THE SPREAD OFTHE ATERIAN BLADE INAFRICA

DR. FAYEZ ANWAR ABDELMOTELB MASSOUD*

Abstract

North Africa knew the *Aterian* blade - I think the word is better related to the *Ater* Well in Algeria - which dates back to the Middle *Palaeolithic*. This research paperaimes at shedding light on the spread of thebladeinAfrica.

Aterian blade characterized by the blade guilty instrument or trailing tongue which was used in hunting and possibly in other matters.

This blade was found in North Africaand spreadto the West,South and East Africa.As a result of Middle *Palaeolithic's* man moving due to changing of the climate conditions. It seems that the climate conditions were affecting the *Palaeolithic's* man's moving to those directions to convey his new culture and knowledge to the people whom he moved to.

TheMiddle *Palaeolithic*differentiated in North Africa by the existence of a stonebladecalled the *Aterian* blade¹-the subject of the study-which was foundinmore than one place Africa, and the study will follow the spreading of this blade in Africa².

The study aimes to answerseveral questions: Why the Middle *Palaeolithic* men moved from place to place, andhow they knewits routes, and whether ithada culturalimpactfrom place to another and for the variety of the *Aterian* blade sites in whole Africa, the research is going to draw a map for it instead of drawing many maps forimagining the entire sites in a glance.

The archaeological sitewherestone tools were foundfor the first time is located near thestreamvalleycalled *WadiAlgabna* alongside cemetery of the city. This site is far from *Bir el Ater* about threekilometers to the south, and about fourkilometers from then of the phosphate mine, and farwas for away from the *Bir* of the Priestessabout 700 meters³.

Regarding the name of *Bir el Ater* and the *Aterian* civilization, Jamal Badri stated that there were two stories behind this name: *BirAlatr*. The first of them that when the Muslims arrived to the area, the Berber Priestess gave the

^{*}Assistant Professor of Ancient History Faculty of Arts - Damanhour University, Egypt.

¹Ihave to give a few examples of the *Aterian* blade because of its numerous models to avoid the excess of thenumber of the research pages.

²There are some studies that confirm the existence of the Aterian blade in Arabia, but the core of this paper is confinedtoAfrica.

E. M. L. Scerri, 'A new stone tool assemblage revisited: reconsidering the 'Aterian' in

Arabia', Proceedings of the Seminar for Arabian Studies42 (2012), pp.357-370.

³GamalBadri.,adwā[°] 'lyālhāratāl ʿātryat (Lights on Aterian Civilization) . Algeria, 2010, p.27.

order, to her subjects, to put perfumes in the well to prevent the Muslims from drinking the water. It is historically known the Muslims defeated the Priestess and killed her after fierce engagements. The Muslims found scented water so they called the well (بنر العاتر) andby the time its name changed into (بنر العاتر). The second story is about the existence of a well in that area called "*Atra* or *Aatra*" which means "short" in the local tongue. So, the area is known as *Bir Al Ater*⁴.

Hugot said: ((At the present stage of research it would appear therefore that in the Sahara the *Aterian* takes the place occupied elsewhere by the Mousterian, and shares several of its features such as the use of the *Levallois* technique, which appears not only in the style of retouching but also in the typology of the finished objects. However the *Aterian* differs from the Mousterian in two essential characteristics:

- 1- The presence of tanged objects that might serve as boring instruments, either retouched or in a rough form, scrapers, awls or even drills.
- 2- Noticeable statistical differences from the classical Mousterian industry were found. Apart from this, however, the idea of a Mousterian substratum remains strong, and although we have no *Aterian* skeletons it is quite usual to attribute this interesting industry to relation of Neanderthal man))⁵.

It is believed that the *Aterian*man developed this new technologyto facilitate his workafter he noticed as hortage in histools. This is shownclearly through its stalk which madecarefully to help the handle to control that toolor to use it as an endto putother long parts like a stick for hunting⁶.

JamalBadristated thatthe pioneer of calling the *Aterian*civilization by this name is the archaeologistMaurice Reygasse who discovered it in 1922 when he wasdoinghisexcavations in the valley of *Bir el Ater*, Algeria⁷.

Argumentshas revolved around the origin of the *Aterian* blade industry, it is an extension for the Mousterian industries which dates back to the Middle *Palaeolithic* or not^8 . Palo, David Bruce Milford and Wabeouf believed that the

⁶GamalBadri,.,op.cit.,, p.57.

⁴Ibid., p.26.

⁵H. J. Hugot., 'The prehistory of the Sahara', General History of Africa, I, Methodology and African Prehistory, ed. Ki-Zerbo. J, Unesco, University of California Press, 1981, p.594.

⁷Muhammad B. Mahran., ālmghrbālqdym, msr w ālshrqālādnyālqdym (9) (The Ancient Maghreb and the Near East), vol. 9. Alexandria, 1990; p.11;Badri, Gamal.,op.cit., p.24;Bard. K. A., The Encyclopedia of the Archaeology of Ancient Egypt, edited by Bard. K. A, London, 1999, p.207.

⁸M. Cremaschi and S. Di Lernia., 'Holocene Climatic Changes and Cultural Dynamics in the Libyan Sahara', *AAR*16, No. 4 (Dec., 1999), p.213.

Aterian blade replaced the Mousterian one. It spread in Maghreb and in North and south Sahara.⁹Campus and Hugo also believed that the Aterianwas bornfrom the womb of *Mousterian*¹⁰. Hugo said: "We know that the *Aterian* is a North African industry that was diffused southwards and stopped roughly along the banks of the great lakes of the southern Sahara"¹¹. The Aterian culture was widespread. We find it in Tunisia, Morocco, Algeria, Saoura, Tidikelt, and Mauritania where Adrar roughly marks its limits. We find it everywhere, in Ahagger at the AdmerErg, at Tihodaïne, at AdrarBous, and also in the Fezzan, in Zumri, and at its most easterly point at Kharga in Egypt¹². Those placesareemphasized byElana Garcia who stated thatthe Aterianblade industry¹³.In isAfricandomestic addition,FrancisOrr who believed that found in allArab Maghrebstartingfrom Alatrawas Morocco (Dar Sultansites Tafforlat) up to Algeria, the borders of the desert and the Nile Valley (the Oases of *Siwa* and *Kharga*)¹⁴

Palo believes that the dates produced in the *Maghreb* and the Sahara were between 37 000 and 30 000 BC and constituted a coherent and plausible sequence. In its beginnings, the *Aterian* is thus in the early Middle *Palaeolithic*. It is subsequently contemporary with the *Castelperronian* and the *Aurignacian*, that is, the early stage of the Upper *Palaeolithic* in France at least¹⁵.Elena Garcia indicatedthatthe *Aterian* bladediscovered 40000 BC¹⁶. This date is welcomed by Francis Orr who confirmed this opinion by saying: "At about 40000 BC the *Aterian* industry that we merely know its tools, which resemble the Mousterian with *Levallois* faces, with a high proportion of trimmed surfaces. On the other hand, a substantial part of the tools consisted of guilty slimmed down tools on both sides. The first appearance of the *Aterian* dates back to the era of *Würm* the

⁹L. Balout., 'The Prehistory of North Africa', General History of Africa, I, Methodology and African Prehistory, ed. Ki-Zerbo. J, Unesco, University of California Press, 1981, p.568; Brose. D. S and Wolpoff. M. H., Early Upper Paleolithic Man and Late Middle Paleolithic Tools, *American Anthropologist* Vol. 73, No. 5 (Oct., 1971), p.1164.

¹⁰Camps, G., Les CivilisationPréhistorique de L'afrique du Nord et du Sahara, Paris (1974), p.30.

¹¹Hugot. H. J., op.cit., p.594.

- ¹²Ibid., pp.594, 595; C. Gabel., 'Radiometric Age Determinations for Early Hominids and for the Pre-agricultural Stone Age in Africa', *IJAHS* 5, No. 1 (1972), p. 10.
- ¹³E. A. A. Garcea., 'Crossing Deserts and Avoiding Seas: Aterian North African-European Relations', *Journal of Anthropological Research* 60, No. 1 (Spring, 2004), p.44.
- ¹⁴Orr, Francis, hdarātāl şrālhjryalqdym (The Palaeolithic Civilizations). Translated by Sultan Mehesen.2nd ed. Damascus, 1995, p.147.

¹⁵Balout. L., op.cit., p.573.

16Garcea. E. A. A., op.cit. p.44.

Second, which is contemporary to the advanced Mousterian tools in Europe, but it lasted until about 25000 BC"¹⁷. Hugo said: "It is very difficult to place the *Aterian* in a chronological sequence. It may have begun 35000 BC¹⁸, while Caton Thompson attributed *Aterian* time to the end of the Middle *Palaeolithic* Period and the beginning of the Upper *Palaeolithic*¹⁹.

There are cases where *Aterian* implements have been found, in their original condition, in the neo-Tyrrhenian beaches which had just emerged as a result of the beginning of the last great regression (for example, at *Karouba*, near *Mostaganem*, western Algeria). The end of this *Würmian* interstadial (*Würm* 1/2) had occurred around 48000 BC²⁰.

Regarding Morocco, *Aterian* blades were found there in the Valley of $l'OuedDjoufElDjemel^{21}$ and also in the Valley of $l'OuedGoujgal^{22}$, as well as the *ElAliya* Cave on the region of Tangier,²³ in addition to Dar Al-Sultan which Barton and others dated it back to 108000 BC²⁴. Such date is considered to be the oldest one of *Aterian* blade.

- ¹⁷Orr, Francis., op.cit., p.147.
- ¹⁸Hugot. H. J., op.cit., p.595.

- ²¹J. Morel and A. Le Bretagn., 'L'industrieatérienne de l'OuedDjouf El Djemel. Comparaison avec l'industrie de l'OuedDjebbana. Le complexeatérien du Maghreb Oriental', *BSPF*75, No. 11/12, Études et Travaux(1978), p.489.
- ²²A. Rodrigue., 'La station de l'OuedGoujgal Un aspect de l'Atérienmarocain', *BSPF*84, No. 5 (1987), p.158.
- ²³A. Bouzouggarand others, Study of the Aterian lithic assemblages from El Aliya cave in Tangier (Morocco), L'Anthropologie 106 (2002), fig.19, p.231.
- ²⁴R. N. E. Barton., OSL dating of the Aterian levels at Dar es-Soltan I (Rabat, Morocco) and implications for the dispersal of modern Homo sapiens, *Quaternary Science Reviews* 28 (2009), p.1929.

¹⁹Caton-Thompson.G and Gardner. E. W., 'The Prehistoric Geography of Kharga Oasis', *GeoJourn*80, No. 5 (Nov., 1932), p.384.

²⁰Balout. L., op.cit., p.573.



Morel. J and Le Bretagne. A., op.cit., fig.3.

As forAlgeria, many models of *Aterian* blade were found there²⁵, among which were that made from flint and quartz in the *Tiaret* area²⁶



De Bayle des Hermens R. Gisementspréhistoriquesinédits de la région de Tiaret (Algérie). In: *Bulletin de la Sociétépréhistoriquefrançaise*. Étudesettravaux. 1964, tome 61, N. 2. Fig.1. 1, 3

And it was also found in the Valley of $Saoura^{27}$ as well as in the *FronzyTiaret* area²⁸.

²⁵R. Smith., 'L'âge de la pierre en Algérie', *RevArch*35 (1932), p.140.

²⁶De Bayle des Hermens R. Gisementspréhistoriquesinédits de la région de Tiaret (Algérie). In: *BSPF* 61, N. 2 (1964), pp. 452-463.

²⁷ N. Chavaillon., 'L'Atérien du Foum el Hartani au Sahara nord-occidental (RépubliqueAlgérienne)', <u>BSPF</u> 82, (1985), p.307.

²⁸ De Bayle des Hermens., 'Les industries préhistoriques de la CitéFronzyTiaret – Algérie', <u>BSPF</u> 61, (1964), figs.1, 2, 3, 5.

ForTunisia, the*Aterian* bladewas found also inits land, for example, at the site of *ElGuettar*²⁹.

The archaeological remains at **Libya** indicated, by radioactive carbon 14, that the *Aterian* civilization in Western mountain and in the northwest of Libya, dated back to 43 000 BC³⁰, while Barbara Barish and ElanaGarcia confirmed that it dated back to the Middle *Palaeolithic*³¹.



Barbara E. Barich and Elena A. A. Garcea., Ecological Patterns in the Upper Pleistocene and Holocene in the Jebel Gharbi, Northern Libya: fig.3. p.91.

The archaeological remainsof the *Aterian* civilization were found in the Valley of *UanAfuda*, as well as in the Valleyof *UanTabuinTadraratAcacus* Mountains in the south-westof Libya. It dated more than 48 000 BC³². Elana Garcia pointed out the importance of re-dating the Aterian civilization, that's because the old dates return it back between 40 000 and 20 000 BC, while recent ones found in *TadaratAcacus* region dated this civilization to more than 48 000 BC³³.

- ²⁹J. J. Hublin., 'Recent Human Evolution in Northwestern Africa', <u>*Philosophical Transactions: Biological Sciences*</u>, Vol. 337, No. 1280, The Origin of Modern Humans and the Impact of Chronometric Dating (Aug. 29, 1992), p.186.
- ³⁰E. A. A. Garcea., op.cit., p.34; E. A. A. Garcea., 'L'adaptationAtérienne Entre Sources D'eau et Sécheresse', <u>Africa: Rivistatrimestrale di studi e</u> <u>documentazionedell'Istitutoitaliano per l'Africael'Oriente</u>, Anno 64, No. 3/4 (Luglio-Dicembre 2009), p.414.
- ³¹B. E. Barich and E. A. A.Garcea., "Ecological Patterns in the Upper Pleistocene and Holocene in the Jebel Gharbi, Northern Libya: Chronology, Climate and Human Occupation", *The African Archaeological Review, Vol. 25, No. 1/2, Modern Human Dispersals, Environments and Cultural Change in the Late Pleistocene of Northwest Africa (Mar. - Jun.,2008)*, p.90.
- ³²E. A. A.Garcea., Crossing Deserts and Avoiding Seas., pp.35-36; M. Cremaschi and others., 'Some Insights on the Aterian in the Libyan Sahara: Chronology, Environment, and Archaeology', <u>AAR</u> 15, (1998), p.261.
- ³³E. A. A. Garcea., Crossing Deserts and Avoiding Seas, p.36.



The Aterian bladein AcacusMountainsinsouthwestLibya Cremaschi. M and others., "Some Insights on the Aterian in the Libyan Sahara: Chronology, Environment, and Archaeology", <u>*The African Archaeological Review*</u>, Vol. 15, No. 4 (Dec., 1998), fig. 2, p.267.

Mauro Cremaschi and othersfound, through their archaeologicalsurveyin *Acacus*Mountain of southwesternLibya, about14 sites dating back to *Aterian* civilization, for instance *UanAfuda* and *UanTabu*³⁴. While the *Aterian* blade was discovered in the regions of *Edeyenof Murzuq*, *ErgUanKasa* in southernLibya³⁵.



The Aterian blade in the region of Edeyen of Murzuq, Erg UanKasain southernLibya Cremaschi. M and others.,op.cit., fig. 8, p.278.

³⁴Cremaschi. M and others.,op.cit., p.263. ³⁵Ibid. p.278.

The *HauaFteah* cave contained human remains which include two Neanderthal mandibles³⁶. The *Aterian* bladewasfound as well in the *HauaFteah*Cave which was, according toarchaeologists, a linkbetweenWestandEastAfrica³⁷. The *Aterian* civilization there dated back to about 43000 BC.

The human bone remains from this stage were similar to the human remains of Neanderthal Palestine man; this matter leads to the existence of mankind and cultural links between Palestine and $Morocco^{38}$.

Regarding to Niger : models of the *Aterian* blade were found there in the *Kawar* desert region³⁹.

It was discovered also in **Chad** particularly in the northern part of Chad Basin. The Archaeological excavations that carried out on later area (1976 – 1979) resulted in the presence of the *Aterian* blade mainly in the regions of *Cegedim* and *AdarBoss*⁴⁰. Those excavations gave a chronology for the *Aterian* period that started 31 000 BC⁴¹. It is believes that the arrival of the *Aterian* bladetoChadprobablycamefrom the region of *Hoggar* in southern Algeriaand it was accessed through*Tibesti*tospread all overChad Basin⁴².



Tillet. T., The Palaeolithic and Its Environment in the Northern Part of the Chad Basin, <u>*The African Archaeological Review*</u>, Vol. 3 (1985), Fig.6, p.171.

- ³⁶A. Bilsborough., 'Late Pleistocene Human Remains from Cyrenaican Libya', <u>Man</u>, (1971), p.694.
- ³⁷E. A. A. Garcea., L'adaptationAtérienne Entre Sources D'eauetSécheresse, p.414.
- ³⁸Muhammad B. Mahran., op.cit., pp.14, 15.
- ³⁹T. Tillet. 'The Présence de pendeloques en milieu atérien au Niger Oriental', <u>**BSPF**</u>(1978), p.273.
- ⁴⁰T. Tillet., 'The Palaeolithic and Its Environment in the Northern Part of the Chad Basin', <u>AAR</u> 3 (1985), p.163.
- ⁴¹Ibid, p.172.
- ⁴²Ibid, p.175.

Regarding to Mali, the *Aterian* blade was found in its northern desert.⁴³.

In Egypt, Caton Thompson stated that she found 28 type of the *Aterian* blade at *Kharga* Oasis only⁴⁴. She also found it in the *Dakhla* Oasis⁴⁵, Farafra, Bahariya and Siwa oases⁴⁶. Besides, she reported that the *Aterian* blade arrived to the Egyptian oases particularly the *Kharga* onr where they found sophisticated types of *Aterian* industry such as the tools, arrows and knife trimmed⁴⁷.

Aswan region and *Dongol* Oasis were other places where the *Aterian* blade was found⁴⁸. Besides, it was there in *WadiHalfa*⁴⁹ and*Nabta* Playa⁵⁰. In addition, it was found in the areas of *Bir* Sahara and *BirTar-fawi* in southern Egypt⁵¹. Moreover, the*Aterian* blade was discovered in the Eastern Desert where these blades were found in *Sodmein* cave at the Red Sea Mountains northeast of Luxor and dated back to 38 000 BC⁵².

AhmedFakhrypointed out that Stone and *Komngton*had foundin the*Siwa* Oasissome tools which, according to them, had effects thatcamefrom the Maghreb region. *Aterian* civilization affected Egyptian sites that were found

- ⁴³N. Petit-Maire., "Past Global Climatic Changes and the Tropical Arid/Semi-Arid Belt in the North of Africa", *Journal of Coastal Research*, , Special Issue No. 17. Holocene Cycles: Climate, Sea levels, and Sedimentation (1995), p.89.
- ⁴⁴G. Caton-Thompson., 'Royal Anthropological Institute's Prehistoric Research Expedition to Kharga Oasis, Egypt. Preliminary Outline of the Season's Work', <u>Man</u>, Vol. 31 (May, 1931), p. 82, fig.3, p.83.
- ⁴⁵W. K Barnett and Others, 'News and Short Contributions', JFA 18, (1991), p.270. fig.2f.
- ⁴⁶A. L. Hawkins, Getting Handle on Tangs: Defining the Dakhleh Unit of the Aterian Techno Complex-A Study in Surface Archaeology from Dakhleh Oasis, Western Desert Egypt. Ph. Department of Anthropology, University of Toronto, 2001, p.88.
- ⁴⁷Caton Thompson and E. W. Gardiner., Kharga Oasis in Prehistory, University of London, 1952, p.31.
- ⁴⁸K. A., Bard, op.cit., pp. 11, 207.
- ⁴⁹P. E. L. Smith, New Prehistoric Investigations at KomOmbo (Upper Egypt), University of Montreal, 2009, p.39.
- ⁵⁰R. Bauvaland T. Brophy, The Prehistoric Origins of Ancient Egypt, Toronto, Canada, 2011, p.150.
- ⁵¹ V. Haynes., 'The Prehistory of the Egyptian Sahara', *Science* 193, (1976), p.106.
- ⁵² P. Van Peer, 'The Nile Corridor and the Out-of-Africa Model: An Examination of the Archaeological Record', *Current Anthropology*, Vol. 39, No. 2, Supplement: Special Issue: The Neanderthal Problem and the Evolution of Human Behavior (Jun., 1998), p.119.

at*Naqada*, between *Dendera* and *Marashda*near *NagaHammadi*, *Assiut*, and in the suburbs of Luxor⁵³.

Sudan regionhad a share of the existence of the *Aterian* blades in its land, for instance the sites of *El- Multaga*⁵⁴, *Magendohli*⁵⁵, and also*Khartoum*⁵⁶. Those blades spread out on the middle of the desert in the site of *AïnChelbli*⁵⁷.

Hawkins⁵⁸ and Mustafa Aasha confirm that in the areas of Morocco there were a lot of sites which date back to *Aterian* civilization, and that made Morocco the pioneer area of this industry .It was the main source of the distribution of the *Aterian* blade to rest of North Africa as well as the Sahara⁵⁹.

Jamal Badriconcluded depending on that the concentration of *Aterian* blade sites from the west to the east is insufficient criterion to evaluate the impact of the Western effect on the eastern regions because there are lots of sites that have not been revealed yet or they have not been adequately studied⁶⁰.

Lakhdar, bin Bozaidwondered about the source of population migration and civilizing influence. So, he tried to answer some questions on the light of that the *Aterian* sites which located in the region were given all this civilization stages: how the linkage between Palestine Neanderthal men and Neanderthal in Maghreb happened? Was the *Aterian* blade been original in the region or an

⁵³Muhammad B. Mahran., op. cit., p.13.

⁵⁴Garcea.E. A. A., 'Paleolithic sites at El- Multaga, Sudan', *NyAk* 59 (2003), p.64.

⁵⁵D. L. Wallsmith, A Middle Paleolithic Assemblage from Nubia and its Cultural Relationships, Thesis Submitted in Partial Fulfillment of the Requirement for the Degree of Master of Arts in the Department of Archaeology, Simon Fraser University, 1983, p.68.

⁵⁶Caton-Thompson. G., "The Aterian Industry: Its Place and Significance in the Paleolithic World", *JRAI* 76, (1946), p.108.

⁵⁷A. Méry, "Armatures de pointes de flèches de la région de Reggan (Sahara Central)", BSPF 68, (1971), p.631.

⁵⁸A. L. Hawkins. A. L., op.cit., p.87.

⁵⁹M. Aasha, nmādhjmnāltwāşlālhdārybynshmālafryqyā w ālşhrā³ālkbrykhlāl⁵şwrmāqblāltārykh (Examples of Civilizational Interaction between North Africa and the Great Sahara during Pre- History). Mohamad V University: Institute of African Studies, Rebate, Morocco, n.d. in: http://www.tawalt.com/?p=23049.

⁶⁰G. Badri, op.cit., p.34.

imported civilization? He said: "Then we have a demographic and cultural move from Morocco towards Egypt in the east and that was in very early time"⁶¹.

Perhaps the *Aterian* men moved from old Morocco to the east and south as a result of climatic conditions. They searched for any available resources and with no intention they distributed their culture which included the industries of *Aterian* blade⁶². Besides, there is no doubt that the contacts between Egypt and Morocco occurred in very ancient times dating back to pre-history in the *Palaeolithic* stage⁶³.

Hayes believes that those smart people had a great influence in the future of the Egyptian civilization⁶⁴. Consequently, Scerri draw a map distributing *Aterian* blade sites in Africa⁶⁵.



Placesthe Aterian bladeinAfrica

⁶¹Lakhdar, bin Bozaid., ālţāsylyazjrfyqblāltārkhālm tqdāt w ālfnālşkhry (The TassiliN'Ajjer in the Pre-History of Religions and Rock Art). Algeria, n.d, p.51.

⁶²A. L. Hawkins, op.cit., p.51.

- ⁶³Suleiman, bin Alsaady., 'lāqātmsrbālmghrbālqdymmndhfjrāltārykhhtyālqrnālsāb qblālmylād (The Relations of Egypt with the Ancient Maghreb from the dawn of History up to the Ninth Century BC). PhD Dissertation in Mentoury University, Qusantina, Algeria, 2009, p.125.
- ⁶⁴W. C. Hayes, Most Ancient Egypt, edited by Seele. K. C, University of Chicago Press, Chicago & London, 1965, p.66.
- ⁶⁵E. M. L. Scerri, 'The Aterian and its place in the North African Middle Stone Age', *Quaternary International* 30 (2012), fig.1, p.2.

Scerri. E. M. L, "The Aterian and its place in the North African Middle Stone Age", <u>Quaternary International</u> xxx (2012), fig.1

Needless to say that the datesprovided for dating the *Aterian*civilizationstill needextensive studies providenew results. Moreover, the large number of *Aterian* civilizational sites in Africa makes it difficult to gain access to final results about their date.

The existence of most *Aterian* regions in the area of the old Morocco - especially Algeria and Morocco – give a possibility for an opinion that this region was the source of manufacturing the *Aterian* blade that spread to the south and east. This opinion was provedbyBarton who dates the site of *Deir Sultan* in Morocco by 108 000 BC^{66} , which is considered the oldest date to *Aterian* civilization.

Conclusion.

- The *Aterian* men distributed their blade in many parts of Africa due to continuity of their travels that caused by climate changes. Those men were looking for other places more suitable for living and that is proved by the existence of that blade in many places.
- That man who was accustomed to those routes was forced to look for permanent water sources when his regions were dry.
- The *Aterian* men associated with the Nile Valley populations and practiced agriculture.Yet, at the same time the *Aterians* were influenced by their original culture which was known later on as the Rock Art.

⁶⁶R. N. E. Barton, OSL dating of the Aterian levels at Dar es-Soltan I (Rabat, Morocco), p.1929.

This English-Mable transiteration system could be found in the following consonants.			
Arabic	English	Arabic	English
ç	С	ظ	Ż
ĺ	a	ع	c
1	ā	غ	Gh
ب	b	ف	F
ت	t	ق	Q
ث	th	ای	K
ح	j	ل	L
۲	h	م	М
Ż	kh	ن	N
د	d	٥	Н
ذ	dh	و	w/ū
ر	r	ي	Y
j	Z	ö	ah/at
س	S	<u>_</u>	A
ش	sh	-	Ι
ص	Ş	٤	An
ض	ģ	-	In
ط	ţ		

List of Transliterations This English-Arabic transliteration system could be found in the following consonants:

Bibliography

The Arabic References:

- Aasha, Mustafa.,nmādhjmnāltwāşlālhdārybynshmālafryqyā w ālşhrā³ālkbrykhlāl⁵şwrmāqblāltārykh(Examples of Civilizational Interaction between North Africa and the Great Sahara during Pre-History). Mohamad V University: Institute of African Studies, Rebate, Morocco, n.d. in: http://www.tawalt.com/?p=23049.
- Badri, Gamal.,adwā[°] 'lyālhāratāl'ātryat(Lights on Aterian Civilization) . Algeria,2010.
- Lakhdar, bin Bozaid.,ālţāsylyazjrfyqblāltārkhālmʿtqdātwālfnālşkhry(The TassiliN'Ajjer in the Pre-History of Religions and Rock Art). Algeria, n.d.
- Muhammad B.Mahran.,ālmghrbālqdym, msr w ālshrqālādnyālqdym (9)
 (The Ancient Maghreb and the Near East), vol. 9. Alexandria, 1990.
- Orr, Francis.,ḥḍārātālʿşrālḥjryālqdym(The PalaeolithicCivilizations).Translated by Sultan Mehesen. 2nd ed. Damascus, 1995.
- Suleiman, bin Alsaady.,
 `lāqātmsrbālmghrbālqdymmndhfjrāltārykhhtyālqrnālsāb qblālmylād (The Relations of Egypt with the Ancient Maghreb from the dawn of History

up to the Ninth Century BC). PhD Dissertation in Mentoury University, Qusantina, Algeria, 2009.

The References in European languages

- Balout. L., The Prehistory of North Africa, General History of Africa, I, Methodology and African Prehistory, ed. Ki-Zerbo. J, Unesco, University of California Press, 1981.
- Bard. K. A., The Encyclopedia of the Archaeology of Ancient Egypt, edited by Bard. K. A, London, 1999.
- Barich. B. E and Garcea. E. A. A., Ecological Patterns in the Upper Pleistocene and Holocene in the Jebel Gharbi, Northern Libya: Chronology, Climate and Human Occupation, <u>The African</u> <u>Archaeological Review, Vol. 25, No. 1/2, Modern Human Dispersals,</u> <u>Environments and Cultural Change in the Late Pleistocene of</u> <u>Northwest Africa (Mar. - Jun., 2008)</u>, pp. 87-97.
- Barnett. W. K and Others, News and Short Contributions, *Journal of Field Archaeology*, Vol 18, No. 2 (Summer 1991), pp.253-273.
- Barton. R.N.E, Bouzouggar. A, Collcutt. S.N, Schwenninger. J.L and Balzan. L. C., OSL dating of the Aterian levels at Dar es-Soltan I (Rabat, Morocco) and implications for the dispersal of modern Homo sapiens, <u>Quaternary Science Reviews</u> 28 (2009) 1914–1931.
- Bauval. R and Brophy. T., The Prehistoric Origins of Ancient Egypt, Toronto, Canada, 2011.
- Bilsborough. A., Late Pleistocene Human Remains from Cyrenaican Libya, *Man*, New Series, Vol. 6, No. 4 (Dec., 1971), pp. 694-696.
- Bouzouggar. A and others, Study of the Aterian lithic assemblages from El Aliya cave in Tangier (Morocco), <u>*L'Anthropologie*</u> 106 (2002) 207–248.
- Brose. D. S and Wolpoff. M. H., Early Upper Palaeolithic Man and Late Middle Palaeolithic Tools, <u>American Anthropologist</u>, New Series, Vol. 73, No. 5 (Oct., 1971), pp. 1156-1194.
- Camps, G., Les CivilisationPréhistorique de L'afrique du Nord et du Sahara, Paris (1974).
- Caton-Thompson. G., Royal Anthropological Institute's Prehistoric Research Expedition to Kharga Oasis, Egypt. Preliminary Outline of the Season's Work, <u>Man</u>, Vol. 31 (May, 1931), pp. 77-84.
- Caton-Thompson. G., TheAterian Industry: Its Place and Significance in the Palaeolithic World, <u>The Journal of the Royal Anthropological</u> <u>Institute of Great Britain and Ireland</u>, Vol.76, No. 2 (1946), pp. 87-130.
- Caton-Thompson. G and Gardner. E. W., The Prehistoric Geography of Kharga Oasis, *The Geographical Journal*, Vol. 80, No. 5 (Nov., 1932), pp. 369-406.

- Caton Thompson and Gardiner. E. W., Kharga Oasis in Prehistory, University of London, 1952.
- Chavaillon. N., L'Atérien du Foum el Hartani au Sahara nord-occidental (RépubliqueAlgérienne), *Bulletin de la Sociétépréhistoriquefrançaise*, T. 82, No. 10/12, Études et Travaux (1985), pp. 307-337.
- Cremaschi. M andothers., Some Insights on the Aterian in the Libyan Sahara: Chronology, Environment, and Archaeology, <u>*The African Archaeological Review*</u>, Vol. 15, No. 4 (Dec., 1998), pp. 261-286.
- Cremaschi. M and Di Lernia. S., Holocene Climatic Changes and Cultural Dynamics in the Libyan Sahara, <u>*The African Archaeological Review*</u>, Vol. 16, No. 4 (Dec., 1999), pp. 211-238
- De Bayle des Hermens., Les industries préhistoriques de la CitéFronzyTiaret Algérie, <u>Bulletin de la Sociétépréhistoriquefrançaise</u>. Études et travaux, T. 61, Fasc. 1 (1964),pp. 65-83.
- De Bayle des Hermens R. Gisementspréhistoriquesinédits de la région de Tiaret (Algérie). In: *Bulletin de la Sociétépréhistoriquefrançaise*. Étudesettravaux. 1964, tome 61, N. 2. pp. 452-463.
- Gabel. C., Radiometric Age Determinations for Early Hominids and for the Preagricultural Stone Age in Africa, *The International Journal of* <u>African Historical Studies</u>, Vol. 5, No. 1 (1972), pp. 1-21.
- Garcea. E. A. A., Palaeolithic sites at El- Multaga, Sudan, <u>NyameAkuma</u>, No. 59 June 2003, pp.62-65.
- Garcea. E. A. A., Crossing Deserts and Avoiding Seas: Aterian North African-European Relations, *Journal of Anthropological Research*, Vol. 60, No. 1 (Spring, 2004), pp. 27-53.
- Garcea. E. A. A., L'adaptationAtérienne Entre Sources D'eau et Sécheresse, <u>Africa: Rivistatrimestrale di studi e</u> <u>documentazionedell'Istitutoitaliano per l'Africael'Oriente</u>, Anno 64, No. 3/4 (Luglio-Dicembre 2009), pp. 412-421.
- Hawkins. A. L., Getting Handle on Tangs: Defining the Dakhleh Unit of the Aterian Techno Complex-A Study in Surface Archaeology from Dakhleh Oasis, Western Desert Egypt. Ph. Department of Anthropology, University of Toronto, 2001.
- Hayes. W. C., Most Ancient Egypt, edited by Seele. K. C, University of Chicago Press, Chicago & London, 1965.
- Haynes. V., Gautier. A and Kobusiewicz. M., The Prehistory of the Egyptian Sahara, *Science*, New Series, Vol. 193, No. 4248 (Jul. 9, 1976), pp. 103-114.
- Hublin. J. J., Recent Human Evolution in Northwestern Africa, <u>*Philosophical Transactions: Biological Sciences*</u>, Vol. 337, No. 1280, The Origin of Modern Humans and the Impact of Chronometric Dating (Aug. 29, 1992), pp. 185-191.

- Hugot. H. J., "The prehistory of the Sahara", General History of Africa, I, Methodology and African Prehistory, ed. Ki-Zerbo. J, Unesco, University of California Press, 1981.
- Méry. A., Armatures de pointes de flèches de la région de Reggan (Sahara Central), *Bulletin de la Sociétépréhistoriquefrançaise*. Études et travaux, T. 68, Fasc. 2 (1971),pp. 629-639.
- Morel. J and Le Bretagne. A., L'industrieatérienne de l'OuedDjouf El l'industrie l'OuedDjebbana. Djemel. Comparaison avec de Le complexeatérien la du Maghreb Oriental, Bulletin de Sociétépréhistoriquefrançaise, T. 75, No. 11/12, Études et Travaux(1978), pp. 487-500.
- Petit-Maire. N., Past Global Climatic Changes and the Tropical Arid/Semi-Arid Belt in the North of Africa, *Journal of Coastal Research*, , Special Issue No. 17. Holocene Cycles: Climate, Sea levels, and Sedimentation (1995), pp. 87-92.
- Rodrigue. A., La station de l'OuedGoujgalUn aspect de l'AtérienMarocain, <u>Bulletin de la Sociétépréhistoriquefrançaise</u>, T. 84, No. 5 (1987), pp. 155-159.
- Scerri. E. M. L., "A new stone tool assemblage revisited: reconsidering the 'Aterian' in Arabia, *Proceedings of the Seminar for Arabian Studies* 42 (2012), pp.357-370.
-," The Aterian and its place in the North African Middle Stone Age", <u>Quaternary International</u>, xxx (2012) 1- 20
- Smith. P. E. L., New Prehistoric Investigations at KomOmbo (Upper Egypt), University of Montreal, 2009.
- Smith. R., L'âge de la pierre en Algérie, <u>*Revue Archéologique*</u>, CinquièmeSérie, T. 35 (1932), pp.139-140.
- Tillet. T., Présence de pendeloques en milieu atérien au Niger Oriental, <u>Bulletin de la Sociétépréhistoriquefrançaise</u>, T. 75, No. 9 (1978), pp. 273-275.
- Tillet. T., ThePalaeolithic and Its Environment in the Northern Part of the Chad Basin, <u>*The African Archaeological Review*</u>, Vol. 3 (1985), pp. 163-177.
- Van Peer. P., The Nile Corridor and the Out-of-Africa Model: An Examination of the Archaeological Record, *Current Anthropology*, Vol. 39, No. 2, Supplement: Special Issue: The Neanderthal Problem and the Evolution of Human Behavior (Jun., 1998), pp. 115-140.
- Wallsmith. D. L., A Middle Palaeolithic Assemblage from Nubia and its Cultural Relationships, Thesis Submitted in Partial Fulfillment of the Requirement for the Degree of Master of Arts in the Department of Archaeology, Simon Fraser University, 1983.