## The infancy of the alphabet

Article in World Archaeology · February 1986			
DOI:10.1080/00438243.1986.9979978			
CITATIONS		READS	
18		785	
1 author:			
	Alan Millard		
	University of Liverpool		
	60 PUBLICATIONS 489 CITATIONS	IONS 489 CITATIONS	
	SEE PROFILE		

Woodfolde G. F. 1970. His concitorin signs of Figure Journal of Your Fostern Studies 29: 48–51. Years: R. S. 1969. 11kf. Physician inscriptions from Gordhoir toward a lustory of the Physician in the letter of the special 38, 582,596.

## The ind

## William I K

# the infancy of the alphabet

It be fewrer and I septem writing sestems dominated the Near Fast during the third and second stack to the C. but during the fatter many other scripts arose. Among them was the infant alphane value of before can be reconstructed in outline with the and of scattered and brief in captures to un the Levant Feynman influence is seen as a stimulus in its conception and as a trade to the order risk and direction of writing By 1000 BC. This simple and flexible system was cited to take any planting its local made, and ready for its expansion eastwards through two orders of the stood planting by the Criceks in the west where it came to its inadurity.

This issue: Early writing a series

# The infancy of the alphabet

A. R. Millard

stone at Byhlos later in the tenth century makes these points clear (Gibson 1982: 17-24) conventional form and showed some cursive traits. The handful of dedications incised on is the earliest intelligible text of more than two or three words written with the now there is almost universal agreement that both were made about 1000 B.C. (Dunand both the coffin and the inscription were given a date in the thirteenth century B.C., but on the edge of the lid announces that this is the coffin of Ahiram, king of Byblos. The cleared a tomb-chamber containing a large stone sarcophagus. An inscription engraved Exeavating at Byblos on the coast of Lebanon in 1923, the French scholar Pierre Monte Millard 1982) or the graffiti from Gordion in Phrygia have done for early Greek (Young B.C. statue from Tell Fekherye in Syria has done for Aramaic (Abou Assaf, Bordreuil the various Indian systems - and new discoveries can bring surprises, as the ninth century questions remain open - the exact time and manner of the Greek borrowing, the rise of From then the history of the alphabet can be traced to the present day; a few major Phoenician alphabet known today. By its time the letters were in a more or less 1945; Poxt-scriptum; Gibson 1982; 12 f; Röllíg 1982; Porada 1973). Ahiram's inscription Phoenician alphabet, and the language a Phoenician dialect (Dussaud 1924). At first text was not difficult to read because the letters were recognizably an early form of the purpose of this essay to explore them in the context of the scripts of the ancient Near 1969). The earlier stages of the alphabet's history are less certainly defined, and it is the

Writing in the Near East in the third and second millennia B.C.

extensive Babylonian influences in northern Syria during the Early Bronze Age than had From Babylonia the cunciform spread in several directions, notably up the Euphrates evidence indicates that they continued for a thousand years without any serious rival westwards and on along the trade routes to the Mediterranean. Since 1975, the Italian the cuneiform and the hieroglyphic, appear to have become well-established. The By the end of the fourth millennium B.C. the distinctive scripts of Babylonia and Egypt excavations at Tell Mardikh, ancient Ebla, south of Aleppo, have revealed far more

World Archaeology Volume 17 No. 3 Early writing systems @ R.K.P. 1986 0043-8243/86/1703/390 \$2/1

> specimens of Egyptian writing survived the fire that baked the tablets and destroyed interpreted). Yet cuneiform was not the sole script known at Ebla about 2250 B.C.; two surroundings are extremely dry, as in parts of Egypt away from the Nile, or in peculiar Egyptian material, papyrus. Indeed, even without fire, papyrus rarely survives unless its of the clay tablets, it will have totally destroyed any documents written on the usual certainty is impossible. Whereas the burning of the Ebla palace improved the durability read documents in Egyptian, then replied in the same language and script. Although regular official contact, it is reasonable to surmise that scribes in Byblos received and and Egypt, links founded on Egyptian desires for cedar and other timber, which needed hands, their inscriptions being mere curiosities. Given the close links between Byblos reached the Levant as exotic imports, the Ebla vessels having passed through several vessels of similar date found at Byblos (Saghieh 1983). All these things could have isolated finds for the region, but they stand with numerous Egyptian inscriptions on stone much else. These pieces of stone vessels bear the names of pharaohs Chephren (c. not the only centre in that area where Babylonian scribal traditions reigned (in genera palace archives deal predominantly with local administration, they imply that Ebla war been suspected. Although the eight or nine thousand cunciform tablets found in the drawback to the present inquiry, one which should be constantly kept in mind. regions like the borders of the Dead Sea. The perishability of papyrus is a significant Euphrates to the coastal entrepôt of Ugarit the same situation could be envisaged, but Ebla lies further from direct contact with Egypt, with its position on the route from the 2565-40 B.C.) and Pepi I (c. 2332-2283 B.C.) respectively (Matthiae 1979). They are see Matthiae 1977, but note that the textual evidence has been considerably re-

writing these languages syllabically as each culture found need for written records. In Sumerian language). However, knowledge of Egyptian hieroglyphs probably stimulated contrast. Egyptian writing does not seem to have been used regularly to record other unique in the ancient Near East, and Hittites in Anatolia using their Indo-European there arose kingdoms of Amorites and other groups speaking West Semitic languages third millennium B.C., and Egypt endured her First Intermediate Period (c. 2180-2040 Hieroglyphic' texts of Byblos. Although no one has yet presented a satisfactory examples of very small numbers, such as the Phaistos Disk and the 'Pseudoscripts were current in Cyprus. There were other forms of writing, too, known in single B.C. By the beginning of the Late Bronze Age of the Levant (c. 1550 B.C.), the Linear the invention of the Minoan 'hieroglyphs' and the Hittite ones between 2000 and 1500 Babylonian (for the latter seems to have been invented for writing the quite different strongly bound to word signs and so to the Egyptian language than was cunciform to to inland areas of Anatolia and Mesopotamia and partly because the system was more languages, partly, it may be thought, owing to the trouble and cost of importing papyrus Babylonia and Assyria. There were also Hurrians, whose agglutinative tongue was closer to the Hebrew of the Old Testament than to the East Semitic Akkadian dialects of ones. To challenge the fluctuating political powers of Egypt, Babylonia, and Assyria. B.C.). The new millennium saw the rebuilding of old cities and the founding of new A and Linear B scripts had arisen in Crete, through a process yet unclear, and related Luwian and other languages. Cunciform was an adaptable script, and was applied for Early Bronze Age city life in Syria and Palestine came to an end before the close of the

only conclusive decipherment can prove. Another demonstration of the experiments of common in Egyptian than in the other scripts). The limited number of signs used on the except perhaps the last, mixes word signs with the syllabic signs. That is to say, common and in the Canaanite script to be described shortly, without real conviction (Cazelles not relate directly to any other known script. Associations have been sought in Linear B level at Tell Deir Alla in the Jordan valley. They bear signs scratched in the clay which do scribes in this era is seen in the three small clay tablets excavated in a Late Bronze Age Dunand 1945: 71-138) - point to their being simple syllabic scripts, but this is something Each system could be used for syllabic writing alone, but this was rarely done (it is less syllables to clarify their readings, while other words may be written syllable by syllable. words or generic terms can be represented by pictures, which may have accompanying the others mentioned, cuneiform, Egyptian, Hittite, Cretan, Cypriot, yet each of those decipherment of the last two systems, it seems that they are syllabic. In this they are like Phaistos Disk and in the Byblian texts - 45 and 114 respectively (see Olivier 1975;

abundance, with examples of Hittite hieroglyphs engraved on seals, writings in Cypriot style, and some Egyptian inscriptions. Beside those there are hundreds of clay tablets literature inscribed on clay tablets in Babylonian script and language are tound there in history of the alphabet (see below, 'An early imitation') impressed with the signs of a cunciform alphabet, a most important phenomenon for the throughout the Levant. Administrative and legal documents, letters, and works 175).

The great Syrian city of Ugarit epitomizes the clerkly activity of the Late Bronze Age

The great Syrian city of Ugarit epitomizes the clerkly activity of the Late Bronze Age

# Traces of the earliest stages of the alphabet

doubt, reveals an early stage in the history of that which was to outlast all the rest, the Amongst this medley of scripts are meagre relies of one more, one which, with little

conveying messages in a Semitic language. Working backwards from the widely held recorded many Egyptian inscriptions there and also, scratched on rocks and on portable assumption that the names of the letters of the alphabet preserved in Hebrew, Greek and after Petrie's initial publication, which hinted at the alphabetic character of the signs objects, groups of signs which were different from the Egyptian hieroglyphs. Ten years lifteen of the characters in the texts which seemed to him to depict the appropriate other languages indicated the original pictorial values of the signs, he proposed values for worked in the mines, so Gardiner assumed that these might be their scratchings Near East, but an alphabet. Egyptian documents showed that people from the Levant were only about thirty, he concluded that the script was not a syllabary like others in the in numerous patterns to assure him that the majority of those in use was present. As they 1916). Although the graffiti offer no lengthy texts, there was sufficient repetition of signs fundamental perception that they are ancestral to the Phoenician alphabet (Gardiner (Petrie 1906: 130 f), the eminent Egyptologist Sir Alan Gardiner presented turquoise mines at Serabit el-Khadem on the west side of the Sinai peninsula. He The most famous examples were found when Sir Flinders Petrie was exploring ancient his

> as 'the lady of turquoise', that seemed, and still seems, very plausible. Once accepted, of four signs which occurred five times. He read them as b'lt, the Semitic ba'alat, 'lady' subjects. With these values he committed himself to the interpretation of a single group Semitic turquoise miners in Sinai during the fifteenth century B.C. and, since the Egyptian inscriptions from the site frequently speak of the goddess Hathor this decipherment alone is sufficient to show the existence of an alphabet employed by

exploration at Serabit el-Khadem, especially between 1927 and 1935, and during the coincidence between these signs and the names of the letters of the alphabet known in decipherment and more discoveries have almost removed that possibility. Renewed later times, even if small, existed. In the seventy years since Gardiner wrote, progress in dialects of Canaun during the Late Bronze Age is very limited. Rejecting Albright's bold preliminary study adding a few identifications to those of Gardiner and his followers: the talented American, W. F. Albright. After visiting the mines in 1948, he issued a tried to carry Gardiner's work forward, and a few have turned in other directions recent Israeli occupation of Sinai, has increased the number of texts to about three Gardiner's 'lady' two thirds of the signs are satisfactorily identified, and isolated words can be added to rejection of everything that he incorporated from others or proposed himself. At least attempt to establish the grammar, lexicon and translations of the texts does not imply documents and the many uncertain readings. Furthermore, knowledge of the Semitic Raincy 1975), it can hardly be judged plausible in the face of the brevity of the vigorously, adding to his readings or altering them in minor ways (e.g. Cross 1967 of twenty-seven letters (Albright 1966). Although pupils of Albright maintain his scheme then, in 1966, he published a complete decipherment of the texts, based on an alphabet (Sznycer 1972 gives a documented summary). Most influential and ambitious of all was dozen, and has brought improved readings and reproductions. Numerous scholars have Gardiner's reasoning produced an attractive conclusion. However, the possibility of a

some can be dated by external criteria and so allow a sequence to be erected. The of the thirteenth century B.C. (thirteen plus, and six signs), and potsherds and bronze principal specimens are a potsherd from Gezer (with three signs), one from Tell Nagile in the Levant which carry groups of related marks termed the Canaanite, or Canaanite of Ahiram, and How did the alphabet begin. The gap between the Proto-Sinaitic texts the history of the alphabet, for four or five hundred years separate it from the inscription become more urgent than the exact sense of the writings: Where does the script stand ir letters in the traditional order, although roughly written, probably as a school exercise at Isbet Surta in Israel (twelfth century B.C.) is noteworthy as it appears to contain the they are almost identical with those of Ahiram. A potsherd from an early Iron Age house arrowheads from the next two centuries show the development of the characters unti-(four). All these may be a little older than the Sinai texts. A jug and a bowl from Lachis) (five signs), a stone plaque from Shechem (eight), and a bronze dagger from Lachish Linear, alphabet. They are few, scattered and short, yet they are important because and Ahiram's may be partly bridged by a handful of objects from Late Bronze Age sites and chance discoveries, and each new piece does fit into the overall picture, divergences (Demsky 1977). The number of examples is constantly increasing through excavation Once the alphabetic nature of these Proto-Sinaltic texts is agreed, two questions

be removed (Hestrin, Sass, Ophel 1982) and the Abba Scal is to be dated c. 900 B.C. Age. [For a list of examples up to 1975 see Millard 1976; note that the Luchish Prism is to doubt that the same basic script could be found throughout the region in the Late Bronze in letter forms and directions of writing being explained as local or individual quirks and (Sass 1983). For the arrowheads see Bordreuil 1982.] the consequences of incising on hard surfaces signs normally written with ink. There is no

such an attempt, if the acrophonic principle is accepted. Thus the 'ox' sign, 'aleph, can be second millennium B.C. (compare Cross 1979). Mansfeld 1970.) It does seem feasible, therefore, to argue for a line back from Ahiram to awkward or anomalous forms warning against the adoption of over simple schemes. (A pupil to become O. Others can be traced in the same way. In each case the texts from followed from the picture at Scrabit el-Khadem to Byblos, and ultimately through Greek place a little earlier still, possibly in Canaan or Byblos, in the second quarter of the the Proto-Sinaitic and earliest Canaanite examples. These point to the invention taking lew sherds from Kamid el-Loz in southern Lebanon may indicate an offshoot, see Late Bronze Age Canaan display signs which fit happily into the sequence, some alpha to roman A, the water sign, mem, through to M, and the 'eye', 'ayin, losing its to be tentutive. For certain letters, however, the similarities are strong enough to support to trace a line from Ahiram back to the Proto-Sinaitic and earliest Canaunite scripts has Lacking more extensive texts, which we assume were written on papyrus, any proposal

a mercantile centre, trained to write Egyptian with pen and ink on papyrus, aware of create a set of syllabic signs for his own tongue. Some of the Egyptian signs owe their script guide the reader, and, although they are essential, the vowel signs serve normally signs used phonetically as syllables leave the vowels unspecified. Other devices in the signs for a Semitic language would need towards one hundred signs. Now the Egyptian single range for consonant+vowel. An adequate simple syllabary of consonant+vowel of scribal schooling. Once complete, the scribe can put his list of signs to use unsophisticated exercise, requiring thorough analysis of the phonemic stock of his produce a single sign for each sound is beyond telling. Whatever his process, it is a not sound in his language. Whether he creates more initially and hones them down to head, resh, r+any vowel, and so forth. Eventually he has one sign for each consonantal Thus a simple picture of water, mayim or a very similar form, represents m + any vowel, a instead creates his own, drawing on names of objects for their initial phonemes only strongest phoneme in the name. The scribe does not adopt the Egyptian signs, but syllabic value to the initial phoneme of the name of the object they depict, some to the syllables are expressed in Egyptian, and perhaps in some other scripts, too, decides to to modify the basic sense of consonantal roots. The scribe, having observed how series of quite complicated to write. All have signs for syllables, some having many more than a cunciform and, maybe, other scripts. None of them really suit his native language; all are in writing. How the invention came about may be imagined. Picture a Canaanite scribe in language, an analysis perhaps facilitated by the common practice of listing words as part The invention of the alphabet, and its early growth, took place in an era of experiment

Four corollaries of this scene deserve to be noted

- m' principle, but if applied consistently, as supposed here, cannot yield signs for vowels because words in West Semitic languages do not begin with vowels. 1 The acrophonic basis allows the generation of the consonantal signs of the 'mayin is for
- economical syllabary (as 1. J. Gelb insists, Gelb 1963: 122-53), but for its purpose it is as 2 The script is not, therefore, an alphabet in the strictest sense of the term; it is a very close as it could be to an alphabet.
- 4 Egyptian training also accounts for the direction of the script which, while varying cunciform signs were by this date. This points to the Egyptian training of the inventor, 3 Clearly the signs are shaped for writing with pen and ink, not for impressing as Hittite hieroglyphs may have been also). for it was the Egyptian script above all others which was written by this means (although
- of ordinary documents of daily life widely, is mainly from right to left, after the normal style of Egyptian hieratic, the script All this is, admittedly, hypothetical; nevertheless, it is constrained by the evidence of

other source adds a supportive contribution the few documents that do survive and by the circumstances of the other scripts. One

## An early imitation

sibilant, the other two were vowels, necessary because Hurrian words could begin with of the cunciform alphabet to accommodate certain sounds of Hurrian. One was a scribes trained in the Babylonian tradition on clay, and from left to right. Those scribes other scripts have been unsuccessful so far. This alphabet is to be understood as an requisite number of signs (Windfuhr 1970). Attempts to relate them directly to signs in Its signs are best explained as relatively simple arrangements of wedges to give the and Arabic. Nothing suggests this Ugaritic alphabet had a long history of development order is virtually identical with the traditional order of Phoenician. Hebrew, Aramaic set out in an order which is not a series of words but simply a list of the signs, and that same way as the Canaanite-Phoenician signs. About a dozen small tablets carry the signs Babylonian, and which number only thirty discrete characters. They are alphabetic in the recovered at Ugarit there are over one thousand bearing cuneiform signs which are not The 'cunciform alphabet' of Ugarit was mentioned earlier. With the Babylonian tablets the fourteenth century B.C., and so is a testimony to the impact of the Canaanite express 'aleph+i or 'aleph+u as well. The Ugaritic alphabet was invented, apparently, in for Iu, the additional signs for II and Iu. These two then served in Semitic words to vowels, and they would need to be expressed. Thus the weak consonant 'aleph was used whose language also had to be recorded. Three signs were accordingly added at the end were forced to go one step further. Ugarit's cosmopolitan citizenry included Hurrians imitation of the Canaanite one, an adoption of its principle to the cuneiform manner of written from right to left, points to further contact the cunciform alphabet at sites south of Ugarit, in Syria and in Palestine, sometimes alphabet by that time (Millard 1979). Recovery of a few texts written in variant forms of

# The alphabet versus other scripts

other writing systems in the Levant from the beginning of the Iron Age. The new states sway there; their scripts were only seen when conquering kings erected monuments or set the developed Canaanite alphabet. Babylonian and Egyptian traditions no longer held of the Ammonites, Arameans, Edomites, Israelites, Moabites and Phoenicians all used owe their origins to branches of the Aramaic (Naveh 1982). Nabatean alphabet and its offspring, the Arabic, while some of the scripts of India also A.D. Thence from Aramaic rose the Palmyrene, Hatrene and Syriac scripts, the their culture from its script, tenaciously maintained their customs into the first century eventually displaced cuneiform, although some Babylonian scribes, unable to divorce up governors, or in the course of diplomacy or trade. Through Aramaic, the alphabet The alphabet's advantages of simplicity and versatility brought it to supremacy over all

step to maturity. It could not represent their language satisfactorily without vowel signs, signs, or to their names, in Phoenician, but which now became vowels purely (e.g. 'ayin not discarded but given new values, which may have had some relation to the use of the Rhodes, employs the classic vowels, except ömega. Signs for sounds alien to Greek were move, for every one of the oldest specimens of Greek writing, scattered from Sicily to for they are indispensible for the writing of intelligible Greek. Whoever adopted the discrete sound. (For more detail than this brief account can give, see Jeffery 1982.) of the Greek alphabet). Now a true alphabet had been created; each sign stood for a and a few signs added to cover phonemes absent from Phoenician (notably the last letters became amicron, lof). Slight modifications were made to some of the consonantal values Phoenician script for Greek apparently saw the problem and made the changes in a single Free with Phoenician goods, the alphabet came to the Greeks. They took it on its last

immediately began to read and write! scribal monopoly was broken, although it should not be supposed that everyone and their traditions. With the alphabet came an easier opportunity for literacy; the was freed from the domination of the long established Babylonian and Egyptian scripts once formed, experienced an ever growing currency, coming to maturity once the Levant between them, and the prints are not all equally plain. It is likely that the infant alphabet. the steps in the growth of the alphabet seem fairly clear, even if there are some gaps From the earliest pictorial signs found in Canaan and Sinai which belong to this story

School of Archaeology and Oriental Studies University of Liverpool

hilingue assero-aramienne. Paris: Editions Recherche sur les civilisations, A.D.P.E. Abou Assaf, A., Bordrewil, P., Millard, A. R. 1981. La Statue de Tell Fekherye et son inscription

Studies 22. Cambridge, Mass.: Harvard University Press. Albright, W. F. 1966. The Prote-Sinaine Inscriptions and their Decipherment. Harvard Theological

Bordreuit, P. 1982. Epigraphes phéniciennes sur bronze, sur pierre et sur céramique. In Archéologie au Levant. Recueil R. Saidah. Lyons: Maison de l'Orient, pp. 187–90.

Cazelles, H. 1975. Les textes de Deir Alla. In Le déchiffrement des écritures et des langues (ed. J. Leclant). Paris: L'Asiathèque, pp. 95-9.

Cross F. M. 1967. The origin and early evolution of the alphabet. Eretz Israel 8: 8-24

Cross F. M. 1979, Early alphabetic scripts. Symposia celebrating the Seventy-fifth Amiliversary of the American Schools of Oriental Research. (ed. F. M. Cross) Cambridge, Mass. American Schools of Oriental Research, pp. 97-123.

implications for the history of the alphabet. Tel Aviv 7: 14-27. Demsky, A. 1977. A Proto-Canaanite abecedary dating from the period of the Judges and its

Dunand, M. 1945. Byblia Grammata. Beyrouth: Direction des Antiquités.

Bussaud, R. 1924. Les inscriptions phéniciennes du tombeau d'Ahiram, roi de Byblos. Syria 5: 135-57

Archaeology 3: 1-16. Gardiner, Alan H. 1916. The Egyptian origin of the Semitic alphabet. Journal of Egyptian

Gelb, I. J. 1963. A Study of Writing. 2nd ed. Chicago: University Press

Gibson, J. C. L. 1982. Textbook of Syrian Semitic Inscriptions III, Phoenician Inscriptions Oxford: Clarendon Press.

Egyptiun? Israel Exploration Journal 32: 103-06. Hestrin, R., Sass, B., Ophel, A. 1982. The Lachish prism inscription - Proto-Canaanite

J. Boardman et al.). Cambridge University Press, pp. 819-33. Jeffery, L. H. 1982. Greek alphabetic writing. The Cambridge Ancient History, vol. 3. part i (ed

Munsfeld, G. 1970. Scherben mit altkanaanäischer Schrift. In Schriftdokumente aus Kamid el-Loz. Saarbrücker Beiträge zur Altertumskunde 4 (ed. D. O. Edzard et al.). Bonn: R. Habelt, pp. 24-41. Matthiae, G. S. 1979. Vasi iscritti di Chephren e di Pepi I nel palazzo reale G di Ebla. Studi Eblain

Matthiae, P. 1977. Ebla. An Empire Rediscovered. London: Hodder and Stoughton. 1: 33-43

Millard, A. R. 1976. The Canaanite linear alphabet and its passage to the Greeks. Kadnios 15: 13()-44

Millard, A. R. 1979. The Ugaritic and Canaanite alphabets - some notes. Ugarit-Forschungen 11

Olivier, J.-P. 1975. Le disque de Phaistos. Bulletin de Correspondance Hellenique 99: 6-34 Naveh, J. 1982. Early History of the Alphabet. Jerusalem: Magnes Press; Leiden: E. J. Brill

Petrie, W. M. F. 1906. Researches in Sinai. London: John Murray

Ancient Neur Eastern Society of Columbia University 5: 354-73. Porada, E. 1973. Notes on the Sarcophagus of Ahiram. The Gaster Festschrift. The Journal of the

Ruincy, A. F. 1975. Notes on some Proto-Sinaitic inscriptions. Israel Exploration Journal

al.), Tübingen: Ernst Wasmuth, pp. 367-73. Röllig, W. 1982. Die Ahiröm-Inschrift. Bemerkungen eines Epigraphikers zu einem kontroversen Thema, *Praestant Interna, Festschrift für Ulrich Hausmann* (ed. B. von Freytag gen. Löringhoft, et

Study of the Cultural Connections. Warminster: Aris and Phillips. Sughieh, M. 1983. Byblos in the Third Millennium B.C.: A Reconstruction of the Stratigraphy and a

Sass, B. 1983. The Revadim Seal and its Archaic Phoenician inscription. Anatolian Studies 33:

Sznycer, M. 1972. Protosinatiques (inscriptions). Supplément au Dictionnaire de la Bible. Paris Letouzey et Ané, 8, cols 1384-95