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# ETHNOARCHAEOLOGY OF SUBSISTENCE SPACE AND GENDER: A SUBARCTIC DENE CASE

Hetty Jo Brumbach and Robert Jarvenpa

mation processes and general subsistence settlement models, such as Birtford's forager/logistical collector framework. tered" and "village-centered" hunts demonstrates how both women's and men's behavior can be incorporated in site forin archaeological interpretations of hunting in high-latitude societies. An analysis of historical shifts between "bush-cenoffer a means of modeling gender dynamics in archaeological contexts as well as rectifying the often invisible role of women they procure and process materials and move across the landscape in the sociological context of three team types. The data subsistence resources. Analysis reveals both profound differences and interconnections between female and male hunters as munities employs a gender-resource mapping approach, including the spatial dimension of hunting for a complex of major gatherer society. To help remedy this situation, our ethnoarchaeological research among subarctic Dene (Chipewyan) com-The interplay of gender and spatial organization of labor receives little attention in archaeological discussions of hunter-

de asentamientos basados en la subsistencia, como el marco recolector espontáneo/recolector organizado desarrollado por cómo el comportamiento del hombre y la mujer puede ser incorporado en los procesos de formación de sitios y en modelos El análisis de los cambios históricos entre la caza centrada cerca de las aldeas y la caza centrada en el bosque demuestra equipos. Los datos ofrecen un medio para modelar dinámicas de género en contextos arqueológicos y también rectificar el de conseguir y procesar materiales, así como cuando se mueven en su medio dentro del contexto sociológico de tres tipos de geográfica de recursos según género, incluyendo la dimensión espacial de la caza para un grupo de recursos principales de investigación etnoarqueológica en las comunidades subárticas Dene (Chipewyan) emplea una perspectiva de localización las discusiones arqueológicas sobre sociedades cazadoras-recolectoras. Para ayudar a remediar esta situación, nuestra La interacción entre la organización espacial del trabajo y la organización del trabajo según género recibe poca atención en Binford. papel a menudo invisible de las mujeres en las interpretaciones arqueológicas sobre la caza en sociedades de altas latitudes. subsistencia. El análisis revela tanto profundas diferencias como interconexiones entre cazadores de ambos sexos, a la hora

ally and, at the same time, offer new dimensions of gender dynamics may alter prevailing ideas about central Canada. We argue that more attention to Chipewyan (or kesyehot'ine) of subarctic north-Northern Athapaskan Indians, the southern Information derives from one group of Dene or variability for explaining the archaeological record. hunting behavior and foraging economies gener-This paper examines the relationship life-the cultural construction of genderbetween a fundamental aspect of social spatial organization of hunting.

ing behaviors, mapping of both occupied and this study include direct field observation of ongo-The ethnoarchaeological methods employed in

archaeologists working in prehistoric contexts, these observations have direct relevance for past may seem elusive. even though gender constructions from the remote were responsible for creating the sites. We believe interviews with living informants/consultants who recently abandoned settlements, and directed

pology in recent years where the importance of have become prominent themes (Dahlberg 1981; in female and male visions of society and culture, contrast to developments in sociocultural anthrointerest in gender by archaeologists. This stands in (1984) raised serious questions about the lack of and gender bias and blindness in social research gender relations, sexual stratification, differences More than a decade ago, Conkey and Spector

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Whelan 1989; Watson and Kennedy 1991). (Claassen 1991; Gero 1991; Gero and Conkey dynamics of gender in past times and places research, however, has only begun to address the Sacks 1979; Sanday 1981). Archaeological and Whitehead 1981; Quinn 1977; Reiter 1975; Leacock 1978, 1981, 1983; Morgen 1989; Ortner 1991; Kehoe 1990; Nelson 1990; Spector and Rosaldo 1980; Rosaldo and Lamphere 1974;

assumptions, assertions, and purported statements of the archaeological literature is 'permeated with silent about women's and men's behavior. Rather, analyses of gender, archaeologists have not been 'fact' about gender' (Conkey and Spector 1984:2). Despite a long-standing disinterest in formal

ogists working in subarctic settings (Albright mals, a pattern recognized by other ethnoarchaeolclearly participate as hunters and procurers of anistantially to the diet in terms of calories. Women munities where plant foods do not contribute subsalient for northern latitude hunter-gatherer comrevised view of women's roles is particularly nor so limited in scope. Our own ethnoarchaeological studies with the Chipewyan suggest that a assumed that plant collection and processing and even in hunting-intensive contexts of the northern Lancaster 1968). Our goal here is to show that labor. Women's economic roles are neither so rigid hunting follow a more or less strict division of latitudes, than is typically recognized when it is women's roles are more flexible and expansive, interpretation of prehistory (Washburn and "man the hunter, woman the gatherer" model and roles in foraging societies. Archaeological studies far too often rely on the received wisdom of a Some of these assumptions concern women's

economic activity); (2) task setting (locations, der, and kin relations of persons cooperating in basis of four dimensions: (1) social unit (age, genperformed by males and females, as defined on the torical Hidatsa was reanalyzed to identify tasks Great Plains. Ethnographic information on the hisfemale activity patterns for the Hidatsa of the the approach profitably in examining male and have adapted for our own research. Spector used investigating economic behavior, a framework we ology, Spector (1983:82-83) has recommended a "male/female task differentiation" approach for In order to mitigate androcentric bias in archae-

> immediate, concrete mapping implications for ments, technology, and facilities employed in or spatial organization, a dimension that has roles in hunting, we are highlighting task setting activity). In the present effort to clarify women's female relations in hunter-gatherer society. we hope to achieve a more balanced view of maletheir contributions to the archaeological record, alike. By increasing the visibility of women and prehistoric archaeologists and ethnoarchaeologists contexts for activity); (4) task materials (impletime (frequency, seasonality, and other temporal locales, or geographic range of activity); (3) tasl

society on the other. Yet, gender relations are curement and processing. At the same time, our recognizes a need for general models of spatial the utility of one well-known model of hunterethnoarchaeological field materials and analysis integral to the spatial organization of food prowe argue that gender, one of the most fundamenand behavioral insights informing hunter-gatherer forager/collector framework. gatherer spatial organization, Binford's (1980) for the subarctic Chipewyan can be used to assess largely overlooked in such research. Accordingly, organization, on the one hand, and social contexts tal structuring principles for all human societies, is approaches to mobile campsites, Gamble (1991) In his recent discussion of ethnoarchaeological

### Previous Related Research

ology, including extensive collaboration with onwith several kinds of ethnoarchaeological methodsite native consultants. 1984, 1985, 1988). That research experimented Jarvenpa 1987; Jarvenpa and Brumbach 1983, Jarvenpa 1989, 1990; Brumbach et al. 1982; Saskatchewan (Brumbach 1985; Brumbach and Churchill River fur trade of northwestern Metis Cree, and European groups in the Upper ation, including the role of Chipewyan, Cree and 1980s focused on the historical and ecological nomic change, and interethnic relations (Jarvenpa basis of ethnic-cultural adaptations and differentilogical investigations in the late 1970s and early 1970s with studies of hunting ecology, socioecowith the Chipewyan began in the early and midfor the present project. Our long-term involvement Previous research serves as an essential platform 1977, 1979, 1980, 1982a, 1982b). Ethnoarchaeo-

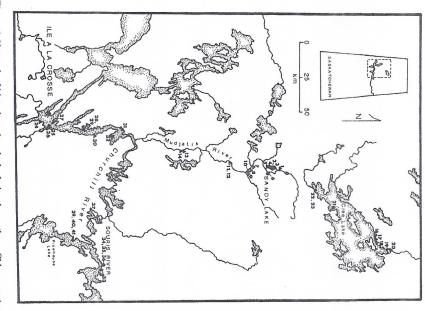


Figure 1. Network of historic archaeological sites in southern Chipewyan territory.

the humanistic dimension of native consultants' systems (Hodder 1982) by judiciously cultivating analogies (Gould 1971; VanStone 1971) and a conneeded balance in the collective deciphering of the obtained (Brumbach and Jarvenpa 1990). These postprocessual search for meaning in past cultural Janes 1983), our research also seeks to extend the cern with site formation processes (Binford 1978) approach combines the use of direct historical past. While our general ethnoarchaeological Western academically informed views, providing native interpretations often challenged our own, past behavior, and meanings of past behavior, were tants or their ancestors-provocative insights on and features often created by the specific consuland structural features at historic sites-artifacts By asking the Chipewyan to interpret artifacts

separate and legitimate area of inquiry unto itself, narratives. In this sense, ethnoarchaeology can be a for prehistoric archaeologists (Simms 1992). not simply a source of analogs and cautionary tales

Bay Company Archives. sources such as fur trading-post journals and busi-Finally, we incorporated corroborative data network of 41 recent historical sites (Figure 1). standing archaeological formation processes at a cally integrated as an analogical guide for underpatterns and food consumption) were systematiness account book material held in the Hudson's Analyses of ongoing behavior (such as hunting

### Research Issues and Methods

early 1990s involved mapping features and inven-More recent ethnoarchaeological research in the

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torying surface artifacts at additional historical sites on Knee Lake, Saskatchewan, a major lake expansion of the Churchill River in southern Chipewyan territory. Interpretation of these sites was aided by both Chipewyan women and men. These informant/consultants were able to speak with authority on their past lives at the older sites and on the meaning of the archaeological residues. In addition, maps were made of selected contemporary settlements.

Chipewyan consultants were shown site maps prepared both in 1992 and in previous years of this research and were asked to identify former houses, storage facilities, and locations where specific activities were carried out and material discarded. Larger-scale geological survey maps of the Upper Churchill River, Mudjatik River, and Cree Lake drainages also were used to record more distant and dispersed fishing, hunting, and trapping locations. The purpose of this exercise was to learn more about the structure of the sociospatial organization of gender and to determine whether women and men used space differentially and, if so, in what ways.

The major sources of locally procured bush food for the Chipewyan in our study are moose, caribou, rabbit, beaver, muskrat, several species of fish (we concentrated on whitefish and lake trout), and waterfowl (we selected ducks) (Jarvenpa 1980). Plant foods do not play a major role in terms of absolute caloric contribution, but in order to balance the overwhelming emphasis on animal products, our analysis included berries, as one form of plant food, and a general category of nonfood plant resources that included bark (for baskets and other containers), moss (baby diapering), and medicinal plants, among other floral resources.

For each of the foregoing nine resources or "resource clusters," we observed and queried consultants about a comprehensive system of tracking, capturing, and processing. For example, our informants' ultimate rendering of the "moose system" included locating or tracking, killing, field butchering, transport to the place of habitation, distributing or sharing of meat, final butchering, thin cutting of the meat, meat drying and storage, food preparation, hide smoking, and other uses of antler, bones, and fat. Other resource systems emerged with their own distinctive pathways, thus producing extensive information on a range of

activities through which animal and, to a lesser degree, plant products passed.

In this fashion, information for each of Spector's four dimensions, with respect to all nine resource clusters, was recorded. For some activities, our informants were able to demonstrate with the actual tools and facilities, while other more distant activities were explained verbally. Direct observation of ongoing hunts or other economic enterprise was possible in some instances. Maps were made of selected settlements and camps with their associated work areas and features, including locations of hunting areas, traplines, rabbit trails, fishing zones, initial butchering-processing local, and final butchering-processing-storage locales, among other things.

## Gender and the Definition of "Hunting"

archaeological record. The women with whom we features, and residues that form the basis of the whether hunted, trapped, or netted. We also learned production of all animals and animal products in the meat acquisition process, which includes the other matters (Jarvenpa and Brumbach 1995). vious knowledge concerning the complex tures and facilities. We also added much to our pretoolkits, and invested in the construction of feaworked expressed profound interest in tools and about women's roles in the production of artifacts, from our project concerned women's participation Perhaps the most interesting insights emerging bone grease, and usage of medicinal plants, among processing and storage of dry meat, animal hides, technology and procedures involved in women's

The importance of women's processing and "transformation" skills, or the conversion of animal carcasses to edible meat, clothing, and other usable products, is too easily overlooked by researchers (Isaac 1995:3). In archaeological interpretations, the focus of attention is often on the kill, most stereotypically carried out by a male hunter. This myopia concerning the role of women, both as producers and as processors, has been a major contributing factor to the construction of an androcentric archaeology.

In addition, as Isaac (1995:4) has pointed out, the reduction of "economy to ecology and this latter to caloric transfers is partly responsible for a skewed view of !Kung (among other foraging groups) subsistence." What is lacking is the recog-

nition that hunting production extends well beyond momentary acts of procurement (Isaac 1995;4). Indeed, Isaac attributes slighting of the processing aspect of production to the urban, middle-class, postindustrial background of most contemporary anthropologists, a life expenence in which little domestic processing of any kind occurs. Processing activities involved in the production of food and clothing may well be lost "to a generation of urban-industrial anthropologists who microwave their processed foods and dress from The Gap" (Isaac 1995:5).

ered. Consciously applied or otherwise, the conceptualization of "hunting" should be reconsidof both women and men in foraging societies, the quarry, the sport-hunting model obsesses on the ate. With its fascination for the lone hunter of large Western sport-hunting model is highly inappropriis most appropriately seen as "hunting," an enterpreparation, and logistics preceding the kill and the the act of killing from a complex system of travel, moment of the "kill," falsely isolating the hunter female and male labor in any foraging society. necessities of life and requires interdependence of prise that produces food, clothing, tools, and other ing following the kill. The full spectrum of activity intricacies of butchering, processing, and distributfrom family and society. It also falsely separates In order to represent more accurately the roles

of individual animals harvested, and counts of emphasizes projectile points, minimum numbers record. A male-biased archaeological record to little more than a series of "kills," this narrow in reducing complex hunting-gathering economies view diminishes the recognizable archaeological smaller residues, which are the testimony of comracks, postmolds, and other features, as well as hearths, storage pits, roasting platforms, drying sites can be characterized by the presence of "male hunters." In reality, however, archaeological prehensive provisioning process are frequently plex and lengthy processing of animal products. dominated by women. These latter aspects of hunting as part of a com-Aside from the conceptual distortion involved

## Women's Participation and Life Cycle Dynamics

As noted previously, our Chipewyan consultants reported that women as well as men participated

mals. However, as hunters in this restricted sense, as hunters in both the pursuit and capture of aniwomen's roles were influenced in ways and younger women appear to have been quite active, processes that either did not affect men or ticipated in hunting, much of this was related to impacted men differently. One of these factors is active, either alone or with their husbands or other During their twenties, many women remained often as apprentices or partners to older relatives. age and family responsibilities. Adolescent and variation in the intensity with which women par-1997). While there was considerable individual life cycle dynamics (Brumbach and Jarvenpa naled a decline in long-distance travel for purpregnancy or increased family responsibilities sigrelatives. For many women, however, advanced apprentice/helpers. ters, nieces, or granddaughters were taken on as husbands and with other relatives. Often, daughwide range of hunting activities, both with their women often increased their participation in a following a decline in child-care responsibilities, poses of hunting. In their middle and later years,

emerged with the expansion and intensification of size and number of children reared. This trend in this century. Census data reveal a significant nineteenth century, and family size has increased the European fur trade economy throughout the female mobility is increasing Chipewyan family of 1-8 in 1906 (Canada 1966), to 4.8 children with grown from 2.8 children with a range of 1-5 in historical increase in number of children reared a range of 1-12 by 1974 (Canada 1974). Because per adult Chipewyan woman. The statistic has average number of children born to a woman in least one child. This statistic is not the same as the Chipewyan woman in our study area who had at average number of children for each adult documents, we have been able to calculate only an of a lack of comparability in the various census 1838 (HBCA 1838), to 3.1 children with a range responsibilities of women in their roles as mothers and, concomitantly, an increase in the domestic the course of a lifetime. Nonetheless, these figures demonstrate a substantial increase in family size and child-care providers throughout the post-con-A second factor that has had an impact on

tact period.

A third factor that has had an impact on female

Table 1. Typology of Southern Chipewyan Hunting Teams

|                           | All-male<br>Male-female<br>All-female |                                    |                                |                                       | 7  |
|---------------------------|---------------------------------------|------------------------------------|--------------------------------|---------------------------------------|--|
| 0 7                       | restricted distance and limited range | medium distance and moderate range | long distance and amount opace | Travel Distance and Procurement Space |  |
| common throughout history | less common in recent history         | more common in recent history      | Historical Occurrence          | A.F.                                  | O THE STATE OF THE |

ities. This state of affairs was common into the erratic years of education in distant boarding facilnever attended school, while others had only a few Chipewyan. Even then, however, many children recognition of the English River Band of negotiation of Treaty No. 10 in 1906 and the legal sored formal education did not begin until after as the late nineteenth century, government-sponschooling was available for some children as early schooling for grade-school-age children. While and, to a lesser degree, male mobility is mandatory

activities in all-male task groups. fathers conduct far-flung hunting and trapping increasingly centralized in residence, while their In turn, the mothers of these children have become replaced by all-male hunting-trapping teams. This Patuanak school expanded to include grades K-9. trend has continued. By the early 1990s, the the early 1970s, for those Chipewyan with schoolwinter movements was increasingly curtailed. By nomadism were nearly completely phased out and age children, older systems of seasonal family lifestyle involving prolonged and long-distance tives. For most families, however, a highly mobile while sending schoolchildren to board with relaued to follow a seasonally nomadic way of life drainage systems. Initially, some families continments in the Churchill River and Cree Lake had previously occupied smaller seasonal settleother services became a magnet for families that nity of Patuanak. This school and a complex of school for grades K-6 in the Chipewyan commuwith the opening of a government-sponsored day The situation changed dramatically in 1968

nization of hunting behavior. tinctions as they are manifested in the spatial orga-Ensuing sections of this paper examine these disterning of female and male hunting activities. years, other profound contrasts remain in the patently on women and men over the past 100-150 and the Canadian state have all impacted differchange, the European fur trade, missionization, While life cycle dynamics, demographic

# Sociology of Chipewyan Hunting Teams

portrayed as several distinctive types: (1) all-male, ethnoarchaeology, however, these teams will be order to further our understanding of gender and (2) all-female, and (3) male-female. and members' ages and family-kin affiliations. In multifaceted, including such things as group size, mation and composition are complex and tial organization. The factors affecting team forfood animals are highly variable in their sociospainvolved in the actual pursuit and harvesting of Among the southern Chipewyan, the task groups focus upon the procurement side of this spectrum. processing, and distribution, we will momentarily logistics, preparation, travel, killing, butchering, hunting that incorporates a complex system of Although we have argued for a broad definition of

lages, or centralized settlements. resources within a restricted range of camps, vilwomen continue to procure rabbits and other fairly stable presence in the bush economy, as found changes, all-female teams have remained a villages and encampments. Yet, despite these prowithin a modest distance of seasonally occupied once commonly hunted moose, for example, frequency of the mixed male-female teams who male hunting-trapping teams while curtailing the magnifying the importance of long-distance, allover the ensuing 50 years has had the effect of A general decline in seasonal family nomadism encouraged a more sedentary existence for the zon. A constellation of government programs Chipewyan in the central settlement of Patuanak economic impacts. The period between World War Two and the mid-1950s is a significant time horihas varied in accordance with shifting political encampments, and their relative importance or prominence during particular historical periods spatial ranges with respect to villages and hunting teams operate at different distances and As noted in Table 1, these variably gendered

("partner," "my partner") can be used as a form of At a symbolic level, the expression sits'eni

> narrowly to the task at hand. dyads, "partner" is a subsidiary identity restricted brother-brother, or grandmother-granddaughter close family members, such as husband-wife, hunting and work. In hunting teams composed of such cases, "partner" can imply friendship and cial shades of meaning when team members reciprocal bonds that extend outside the domain of kinship connections are distant or obscure.' In derive from different family households and when form of address, however, "partner" conveys spethe work being performed. As a social identity and to one another as sits'eni, at least in the context of joining forces on a mid-winter trapline, may refer muskrats or to make moosehide, or several men cussed. Thus, two women teaming up to hunt address by members in any of the team types dis-

the way that gender dynamics structure archaeotypes. In turn, such patterning has implications for behaviors and locational patterns of the three team Ensuing discussion considers the harvesting

of people, which emerged in recent years, on the manent central place of Patuanak, with hundreds families (or about 20 to 50 people), distributed (eyana'de), containing 5 to 10 bilaterally related staging communities or domestic settlements a dual reference: one of the many small winter a community. "Community" in this discussion has ability usually derive from different households in equivalent age, experience, and decision-making World War Two, on the one hand, or the large perthroughout the Upper Churchill region before ers, team members may derive from the same household. However, male partners of roughly sons, or older brothers instructing younger brothtwo or three men. As in the case of fathers training All-male partnerships typically are comprised of

and caribou, (2) intensive fishing operations that (3) hunting-trapping operations, of several weeks may last from several days to several weeks, and to a few days, of large mammals such as moose term concentrated hunts, lasting from a few hours tasks that take them away from their families to partnerships to accomplish a variety of hunting distant bush locales for variable periods: (1) short-Regarding either context, men have formed

> variety of large and small mammals, fish, and birds for domestic food consumption. to several months duration, which intertwine the fur-bearers for market trade with the capture of a pursuit of about a dozen species of commercial

1) on the northern shore of Cree Lake: hooked" (Cree Lake 16 archaeological site, Figure community known as luecok'je be, or "big fish trapping forays out of a multifamily winter staging example, a Chipewyan man recalls his hunting-Referring to the general period of the 1930s, for

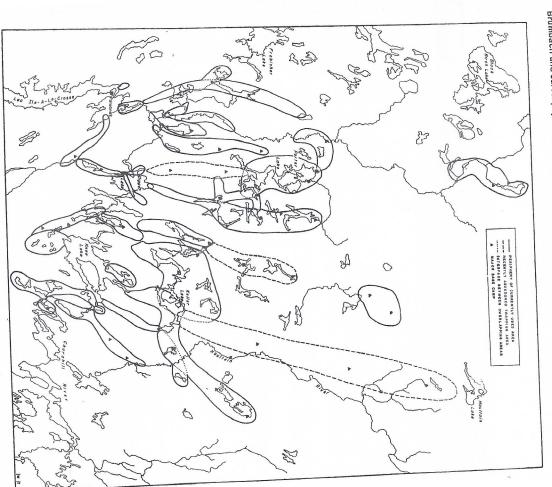
first. Then later Edward Lynx (his sister's husband), and later Prosper Deneyou (his wife's different partners. Jacob Stonypoint was the to my cabin takes two or three weeks. . . . I had Engemann Lake. . . . Round trips like that back Pipestone Lake and Lloydsmith Lake. Then to north and northwest to Kercher Lake, James Lake, up to Weitzel Lake. Then over to From the north end there, I went trapping

a large lake 45 linear km to the northwest, or about by wives and other female relatives. skinned pelts for further handling and processing ments of rough-butchered caribou and roughly tive family households at *luecok'je\theta e* with segthree weeks, the partners returned to their respec-90 km by actual dog-team travel. After two or interconnected lakes, streams, and esker ridges to The team<sup>2</sup> in question traversed a network of

another Chipewyan man recalls: could occur within a rather restricted radius of the once again to the community at  $luecok'je\theta e$ bou herds were particularly abundant. Referring bly intensified during years when migrating cariwinter staging communities. Such patterns proba-Nonetheless, some all-male hunting activity

would hunt to the north of *luecok jeθe*...As soon as I shoot them with a .30-30 rifle, I enough to feed my family for awhile. Mostly in 1931-32. But in 1933 they came in great numbers. . . . Then I would go hunting by myself take them back to camp. butcher them and let them cool off and then on dog team. I would look for a caribou trail large herds, I would only take 4-5 caribou, them for 2-5 miles. Even though there were and follow that until I saw them. I would track At first there were no caribou at Cree Lake,

much of the period between late October and mid-April finds all-male teams in a state of perpetual Regarding the bush economy of recent years



bearing mammals are discarded after skinning, as portions of a large animal, like a moose or caribou, food, but the process of discard often reduces the are some body parts of mammals butchered for are conventionally transferred from the kill site and visibility of these materials. For example, major of butchering, thin cutting, and smoke drying. central village where women handle the final stages hunting encampment to a domestic settlement or

ment with ment areas may be difficult to locate and docuencampment networks, and their respective catch-While the residues of hunting encampments, conventional archaeological

°o Lynx Seis

Figure 3. Internal organization of an all-male hunting-trapping area.

procedures, their properties can be inferred from contemporary counterparts. The testimony of analogy is warranted. Thus, while the locations of sent century, suggests that use of direct historical winter hunting camp life spans much of the preelderly Chipewyan men, whose involvement in sonnel have changed considerably over the specific hunting-trapping operations and their pertheir encampments was obtained through active remained fairly constant Indeed, much detailed teristics of all-male hunting-trapping teams and information on the spatial and behavioral characdecades, the principles of their organization have

their work within hunting-trapping areas via a netfamilies for further processing. Teams coordinate centralized village), as they funnel materials to their between hunting camps and domestic settlement (or travel within their far-flung hunting areas and

204

Figure 2. Distribution of southern Chipewyan all-male hunting areas used in the winter.

work of several evenly spaced hunting encamp-

other features than a hearth. The remains of furstructure is a portable hide or canvas tent, with few liminary processing facilities whose central ments  $(no\theta i)$ . These are overnight lodging and pre-

participation ethnography in the 1970s (Jarvenpa

or partnerships for winter hunting and trapping. early 1970s. At that time 76 Chipewyan men from the km<sup>2</sup> in extent, with a mean size of 112.6 km<sup>2</sup>. tlement, the 31 hunting areas ranged from 6.5 to 297.6 Radiating north and northeastward from the main setcommunity of Patuanak were organized into 31 teams hunting-trapping areas (it'suzetelakeyaye) in the For example, Figure 2 depicts a configuration of

areas was 57.3 km, about half the actual onground travel distance mean linear distance to the farthest point of all middle-aged men, were up to 123.9 km away. The managed by the most energetic and experienced tance from the main settlement. The smaller areas, few as 6.4 km away. Large remote areas, usually long-distance travel, were closest to Patuanak, as generally occupied by elderly men retired from Likewise, the men's hunting areas varied in dis-

der of the Ptarmigan family situated in Patuanak about 66 linear km to the south. hunt were periodically transferred to the remainof it accomplished by walking. Products of the age travel distance of nearly 34 km per day, much sue larger game. These activities required an avertraplines (it'suzitonlue) for furbearers and to purtion in order to monitor a far-flung network of every three days the team changed its camp locaand labyrinthine lakes and lakeshores. About bog, barren rock outcroppings, streams, ponds diverse patchwork of boreal forest, treed muskeg. in an area encompassing 202 km² (Figure 3). Like most larger winter hunting areas, it embraced a tained a circuit of six winter hunting encampments the early 1970s the two Ptarmigan brothers maincan be considered at a finer scale. For example, in Spatial dimensions of all-male hunting teams

eth centuries (Jarvenpa and Brumbach 1988:607). Chipewyan in the late nineteenth and early twentialliances that prevailed among the southern geographical mobility and flexible residential of change obviates rigid ownership of welldefined territories, and it is consistent with the hunting areas every two to five years.3 This degree areas. Both are ephemeral phenomena, and in idity with respect to hunting teams and hunting ners every three to four years and shift winter recent years most men acquire new hunting part-Life histories of men exhibit considerable flu-

All-Female Teams

afford good fishing and access to other animal seasonally over a period of years. These site locaments established for a few days to a few weeks, ment. These habitations may be tent encamp-Resource acquisition carried out by one or more resources. open-water travel routes adjacent to areas that or more permanent log cabin structures occupied from a camp or more permanent seasonal settlewomen is usually done in the context of day trips tions are selected usually because they are along

snaring with her mother ca. 1945: by all-women teams. One woman describes rabbit the smaller size of the resources generally targeted at the location of the kill. This is a consequence of at the settlement, since little processing takes place butchering or processing are more likely to end up consequence of such behavior is that residues will mother-granddaughter pairs. One archaeological team up with other family members. Two common be distributed within a few hours or a day's travel arrangements are mother-daughter and grandfrom a settlement. Residues that result from While some women hunt alone, most women

a meal, make tea from snow, and have some especially hunted rabbits in winter. and keep them frozen in a shed outside. We sometimes gut them and leave the hair on them other rabbits back home whole. She would end of the trail my Mom would kill a rabbit for a little trail where we went. From our house we bannock. We used snares. We would bring the one time that way. I was 17 years old. . . . At the snares. She would kill 7 or maybe 11 rabbits at would cross a lake and go into the bush in winter, and my Mom would put out the rabbit I used to hunt rabbits with my Mom. We had

perhaps a small rack by the fire to suspend a tea site, residues would include the rabbit bones, and match that of moose, they are more widely disreturned whole to the seasonal village. At the meal bility of rabbit acquisition is severely limited. In Despite their importance, the archaeological visibit consumed in the meal, the animals were the example above, with the exception of the rabtributed and can be taken on a more steady basis. tion to the diet in terms of overall weight does not and are a subsistence staple. While their contribu-Snowshoe rabbits (Lepus americanus) were

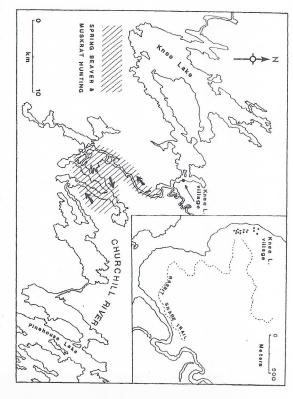


Figure 4. Spring beaver-muskrat hunting route of an all-female team. Inset: women's daily rabbit hunting trails

casın liners. skin was used to make woven blankets and mocmeat, or permission, which can be stored, and the Rabbit meat was sometimes processed for dried activities could also take place at this location. remains of the storage shed. Additional processing (cooked but not broken up for bone grease) and the residues would include additional rabbit bones pail. At the habitation site, the archaeological

along margins of lakes and streams. The trails are then trails in new areas are established. a total distance traveled of 3.2-7.0 km (see inset of along trails measuring ca. 1.6-3.5 km one-way for used repeatedly until productivity falls off, and of muskeg (in winter) and spruce thickets, and Figure 4). Preferred locations are through patches imity to seasonal domestic settlements, that is, Most rabbit hunting takes place in close prox-

as a young girl of 15. ing of the rabbits took place at the residential setwomen check their rabbit snarelines as part of tlement. The same individual also recalls fishing distance of 6.4 km round trip. All of the process-(due in part to her parents' infirmities) traveling a reported snaring rabbits alone at the age of nine their regular domestic chores. One woman Some individuals snare rabbits alone. Many

> trozen fish to clean them. nine years old. We'd pour hot water on the a big family with my little brothers and sisters. lines at 5:00 AM. My brother was only about fishing in the morning to check the running l used to put my brother in a toboggan to go ice I used to go fishing in the winter too. I had

and storage of whitefish and pickerel. retain some evidence of the processing, cooking, able from that location, but the settlement would archaeological consequences would be recoverunder-ice gill nets on a lake within a couple of kilometers of the family's seasonal settlement. No In this case, the fishing was managed with

ences beaver hunting in the 1960s: skills necessary for hunting and processing of anicare of their grandparents. In these often enduring dren, older children were frequently in the partial mal products. One woman describes her experirelationships, young girls acquired many of the where the mother was busy raising younger chilgrandmother-granddaughter. In some families, Another common team composition was that of

my Grandma for one day in a small canoe for beaver and muskrat hunting in the spring time. band. But before marriage I used to paddle with I have gone beaver hunting with my hustrapped and shot

Sometimes my Grandma made me shoot them, but often I missed. But I always caught them with traps. We used mainly traps and guns. After that, I always went with my husband. We would go on the same trail, yet we each individually set our own traps.

If you want to eat the meat you must take the guts out right away. Otherwise it rots. You can use any type of knife, maybe a one foot long knife.... Later at camp, you take the skin off, and then cut the meat up into small pieces and put them on a smoking rack.

Again, the material consequences of the hunting of small mammals will be difficult or impossible to recover at the actual loci of the kills. Most of the processing takes place at a temporary hunting encampment or a domestic settlement where features—hearths, smoking racks, and storage facilities—are located. Tools such as knives, stretching racks, and bone scrapers are more likely to be used, and discarded, at such places.

The same woman reports hunting muskrats when she was as young as seven or eight years of age. In many respects, muskrat hunting mirrors beaver hunting. In this case, the location was one of a series of small lake expansions along the Churchill River downstream from a seasonal settlement at Knee Lake (Figure 4):

I learned from my Mom and Grandma how to trap these animals and how to skin them. Each woman had her own place for trapping so that it wouldn't overlap with brothers' or sisters' places. I would travel down the Churchill River in a canoe with Grandma to Dreger Lake, past Wagahonanci. I was 7 or 8 years old. We used an old-style wood-frame canoe.

After trapping muskrats, you take the guts out, take the skin off, and then smoke the meat a little before boiling. We also share the animals with neighbors. Like beaver, we give away the whole animal because of the small size. You dry the meat on a smoking rack, but do not thin-cut or pound the meat. Then you hang up the meat in a cloth bag in a storage shed.

In this case, the travel distance from the settlement is considerably greater than for rabbit or fish forays, approximately 16 linear km or about 32 km in actual river travel. Of course, all-female movements of this scale are facilitated by hunting canoes, and such trips occasionally require overnight stays.

The archaeological consequences are very sim-

ilar to the previous cases, except for the production of short-term camps for meals or overnight stays. These remains would consist of one or more hearths (one for cooking and often a second one for smoking meat) at each location, along with small temporary drying racks and some of the bones of the animals that had been consumed for meals. Of course, more permanent or fixed facilities, such as cabins, storage sheds, large drying racks, and related features would not have been constructed at the overnight encampment. The bulk of the skinning, butchering, and processing would be carried out at the seasonal domestic settlement on Knee Lake, and it is at this location where most of the residues would accumulate.

Rather similar in distance requirements to rabbit and other small game hunting is women's procurement of plant resources. While the Chipewyan do not consume much locally procured plant food, they collect a variety of plant materials for non-food purposes, including fuel woods for heating, wood for dwellings, storage buildings and tools, medicines, baby diapering and other hygienic uses, basketry and other containers, and special fuels for hide smoking. Plant gathering is done individually as well as with other family members and is most commonly done as a day trip within a few kilometers of a seasonal domestic settlement. One woman describes berry picking as a young girl living on Lac Ile-à-la-Crosse in the 1920s and 1930s:

We harvested a lot of berries. It was part of life in my young years. A lot of us went for berries together, mother and sisters, and off and on with my brothers when we were young. In summer time we used to go north on Lac Ile-a-La-Crosse to various places. If not far, we went by boat to harvest for a day, just a few kilometers away.

Although berry picking did not involve the use of special artifacts or features, the collection and processing of certain other plant materials did. Another Chipewyan woman discusses the construction of special features involved in the use of moss for baby diapering in the 1940s:

There was a special moss, a yellow amber moss on the surface of the muskeg. We would hang it on trees to dry off. On each trek for moss we would dry more of it. We would make a tripod of trees and hang it on that to dry. I

raised my babies on that moss diapers. . . . You can find this moss about one kilometer or less away, or "one stick" or one yard in Chipewyan

usage.

We used to store the moss in a cache made out of trees or saplings bent over into a corral to make a protective covering. We would make the cache in the gathering area. You can do all this by hand, except for chopping the trees down with an axe.

### Male-Female Teams

Before World War Two, men and women often worked closely together in a variety of bush contexts. Occasionally, the residents of a winter staging community or domestic settlement became quite mobile, with groups of related families traveling together for much of the winter in a concentrated pursuit of barren-ground caribou. While males often performed the actual killing, husbandwife partnerships facilitated the timely and uninterrupted flow of travel, tracking, killing, butchering, processing, and meat distribution, that is, the integrated components of "hunting" in its most comprehensive sense.

In the late 1930s, for example, the Chipewyan families occupying the winter staging community of enadezediati ("Cree River") (Cree Lake 19 archaeological site, Figure 1), near the outlet of Cree River on Cree Lake's northeast corner, pursued this strategy. Gilbert Whitefish, who was a nine-year-old boy and an apprentice hunter under his adoptive father's (and paternal uncle's) tutelage, comments on the situation at that time:

In those earlier days the whole family would go hunting together in the bush all winter. But that system was gone by the time I was married (1957). Then only men would go out. When I (1957). Then only men would go out. When I was a child we would move the tent wherever those caribou moved, and we trapped at the same time. . . . Several families, five or six, would travel together in tents, staying together. would travel together in tents, staying together. Would travel together. . . . Almost 30 people camped together. We would only hunt caribou beginning in late October. They stay there all winter, but move around looking for feed. Then the caribou would go back north in

After killing the caribou, you cut it up right there and haul it back to the tent. From there it's the woman's job. We skin it with a knife and use an axe to cut the bones. I brought the caribou back to camp with a dog team. ... At camp

the women make dry meat.... We used to make bags out of caribou hide and put the meat in there... Women would work together to process and make dry meat, egune. Each family made its own dry meat. The women also made the caribou hides.... They used to have a tepee-shaped smoking rack, and the meat would be cut up in long dried flat strips to dry in the fire.

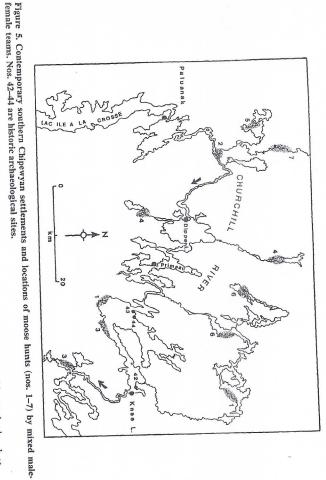
While this group of families departed and returned to their wintering base at *enadezediaii*, their travel circuit embraced a large region proceeding north to Pasfield Lake, then east toward Unknown and Waterbury lakes, then southwest to Close Lake and ultimately back to Cree Lake. This entailed a round-trip of nearly 300 linear km, closer to 600 km in actual travel.

Most reported examples of male-female hunting teams involve husband-wife pairs, although cases of father-daughter, grandfather-granddaughter, and other team combinations are known. As in the preceding example, such teams tend to concentrate on the pursuit of large mammals such as caribou and moose, but other resources can be involved.

Distances traveled by male-female teams tend to be greater than that carried out by all-female teams, particularly when moose or caribou are pursued. However, the spatial organization of hunting for moose, and especially caribou, has been uniquely transformed by the increasingly sedentary settlements of the post–World War Two era. A woman discusses some of these modifications

I never killed a moose. Just my father of husband [killed moose]. My husband might go for 10 miles out of the village. In summer, maybe he stays overnight, maybe portage a canoe to another lake. If he kills a moose, he brings a little bit of meat home. The next day there are two ways to do things: either men go to pick up the rest of the meat, or the women and the whole family go to make dry meat where the moose was killed. The second way was more common in the earlier days and in my early marriage. But later, after my first child, I did not go out. It was tough with a little baby. Nowadays, we always do it the first way.

The archaeological consequences of the two strategies are quite different. Following the earlier strategy, the archaeological impact of hunting activities would be less concentrated on the landscape; the impact would be seen as a large number



of widely dispersed but small concentrations of of a smaller number of cultural locations. Despite artifactual material would become more centralresidues at temporary hunting encampments. moose remains, artifacts, features, and other Nonetheless, a reorganization of the spatial of the subsistence economy had not changed the foregoing modifications, fundamental aspects thereby magnifying the archaeological visibility ized at seasonal or semipermanent settlements, Derivative of the later strategy, archaeofaunal and archaeological record. Further implications of the labor had a major impact on the formation of the dimension of Chipewyan men's and women's Moose retained their importance as a resource two strategies will be discussed later in the paper. Between the extremes of short-term encamp-

and hunting into more remote areas. several months by clusters of bilaterally linked the seasonal domestic settlements occupied for the permanent central village of recent times, are ments occupied for a few days to a few weeks, and families, which serve as staging points for travel Seventy-year-old Josephine Lynx had just

band when she made the following observations: returned from a moose-hunting trip with her hus-

> it up in the bush. When I got back to camp, I early in our marriage. But I wouldn't go huntalways have hunted with my husband since for two days, sometimes for up to a week. I Keller Lake and around Knee Lake, sometimes the moosehide. Sometimes I would get help and making all the dry meat, as well as making would be the only one to do further butchering pulling the moose out of the water and cutting ing after the third or fourth month of pregnancy riage, we would not haul the moose to Knee or another woman. In the early days of marwith hide making, like from my oldest daughter village for further butchering started about 35 because it was hard to carry things a long ways. and hide making and all that in the bush, Lake village, but instead do all the butchering years ago, around 1957. The changeover to bring the moose back to the I go moose hunting with my husband I would help, together with my husband,

km (Keller Lake). The archaeological consedistances ranging from 20 km (Knee Lake) to 45 female moose-hunting trips involve one-way travel and sometimes one or more children, camped durthe kill site and several small sites where the couple, faunal and artifactual remains deposited at or near quences of such hunting endeavors include some As indicated by locations in Figure 5, male-

> storage facilities) have relatively high visibility. associated features (drying racks, smoking hearths, cessing would take place. These activities and their tlements, like Knee Lake village, most of the prohave a very low visibility. At seasonal domestic seting the hunting trip. These small encampment sites

granddaughter pairs. One woman reported moose teams, such as father-daughter or grandfathersome moose hunting was also carried out by other age 17 and moving to another community, she and seasonal staging communities. After marrying at were usually short-term forays from one of the was between the ages of 14 and 16. These trips hunting with her father in the mid-1940s when she moose for periods of a few days to a week. whole family, traveled to other lakes to hunt her husband, sometimes accompanied by the While husband-wife pairs were most common,

or unrelated female and male partners, although and a visiting male, both in their fifties, conducted was in progress. A widow from that community example, a moose-hunting partnership of this kind the Knee Lake seasonal settlement in 1992, for itous arrangements. During our investigations at these seem to be infrequent and somewhat fortutrip covered an estimated 15 km. and marshes of Knee Lake's south shore. Their an overnight hunting trip along the bays, inlets, Some teams are composed of distantly related

and beaver, are pursued by female-male teams. One with her grandparents in the early and mid-1950s. 52-year-old woman describes hunting for muskrat Other animal resources, including fish, muskrats,

used to go with my grandparents to trap mustrats with metal traps, not snares. We muskrats with metal traps, not snares. birch bark baskets, square but tall boxes, taller than wide. She would use these to store the Mudjatik (Deer River). . . . When going out for would go trapping in Little Flatstone Creek and dried muskrat meat. Patuanak. . , . My Grandma used to make large Flatstone and then working our way up to again, all the way down to the mouth of Little days and then move the whole trapline, move it muskrat, we'd go out and camp for a couple We used to trap for fur, not only muskrats. I

involve travel distances of between 8 and 30 km domestic settlement. from Patuanak, at that time a seasonally occupied These trips of a few days duration would

In the preceding case, most archaeological

temporary smoking racks, would be deposited in residues, including faunal remains, hearths, and spring muskrats were generally harvested and briefly occupied overnight encampments, since transported whole (and frozen) to a seasonal setbutchered for immediate consumption rather than facilities, would accumulate at the latter site. tlement. However, some residues, such as storage

## Gender and Formation Processes

historic contexts generally. chaeological analysis that have implications for Several conclusions emerge from our ethnoarinterpretations of hunter-gatherer society in pre-

observed do not dispatch large mammals as frethe total enterprise of hunting. mammals, fish, and bird species. Indeed, the broader system of provisioning through pursuit, doing so), they are inextricably involved in the quently as do men (and are not prohibited from reality that women hunt.4 While the women we moment of dispatch is but a fleeting fragment in harvesting, and processing of large and small 1. One conclusion is the simple but undeniable

ment strategies, travel distances, and catchment of teams or partnerships implies different procureing is affected by gender. The social composition households in either the winter staging communiand trap in far-flung zones often dozens of kilomeareas. All-male teams, especially in winter, hunt overnight trip's travel from staging communities or well as via canoe paths within a day's or an radiating out a few kilometers from villages as round on a nearly daily basis, on short snarelines recent times. All-female teams hunt virtually yearties of past decades or in the centralized villages of ters away and many weeks removed from family centralized villages. Finally, mixed male-female radius of several kilometers of a contemporaneous moose-hunting forays of two days' to two weeks' during the summer and fall months, conduct husband-wife pairs and their children, especially teams occupy an intermediate position wherein quences since residues recovered from within a spatial behavior have direct archaeological conseduration in a radius of 10-45 km of staging comwomen's activities. munities or villages. These different patterns of settlement site are likely to represent the results of 2. Variability in the spatial organization of hunt-

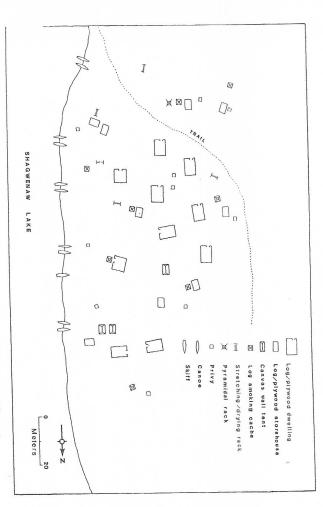


Figure 6. Women's and men's storage spaces in a contemporary Chipewyan settlement.

other temporary facilities housing a hunting party. rarely coincide with the tents, drying racks, and visibility when narrowly construed as killing. of butchering, processing, distribution, and storage and space from staging communities and centralactual loci of kills. In turn, both the kill sites and several meters to a half-kilometer away from the initial stages of butchering and processing, can be jointly by men and women who are involved in the dispatching larger mammals, actual "kill sites" While men tend to dominate the action involved in of food products. ized villages, the ultimate sites for the final stages hunting encampments may be far removed in time These hunting encampments, frequently managed 3. "Hunting" generally has poor archaeological

4. Conversely, "hunting" has considerable archaeological visibility when interpreted as an integrated system of travel, preparation, and logistics preceding kills and the intricacies of butchering, processing, and distribution following kills. Hunting behavior in this sense requires interdependence of male and female labor, and it generates both "kill sites" and "transformation sites," the latter consisting of a constellation of tempo-

rary hunting encampments, seasonal staging communities, and centralized villages where animal products are transformed into food, clothing, tools, and other necessities of life. Unlike the ephemeral loci of kills, "transformation sites" may be occupied for weeks, years, or decades. Fixed facilities at these locations such as houses, caches, platform and pyramidal racks, stretching racks, and smokehouses heavily reflect women's performance of thin cutting, smoke drying, grease making, and pemmican and hide manufacture, among other tasks. These repeated acts generate a fairly centralized distribution of archaeofaunal and artifactual remains.

5. While our analysis has stressed intersite differences in the use of space by men and women, there are significant intrasite patterns as well. Staging communities and centralized village sites serve as general-purpose curation centers for both women's and men's hunting implements and processing toolkits. Moreover, some of these gendertyped materials and features are sharply segregated spatially within settlement landscapes.

For example, in contemporary Chipewyan settlements, log smoking caches (loretthe kwae) are

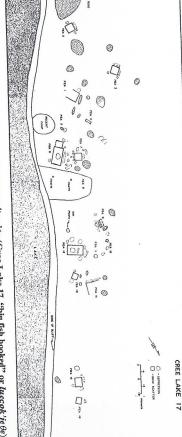


Figure 7. Historic Chipewyan winter staging community site (Cree Lake 17, "big fish hooked" or tuecok jeθe).

de facto women's spaces. Generally, each female head of a family household manages the smoke drying and storage of meat and fish in one of these detached structures. Located within 10 to 20 m of her family's dwelling, the same cache also serves as a center for safe keeping important pieces of a woman's personal processing gear such as pounding stones for pemmican, hide-making toolkit bundles, stretching racks, hatchets, knives, and babiche cordage.

By the same token, somewhat larger log store-houses or storage sheds (*t'asi thelaikoe*) are implicitly men's spaces. Also located within 10 to 20 m of the family dwelling, each male head of a household generally maintains his own storehouse for protecting and occasionally repairing his personal hunting equipment: traps, snares, axes, rifles, outboard motors, and related gear.

Figure 6 depicts the configuration of eight smoking caches and nine storehouses, and their association with other architectural features, in a small contemporary Chipewyan settlement. The conjugal pairs, or elementary families, comprising the 10 households here are closely linked by a network of primary bilateral ties. Since this contemporary village approximates the scale and social composition of many Chipewyan winter staging communities of the pre-World War Two era, its spatial properties may serve as an analogue for interpreting male and female activity areas for some historical archaeological sites in the region (for example, the 1940s winter community at site Cree Lake 17, Figure 7).

A key behavioral distinction is that the men's

spaces serve basically as storage for gear, which is deployed or activated by men outside the village in distant non-village or bush settings. Women's spaces, by contrast, signal both storage and active use of gear by women for processing food animals within the village landscape.

some cases, more than, by the nature of the subaffected by patterns of disposal as much as and, in established settlement for further butchering and affected by the decision to return the carcass to the archaeological consequences of women's mooseof the kill. By concentrating the residues and feaprocessing, as opposed to moving the community hunting and processing activities were greatly sistence economy. In the study discussed here, the nificant changes in the kinds or amounts of food ment, archaeological visibility is greatly tures in one seasonal or semipermanent settleand establishing a temporary camp at the location a major change in the formation of the archaeospatial dimension of women's activities resulted in resources utilized. Instead, a reorganization of the increased, although in this case there were no sigtoric archaeological record in situations where are characterized by increasing size and complexsites in the Eastern Woodlands of North America subsistence economy. For example, archaeological to appear without obvious transformations in the larger and more visible archaeological sites begin implications for the interpretation of the prehislogical record. This observation may have direct ity throughout the Archaic. Some of these changes 6. The visibility of archaeological remains is

may have resulted from the reorganization of

2. Moose-Hunting Formation Processes

| Male activity and materials           |   | Female activity and materials  |  |  |  |
|---------------------------------------|---|--|--|--|--|
| dispatch animals,<br>rough butchering |   | Kill Site Bush-Centered assist men   |  |  |  |
|                                       | dispatch animals,   | Villag   |  |  |  |
| assist women                          |   | lable 2. MOOSE-LULIUM & Village  E-Centered Bush-Centered Village fine bunchering, dry absent meat making, grease making, initial meat sharing and consumption     |  |  |  |
| huto                                  | initial meat<br>consumption   | Village-Centered<br>absent   |  |  |  |
|                                       | Bush-Centered hide making; penmican making, final meat distribution, storage and consumption assist women |  |  |  |  |
| a camp is not                         | assist women  | Village Site  Village Centered  Fine buchering, dry  meat making, greate at and permican bution, making, the making, meat distribution, of storage and consumption |  |  |  |

women's and men's labor as much as from changes in frequencies of subsistence resources.

Chipewyan territory since World War Two, includorganization of procurement discussed previously. ment, Patuanak, have distorted the sociospatial ing the emergence of one major permanent settlemammals, fish, and other resources in close proxas they have in the past, procuring a range of small While all-female teams continue to operate much tance as women and school-age children are tied mixed male-female teams have declined in imporimity to camps and domestic households, the central settlement. In this context, all-male teams increasingly to new services and institutions in the ing longer periods of separation from their family many cases traveling longer distances and endurhave become more prominent on the landscape, in households than in any previous historical period. 7. Political economic changes in the southern

### Conclusions

\_round village sites of recent times. These patterns eling to the kill site vs. bringing the kill to the major scenarios emerge. These are defined by the yields additional implications regarding gender The moose-hunting behavior discussed previously are referred to, respectively, as "bush-centered" key distinction of women being present at or travand archaeological formation processes. Two and "village-centered" hunts in Table 2. domestic settlements of former years or the yearwomen at some central location, either the winter

minimally, must be dragged several meters to dry weather, when moose are taken in the water and, hunting party. This is especially true in warm ing racks, and other temporary facilities housing a coincides with the site accommodating tents, dry-The actual location where a moose is killed rarely between the kill site and the hunting encampment. In both scenarios, a distinction is drawn

214

land for initial butchering. Even if a camp is not already erected, a hunting party may choose to wood and water, and good access to trails or water where there is adequate space for tents, sufficient half-kilometer for further processing at a site haul the rough-butchered carcass as much as a Brumbach 1983:178). routes, among other considerations (Jarvenpa and

and hunting encampments may be far removed in artifactual residues on the landscape. formation of both archaeofaunal materials and multitiered sociospatial arrangement structures the the distribution and storage of moose meat. This time and space from villages, the ultimate sites for As noted previously, however, both kill sites

drying, and grease making in a hunting encamphandle the bulk of the arduous thin cutting, smoke carded in the hunting encampment as large quanment. Some smashed and cut-up long bones, sections of rib cage and vertebrae, as well as use for a week or two until the families pack up hearths with their associated racks will be in heavy Several kinds of cooking and smoke-drying tities of meat are consumed by the hunting party. mandible, skull, and antlers are commonly disof meat may remain for distribution to other viland return to their village. Only a modest surplus tage families. In a bush-centered hunt, for example, women

tion of archaeofaunal and artifactual remains. For hide manufacture, as well as most meat distribuforegoing women's activity plus pemmican and returned the bulk of the animal to their wives in eral days in a hunting encampment. However, they butchered and consumed part of a moose over sevof Patuanak in the late 1970s, two men roughexample, during a village-centered hunt based out This generates a more centralized spatial distribution and consumption, play out in one location. In a village-centered hunt, however, all of the

Table 3. Shifting Chipewyan Gender Dynamics and the Forager-Collector Gradient

| Low site type variation   | Generalized daily food-<br>getting social units  | Low food storage      | High residential mobility     | Foragers                   |                       |
|---|--|-----------------------|-------------------------------|----------------------------|-----------------------|
| moderate site type variation:<br>residential base; location; field camp; station                            | specialized periodic food-getting task groups:<br>all-male:   day-2 weeks<br>all-female:   1-2 days<br>male-female: 2 days-several weeks | moderate food storage | moderate residential mobility | Bush-Centered <sup>a</sup> | Logistical Collectors |
| high site type variation:<br>large permanent settlement; residential<br>base; location; field camp; station | specialized periodic food-getting task groups:<br>all-male: I day-several months<br>all-female: I-2 days<br>male-female: I-2 days        | high food storage     | IOM LESIMEHITAL THOOPTEN      | VIIIage-Centered           |                       |

Note: General model adapted from Binford (1980).

Based on data for the Chipewyan before the late 1950s

Based on data for the Chipewyan after the late 1950s.

kin in 16 village households. helped distribute the meat among nearly 100 close Patuanak who completed the fine butchering and

ephemeral and least archaeologically visible men's behavior. While they tend to dominate centered hunts, there is a central consistency in during rough-butchering at these sites. The entire action at the kill sites, these are the most by men who are proficient with knife and axe. locales. Other than entrails, little is left behind returning to the same kill site, hunting implements Moreover, since there is a very low probability of process can be completed in less than two hours archaeologically from such contexts. and butchering tools are unlikely to be recovered It is noteworthy that in both bush- and village-

serve as general purpose curation centers for both gear (rifles, axes, skiffs, outboard motors) is really women's and men's toolkits. Yet, much of men's houses, caches, stretching racks, and smokehouses pied for years or decades. Fixed facilities such as or bush settings. The presence of women's gear in storage here, only to be activated in non-village moose in the village context. other hand, clearly signals active processing of scrapers, smoke houses, sewing machines), on the (pounding stones, hatchets, stretching racks, hide At the other extreme, a village site may be occu-

camps, but as we have seen, the frequency of allmale hunting parties has increased in recent encampment. Sometimes both sexes occupy such logical interpretation of gender is the hunting The most ambiguous situation for an archaeo-

centralized settlement have retarded the geographdecades. The emergence of a local school and a greater spatial separation of male and female tasks of prolonged processing and butchering of moose, number of years. As a general rule, any evidence repeat visits by moose-hunting parties over a a few weeks, their favorable locations can attract represent short-term occupations of a few days to Chipewyan. While the hunting encampment sites than experienced by previous generations of ical mobility of women particularly, fostering a such as the presence of upper leg bone as well as presence of women and larger family or multifamthe residues of hide-making tools, suggests the lower leg bone fragments, or more emphatically, ily hunting units.

in various ways for different heuristic purposes, cepts like "forager" and "collector" can be defined hunter-gatherer settlement systems. Although conthe Chipewyan data in terms of general models of to goods with frequent residential moves, while colamong other things, that "foragers move consumers Binford's (1980:15) well-known framework posits, Binford's approach has influenced numerous fewer residential moves" (emphasis added). lectors move goods to consumers with generally zation of space among hunting peoples. eled as part of a more comprehensive social organiit here to suggest how gender relations can be modand studies of hunter-gatherer spatial adaptations archaeological and ethnoarchaeological discussions (Le Blanc 1984:418; Stein Mandryk 1993). We use Our analysis may be extended by considering

toward more central-based logistical "collecting" away from highly mobile "foraging" strategies Chipewyan community at large has been moving work, it is apparent that while the southern roles. Men's work as logistical hunters of large game becomes exaggerated. Women's centralchange masks a growing divergence in gender behaviors and settlement strategies,5 this gross based processing of large mammals and harvestsystem of provisioning. tricably involved in hunting as a comprehensive Nonetheless, both men and women are still inexing of small mammals is likewise magnified. Employing Binford's (1980) analytical frame-

processes that move a population of collectors male hunting also sheds light on the nature of nomic in nature as Chipewyan children and their change were largely external and political ecocal organization. The forces that generated such village-centered hunts involves increased logistinization. Indeed, the shift from bush-centered to toward more pronounced forms of logistical orgamedical care, and increased family size. While the impact was intertwined with and mutually reinment-mandated education programs. In turn, this families became increasingly involved in governby which increased logistical organization tions in the central subarctic, they clarify one path history of Chipewyan-European-Canadian relainterplay of these factors may be specific to the forced by improved travel technology, Western Analysis of the spatial patterns of female and

ences in the structuring of the spatial dimension of construction and political economy than by affected more by cultural factors relating to gender processes that result in one pattern or the other are women's hunting activities. The decision-making recognizable archaeologically and reflect differspecial interest to archaeologists. not biopsychological "universals" or "givens" of hunters. Indeed, because the relevant factors are women's innate abilities or physical "prowess" as male and female constitution, they should be of Notably, bush- and village-centered hunts are

organized collectors (bush-centered hunt), and intensive logistically organized collectors (villagehunter-gatherer strategies: foragers, logistically (1980), Table 3 compares three generalized Following principles recognized by Binford

of only a few kinds of sites. By contrast, logistidaily food gathering social units, and the creation residential mobility, low food storage, generalized centered hunt). Foragers are characterized by high residential mobility, high food storage, specialized cally organized collectors are characterized by low logistically organized collectors. Yet, within this many kinds of sites. Clearly, the Chipewyan are periodic food-gathering units, and the creation of broad spectrum there are greater and lesser degrees of logistical organization.

positioned adult women at or near the loci of were transported a negligible distance as tempocommon in former decades. Products of the kill among some elderly hunting teams, it was more and drying of meat, and hide making, among other rary camps were established so that women could major kills. While this still occurs occasionally processing activities. Hunting for large game took immediately handle the butchering, thin cutting were moved frequently, especially during the winplace for much of the year. Residential camps narios would be most desirable. factors, often determined which of these two scethe processing. Women's life cycle dynamics, settlements or villages where women carried out moving major kills longer distances to seasonal back and forth between this pattern and that of Prior to World War Two, most families switched from some of these temporary residences as well. smaller game, bird, and fish species was managed kills of moose and caribou, pursuit of an array of ter months. In addition to the processing of major including family size, age of progeny, and related Older patterns of Chipewyan family nomadism

schooling and other government programs and rough-dressed furs to settlements for further proessary to return rough-butchered carcasses and evenly across the landscape. During these proaway from permanent settlements for periods of a tical planning in order to situate all-male teams bearers were conducted increasingly by young and services, hunts for large game and commercial furthe late 1950s with the expansion of mandatory longed hunts, periodic trips back home were necdistances were required to distribute hunters more middle-aged males. This involved increased logiscessing by women. In essence, this transition has few days to several months. Often, longer travel After World War Two, and accelerating after

> is distinctly larger than any of the preceding site contemporary communities like Patuanak, which created a new category of archaeological site, the "central permanent settlement," exemplified by

population to remain at this central settlement for enduring category of site. In order for part of the ated a larger, more visible, and possibly more kill-processing sites, the new strategy has genercreate short-term residences, overnight camps, and demands of the twentieth century by constructing nized. The Chipewyan have adapted to the must be increasingly mobile and logistically orgawhile women have become foragers who operate far-ranging, logistically organized collectors, cialized. Stated another way, men have become gender roles that are more divergent and more spemost of the year, another portion of the population on a nearly daily basis from a central residence. Thus, while both forms of logistical collecting

understanding past social systems. Whatever general processes, rather than rigid analogies, for prehistoric contexts, while keeping in mind that encourage changes from "foraging" to logistical forces (environmental, intersocietal, or internal) ethnoarchaeological research offers a guide to dence based on these forces and relationships are designs and interpretations of archaeological eviment space of the kind discussed above. Research in male and female hunting behavior and procurement, these forces will also likely generate shifts "collecting" strategies and to centralized settlehunter-gatherer society, a vision that more faithlikely to produce a more holistic understanding of past times and places. fully reflects the gendered nature of economies in The foregoing observations can be extended to

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southern Chipewyan's flexible bilateral community compothe year together in "winter staging communities" or families (or about 20-50 people) typically spent the bulk of Partnerships and teams operate in the larger context of the tion of all-female work teams. While more information is Brumbach et al. 1982:41-44; Jarvenpa 1980:128-132 in-law partnerships (Brumbach and Jarvenpa 1989:258-266; teams, as in the case of brothers-in-law or father-in-law/sonthat were prominent in many all-male hunting-trapping residence and bride service. The prevalence of cross-sex conlatter reinforced by a tendency toward short-term matrilocal ling relationships, particularly brother-sister ties, and by parent-child relationships, especially parent-daughter bonds, the elementary families were often linked to each other by sibtion of these communities. For example, conjugal pairs or eyana'de. Primary bilateral ties were important in the formatlement centralization, clusters of five to 10 interrelated sition and residential alliances. Prior to the recent era of setneeded in this regard, some feelings of reserve and shyness relationships appear to have been less common in the forma-142-148; Jarvenpa and Brumbach 1988:602-606). In-law sanguineal linkages provided a basis for in-law relationships 1928:41; McClellan 1975:410-436; Sharp 1988:129-131). in-law, appear to be neither as formalized nor as stringent as laws of opposite sex, probably limited the frequency of work Yet, avoidance behaviors, as between mother-in-law and sonpartnerships between such individuals (Smith 1982:20-25) between adult brothers and sisters, and between various inamong some of the Cordilleran Athapaskans (Curtis

2. All personal names in this article are pseudonyms. hunting teams is treated at length elsewhere (Jarvenpa 3. Variability in social composition, leadership dynamics, 1977:233-235, 1980:143-146). and allocation of labor and resources for Chipewyan male

trasts between "restricted wandering" and "central-based 5. The essence of this distinction was captured in earlier conwomen hunters among Canadian Inuit groups, but emphasizes (1995), among others. Briggs (1974:270-271) also discusses Estioko-Griffin and Griffin (1981) and Jarvenpa and Brumbach the scope of this paper, but for ethnographic studies, see 4. A full review of the literature on women as hunters is beyond wandering" (Beardsley 1956; VanStone 1974). that such behavior is more commonly associated with males.

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