Coast-inland Mobility during the Early Holocene in the Semiarid North of Chile: La Fundición Site

Donald Jackson, César Méndez, and Antonia Escudero

➤ Keywords: Mobility, hunter-gatherers, semiarid northern Chile

In the semiarid north of Chile, the first coastal human occupations are regionally known as the Huentelauquén Cultural Complex (Jackson and Méndez 2005; Llagostera et al. 2000). These contexts show a first phase (13,000–11,000 CALYBP) with a clear coastal adaptation, while in a second phase (11,000–9000 CALYBP) evidence shows humans being more hunting oriented, with settlements being located along ravines that connected coastal, inner valleys, and mountain range environments (Jackson and Méndez 2005).

Within this framework, the La Fundición site is located in the inner valley of Chile in the semiarid region (Lat. 29° S.), 60 km from the coast. The site shows an extensive hunter-gatherer residential camp with strong typological links to the Huentelauquén Complex (Castillo and Rodríguez 1978; Llagostera et al. 2000).

The archaeological deposit of this settlement is 70 cm deep, without significant changes in the stratigraphy. However, two previously obtained radiocarbon dates and one new AMS date (Table 1) indicate at least three occupational events. The earliest date of the site should be regarded as somewhat later taking into account that it is a marine mollusk sample uncorrected for local reservoir effect; consequently, the beginning of the occupation probably dates back to 10,200 CALYBP.

 $\begin{tabular}{ll} \textbf{Table 1.} & \textbf{Radiocarbon dates of the La Fundición site (Beta 108308 - Beta 108307; Llagostera et al., 2000). \end{tabular}$

Code Lab.	¹⁴C date, RCYBP	δ ¹³ C	Calibrated age, CALYBP (2 σ)	Calibrated midpoint, CALYBP	Stratigraphic provenience	Material
BETA 108308	8730 ± 90		10,119-9489	9675	30–40 cm	Charcoal
BETA 108307	9640 ± 150		11,385-10,524	10964	60–70 cm	Shell
UGAMS 8095	9130 ± 40	-20.6	10,484-9954	10231	30–35 cm	Bone

The site contains stemmed lanceolate projectile points (Figure 1), blanks and blank production debitage, knives, scrapers, and grinding stones among other implements, among which some polygonal stones similar to those recorded in coastal Huentelauquén sites stand out. Associated with this lithic assemblage are combustion features (i.e., hearths) and faunal remains that basically correspond to very fragmented camelid bones (*Lama guanicoe*), some with signs of fire exposure, as well as some rodent remains, bone fragments of otariids, and mollusk shells (Castillo and Rodríguez 1978; Llagostera et al. 2000). Among the mollusk remains are 120 fragments representing eight

Donald Jackson, César Méndez, and Antonia Escudero, Facultad de Ciencias Sociales, Universidad de Chile, Departamento de Antropología, Ignacio Carrera Pinto 1045, Nuñoa, Santiago, Chile; emails: djackson@uchile.cl cmendezm@uchile.cl aescudero@gmail.com

CRP 28, 2011 JACKSON ET AL. 103

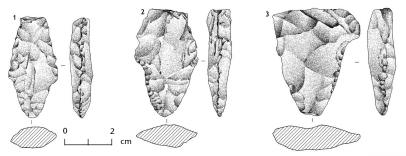


Figure 1. Stemmed projectile points from La Fundición site.

species, with a predominance of bivalves (61.3%) over gastropods (38.7%), in addition to the presence of some equinoderm remains (*Loxechinus albus*). The shell remains of some of these mollusks show anthropic signs (cuts and trimming) that indicate artifacts in their process of elaboration.

La Fundición also has yielded a burial of six individuals, including four male adults, one young adult, and a child of indeterminate sex. Two of the individuals were in flexed positions, while the remaining appear to represent secondary burials, following the same funeral pattern of sites along the coast (Costa-Junqueira 2001; Costa-Junqueira and Quevedo 1997).

The above-described characteristics of La Fundición suggest it served as a repeatedly occupied winter residential camp that was oriented essentially to hunting guanaco (*Lama guanicoe*), procuring lithic raw materials, and producing bifacial tools. The presence of some otariid remains and the abundant mollusk remains link this settlement to the coast, whereas the presence of obsidian and other siliceous raw materials suggests links to inter-Andean valleys.

This settlement is strongly connected to coastal Huentelauquén Complex occupations, which contain evidence of partial transport of camelid anatomical parts and lithic raw materials from the interior. Likewise, analogous sites in the inter-Andean valleys such as La Fortuna, located some 120 km from the coast, show the presence of sea mollusks and radiocarbon dates (8160 \pm 160 RCYBP[9056 CALYBP]) (Gambier 1974) consistent with those obtained from La Fundición as well as coastal sites.

The evidence from La Fortuna site and other settlements situated in the middle valleys of the semiarid north of Chile (Jackson 1998; Méndez and Jackson 2008) supports the interpretation that the Huentelauquén Cultural Complex, after 10,000 CALYBP, was characterized by a mobility-settlement pattern that articulated coastal, valley, and mountain-range environments, with more of a hunting-oriented than marine-resource-oriented economy.

Special thanks to Museo Arqueológico de La Serena for allowing the researchers to look through La Fundición.artifact collection. Research was funded by Fondecyt grant 1090044.

References Cited

Castillo, G., and A. Rodríguez 1978 Excavaciones preliminares en el sitio La Fundición; Una Industria tipo Cárcamo. Boletín del Museo Arqueológico de La Serena 19:125–44.

Costa-Junqueira, M. 2001 Modalidades de enterramientos humanos Arcaicos en el Norte de Chile. Chungara, Revista de Antropología Chilena 33 (1):55–62.

Costa-Junqueira, M., and S. Quevedo 1997 La Bioantropología de sepultamientos Arcaicos de la Cultura Huentelauquén. Contribuciones Arqueológicas Museo Regional de Atacama 5:511–18.

Gambier, M. 1974 Horizonte de cazadores tempranos en Los Andes Argentino-Chilenos. Revista Hunuc Huar II: 44-103, Instituto de Investigaciones Arqueológicas y Museo, Universidad Nacional de San Juan.

Jackson, D. 1998 Evaluación de las ocupaciones del Complejo Huentelauquén al interior de la costa del semiárido. *Valles* 4:139–53.

Jackson, D., and C. Méndez 2005 Primeras ocupaciones humanas en la costa del semiárido de Chile: Patrones de asentamiento y subsistencia. Actas del XVI Congreso Nacional de Arqueología Chilena, Ediciones, Museo de Historia Natural de Concepción, pp.493–502.

Llagostera, A., R. Weisner, G. Castillo, M. Cervellino, and M. Costa-Junqueira 2000 El Complejo Huentelauquén bajo una perspectiva macroespacial y multidisciplinaria. *Contribuciones Arqueológicas Museo Regional de Atacama* 5:461–80.

Méndez, C., and D. Jackson 2008 La Ocupación Prehispánica de Combarbalá (Norte Semiárido, Chile): Una propuesta sintética. *Chungara, Revista de Antropología Chilena* 40(2):5–17.