 1964
 Krueger and Weeks, 1966
 Kulp, et. al., 1952
 Kulp, et. al., 1951
 Levin, et. al., 1965
 Liu and Coleman, 1981
 Long, 1965
 Marsters, et. al., 1970
 Marsters, et. al., 1969
 Miller and Dobrovolsky, 1957
 Oeschger, et. al., 1970
 Olson and Broecker, 1959
 Olson and Broecker, 1958
 Péwé and Holmes, 1964
 Plafker and Miller, 1957
 Plafker, et. al., 1982
 Reger and Updike, 1983
 Richter and Schmoll, 1973
 Richter, et. al., 1973
 Robinson and Trimble, 1981
 Rubin and Alexander, 1960
 Rubin and Alexander, 1958

Rubin and Suess, 1954
 Schmoll, et. al., 1981
 Schmoll, et. al., 1972
 Spiker, et. al., 1977
 Stuiver, 1969
 Suess, 1954
 Thorson and Hamilton, 1977
 Thorson, et. al., 1981
 Thorson, et. al., 1980
 Trainer, 1961
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