



# Glyph Dwellers

Report 63

November 2019

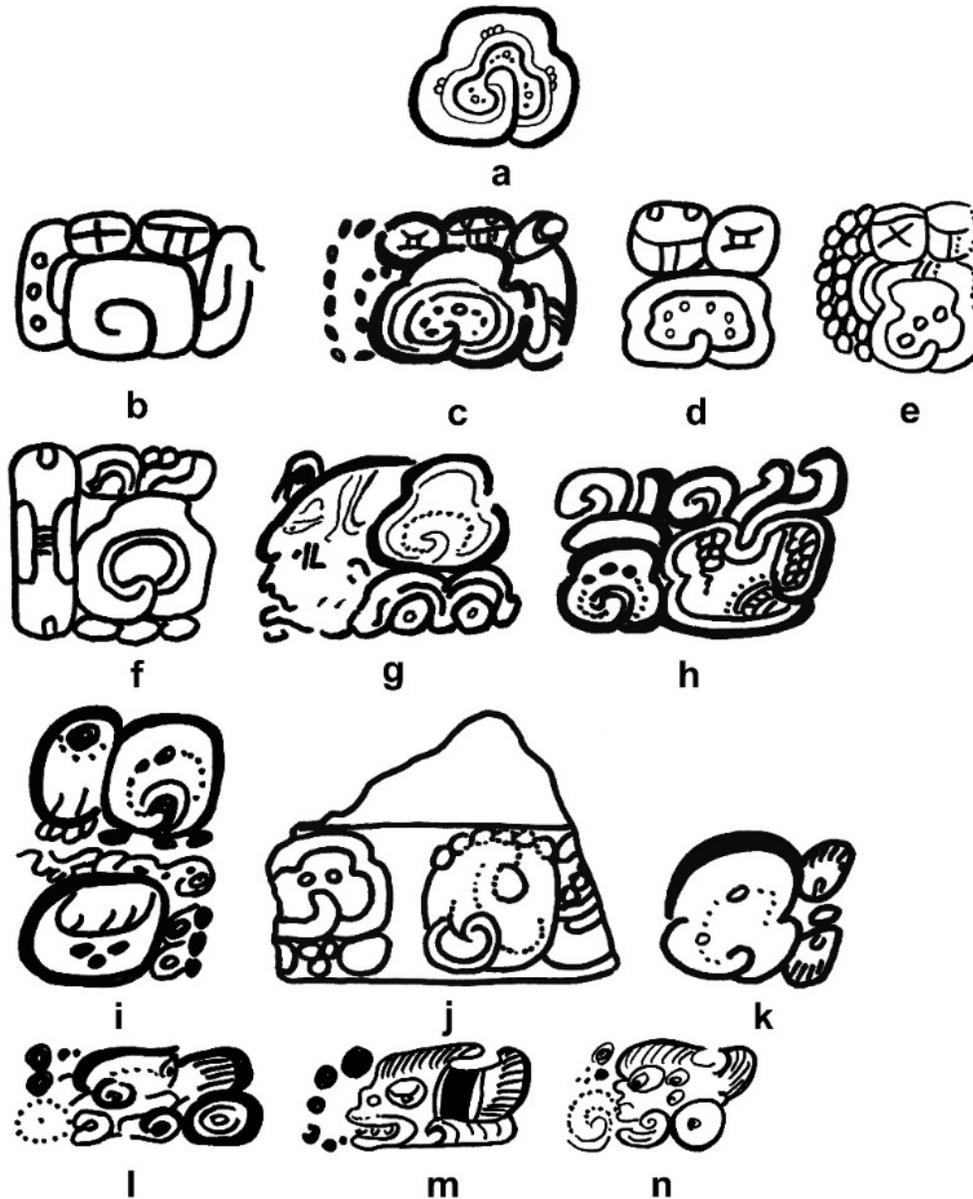
## A New Reading Proposal for the Water Scroll Sign T579 as YAM

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The hieroglyph listed as T579 (**Fig. 1a**) in the Thompson (1962) catalog and ZUP in the catalog of Macri andLooper (2003), is only seldom attested in Maya hieroglyphic writing. Basically, it occurs in only few secure contexts: 1) as part of the emblem glyph of Altun Ha and its place name (**Fig. 1b-d**); 2) as part of the emblem glyph of Topoxte (**Fig. 1.f**), 3) in context of a female nominal phrase with the logogram **EK'** (**Fig. 1g**), 4) designating the name of a mountain, **SAK-T579-wi-WITZ**, (**Fig. 1h**), and 5) as part of the nominal phrase of a *wahy* being formerly known as "water-jaguar" (**Fig. 1i**). There are also some examples of T579 in fragmentary inscriptions, where the contexts are, however, not clear (**Fig. 1j, k**).

So far, the most comprehensive study about the glyph T579, which is also known as the 'Water Scroll' Sign, has been published by Helmke, Guenter, and Wanyerka (2018). Their excellent article focuses on the appearances of the Water Scroll emblem glyph, which is associated with the Altun Ha royal family, and, as they argue, stresses the importance of Altun Ha despite of the seemingly small size of that site. The authors briefly mention the possible phonetic reading of the glyph as follows: "... in the absence of a fuller understanding of the semantics of this sign, we are not yet closer to proposing a decipherment. Yet, the iconography does, however, make it clear that the sign marks bodies of water, perhaps specifically freshwater, and may, in fact, represent a wave" (Helmke, Guenter and Wanyerka 2018: 115). As illustrated in **Figs. 2** and **3**, the form of T579 shows precisely the outline of a wave, with some small circles and dots inside representing bubbles, as can be seen in several examples where the sign clearly appears as part of aquatic landscapes.



**Fig. 1.** Occurrences of the logogram T579 (all drawings by the author): **a.** T579 in Thompson 1962; **b.** Jadeite plaque from Tomb B-4/6, Altun Ha; **c.** Drawing 34; Naj Tunich; **d.** Carved bone pin from Burial 116, Tikal; **e.** Carved bone pin from Burial 43, Chau Hiix; **f.** Example of the Topoxte toponym as **CHAK-T579-ma-NAL**; **g.** Nominal phrase of Lady 'Shining Star' of Yaxha on K635; **h.** name of supernatural mountain on wall of Tomb 25, Rio Azul; **i.** Name of a wahy creature on K0771; **j.** Fragment of Monument 133, Tonina; **k.** T579-ma on vessel in private collection (after Helmke, Guenter and Wanyerka 2018: 115); **l.** Ceramic bowl from the Naranjo area, MS0285; **m.** MS1680, Los Angeles County Museum of Art; **n.** K4562.

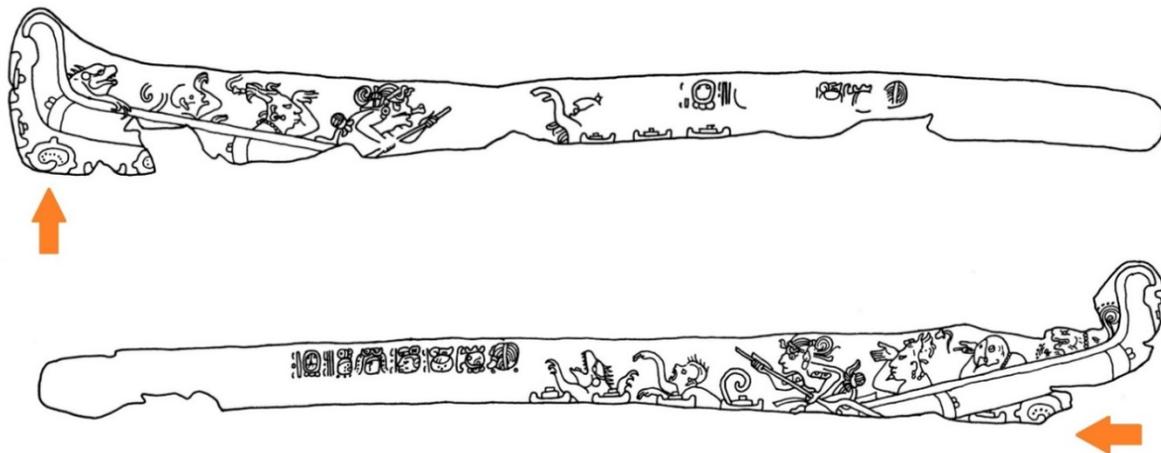


Fig. 2. Example of the 'Water Scroll' as an iconographic symbol on an incised bone from Tikal Burial 116 (The Linda Schele drawing collection, Schele number 2014; <http://research.famsi.org/schele>).

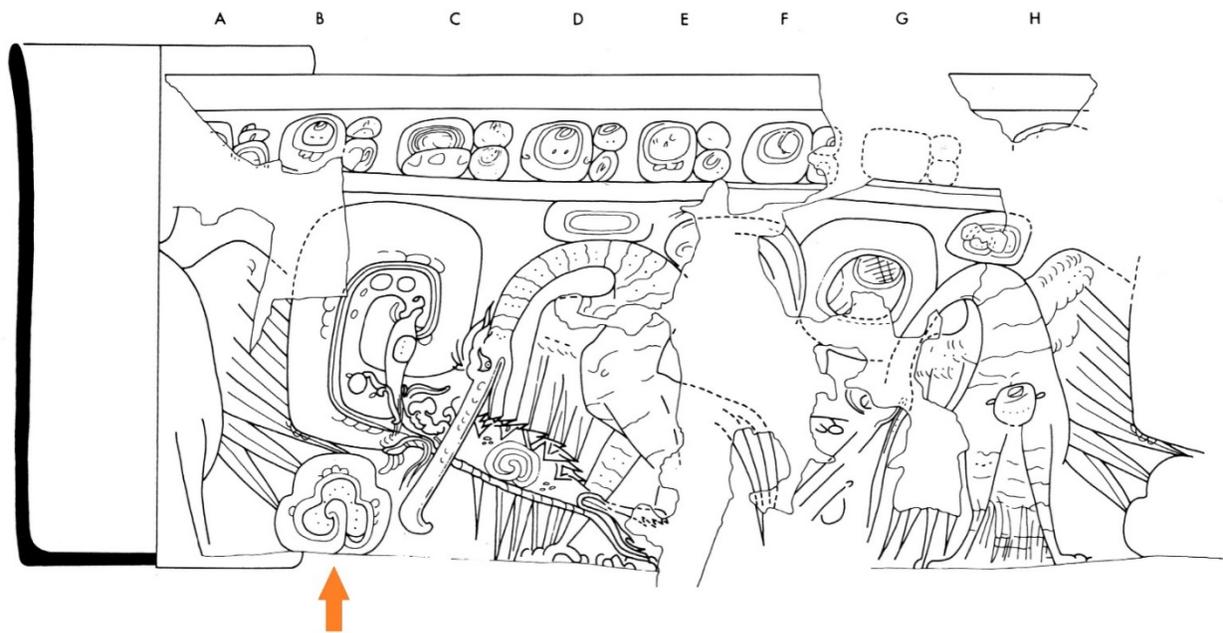


Fig. 3. Example of the 'Water Scroll' symbol as an iconographic element on a ceramic vessel from Tikal Burial 81, Structure 9, Group 4G-1. Line drawing by T. Patrick Culbert (1993:fig. 43d).

Furthermore, they mention previous proposals for a phonetic reading of the sign: "Marc Zender... initially suggested the value of **HA'** for the Water Scroll sign, based on its association with aquatic motifs and connotations. Similarly, in the monumental report of the Southern Belize Epigraphic Project, Phil Wanyerka (2003:37) suggested the reading of **JA'** for this same logogram. More recently, Sebastián Matteo (2015) has proposed the reading of **OM'** 'froth' for the same sign on the basis of the same pattern of complementation. These suggestions, however, fail to account properly for the accompanying

syllabograms, particularly the **-ni** complement seen on the jadeite plaque" (Helmke, Guenter and Wanyerka 2018: 115, note 2).

It is necessary that any proposed phonetic reading for the 'Water Scroll' sign should consider the above-mentioned occurrences. In doing so, the phonetic complements must be explained, and the translation of its reading has to make sense in each context. As is argued here, this is not the case for the reading proposal as **HA'**, nor for **OM**, given that neither "water star" nor "foamy star" appear to make sense (Fig. 1g), nor do "white water mountain" or "white foamy mountain" apply convincingly (Fig. 1h).



Fig. 4. Examples of the 'water jaguar' on K0771, K0791 and K7220 (Photographs courtesy of Justin Kerr).

At least three ceramic vessels depict and name a supernatural being known as the 'water jaguar' (Fig. 4). In each case they are referred to as a *wahy* of a lord of Seibal/Ceibal (see also Grube and Nahm 1994:690, fig. 6). On vessel K0771 (Fig. 4a), we see that the logogram **HA'** "water" is followed by T579, but not replaced by it. This may indicate that the name of this *wahy* figure was not simply "water jaguar."

The **-ni** ending as well as the phonetic complementation **-ma** are unaccounted for in the **HA'** and **OM** proposals, respectively, with the exception that **OM** ends in **-m**. One exceptional example shows a **-la** ending, however, this suffix is unlikely to be a phonetic complement for the word stem, as Helmke, Guenter and Wanyerka (2018: 115, Footnote 2) argued: "The presence of the **-la** sign may cue a **-VI** derivational suffix, such as an abstractive, and is thereby unlikely to serve as a phonetic complement and can therefore be set aside" (see Fig. 1j). In the other example, where the **-la** ending occurs (the Topoxte toponym), the **-la** sign serves as a phonetic complement for the **NAL** glyph. Thus, the question arises in which contexts the Water Scroll symbol occurs and in which contexts it is absent.

In fact, the 'Water Scroll' sign never substitutes for the 'WATER' sign T556 **HA'**, although it shows up in relation to water in iconographic contexts. Furthermore, there are few examples of 'foamy' or 'frothy' cacao mentioned in ceramic inscriptions (Matteo 2015, cited in Helmke, Guenter and Wanyerka 2018: p. 115). However, the 'Water Scroll' sign (T579) discussed here never occurs as a prefix to the term "cacao" (*kakaw*) as a separate sign. Therefore, it can be assumed that another 'water scroll' element does form an intimate part the **ka** grapheme (T738), which shows a fish, probably in an aquatic realm, blowing bubbles (Fig. 11-n).

Generally, the 'Water Scroll' sign is quite infrequent. Nevertheless, the aquatic theme is very important in Maya art, and the ancient Maya seem to have focused their attention mainly on freshwater bodies. Nonetheless, I do not concur with the idea that the sign in question is associated with fresh water, as



Helmke, Guenter and Wanyerka (2018) suspected, but I do find their idea productive that the sign may represent a wave, and more specifically waves of rough water as one usually finds them at sea or at the sea shore. As listed in the following table, a consultation of various Mayan dictionaries yields promising entries for the lexeme *yam* (and *yaam*, respectively) (**Table 1**).

Table 1. Mayan terms possibly related to Classic-period lexeme *yam/yaam*.

Language	Lexeme	Translation	Source
Yukatek	yam	concauidad y espacio entre dos cosas, e intervalo o distancia de tiempo	(Arzápalo Marín 1995:363)
	yaam	olas u ondas del mar	
	u yam kaknab	las olas del mar	
	yaam	intervalo, espacio	(Barrera Vásquez, et al. 1980:966)
	yaam	olas u ondas de la mar	
	yaam yaam	ola, onda de agua	
	yaam-ankil	olear, hacer olas	
	yaam	olas del mar	(Gómez Navarrete 2009: 85)
Lacandon	ya'm	ola (wave)	(Hofling 2014:401)
Ch'ol	yäm	rinse, enjuagarlo	(Hopkins, Josserand, and Cruz Guzman 2011:285)
Ch'olti'	yamanic	oro	(Morán 2004:34)
	yam	riña	
Chontal	yamän	reparar en el molino	(Keller and Luciano G. 1997:294)
Ch'orti'	yam	round, circular, ring, rounded surface or area	(Wisdom 1950:765)
	uyam e k'ahk'	rounded interior of the firebox (of the fireplace)	
	yamchan	ringworm	
Chuj	yama'	to grab hold of something (in any fashion)	(Hopkins 2012:406)
Tojolabal	yama	agarrar, pescar, detener	(Lenkersdorf 1979:vol. 1 416)
Tzeltal	yam	inclinarse, arquear (tallo de un árbol para alcanzar a cortar las frutas)	(Polian 2018:684)
K'ichee'	yamanic abah	Esmeralda	(Dürr and Sachse 2017:117)
	yamanik	to glitter, shine, to be brilliant	(Christenson n.d.:150)

As can be seen, *yam* or *yaam* has the meaning of "wave", and more specifically "wave of the sea." In this regard, the Altun Ha emblem glyph (**Fig. 1b**), which includes a *-ni* postfix, can now be read as **K'UH-YAM-ni-AJAW** *k'uhul yamaan ajaw*, with a possible translation of "holy lord of the glittering waves," following the entries similar to *yaman* in various dictionaries, including Ch'olti'. In this case, the *ni* may serve to indicate a nominalizing suffix for nouns, *-an* (see Lacadena García Gallo and Davletshin 2013:83). In



Tojolobal, *-an* is a suffix which derives verbal adjectives from action verbs (e.g. *lut* "close" into *lutan* "closed" (Lenkersdorf 1979:v. 1, 48)), while in Yukatek, *-a'n* can transform a verb into the past participle form (e.g. *lub* "fall" into *luba'n* "fallen" (Barrera Vásquez, Bastarrachea Manzano, and Brito Sansores 1980:463)). In a sense, *-an* bestows a lasting quality to an action. The actions of closing or falling happen in an instant, but the suffix renders them more permanent. In the context of *yam* "wave," the *-an* suffix changes the ephemeral glittering of a wave into a permanent shiny object, as seen in the dictionary entries referring to gold and emeralds.

Furthermore, when applying the **YAM** value to the toponym of Topoxte, this locative can be read convincingly as **CHAK-YAM-ma-NAL** *chak yamnal*, "place of big waves." In a broader sense, *yam* also means "curved surface." The entries in the Ch'orti' dictionary can thus be better understood as "curved" instead of "round." The term *yam*, therefore, has several meanings; however, many of these values can be combined into one semantic field. The waves are curved, thus obviously moving around and thereby "glitter" by means of reflecting the sunlight. Even the meaning of fighting seems to belong to the same field, as fighting or wrestling may involve the curving of limbs or bodies as they attack each other.

**Figure 4** shows three examples of the 'water jaguar' from painted ceramic vessels. In all three scenes, the animal figure is stated to be a *wahy* of a lord of Seibal/Ceibal. The pose of the animal is the same in all three instances. Note the paws reaching outside of the frame which represents a body of water. Obviously, these three images all depict the same *wahy* figure. Therefore, the name of this figure should be the same in all three instances. However, the manner in which its name is written differs slightly on all three vessels. On K0771 it is written as **HA'-T579-ma HIIX** (**Fig. 4a**). On K0791 it is written as **HA'-hi-HIIX** (**Fig. 4b**), and on K7220 it is written as **HA' ya? HIIX** (**Fig. 4c**). The possible replacement of T579 with T126 **ya** on K7220 may constitute evidence for the reading of T579 as **YAM**. In sum, *ha' yam hiix* can be translated as "Water-Wave Jaguar," which is a fitting name that matches the three known iconographic instances, whereas an interpretation as "foamy feline" does not fit. Alternatively, I note another meaning of *yam(a)* as "to grab, to fight" in K'ichee' as well as the Ch'olti' entry "riña" (English: "fight"). Thus, the name of the 'water jaguar' may be **HA'-YAM-ma HIIX** *ha' yama(l) hiix*, or "grabbing/attacking feline of the water" (**Fig. 1i** and **Fig. 4**).

Furthermore, the combination with the logogram **EK'** (**Fig. 1g**) makes sense when considering the **YAM** value, as it does not result in "wave-star," but rather in "brilliant/shining star," again assuming that the target adjective is *yaman*, with a meaning comparable to similar terms in various Mayan languages such as Ch'olti'. The translation "oro" (gold) refers to the glittering quality of gold, as is the case with emeralds, found in K'ichee'. This translation seems desirable compared to "foamy star" when applying the **OM** transcription.

## Acknowledgements

I would like to thank Justin Kerr for his generous permission to publish his rollout photographs of several of the vessels under discussion. I also thank Dr. Barbara MacLeod for an interesting discussion about the 'Water Scroll' sign and valuable comments on the "water jaguar." I am especially indebted to Guido Krempel for his support and encouragement, for his valuable insights into the iconography of the "water jaguar," and providing me with needed images. Finally, I would like to thank Matthew Looper and the other editors of this journal for substantially helping me getting this article into the proper form and giving me the chance to publish it. Any error or oversight in this article will however only be mine.



## References

Arzápalo Marín, Ramón, ed.

1995 *Calepino de Motul: Diccionario maya-español*. México: Universidad Nacional Autónoma de México, Dirección General de Asuntos del Personal Académico [y] Instituto de Investigaciones Antropológicas.

Barrera Vásquez, Alfredo, Juan Ramón Bastarrachea Manzano, and William Brito Sansores

1980 *Diccionario Maya Cordemex: Maya–Español, Español–Maya*. Mérida, Yucatán: Ediciones Cordemex.

Christenson, Allen J.

n.d. *K'iche'-English Dictionary and Guide to Pronunciation of the K'iche'-Maya Alphabet*. <http://www.famsi.org/mayawriting/dictionary/christenson/index.html>.

Culbert, T. Patrick

1993 *The Ceramics of Tikal: Vessels from the Burials, Caches, and Problematical Deposits*. Tikal Report 25, Part A, University Museum Monograph, 81. Philadelphia: The University Museum, University of Pennsylvania.

Dürr, Michael, and Frauke Sachse, eds.

2017 *Diccionario k'iche' de Berlín El vocabulario en lengua k'iche' otlatecas Edición crítica*. Berlin: Ibero-Amerikanisches Institut Preußischer Kulturbesitz, Gebr. Mann Verlag.

Gómez Navarrete, Javier A.

2009 *Diccionario introductorio: español-maya = maya-español*. Chetumal, Quintana Roo: Universidad de Quintana Roo.

Grube, Nikolai, and Werner Nahm

1994 A Census of Xibalba: A Complete Inventory of "Way" Characters on Maya Ceramics. In *The Maya Vase Book: A Corpus of Rollout Photographs of Maya Vases*. Justin Kerr, ed. Pp. 686–715. New York: Kerr Associates.

Helmke, Christophe, Stanley P Guenter, and Phillip J Wanyerka

2018 Kings of the East: Altun Ha and the Water Scroll Emblem Glyph. *Ancient Mesoamerica* 29(1): 113–135.

Hofling, Charles Andrew

2014 *Lacandon Maya–Spanish–English Dictionary*. Salt Lake City: University of Utah Press.

Hopkins, Nicholas A.

2012 *A Dictionary of the Chuj (Mayan) Language As Spoken in San Mateo Ixtatan, Huehuetenango, Guatemala*. <http://www.famsi.org/mayawriting/dictionary/hopkins/ChujEnglishDictionary2012.pdf>.

Hopkins, Nicholas A., J. Kathryn Josserand, and Ausencio Cruz Guzman



2011 *A Historical Dictionary of Chol (Mayan): The Lexical Sources from 1789 to 1935*.  
<http://www.famsi.org/mayawriting/dictionary/hopkins/CholDictionary2010.pdf>.

Keller, Kathryn C., and Plácido Luciano G.

1997 *Diccionario Chontal de Tabasco*. Tucson: Summer Institute of Linguistics.

Lacadena García Gallo, Alfonso, and Albert Davletshin

2013 *Advanced Workshop: Grammar of Hieroglyphic Maya: Brussels, October 29-31, 2013*.  
Brussels: European Association of Mayanists.

Lenkersdorf, Carlos

1979 *B'omak'umal tojol ab'al-kastiya = Diccionario tojolabal-español: idioma mayance de los altos de Chiapas*. México, D.F.: Distribución por Editorial Nuestro Tiempo.

Macri, Martha J., and Matthew G. Looper

2003 *The New Catalog of Maya Hieroglyphs, Volume One: The Classic Period Inscriptions*.  
Norman: University of Oklahoma Press.

Matteo, Sebastián

2015 Un Grafema Para "Espuma" OM, Ohm. Unpublished manuscript.

Morán, Fray Francisco

2004 *Vocabulary in Ch'olti' Language: A Transcription of the "Bocabulario Grande" by Fray Francisco Morán by Erik Boot*.  
[http://www.famsi.org/mayawriting/dictionary/boot/cholti\\_moran1695\\_revised.pdf](http://www.famsi.org/mayawriting/dictionary/boot/cholti_moran1695_revised.pdf).

Polian, Gilles

2018 *Diccionario multidialectal del tseltal: tseltal-español*. Mexico City: Instituto Nacional de Lenguas Indígenas.

Thompson, J. Eric S.

1962 *A Catalog of Maya Hieroglyphs*. Norman: University of Oklahoma Press.

Ulrich, Matthew, and Rosemary Dixon de Ulrich

1976 *Diccionario bilingüe maya mopán y español, español y maya mopán*. Guatemala: Instituto Lingüístico de Verano.

Wisdom, Charles

1950 *Materials on the Chortí Language*. Microfilm Collection of Manuscripts on Cultural Anthropology 28. Chicago, Ill.: University of Chicago Library.



Glyph Dwellers is an occasional publication of the Maya Hieroglyphic Database Project at California State University, Chico, California. Its purpose is to make available recent discoveries about ancient Maya culture, history, iconography, and Mayan historical linguistics deriving from the project.

Funding for the Maya Hieroglyphic Database Project is provided by the National Endowment for the Humanities, grants #RT21365-92, RT21608-94, PA22844-96, the National Science Foundation, grants #SBR9710961 and IBSS1328928, the Department of Native American Studies, University of California, Davis, and the Department of Art and Art History, California State University, Chico.

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ISSN 1097-3737