The locative definite article *hac* in Seri

1. Introduction

Seri has a variety of different definite articles, all of which are derived from nominalized forms of verbs, including posture verbs, motions verbs and general locative verbs. With animate entities, the definite article in Seri indicates the actual posture of the referent. For example *ctam cop* is used to refer to a man who is standing and *ctam tintica* (where *tintica* is derived from *tii ntica* ‘go away from’) is used to refer to a man who is going away from the deictic center (at a particular distance). However, frequently the definite article *quij* (derived from *–iij* ‘sit’) is used with people regardless of their precise posture (Marlett & Moser 1994). On the other hand, definite articles in Seri classify inanimate objects with respect to their shape or axial structure, which is conceptualized as a kind of “fictive” or metaphorical posture or “fictive” motion (following Talmy 1996), depending upon the definite article (see O’Meara & Bohnemeyer 2008 for further discussion). For instance, when the noun *hast* ‘stone’ co-occurs with the definite article *cap/cop* (derived from *–aap* ‘stand’), the resulting interpretation is ‘hill’ or ‘mountain’, but when *hast* co-occurs with the definite article *com* (derived from *–oom* ‘lie’), the resulting interpretation is ‘mountain range’. However, there are nominals which do not fit into this classification due to the spatial properties of their referents, e.g., *zaaj* ‘cave’, *imoel* ‘below it’, and *cöiyaticpan* ‘his/her work’. This paper looks at the kinds of nominals that the definite locative article *hac* co-occurs with in order to provide a complete description of the

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1 The fieldwork seasons during which I collected these data were supported by a National Science Foundation Dissertation Research Grant, No. 0553965. This research would not be possible without the collaboration of the Seri community in *Haxöl Iihom* (El Desemboque del Río San Ignacio). I would like to deeply thank all of my native speaker collaborators, especially Alma Imelda Morales Romero, Óscar Perales, Raquel Hoeffer Felix, Teresa Hoeffer Felix, and Maria Luisa Astorga. I would also like to thank Jürgen Bohnemeyer, Rodrigo Romero Mendez and Matthew Dryer for comments on this work. It goes without saying that all mistakes are my own.
semantics of the noun class system in Seri. More specifically, I provide data which show that *hac* is used with nominals that make reference to objects whose shape is difficult to classify.

2. Seri people and their language

2.1. Seri people

The Seri people, or *Comcáac* (Seri people), as they call themselves, live in two small coastal villages along the Sea of Cortez in Sonora, Mexico – *Socaaix* ‘Punta Chueca’ and *Haxöl Ihom* ‘El Desemboque (del Río San Ignacio)’ (lit. ‘where the multi-colored clams lie’). The two villages are located in the autonomous Seri territory (*comcáac quih hant iti yaii*, lit. ‘land where the Seri people live), which is approximately 211,000ha in size. As of 2000, there were reportedly 800 Seri people living in the two Seri villages (Gordon 2005). Almost all of the Seri people are bilingual in Spanish, with Seri being their first language. Children are still actively learning Seri. However, primary and secondary education is provided in Spanish.

The Seri were traditionally semi-nomadic hunter-gatherers. They relied heavily on sea turtles, fish and small terrestrial animals for subsistence (Schindler 1981). The area that they used as general range land for resource exploitation was significantly larger than their current territory (Bahre 1967). They have since begun to lead a more sedentary life, relying on the sale of handicrafts and commercial fishing. This shift in modes of production took place in the early to mid-twentieth century (Felger & Moser 1984).

2.2. Seri language

The Seri language is a language isolate that is suggested to be part of the larger Hokan stock (Kroeber 1915, Kaufman 2008). More recently, it has been shown that Seri’s
association with the Hokan stock is questionable (Marlett 2005). Additionally, there are very few borrowings in Seri either from Spanish or other languages spoken in the area (Marlett 2005).

In terms of its structural properties, Seri is considered to be a predominantly head-final, head-marking language (Marlett 2005). Head-final properties are illustrated in the examples below where the utterance ends with a verbal predicate, for example, in (5) and (6). Head-marking properties are illustrated by person and aspect marking in the form of prefixes on verbal predicates, which is illustrated in examples (5) with ixáaфин ‘s/he does it’, (6) with yompási ‘it does not have wrinkles’ and (13) with consiţi ‘you will arrive [there]’ and possessive marking in the form of prefixes on relational nouns as in examples (1) with inocl ‘below it’, (7) with ipac ‘its back’ and (9) with hisoţi ‘my body’.

2.2.1. Nominalizations

Seri has a productive process of deriving nouns from verbs by means of nominalization prefixes. There are different types of nominalizations depending upon the nominalizer prefix that is used (e.g., subject, object and action or oblique nominalizations). The prefixes that derive these deverbal forms reflect the thematic role of the head or the syntactic function the argument corresponding to them have in finite clauses. Example (1) shows a subject nominalized form coqueht in ziix coqueht ‘ball’ and an oblique nominalized form iquiicolim in hehe iti iquiicolim ‘table’.

(1)  Ziix coqueht quiij hehe iti iquiicolim
thing SBJ.NMLZ-bounce DEF.ART.SG.sit wood 3.POSS-on OBL.NMLZ.sit.IMPF
quiij i-mocl hac ano y-iij.²

² Abbreviations used here include: ABS – absolutive; ADV – adverb; ART – article; AUX – auxiliary; DECL – declarative; DEF – definite; DEM – demonstrative; DEP – dependent; DP – distant past; EMPH – emphatic; INDEF – indefinite; LOC – locative; NEG – negative; NMLZ – nominalizer; OBJ – object; OBL – oblique; PART – particle; PASS – passive; PL – plural; POSS – possessive; REAL – realis; RP – recent past; SBJ – subject; SG –
The ball (lit. ‘thing that bounces’) is below the table (lit. ‘wood on which [people] sit’). (BowPed 16 GHF)

Example (2) contains an example of an object nominalized form moficj ‘your shirt’ which is derived from the verb –ficj ‘wear as a shirt’. The resulting nominal is inalienably possessed, requiring the nominal to carry a possessive prefix.

(2)  
\[ M-o-ficj \quad quih \quad icahooil \]
2.POSS-OBJ.NMLZ-wear.shirt DEF.ART.SG.UNSPEC OBL.NMLZ.ABS.POSS.CAUS.blue
\[ yaail \quad cö-c-ooil \quad iha. \]
OBL.NMLZ.3.POSS.blue 3.OBL-SBJ.NMLZ-blue DECL
‘Your shirt is blue (lit. ‘blue like blue of indigo’).’ (Possession LE)

These deverbal forms appear to behave syntactically in a very similar manner to relative participles in languages such as Turkish or Telugu.

2.2.2. Posture- and motion-based definite articles

In almost all cases, Seri nominals are followed by a determiner, which includes a definite article, indefinite article, or a demonstrative article. The definite articles are derived from subject nominalizations of verbs: quiij ‘sit’ (>quij), caap ‘stand’ (>cap/cop), coom ‘lie’ (>com), quiih ‘be located’ (>quih), moca ‘come’ (>timoca), contica ‘go’ (>tintica), caahca ‘be located’ (>hac) (Marlett & Moser 1994, see also Moser 1978).

Example (3) illustrates a locative expression in Seri which contains two nominals that occur with two different definite articles. The object to be located, ziix an icóosi ‘cup’, co-occurs with quij, as a cup is not very tall and not very wide, and as such has the canonical posture of sitting (Marlett & Moser 1994). Note that the locative predicate –iij ‘sit’ is selected in this utterance to reflect the canonical posture of the cup. The table, hehe iti icóohitim, on the other hand, has a longer horizontal axis and consequently co-

singular; SR – switch reference; UNSPEC – unspecified. Number for subject agreement and possessive marking is indicated with a numeral.
occurs with the definite article *com*. For inanimate objects, the axial structure of the
object is the primary factor that determines definite article selection.

(3)  

\textit{Ziix an icóosi quij hehe iti icóohitim com}

cup DEF.ART.SG.sit table DEF.ART.SG.lie

\textit{i-ti q-uiij iha.}

3.POSS-on SBJ.NMLZ-sit DECL.

‘The cup (lit. ‘sitting thing from which one drinks’) is on the table (lit. ‘lying wood on which one eats’).’ (BowPed 1)

Nominals are not restricted to co-occur with only one determiner. This variability in
article selection is illustrated in Table 1.

<table>
<thead>
<tr>
<th></th>
<th><strong>quiij</strong></th>
<th><strong>com</strong></th>
<th><strong>cop</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DEF.ART.SG.SIT</td>
<td>DEF.ART.SG.LIE</td>
<td>DEF.ART.SG.STAND</td>
</tr>
<tr>
<td>\textit{hast}</td>
<td>‘stone’</td>
<td>‘mountain range’</td>
<td>‘mountain’</td>
</tr>
<tr>
<td>\textit{zaah}</td>
<td>‘sun’, ‘watch’</td>
<td></td>
<td>‘day’, ‘sunlight’</td>
</tr>
<tr>
<td>\textit{iizaj}</td>
<td>‘moon’</td>
<td></td>
<td>‘month’</td>
</tr>
<tr>
<td>\textit{hant}</td>
<td></td>
<td>‘land’</td>
<td>‘year’</td>
</tr>
</tbody>
</table>

\textbf{Table 1.} Article variability and selection of noun senses (Marlett & Moser 1994: 103)

The sense of the noun is determined by the article that is used. Posture-based articles
classify entities in the following way: animate beings with respect to the posture they are
in or inanimate beings with respect to their spatial properties like shape or axial structure,
support, and orientation. This can be thought of as a type of “fictive” or metaphorical
posture (in analogy to Talmyn’s (1996) “fictive motion”) in the case of the posture-based
articles or fictive motion in the case of the motion-based articles. (For further discussion
see Marlett & Moser 1994, Moser 1978 and O’Meara & Bohnemeyer 2008.)

3. Locative definite article *hac*

The locative definite article *hac* is likely derived from the subject nominalized form of
the verbal predicate –\textit{aahca} ‘be located’. This article has the same syntactic distribution
as the other definite articles (i.e., it appears at the end of a noun phrase). It has been
observed that this definite article co-occurs with nominals which refer to places or with
state and action nominalizations (Moser & Marlett 2005: 833). However, it seems that a more refined description can be made regarding the semantic properties of nominals which co-occur with the definite locative article hac, namely that these nominals make reference to entities which are difficult to categorize with respect to their shape. In other words, the referents of nominals which co-occur with hac are not easily categorized with the posture-based or motion-based definite articles.

3.1. State and action nominalizations

As stated above, state and action nominalizations occur with the definite article hac. State and action nominalizations refer to states or action events and as such refer to entities which are not easily classified based on spatial properties, like shape or posture. Example (4) provides an instance of hac occurring with a state nominalization, ziix quih cöihamsisiin ‘love’.

(4) Ziix quih cöi-h-a-misiin hac
thing DEF.ART.SG.UNSPEC 3.OBL.3.Poss-OBL.NMLZ-CAUS-love DEF.ART.SG.LOC
ziix quih c-aziim iha.
thing DEF.ART.SG.UNSPEC SBJ.NMLZ-beautiful DECL
‘Love is a beautiful thing.’ (OPT_PathVerbs)

In example (5) cöiyaticpan ‘his/her working’, an event nominalization, occurs with hac.

(5) Qu-ihéhe quij cöi-y-aticpan
SBJ.NMLZ-be.leader DEF.ART.SG.sit 3.OBL.3.Poss-OBJ.NMLZ-work
hac miizj hacx i-x-dafin.
DEF.ART.SG.LOC well alone 3;3-EMPH-do
‘The president is administering (working) well.’ (Moser & Marlett 2005:50)

State and action nominalizations do not easily fit into the nominal classification system that is based on shape and axial structure (i.e., sitting, standing or lying) or with respect to their trajectory (i.e., coming or going away from). Consequently, they co-occur with the locative definite article. In this case, however, the name of the article seems
inappropriate since state and action nominalizations are not necessarily related to location. Nevertheless, throughout this paper I will continue to use the cover term “locative definite article” in order to describe this particular article in Seri.

3.2. (Some) inalienably possessed nouns

In general, there is very little morphology that occurs in the Seri nominal lexicon. Plural number can be marked on nouns through various processes (e.g., suffix, stem change, both a suffix and a stem change, or no change at all). Nouns can be grouped into two classes\(^3\) based on whether they require a possessive prefix or not. I will call the class of nominals which require a possessive prefix inalienably possessed nouns (as opposed to common nouns, which are not obligatorily possessed). This class of nominals includes kinship terms, body part terms, relational nouns, as well as some nominals which refer to personal belongings such as articles of clothing and pets.

Some inalienably possessed nominals co-occur with the locative definite article \textit{hac}. This includes some body part terms and relational nouns. Body part terms can occur with no determiner, as is the case with \textit{ihyeen} ‘my face’ in example (6).

\begin{verbatim}
(6) Ihýéen yo-m-pási.
    1.POSS-face DP-NEG-wrinkled
    ‘My face doesn’t have wrinkles.’ (Moser & Marlett 2005:244)
\end{verbatim}

Body part terms can also occur with the definite articles that are derived from the posture verbs, as is illustrated with \textit{ipac com} ‘its back’ in example (7).

\begin{verbatim}
(7) Cmiique cap i-pac com c-apptj iha.
    person DEF.ART.SG.stand 3.POSS-back DEF.ART.SG.lie SBJ.NMLZ-wide DECL
    ‘The person’s back is wide.’ (AIM_RelNs)
\end{verbatim}

\(^3\) Possessive marking differs slightly in the case of kinship terms where a few of the prefixes manifest themselves differently (see Moser & Marlett 2005: 834 for further discussion). However, for the purposes of the paper, these details are not relevant.
Body part terms that make reference to a body part whose shape is difficult to categorize can occur with *hac*, as is shown in example (8) with *ihyeen hac* ‘my face’ and in example (9) with *hisxeen hac* ‘my abdomen’. For instance, *-sxeen* ‘abdomen’ appears to refer to the general internal abdomen region – an area of the body that does not have clear spatial boundaries (as was illustrated to me by Seri language consultants while labeling the parts of a human body). It is the place where stomach growls come from, *isxeen an canloj* ‘stomach growl’ (lit. ‘its abdomen area thunder’).

(8) *Hiif qij tiix ih-yeen hac*

1.POSS-nose DEF.ART.SG.sit DEM 1.POSS-face DEF.ART.SG.LOC 
 oo zo haa ha. 
ADV INDEF.ART SBJ.NMLZ.be DECL

‘My nose is part of my face.’ (OPT LexRel_Landscape)

(9) *Hisxeen hac hi-soj cop*

1.POSS-abdomen DEF.ART.SG.LOC 1.POSS-body DEF.ART.SG.stand 
 oo zo haa ha. 
ADV INDEF.ART SBJ.NMLZ.be DECL

‘My abdomen is part of my body.’ (OPT LexRel_Landscape)

Relational nouns, another type of inalienably possessed noun, make reference to object parts or spatial regions projected from object parts. These nouns commonly make reference to spatial regions which do not have clear boundaries, making them difficult to classify with respect to their shape or axial structure. This is illustrated with *imocl hac* ‘below it’ in example (10) and *imozit hac* ‘the middle of it’ in example (11).

(10) *...haas quih c-aacoj quih*

mesquite.tree DEF.ART.SG.UNSPEC SBJ.NMLZ-big DEF.ART.SG.UNSPEC 
*i-mocl hac ano ha-t-oii...

3.POSS-below DEF.ART.SG.LOC 3.POSS.in 1.PL-REAL.DEF-be.PL

‘...we lived below the big mesquite tree...’ (MLA 5/30/07 5)

(11) *Ox xepe quih i-mozit hac*

thus seawater DEF.ART.SG.UNSPEC 3.POSS-middle DEF.ART.SG.LOC 
 ano m-oom ha. 
3.POSS.in RP-lie DECL
‘It comes in as if from the middle of the sea.’ (OPT HaiXepeImacQuij)

The co-occurrence of hac with some inalienably possessed nouns is not determined by their membership in this noun class, but rather by their referential properties. One of the reasons that quite a few inalienably possessed nouns co-occur with hac is that most of the spatial relational nouns refer to spatial regions which are not easily classifiable based on their spatial properties. Additionally, there are many body parts terms in Seri which refer to containers or in general make reference to parts that do not have clear spatial boundaries.

3.3. Place names

Similar to body part terms, some place names occur with the locative definite article hac, depending upon the kind of place that is made reference to. For instance, islands are categorized based on their shape and consequently, place names that refer to islands occur with the corresponding definite article – com if the island is long and not particularly wide and quij if the island is mountainous and not very long. This is illustrated with Tahejöc quij ‘Tiburon Island’ in example (12).

(12) ...ox po-pacta ta Hast Otiipa Tahejöc quij
    thus IRR-be PART Patos.Iland Tiburon.Iland DEF.ART.SG.sit
    hast z i-ti t-ap, Hast Canlc
    stone INDEF.ART 3.POSS-on REAL.DEP-stand Hast Canlc
    ha-p-ah, tiix i-ti cói-t-queen ma x...
    SBJ.NMLZ-PASS-say DEM 3.POSS-on 3.OBL-3:3-REAL.DEP-touch SR UNSPEC.TIME
    ‘...then Patos Island is together with a hill on Tiburon Island that is called Hast Canlc...’ (OPT 6_14_07)

Tahejöc quij ‘Tiburon Island’ is thought of as an instance of the kind of island that is referred to as hant xepe imac quij quij which literally means ‘the land that is sitting in the middle of the ocean’. Coof Coopol It Iihom ‘San Lorenzo Island’, on the other hand,
is an instance of the kind of island that is referred to as *hast xepe imac coom com* which literally means ‘the stone that is lying in the middle of the ocean’.

Playas, or dry lakebeds, are thought of as sitting in Seri⁴, and thus, when a place name is used to refer to a playa, it occurs with the definite article *quij*, as in *Caail Heeque quij* ‘the name of a small playa’ in example (13).

(13) ...*cmaax Caail Heeque quij co-n-siifp aha.*
   now small.playa DEF.ART.SG.sit 3.OBL-2-IRR.arriveDECL
   ‘...now you will arrive at the small playa (*Caail Heeque).*’ (THF 7_9_06_3)

Place names that refer to ranches and camps almost always occur with the locative definite article *hac*. This is shown in example (14) with the place name *Hatájc hac* ‘Pozo Coyote’ which refers to what is now a Mexican ranch near El Desemboque (one of the two Seri villages). This follows from the discussion of the types of nominals that *hac* co-occurs with, in that ranches and camps do not have clear spatial boundaries, making them difficult to classify based on their spatial properties.

(14) ...*Hatájc hac có-ha-t-azcam...*
   ‘...we arrived at Pozo Coyote [a ranch]...’ (MLA 5_30_07_1)

Speakers can also make reference to El Desemboque by saying *Haxöl Iihom hac*. This is illustrated in example (15).

(15) ...*Haxöl Iihom hac i-ti m-piij...*
   Desemboque DEF.ART.SG.LOC 3.Poss-on 2-IRR.sit
   ‘...if you are in El Desemboque del Río San Ignacio (lit. ‘where there are multicolored clams’)...’ (THF 7_9_06_4)

Similar to the case of inalienably possessed nouns, the discussion on place names illustrates that it is not membership in this particular class of nouns that determines

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⁴ The reason that *caail* occurs with *quij* as opposed to *com* seems to have to do with the fact that dry lakebeds are long, not very tall and not particularly narrow – the crucial component being that they are not very narrow.
whether a particular noun occurs with hac or not, but rather it is the semantics of the nominal referent. Of particular interest here is that it is not the case that all nouns which refer to places occur with hac. The determining factor is what kind of geographic entity is being referred to by the place name and whether that particular geographic entity is easy to categorize based on its shape.

3.4. Landscape terms

Given the discussion of place names above, it is not surprising that nominal expressions which refer to landscape objects can also occur with the locative definite article. However, as is the case with place names, if the landscape term refers to a landscape object that has spatial boundaries which are more clearly categorized based on its spatial properties, the nominal will occur with one of the definite articles derived from a posture or motion verb. For example, (16) shows that xatj ‘reef’ occurs with the definite article quij which is derived from –iij ‘sit’.

(16) ...taax ano siihca xatj quij.
   there 3.POSS.in IRR.be.LOC reef DEF.ART.SG.sit
   ‘...there will be the reef.’ (GHF 7/2/06 1)

   In example (17) hant queemej ‘dune’ occurs with com which is the definite article derived from –oom ‘lie’. This is due to the fact that dunes are significantly longer than they are wide and relatively low.

(17) Hant qu-eeemej com in-s-yaai pix...
    land SBJ.NMLZ-move.slowly DEF.ART.SG.lie 2-IRR-go.toward DOUBT
    ‘If you want to go to the dunes (lit. ‘land that moves slowly’)…’ (GHF 7/2/06 2)

   There are landscape objects that do not have clear spatial boundaries and some that refer to voids, e.g., caves in a mountain or holes in the ground. Landscape terms that make reference to these types of landscape objects co-occur with hac. For instance, to
refer to a seep where fresh water comes out of the sea floor, you would say *xepe ano hax hac*, lit. ‘the seawater in the freshwater’, as is illustrated in example (18).

(18) **Xepe ano hax hac xepe**

<table>
<thead>
<tr>
<th>seawater</th>
<th>3.POSS.in</th>
<th>freshwater</th>
<th>DEF.ART.SG.LOC seawater</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>com oo zo ha ha.</em>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEF.ART.SG.</td>
<td>ADV</td>
<td>INDEF.ART</td>
<td>SBJ.NMLZ.DECL</td>
</tr>
</tbody>
</table>

‘The freshwater in the sea [a seep] is part of the sea (lit. ‘lying seawater’).’ (OPT LexRel_Landscape)

Other nominals which make reference to these kinds of landscape objects include *hant ipot hax* ‘well’ and *zaaj cave*, both of which occur with *hac*, as is shown in examples (19) and (20), respectively.

(19) **Hant i-pot hax... hax cop**

<table>
<thead>
<tr>
<th>land</th>
<th>3.POSS-bottom</th>
<th>freshwater</th>
<th>freshwater</th>
<th>DEF.ART.SG.stand</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>hant i-pot hax hac</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>oo zo haa ha.</em>*</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADV</td>
<td>INDEF.ART</td>
<td>SBJ.NMLZ.DECL</td>
<td></td>
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</tbody>
</table>

‘The well… the water of the well is part of the well (lit. ‘freshwater that is at the bottom of the land’).’ (OPT LexRel_Landscape)

(20) **Xazoj quih ih-sficö aha, zaaj hac hapx cö-poop tax.**

<table>
<thead>
<tr>
<th>mountain.lion</th>
<th>DEF.ART.SG.UNSPEC</th>
<th>1-IRR.kill</th>
<th>DECL</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>zaaj hac hapx cö-poop tax.</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>cave</td>
<td>DEF.ART.SG.LOC</td>
<td>outside</td>
<td>3.OBL-IRR.stand</td>
</tr>
</tbody>
</table>

‘I am going to kill the mountain lion when it comes out of the cave.’ (Moser & Marlett 2005:68)

Finally, it is worth noting that if a complex nominal construction is headed by a spatial relational noun it will co-occur with *hac*. For instance, in example (21) in order to refer to the top of a hill the speaker says *hast cop iyat hac* which involves a landscape term being modified by a relational noun. In this case the relational noun is specifying the particular part of the landscape entity that is being referred to, which is in this case, the very top part of it.

(21) **...hast cop i-yat hac**
stone DEF.ART.SG.stand 3.POSS-top DEF.ART.SG.LOC ano siifp caha.
3.POSS.on IRR.arrive AUX.DECL
‘[she] will arrive at the summit of the hill (lit. ‘standing stone’).’ (THF 7_9_06_6)

This example further illustrates the claim in this paper that *hac* is used with nominal expressions which make reference to objects whose shape is difficult to classify.

4. Conclusion

The Seri definite article system provides an interesting case of form-to-meaning mapping, namely, it provides an example of a noun class system which is based on whether or not nominal referents are easily categorized based on their shape or whether they are more void-like in nature (e.g., caves, wells, etc.) or completely without a spatial geometry (e.g., events and actions\(^5\)). More specifically, in the Seri nominal lexicon objects are classified based on their literal or metaphorical shape or their literal or metaphorical trajectory. If they cannot be classified under one of those categories, then they occur with the locative definite article *hac*.

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\(^5\) Thanks to Stephen Marlett for pointing that there is an exception to this when it comes to meteorological terms. In some of these cases, the interpretation of nominals that are used to refer to meteorological entities such as *zaah cop* ‘sunlight’/‘day’ can likely be explained by coercion effects (following Pustejovsky 1998 and O’Meara 2010).


