

## C<sup>14</sup> DATING OF SURVEY MATERIAL PERFORMED IN 1973

General compilation by **Anker Weidick**.

Twenty-one radiocarbon age determinations of shell samples (10), bone (2) and gyttja (9) are assembled into this account. The majority of the material dated was collected in connection with GGU field work but the two bone samples originate from field work by the Zoological Museum, Copenhagen.

All the samples have been dated by H. Tauber at the Carbon-14 Dating Laboratory, National Museum, Copenhagen. Previous catalogues of C<sup>14</sup> dates from Greenland have been published in GGU Reports 45, 1972 and 55, 1973.

### *Shell samples collected in central West Greenland by D. Laursen*

The samples reported on here were submitted for age dating by Professor A. Rosenkrantz (cf. Laursen, 1972). The detailed setting can be found in Laursen (1944, 1950).

GGU 668: K-2018. Kugssineq, Svartenhuk Halvø. Approximately 71°27'N, 55°10'W.

> 35 000 B.P.

Shells of *Macoma calcarea* and *Astarte borealis* on surface of marine terrace, 35-40 m a.s.l.

GGU 819: K-2019. Orpigsûp tasia, Christianshåb district, 68°37'N, 50°40' W.

6380 ± 110 B.P.

4430 B.C.

Shells of *Mya truncata* found in marine clay at 37 m a.s.l.

GGU 821: K-2020. Orpigsôq, Christianshåb district, 68°37'N, 50°40'W.

5890 ± 100 B.P.

3940 B.C.

Shells of *Chlamys* (= *Pecten*) *islandicus*, *Cardium ciliatum* and *Mya truncata* from lower *Pecten* layer in cliff.

GGU 826: K-2021. Zirphaea Pynt, Orpigsôq, Christianshåb district, 68°37'N, 50°51'W (cf. Laursen, 1972, K-1816).

5190 ± 100 B.P.

3240 B.C.

Shells of *Zirphaea crispata*, *Mya truncata* and *Hiatella arctica* from a cliff profile at Orpigsôq river.

GGU 861: K-2022. Sandbugten south of Claushavn, Christianshåb district, 69°03'N, 51°08'W.

7690 ± 120 B.P.

5740 B.C.

Shells of *Macoma calcarea*, *Hiatella arctica* and *Serripes groenlandicum* from marine sand layer in coastal cliff.

GGU 884: K-2023. Lerbugten, south of Claushavn, Christianshåb district, 69°01'N, 51°08'W.

8680 ± 130 B.P.

6730 B.C.

Shells of *Cardium ciliatum*, *Portlandia arctica* and *Macoma calcarea* from marine clay ('Portlandia clay') in cliff.

GGU 886: K-2024. Knold 3, Giesecke Sø, Egedesminde district, 67°42'N, 53°30'W.

5660 ± 100 B.P.

3710 B.C.

Shells of *Mya truncata*, *Mytilus edulis* and *Balanus hammeri* in marine deposits, 2.5 m above lake level, (see Laursen, 1972).

GGU 1132: K-2025. Kuppelsletten, 10c. 3, Giesecke Sø, Egedesminde district, 67°42'N, 53°30'W.

8220 ± 130 B.P.

6270 B.C.

Shells of *Chlamys* (= *Pecten*) *islandicus* and *Hiatella arctica* from shell horizon, 64 m a.s.l.

GGU 1144: K-2026. Nivâq, Egedesminde district, 68°37'N, 52°20'W.  
From the island opposite Nivâq settlement.

5460 ± 100 B.P.  
3510 B.C.

Marine shells from clay in coastal cliff 3 m a.s.l.

*Musk-ox bone collected in East Greenland by C. Vibe and A. L. W. Manniche*

The datings are related to the history of mammal fauna and the material is mentioned in Vibe (1967).

GGU 79302: K-2156. Mouth of Gåseelv, Hurry Inlet, 70°44'N, 22°37'W.

400 ± 100 B.P.  
1550 A.D.

Skull of musk-ox found in ruins of an eskimo settlement on sandy delta surface. Collected and submitted by C. Vibe.

GGU 79303: K-2155. Danmarks Havn, 76°46'N, 18°45'W.

770 ± 100 B.P.  
1180 A.D.

Part of musk-ox skull found on the ground. Collected by Manniche in 1908, submitted by C. Vibe.

*Samples collected in the Scoresby Sund region, East Greenland by S. Funder.*

The interpretation of the dates has been discussed in Funder (1973).

GGU 146515: K-2096. At mouth of Blokelv, Jameson Land, 70°39'N, 23°56'W.

9010 ± 130 B.P.  
7060 B.C.

Shells of *Mya truncata*, *Hiatella arctica* and *Tridonta* (= *Astarte*) *elliptica* from silt in cliff 22–25 m a.s.l.

GGU 146513 a-d. Hugin Sjø, Jameson Land, 70°46'N, 24°07'W.

4 dates from sediment cores:

- a. K-2034: 10 040 ± 150 B.P.  
8090 B.C.
- b. K-2035: 8010 ± 120 B.P.  
6060 B.C.

c. K-2036:	4900 ± 100 B.P. 2950 B.C.
d. K-2037:	3840 ± 100 B.P. 1890 B.C.

The datings were carried out on clay gyttja and mark zone boundaries in a pollen diagram (Funder, 1973).

*Gyttja samples collected in the Frederikshåb district, southern West Greenland by M. Kelly and S. Funder*

GGU 73903 a-e. Lake near Mellebygd, ENE of Frederikshåb, 62°04'N, 49°20'W. 5 dates from sediment cores:

a. K-2148:	8950 ± 130 B.P. 7000 B.C.
b. K-2149:	8860 ± 130 B.P. 6910 B.C.
c. K-2150:	7790 ± 110 B.P. 5840 B.C.
d. K-2151:	5730 ± 100 B.P. 3780 B.C.
e. K-2152:	3530 ± 100 B.P. 1580 B.C.

The datings, made on a 1.98 m thick series of lake sediments, mark zone boundaries in a pollen diagram.

### References

- Funder, S. 1973: C<sup>14</sup> dates from the Scoresby Sund region, 1973. *Rapp. Grønlands geol. Unders.* 58, 75-76.
- Laursen, D. 1944: Contributions to the Quaternary geology of northern West Greenland especially the raised marine deposits. With a contribution on foraminifera by K. Dreyer Jørgensen. *Meddr Grønland* 135,8, 125 pp.
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- Vibe, C. 1967: Arctic animals in relation to climatic fluctuations. *Meddr Grønland* 170,5, 227 pp.