A Preliminary Report on the Plant Remains from the Nakano B Site, Hokkaido.

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Soil samples from the Initial Jomon Nakono B. Site, House 1, Grid 3 were submitted to me for the purpose of recovery and analysis of plant remains and other small archaeological items. The samples were collected in 1975 and stored in small plastic bags. The soil, representing a portion of each level within House 1 was flotated on the Hokkaido University campus using a modification of the "garbage- can" technique (Watson 1976). A plastic garbage-can served as the outer flotation container, while a metal bucket fitted with a 1.2mm. window screen in the bottom served as the interior container. The metal bucket was fitted with four brackets around the rim, 90 degrees apart. The brackets supported the bucket within the garbage can, thus allowing one person to carry out the flotation process. Two people, however, made the job very simple. Individual samples from each level were combined in order to increase the efficiency of the flotation process. A standard sample size of 14 bags (about 30 litres) was arbitrarily chosen. The remaining soil from each level was retained to facilitate potential cross-checking of data. Soil was slowly poured into the hands of an assistant which were held just above the water surface. This broke the fall of the soil, allowing it to become more slowly immersed in the water and therefore not pass immediately through the screened bucket bottom. The suspended light fraction was scooped out of the water using a 0.6mm. mesh hand screen.

Analysis of both heavy and light fractions followed the method described by Yarnell (1974).

The flotation sample data are summarized in Table 1. Both heavy and light fraction data are included. A total of about 672 grams of quantifiable remains have so far been analyzed. Approximately 12% (81 gm.) of this total is carbonized plant remains. The remainder consists of pottery sherds, stone flakes, and small bone. No significant trends are noted in the sample component quantities from lower to upper levels; the quantities are quite variable.

The carbonized plant remains are comprised of wood charcoal, <u>kurumi</u> nutshell (<u>Juglans ailanthifolia</u> Carr.), <u>kihada</u> (<u>Phellodendron amurense</u> Rupr.) fruits and seeds, and a seed of <u>niwatoko</u> (<u>Sambucus</u> sp.). A total of 36 seeds were recovered, 7 of which are either unknown or unidentifiable. Almost 80%, by weight, of the plant remains is wood charcoal. The remainder is nut remains, <u>kihada</u> and small seeds. The five levels contained relatively similar proportions of plant remains components, although the density of plant remains per level is variable.

The quantities of <u>kurumi</u> nutshell and <u>kihada</u> fruits and seeds are in marked contrast to those reported from the Early Jōmon Hamanasuno Site, located about 30km. to the northeast of Nakano B (Crawford and Hurley in press). While such plant foods as nuts and <u>kihada</u> berries were probably not especially important to the Hamanasuno occupants, the opposite appears to be true for the Nakano B peoples. Flotation of soils from Hamanasuno in 1976, utilizing the same methods as that applied to the Nakano B soils seems to confirm this contrast. The lack of other small seeds at Nakano B such as those reported from Hamanasuno (Ibid.) may be either a function of recovery methods, the Initial Jomon subsistence ecology, or both. Further testing will be necessary to ascertain the variables involved. Flotation Samples from the Nakano B Site: Sample Components as a Percentage of Total Sample Weight and Carbonized Plant Remains as a Percentage of Total Weight of Carbonized Plant Remains (seeds are recorded as raw counts)

				Sample Components					Carbonized Plant Remains					
												Small	Seeds	
Level	Volume of Soil Sample (Bags)	Total Sample Weight (gm)	Pottery	Stone Flakes	Small Bone	Carbonized Plant Remains	Total Weight (gm)	Wood Charcoal	Unknown	<u>Kurumi</u> Nutshell	Kihada Fruit Seeds (No.)	Niwa- toko	Uniden- tified Seeds	Total No. Seeds
I	14	40.48	21.49	55.39	_	23.12	9.36	85.26		14.74	1			1
II	14	341.69	65.50	29.98	-	4.43	15.13	79.84		19.49	0.66 8		3	11
lower														
II	14	36.15	1.41	0.55		98.04	35.44	75.79		24.21	-(?) 1		1	2
III	14	236.98	47.05	44.83		8.12	19.24	82.48	-	16,68	0.83 18	1	3	22
IIIb	2.5	16.39	83.77	6.59		9.64	1.58	100.00						
Total	66.5	671.69	53.38	34.60	-	12.02	80.75	79.72	-	19,96	0.32 28	l	7	36

Table l

Acknowledgements

I wish to express my deep gratitude to the Hakodate City Board of Education and to the Hakodate City Museum for their most generous cooperation in this study. In addition, Mr. Akutsu and Mr. Naoi assisted in many of the technical aspects of the field work and analysis, including the construction of the flotation apparatus. I also wish to thank Tsurumi Köichirō for his very able assistance in the flotation process. Finally, I am very grateful to Yoshizaki Masakazu for providing me with space, equipment, and spiritual guidance throughout the period of my stay in Hokkaido.

References Cited

Crawford, G.W. and W.M. Hurley

in press Implications of Plant Remains from the Early Jomon Hamanasuno Site, Hokkaido. Asian Perspectives.

Watson, P.J. 1976

In Pursuit of Prehistoric Subsistence: A Comparative Account of Some Contemporary Flotation Techniques. <u>Mid-</u> continental Journal of Archaeology, Vol. 1, No. 1.

Yarnell, R.A. 1974 Plant Food Remains of the Salts Cavers. In Archaeology of the Mammoth Cave Area by P.J. Watson (ed.).

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函 正	函館空港拡張工事に伴なう発掘調査報告書 函館空港第4地点・中野遺跡									
印刷	1977年3月30日	·								
発行	1977年3月31日									
編集	市立函館博物館									
発行所	函館空港遺跡調査団									
	函館市教育委員会	函館市東雲町4番13号								
印刷所	株式会社 第一印刷	函館市末広町1番8号								

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