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, Circulalrs, 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:  


REFERENCES CITED


Guthrie, K. D., 1968, Paleoecology of a Late Pleistocene small mammal community from Interior Alaska: Arctic, v. 21, no. 4, p. 223-244.


Wilson, F. H., and Young, M. S., 1976, Radiocarbon dates for Alaska, Yukon Territory and British Columbia: Institute of Marine Science, University of Alaska, IMS Report R76-6, 64 p.

Workman, W. B., 1977, New data on the radiocarbon chronology of the Kachemak Bay Sequence: Anthropological Papers of the University of Alaska, v. 18, no. 2, p. 31-36.
BIBLIOGRAPHY

Ackerman, K. E., 1973, Post Pleistocene Cultural Adaptations on the Northern Northwest Coast, in, Raymond, S., and Schleiermann, P., eds., International Conference on the Prehistory and Paleoeology of Western Arctic and Sub-Arctic, University of Calgary Archaeological Association, Calgary, Canada, p. 1-20.


Ackerman, K. E., 1962, Culture contact in the Bering Sea: Birnik-Punuk Period: Institute of North America Technical Paper No. 11, p. 27-34, (no lab. numbers).


Black, R. F., 1975, Late-Quaternary geomorphic processes; effects on the ancient Aleuts of Umnak Island in the Aleutians: Arctic, v. 28, no. 3, p. 159-169. (no lab. numbers)


Bowers, P. M., 1978a, Geology and archaeology of the Carlo Creek site, an early Holocene campsite in the Central Alaska Range: American Quaternary Association Fifth Biennial Meeting, Edmonton, Alberta, Canada (abs.) p. 188.


Clark, D. W., 1982, An example of technological change in Prehistory; the origin of a regional ground slate industry in South-Central Coastal Alaska: Arctic Anthropology, v. 19, no. 1, p. 103-126.


Fairhall, A. W., Young, A. W., and Erickson, J. L., 1976, University of Washington dates IV, Radiocarbon, v. 18, no. 2, p. 221-239.


Guthrie, R. D., 1968, Paleoecology of a Late Pleistocene small mammal community from Interior Alaska: Arctic, v. 21, no. 4, p. 223-244.


Heusser, C. J., 1958, Late-Pleistocene environments and chronology of Pacific Coastal Alaska: Proceedings Ninth Alaskan Science Conference, p. 74-76. (no lab. numbers)


Lippold, L., 1972, Mammalian remains from Aleutian archaeological sites; a preliminary report: Arctic Anthropology., v. 9, no. 2, p. 113-114. (no lab. numbers)


Noakes, J. E., and Brandau, B. L., 1974, University of Georgia radiocarbon dates III: Radiocarbon, v. 16, no. 1, p. 131-141.


Péwé, T. L., and Reger, R. D., 1983a, Middle Tanana River Valley, in, Péwé, T. L., and Reger, R. D., eds., Guidebook to Permafrost and Quaternary Geology along the Richardson and Glenn Highways between Fairbanks and Anchorage, Alaska, Fourth International Conference on Permafrost, Guidebook 1, p. 4-45.


Schledermann, P., and Olson, W., 1969, Archaeological survey of C.O.D. Lake area, Minto Flats: Anthropological Papers of the University of Alaska, v. 14, no. 2, p. 67-76. (no lab. numbers)


Tauber, H., 1962, Copenhagen radiocarbon dates V: Radiocarbon, v. 4, p. 27-34.


Wilson, F. H., and Young, M. S., 1976, Radiocarbon dates for Alaska, Yukon Territory and British Columbia: Institute of Marine Science, University of Alaska, IMS Report R76-6, 64 p.


Workman, W. B., 1977, New data on the radiocarbon chronology of the Kachemak Bay Sequence: Anthropological Papers of the University of Alaska, v. 18, no. 2, p. 31-36.

Workman, W. B., 1973, The cultural significance of a volcanic ash which fell 1400 years ago, in, Raymond, S., and Schledermann, P., eds., International Conference on the Prehistory and Paleoecology of Western Arctic and Sub-Arctic; University of Calgary Archaeological Association, Calgary, Canada, p. 239-261. (no lab. numbers)


APPENDIX I

Laboratories which have reported radiocarbon determinations for Alaskan material

<table>
<thead>
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<th>Radiocarbon laboratories - United States</th>
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<td>WSU</td>
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</tbody>
</table>

Radiocarbon Laboratories - Foreign

| B  | Bern, Switzerland                      |
| GaK | Gakushuin University, Japan            |
| Gif | Git-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, Sweden                      |
| T  | Trondheim, Norway                      |
| TK | Tokyo Radiocarbon Laboratory, Japan    |

*denotes inactive laboratory
## APPENDIX II

### CITATIONS - SCIENCE

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### APPENDIX III

**CITATIONS - RADIOCARBON**

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- **Rusnake, et. al., 1964** MI
- **Qgden and Hay, 1973** OWS
- **Fishman, et. al., 1977** P
- **Lawn, 1975** P
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- **Lawn, 1973** P
- **Lawn, 1971** P
- **Ralph and Ackerman, 1961** P
- **Stuckenrath, et. al., 1966** P
- **Kowalski, 1965** PIC
- **Kowalski and Schrodt, 1966** PIC
- **Tucek, 1977** RI
- **Rutherford, et. al., 1981** S
- **Rutherford, et. al., 1979** S
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- **Long, 1965** SI
- **Mielke and Long, 1969** SI
- **Stuckenrath and Mielke, 1973** SI
- **Stuckenrath and Mielke, 1970** SI
- **Noakes, et. al., 1964** TAM
- **Pearson, et. al., 1965** Tx
- **Stipp, et. al., 1962** Tx
- **Brandau and Noakes, 1978** UGa
- **Noakes and Brandau, 1974** UGa
- **Robinson, 1977** USGS
- **Robinson and Trimble, 1981** USGS
- **Robinson and Trimble, 1983** USGS
- **Dorn, et. al., 1962** UW
- **Fairhall, et. al., 1976** UW
- **Ives, et. al., 1967** W
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Figure 1. Geographic divisions used for Appendix IV and V.
APPENDIX IV

ARCHAEOLOGY

Statewide
Alexander, 1974
Anderson, 1978
Bonnichsen, 1979
Borden, 1979
Borden, 1982
Bryan, 1978
Byers, 1962
Campbell, 1968
Cook, 1977
Dunond, 1980
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Dunond, 1965
Giddings, 1961
Giddings, 1960
Giddings, 1957
Hamilton, 1978
Haynes, 1982
Haynes, 1978
Hester, 1980
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, 1973

West-Central
Ackerman, 1962
Buckley and Willis, 1969
Clark, 1977
Clark, 1973
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Clark and McFadyen Clark, 1975
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Gfeller, et. al., 1961
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Rubin and Suess, 1956
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Rutherford, et. al., 1973
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Tauber, 1960
West, 1978

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

Southwestern
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Ackerman, 1964
Aigner, 1978a
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Black, 1976a,
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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

GEOL OGY

Statewide
Ager, 1982
Arnold and Libby, 1951
Broecker, et. al., 1956
Guthrie, 1976
Harington, 1980a
Harington, 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
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Carson, 1968
Carter, in press
Carter and Galloway, 1982
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Péwé and Church, 1962
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Porter, 1964a
Reaniner and Ugolini, 1982
Rickert and Tedrow, 1966
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Robinson and Trimble, 1981
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Rubin and Alexander, 1958
Rusnak, et. al., 1964
Sainsbury, et. al., 1965
Schweiger, 1982
Schweiger, 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

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Levin, et. al., 1965
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Porter, 1967
Shacklette and Rubin, 1969
Spiker, et. al., 1978
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Trautman and Willis, 1966

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Bowers, 1978a
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Denton, 1974
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Dixon, 1983
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Vogel and Waterbolk, 1968
Wahraffig, 1958
Williams and Couler, 1981
Williams and Ferrians, 1961
Williams and Ferrians, 1958

Southeastern
Barendsen, et. al., 1957
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