Section concerning Material). 40 Although he used a different Oi (5%) which was more appropriate referring to technological and scientific studies, the dualistic division of li and qi suggestively revealed the subconscious working of a Neo-Confucian mind, even though Li himself denounced Neo-Confucianism.

Conclusion

From the outset Li Zhizao's attempt at a synthesis of Confucian and Christian cultures could not have been a successful experiment, judging from the fact that anti-Christian movements which culminated in the expulsion of Western missionaries, continued to prevail in the early Oing dynasty. Political and social leaders did not like members of the society develop a double identity, as they tended to interpret it as double loyalty. hence a threat to social and political stability. However, Li Zhizao's internalized cultural synthesis could be called a success because he achieved a balance within himself. He did not have to live with the stigma of a traitor to the Confucian culture, and at the same time he acquired a new faith which provided him with psychological solace and inner satisfaction. It is most remarkable that he seemed not to be torn by inner tensions nor living in agony. The Confucian-Christian synthesis actually occurred within him, if not outwardly in society. His case shows us that the hybridization and hyphenation of two cultures, to a certain degree, is not totally unattainable.

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RHINOCEROS AND WILD BUFFALOES NORTH OF THE YELLOW RIVER AT THE END OF THE SHANG DYNASTY:

Some Remarks on the Graph & and the Character 児*

JEAN A. LEFEUVRE Ricci Institute, Taipei

The graph & in the Shang oracle inscriptions, transcribed 兕 or 炅, until now, among the best authors, remains the object of different interpretations. Some of the most common translations are: a rhinoceros, a unicorned si having the appearance of an ox, an ox of the si species, a si (without explanation), a coveted special hunting game, a wild animal of the central plain, etc. The aim of this article is to try to determine to what extent some clarification of the issue can be obtained.

Main Authors' Opinions

Luo Zhenyu 凝版玉 explained the graph 具 as meaning a "horse."

Abbreviations:

Hsu Chin-hsiung, The Menzies Collection of Shang Dynasty Oracle Bones, Menzies 明

vol. 1: A Catalogue. Toronto. 1972; vol. 11: The Text. Toronto, 1977.

Shima Kunko 島邦男, Inkyo bokuji sorui 殷地卜辭線類. Tokyo, 1967. Sorui Chen Mengjia 陳夢家、Yinxu buzi zongshu 殷虚卜辭綜述、Beijing, Zongshu

Other abbreviations of the titles of oracle-bone collections follow those given in David N. Keightley, Sources of Shang History: The Oracle-Bone Inscriptions of Bronze Age China (Berkeley: University of California Press, 1978).

1) Luo Zhenyu, Zengding Yinxu shuqi kaoshi 增訂股出也契考釋 (Taibei, 1969), p. 29.

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⁴⁰⁾ The original pair li (理) and qi (氣) were popular concepts used by the Neo-Confucianists in the Song-Ming period. Li used a different qi (28) referring to technology and science, but was still thinking in terms of a dualism of li. See Li's preface to Tianxue chuhan, Gernet, op. cit., p. 58 and Fang Hao, op. cit., pp. 134-135.

^{*} This paper was originally presented at the International Conference on Shang Civilization, held at the East-West Centre, University of Hawaii, September 7-11, 1982.

Wang Xiang 王 and Shang Chengzuo 商承 considered the animal to be of the horse species. Ye Yusen 越玉森, at first, explained it as a "rhinoceros." But a new discovery became the occasion of a vehement controversy. On November 28, 1929, during the third excavation of the Academia Sinica, in the North-East of the Xiaotun village, in the land of Zhang Xuexian 張學獻, inside the great connective pit 大連坑 (Trench latitudinal digging 13, Bing North section, Second North branch 概十三, 两北支 , 二北支), the head bone of a big animal was discovered. It is a big piece, including the frontal bones, from the top of the front to the tip of the nose, of a big animal's head. Two vertical lines of characters are inscribed on it, but the bone was not prepared, nor used for divination. The Shang sometimes used to keep specially famous trophies with a record inscribed on them. Some of them were war trophies with an inscription on a piece of bone taken from the head of a vanquished enemy (see Qianbian, fig. 3 = Zongshu fig. 因版 13-4; Jingjin 5281 = Zongshu 13-1). Others were hunting trophies with an inscription on the head bone of a famous hunting game.

When the big animal's head-bone was discovered, another hunting trophy was unearthed just a few meters away. It was the head of a deer, with a recorded inscription (Jiabian 3941). During the fourth excavation, in pit 乙 21 (according to a letter of Qu Wanli 洒斑且, dated April 19, 1976), at a distance of approximately 100 meters, another hunting trophy was discovered. It was the head of a deer with antlers having also a recorded inscription (Jiabian 3940).

In early 1930, Dong Zuobin 董作資 showed this big animal's head to Teilhard de Chardin who, on discovering that on the interior side of the bone there was a whole line of teeth, declared that they are boving teeth.

Dong Zuobin noticed that, in the text of the inscription, there was the saying 变白 象"We caught a white 象." He thought it was a wild animal, white, with one big horn on its head, and concluded that it was

an unicorn. To conform his opinion with the declaration of Teilhard de Chardin, he tried to prove that the unicorn belonged to the species of the bovidae. He then collected a whole documentation about the unicorn in the Middle East, Persia, Central Asia and North China. Very soon Fang Guoyu 方図瑜 in the periodical Shida guoxue congkan 節大國學設刊 (1-2, 1931) published an article "Huo bailin jie zhi yi" 独白教经贸疑, indicating that the 本 of the Shang oracle inscriptions was different from the occidental Rimu and from the Chinese unicorn (), In the Shang oracle inscriptions, the 本 and the horse have the same kind of tail. As for the unicorn, maybe it is only a graphic simplification. Fang concluded that we can only say that it is a wild animal native to the Chinese central plain.

In the Shixue nianbao 史學年報 (vol. 4, 1932, pp. 119-121), Tang Lan 唐蘭 published his article "Huo baisi kao" 瑷白兄考. For him, the graph 秦, the character 译 of the Shuowen 脫文 and the zhuan 袞 form 袞, can be interpreted as being the character 译 or 兒 of the Erya 爾雅. According to the commentary of Guo Pu 郭璞 on the Erya and the Jiaozhou ji 交州記 of Liu Xinqi 劉欣期, it was a wild animal with only one horn, of grayish (qing 晉) colour, having a big size and heavy weight. Tang Lan also quotes Han Ying 始嬰 (Han Shi waizhuan 韓詩 外母, "Shijing Juan er" 詩經卷耳) who says: "(If) one uses a si horn for making it (a wine cup), it contains five sheng." From this statement he concludes that the horn of the si is of a specially big size which fully conforms with the graph of the oracle inscriptions.

Ye Yusen, in his Yinxu shuqi qianbian jishi 股腔哲契前編集釋 (Shanghai, 1934), commenting on Qianbian 2-5-7, does not maintain any more that si means a rhinoceros (see Yinqi gouchen). As the graph has the same graphic element for the tail as the graph of the horse, he is of the opinion that it is a wild horse with a single horn of a specially big size. Maybe it is similar to the bo 数, described in the Erya as a horse with curved teeth, eating tigers and leopards. On the other hand, it is possible that the only one horn of the graph is a graphic simplification using one horn as a characteristic representation for two of them.

²⁾ Wang Xiang, Fushi Yinqi leizuan 恒室股契類器 (Tianjin, 1920).

³⁾ Shang Chengzuo, Yinxu wenzi leibian 股地文字類攝 (1923).

⁴⁾ Ye Yusen, Yinqi gouchen 股契約沈 (Beiping, 1929), p. 8.

⁵⁾ Dong Zuobin, "Huo bailin jic" 沒白鱗解, Anyang fajue baogao 安陽發掘 { 報告 2 (Beiping, 1930).

As for the bovine teeth of the interior side of the Big Animal's Head Bone, he thinks that the inscription was not necessarily inscribed on the bone of the animal referred to.

Guo Moruo 郭洙若, commenting on fragment 577, in his Buci tongzuan kaoshi 卜辞通簽考释 (Tokyo, 1933), accepts the opinion of Tang Lan and identifies & with 肾. Normally, the si is of a grayish (qing) colour, but some of them are white and, if it is the case, it is worth recording.

Shang Chengzuo, in his Fushi suocang jiagu wenzi kaoshi 超氏 所茲甲骨文字符釋 (Nanjing, April 1933), using an element of some bronze graphs, identifies 是 with 3, but in his Preface of Yinqi yicun 股契佚存 (Nanjing, 1933) he transcribes 景.

Many scholars did not notice the opinion of the preeminent Chinese paleontologist Pei Wenzhong 婆文中. On March 18 and 25, 1934, in the Shijie ribao 世界日報, he published his "Ba Dong Zuobin 'Huo bailin jie'" 跋症作資「發白鎮解」. He discarded the mythological unicorn and bo, and according to the teeth and the shape of the bones, determined that the Big Animal's Head Bone belonged to a wild animal of the bovid species.

Dong Zuobin, in the Yin lipu 股階語 (vol. 2, sec. 2, 1945), adopts the position of Tan Lan and transcribes 眾.

Ding Su TE3, in his "Qiwen shoulei ji shouxingzi shi" transcribes as E. 6 For him, it is not a rhinoceros: the horn/s of the rhinoceros stand/s up on the nose, whereas, in the graph and its variants, the horn starts at the top of the front and bends backwards. On the Shang graphs, the horn is of a big size. This fits quite well with the descriptions in some ancient texts of people using an animal horn for drinking wine. But to be suitable for a drinking vessel, a horn has to be hollow. It should not be a solid rhinoceros horn, but rather a bovine horn. Ding Su is of the opinion that it is a horn of the Bos exiguus Matsumoto, one of the

species discovered at Xiaotun. According to him, the buffalo was a domestic animal, while the ox was a wild animal used only for food and for sacrificial offerings.

Li Xiaoding 李孝定, in his Jiagu wenzi Jishi 甲骨文字集釋 (Taibei, 1965, p. 3021), more or less adopts the position of Tang Lan, but he adds the graph ឡ (Jingjin 1913) so similar to the zhuan form 罗 of the Shuowen. He considers that the animal has two horns, "a big and long one in front, another one, short and small, behind." With this description he seems to suggest that the animal is a rhinoceros, but he avoids to make a clear statement about it. Finally, according to the Shuowen text, he transcribes 妈, with the explanation "name of an animal."

Most of the scholars eventually adopted the position of Tang Lan and for the graph & transcribed 兒 or 鼠 (the Kangxi Dictionary considers that the character 呂 is the result of a copyist's mistake writing 冯 instead of 匆 and that the forms 兒 or 鼠 are the correct ones). When Tang Lan exposes his position, he uses mainly two arguments. The first one is the similarity between the graph & and the zhuan form 冨. The second argument is based on the meaning of the character 兒 which according to some ancient texts is the name of a wild animal having only one horn of a big size.

As a result, there is now a consensus in using \(\mathbb{R} \) or \(\mathbb{R} \) as a transcription for \(\mathbb{L} \), but, for the interpretation, no agreement has been reached. Some consider that it is an animal with a single horn and translate it "rhinoceros." Others, paying attention to the opinion of the paleontologists, think that it is a wild bovine. Now we shall examine the Shang inscriptions, the paleontologists' reports, and the later usage of the character \(\mathbb{R} \) to see if it is possible to clarify the question.

Jiablan 3939 Bone

The reading of the text inscribed on the Big Animal's Head Bone has been improved through the efforts of several scholars. Qu Wanli, according to Jiabian 2416, adds 堂 at the end of the text. It is the name of the Bo (Elder) of the Yufang 班方 tribe. After a comparison with Jiabian 3940, 3941, and other texts, we think that the character 田 "to go hunting," has to be added at the beginning of the text. For the whole text,

⁶⁾ Ding Su, "Qiwen shoulei ji shouxingzi shi" 契文散類及散形字釋, Zhongguo wenzi 中國文字 21 (Sept. 1966), p. 28; 22 (Dec. 1966), p. 31; see no. 21.

we propose the following translation:

[Hunting] at the $\hat{\Phi}$ foothill, we caught a white si (and) made the tree branches offering at x.

In the second month, (as) it was the king's tenth ritual cycle, we made the day performed yong ritual; the king came to attack the Yu country Elder [: £].

This head bone has not been prepared for divination and the inscription is just a record. It can easily be dated as belonging to the reign of Di Xing 帝辛, when the King went out to attack the Elder of the Yufang. During that military expedition, the King went hunting and offered some sacrifices, hoping that everything would be successful. During a hunt, they caught a white si and it seems that, for them, it was an auspicious event.

兜 and Its, Qualifiers

In Yicun 427, there is also a recorded text with the saying, "We caught a white si." In Yicun 518, there is another recorded text with 短商散尽. The interpretation of this text is subject to discussion. Shang Chengzuo explains 商 as 賞 and 截 as "yellow colour." Chen Mengjia 陳麥家 quotes that text and explains 截 as a loan for 雹, being a specific term to indicate a special colour for oxen (Zongshu, p. 240). Hstl Chin-hsiuhg (許進雄), in his The Menzies Collection of Shang Dynasty Orucle Bones (vol. II: The Text), twice explains 截 in the saying 截牛. First he proposes the meaning of a gray black colour (Fragment 1784), but afterwards speaks of a reddish (赤色) colour (Fragment 2539). Shima Kunio 急邦男 thinks that there is no question of colour and explains 醚 as 氮,大骨, meaning the cutting of ox meat for ritual offering. According to this interpretation, 沒商做 ৷ could be translated: "We caught a si (suitable for) meat-cutting on Shang territory" or "we caught an enjoyable si (suitable for) meat-cutting." Anyhow, it is connected with an ox

In Qianbian 2-5-7, there is the question of a big $si \not \subset \mathbb{R}$. At least we know that sometimes the si is an animal of a big size, but it is not very helpful as we do not know how big it was.

Text about Hunting

In the Shang oracle texts, most of the time, 景 appears in divinations about hunting. Hu Houxuan 胡厚宜 paid attention to the different verbs used in the texts about si hunting. If we know the different terms used for the si hunting, we can learn a little bit about the kind of game it was. With the help of Shima Kunio (Sōrui 81-1 and 222-1 to 223-3), we can make a more complete survey (even if it remains incomplete as new material was published afterwards). Here is a list of occurrences:

To catch (雙), 44 times; to catch with a net (毕, 阜), 21 times; to pursue (愛), 15 times; to shoot at with a bow (針), 13 times; to drive into a river (麥), 4 times; to drive into an enclosure (皇, 寶), 4 times; to hunt (狩), 3 times; to make fall into a trap (?) (堂), twice (Chen Mengjia notices that 堂 often has the meaning of tamping the earth, but points out that at the period of Di Yi and Di Xin, it means a way of hunting, see Zongshu, p. 538); to seize (執), once; to surround (?) (替), 图 ?), once.

Many of these hunting terms can be used for different kinds of game, and these texts are so short that they do not help very much. However, one of them requires our attention. In it, 13 times a bow is used to shoot the game. If the § was a rhinoceros, how could it be possible, as even now a hunter cannot shoot a rhinoceros with an ordinary firearm? On the other hand, if the animal was a white bovine, shooting it

⁷⁾ Shang Chengzuo, Yinqi yicun kaoshi 殷契件存考釋 in Yinqi yicun (Nanjing, 1933), no. 518.

⁸⁾ Shima Kunio, *Inkyo bokuji kenkyū* 殷塩卜辭研究 , Japanese ed. (1958), p. 271; Chinese ed., p. 269.

⁹⁾ Hu Houxuan, "Bucizhong suojian zhi Yindai nongye" 卜辞中所見之殷代 農菜, pp. 44-47 in his' *Jiaguxue Shangshi luncong* 甲脊學商史陰礙, vol. 2, sec. 1 (Chengdu, 1945).

with a bow would be very appropriate. Four times, there is a question of driving the animal into the river (涉). These four texts are inscribed on the same plastron (Jiabian 3916). Qu Wanli considers that 涉 means "to ford, to wade across a river," and that 策 is a verb, "to hunt the si." But in the Shang oracle texts, there is no other case of 策 functioning as a verb. More probably, 涉 describes a technique used sometimes for the hunting of the si. The wild si is a dangerous animal, but after forcing it into the water, it is much easier to catch. If the game is a wild buffalo, this seems a very suitable technique.

It may be useful not only to analyse the different ways of hunting but also to pay attention to the numbers of game caught. Once, during one hunting expedition, they were able to catch 40 si (Xubian 3-44-8), and at some other times they got 12 (Yicun 350), or 11 (Bingbian 102-1; Menzies BJ 20). The rhinoceros do not live in big herds and it would be hardly possible to catch so many of them. On the contrary, if the game was a wild bovine, it would seem quite plausible.

Sacrifices

Several times, in the divinations about sacrifices, the victim referred to is a 環; 4 times it is for a 酸 sacrifice (Sōrui 223-1), 3 times for a 爾 sacrifice (Sōrui 223-1), twice for an not offering (Sōrui 222-4, 223-2). The 環 is a precious victim which can be offered to the ancestors. Sometimes the name of the ancestor is given, e.g. Zu Ding 租丁 or Fu Ding 致丁 (Ninghu 1-193).

The Graph Form

Many graphs with quite substantial variations are transcribed 🖼 because most of them have a single big horn. On the following pages is a selection of some of them, arranged according to the different reign periods.

Some of the graph variations represent different degrees of abstraction, for instance, the whole body may be represented in profile or reduced to a curved line. But there are some constant elements. It is important to notice that the horn never starts from the top of the nose but always from the back of the head; furthermore, it does not stand vertically but stretches out in a curved way. Besides, very often some

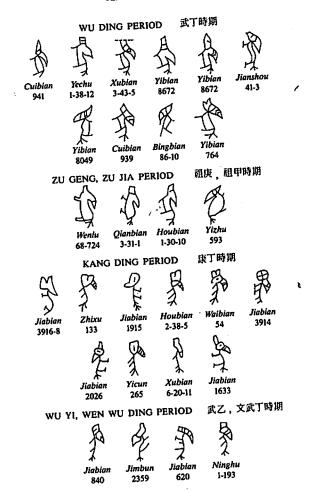
veins are indicated on the horn. If the graph means a wild buffalo, these features fit especially well. In the *Cuibian* 941 inscription there is a graph which is not a representation completely in profile; two horns protrude from the front in a curved manner without standing up. Ding Su recognizes that in this case it must mean a buffalo. ¹⁰

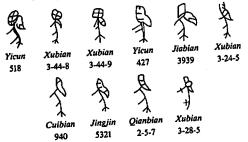
The Shang people were not only impressed by the big size of the horns of that animal but also by its muzzle. In most of the cases, the top of the graph represents a big square muzzle. Sometimes, a line indicates clearly the separation between the upper and the lower jaw. In a few cases, the mouth is open and the two jaws. should not be taken for two horns, because one horn is added, starting as always at the back of the head (see Jiabian 3916–10 \$\frac{M}{2}\$). Maybe it is an indication of a beast bellowing furiously and, for the character (word), acting as a specifier: a "fierce" animal. On the Jingjin 1913 fragment, there is the graph \$\frac{M}{2}\$. The upper part of the graph is similar to the variant of Jiabian 3916–10 and may well represent the two open jaws, but in that case there is no horn indication. It is not sure that it is the same word, meaning the same animal.

In the majority of the cases, at the end of the tail, there is an indication of a tuft. The rhinoceros, however, has no tuft at the end of its tail. On the contrary, such a tail would be a fitting addition for the bovines.

In the oracle inscriptions $\frac{1}{2}$ and $\frac{1}{2}$ are two different graphs. It seems that at that time there were domesticated bovines but also wild ones. Maybe, for the game they had to catch during the hunt, they were using a pictograph of the whole animal, whereas, for certain livestock, they were using only a pictograph of the head. As $\frac{1}{2}$ or $\frac{1}{2}$ ordinarily appear after a number, it could be the first appearance of words which later on functioned as classifiers.

¹⁰⁾ Ding Su, op. cit. (note 6), Zhongguo wenzi 21.

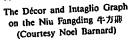




Shi niu 石牛 (stone bovine), discovered in Tomb No. Five, drawn after photographic reproduction in Kaogu 1977.3 (p. 152).









Jiabian 3916-10

Phonetic Analysis

According to Bernhard Karlgren, ¹¹ the pronunciations of 牛, 犀, and 晃, in Archaic and Ancient Chinese are as follows:

牛犀	*ngjŭg	ngjąu	(998a)
	*sior	siei	(596a)
	*drior	zi:	(556a)
兒	*dzjər	Z1:	(3304)

Phonetically, \mathcal{R} has no connection with \mathcal{L} , but it is, on the contrary, quite similar to \mathcal{R} . The two graphs and \mathcal{L} have no similarity either. Ancient people did not classify the animals according to the orders and the families of modern zoology, but according to their concrete experience when they were confronting the outside world. For them, the \mathcal{R} was a fierce wild animal just like the rhinoceros: both of them were different kinds of ye niu \mathcal{R} . At the end of the Shang, if some rhinoceros were roaming in the Xiaotun area, they were certainly very few (see infra Paleontology) and we do not know if there is a special word in the Shang oracle inscriptions meaning "rhinoceros." The phonetic analysis just helps us to know that at a later time the \mathcal{R} and the \mathcal{R} were not domesticated animals but, both of them, beasts of the wilderness.

The Niu Fangding

During the excavations conducted, from September 1934 to December 1936, in Xiaotun, at Tomb HPKM 1004, a vessel called Niu Fangding 牛方則 was unearthed. On the outside, on the four sides and on the four feet, there is a bovine head as a décor. Inside the vessel, a single intaglio graph has been cast into the bottom. The pictograph looks like a bovine. Probably, in this vessel, it is used as a clan-sign.

The character is a pictograph showing a profile view of the animal. At the back of the head there is a single horn of a big size, curved backwards. The basis of the horn is very wide and strong veins are indicated on the horn. It might be quite well the horn of a buffalo.

The muzzle is rather big and the mouth is open. There are many similarities with the graphs of *Jiabian* 3916-8 and 3916-10. Another

graph appearing in Jiabian 2026 has to be compared with the character of the Niu Fangding. The pictographs of both of them not only show a single big horn but also a very big eye. If the graph of the bottom of the Niu Fangding is a clan-sign, it is a name, a "word," and should not be looked at horizontally as at a drawing; most probably it has to be looked at vertically and then the similarity with the graph of Jiabian 3916-10 is striking. (Here I want to express my thanks to Professor Noel Barnard for giving excellent reproductions of photographs and rubbings of the Niu Fangding.)

During the spring of 1976, at Xiaotun, in Tomb Number Five, a small stone bovine (石牛, length 25 mm) was discovered. According to the curve and the veins of the horns, it is clearly a buffalo. The muzzle is quite big and prominent. Some of the graphs of the si, in the oracle inscriptions, with their curved horn going backwards without standing up, and their big square muzzle, have similar characteristics.

The Big Animal's Head Bone

Mr. Sauveur d'Assignies has been working for years in Paris under the direction of Léonard Ginsburg, director of the "Section de Paléontologie" at the Musée National d'Histoire Naturelle, doing research work in the field of paleontology. In 1979 Mr. d'Assignies accompanied me to the Academia Sinica at Nangang and was able to closely examine the Big Animal's Head Bone. He made some drawings and took measurements. At the beginning of July 1980, Mr. d'Assignies, Prof. Ginsburg, and I had a meeting in Paris, at the Musée National d'Histoire Naturelle, for a discussion about the identification of the Big Animal's Head Bone. The two specialists were in complete agreement with Teilhard de Chardin and Pei Wenzhong: The teeth (whose photograph is in my possession) and the bones belong definitely to a bovine. Later on, using photographs and drawings, they made comparisons with all the other head bones of oxen and buffaloes in the museum. The result was that the Big Animal's Head Bone is a buffalo's head bone. The bases (in French, pédicule) of horns of the ox are very high on the front bone; this contrasts with the buffalo

¹¹⁾ Bernhard Karlgren, Grammata Serica Recensa (repr. from BMFEA 29 [1957]).

^{12) &}quot;Yinxu kaogu fajue de you yi zhongyao xin shouhuo" 殷地考古發掘的又一抵要新收獲, Kaogu 考古 1977.3 (May), pp. 151-153.

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where they are somewhat lower. Besides, the two bases of the ox horns are far apart, while those of the buffalo are closer. For the Big Animal's Head Bone, the bases of the horns are rather low and the small salient in the middle of the horn base is 5.5 cm from the central suture line of the front. For the paleontologists, the Big Animal's Head Bone is the head of a buffalo. All the buffalo bones unearthed at Xiaotun belong to the Bubalus mephistopheles Hopwood species, but in Paris, there are no bones from that kind of buffalo, therefore, it was not possible to say more.

Paleontology

In this short paper it is not possible to make a detailed exposition of what paleontology tells us about the rhinoceros, the ox, and the buffalo in China. We shall just make a short report of what we know about those animals in North China, according to the Acta Palaeontologica Sinica and the Vertebrata PalAsiatica, during the Holocene and the beginning of the historical period. Some remains of rhinoceros were discovered in Zhejiang province and the middle course of the Changjiang, but north of the Changjiang, besides Xiaotun, only one find has been made. It is in Henan province, at the site Xiawanggang 下王崗 of Xichuan 淅川. In the lower stratum of Early Yangshao culture, some bones of dicerorhinus sumatrensis were discovered.13 The presence of a few rhinoceros in Henan is thus attested, but 2,500 or 3,000 years before the late Shang. As for Xiaotun, at first, the rhinoceros was not listed by Teilhard de Chardin and Yang Zhongjian 粉鐘健, in their "Anyang Yinxu zhi buru dongwuqun"安陽殷趙之哺乳動物群 [On the Mammalian Remains from the Archaeological Site of Anyang], Zhongguo gushengwu zhi 中國古 生物誌, Palaeontologica Sinica, ser. C, vol. XII, fasc. 1 (June 1936). Later on, Yang Zhongjian and Liu Dongsheng 倒東生 made a more complete new report, in their "Anyang Yinxu zhi buru dongwuqun bui" 安陽殷椒之哺乳動物群補證 , Zhongguo kaogu xuebao 中國考古學報 4.12 (1949, pp. 149-150) and indicated the presence of two phalanxes of rhinoceros. The first one is a complete third phalanx of the left metatarsus,

the other one is a phalanx of metatarsus with the lower extremity broken, maybe the second phalanx of the metatarsus. Unfortunately, no tooth nor head bone were discovered and it is not possible to determine the species. Shi Zhangru 石境如, in his "Henan Anyang Xiaotun Yinmuzhong de dongwu yihai" 河南安陽小屯股基中的勁物遺骸, Wen shi zhe xuebao 文史哲學報 5.12 (Taibei, 1945, pp. 1–14), says that "when the rhinoceros (bones) were discovered, no attention was paid to the site" (p. 5). As a result, we are not able to ascertain if these bones come from a Yangshao, Longshan or Xiaotun culture stratum.

RHINOS AND BUFFALOES IN SHANG ORACLE INSCRIPTIONS

Anyhow, only two phalanxes of rhinoceros were discovered against more than a thousand remains of buffalo. After two or three thousand years, were the Southern Henan rhinoceros still living north of the Yellow River? Were these rhinoceros feet brought from the south as precious gifts? There is no way to know. But the Shang people were able to hunt the in large numbers (even as many as forty). This could not be the case for rhinoceros.

At the beginning of the Holocene, in North China, the Bos primigenius Bojanus disappeared with some other species. But, in the whole territory of China, bovines of undetermined species were native everywhere (Bovinae indet.). The places are too numerous to be listed. It should be noticed, however, that the domestication of oxen seems to have started during the Yangshao period. ¹⁴ All the remains of oxen discovered at Xiaotun belong to the Bos exiguus Matsumoto species, now extinct. They are not so numerous, only a few more than a hundred. Most probably some of them were penned oxen kept in enclosures, but there were surely wild oxen roaming the forests. It is important to know that in the burial pits and pits with oxen bones, when the skeletons are complete, they are always the remains of oxen and not of buffaloes. ¹⁵ For certain sacrifices, when the victims were whole animals later on buried, the Shang people always used oxen.

¹³⁾ See Zhou Benxiong 周本雄, "The Fossil Rhinocerotides of Locality 1, Chou-koutien," Vertebrata PalAsiatica 17.3 (July 1979), p. 254.

¹⁴⁾ Chang Kwang-chih (强光谊), The Archaeology of Ancient China (3rd ed., New Haven, 1977), p. 95.

¹⁵⁾ See Shi Zhangru, "Henan Anyang Xiaotun Yinmuzhong de dongwu yihai," pp. 7-9.

At the beginning of the Holocene the Bubalus Wansjocki (王氏 水牛) disappeared but new species of buffalo developed, for instance the Bubalus mephistopheles Hopwood (聖水牛). During the moist climatic conditions in North China, at the beginning of the Holocene, a thick vegetational cover developed. At Sanhe 三河 in Hebei province, the remains of Bubalus mephistopheles pertaining to that period have been discovered.16 At the site of Lantien 隆田 in Shaanxi province, remains of buffaloes (Bubalus sp.) have been found in the Holocene stratum. 17 In Shaanxi province, near Xi'an, at the site Kexingzhuang 客省莊, remains of buffaloes (Bubalus sp.) have been discovered in a stratum of Longshan culture. Chang Kwang-chih thinks that there were already domesticated animals. 18 At Xiaotun the remains of buffaloes were specially numerous, more than one thousand, and all of them belonged to the Bubalus mephistopheles Hopwood species, now extinct. As we already know, this species was present in North China from the beginning of the Holocene. In the burial pits with complete skeletons, there are not buffaloes, but, for some other sacrifices, victims were cut in pieces before cooking or roasting and, in these cases, buffalo meat could well have been used. 19 As the buffaloes were so numerous in Xiaotun, many of them were probably domesticated animals, but in the forests, near the rivers and the marshes, wild buffaloes should have been still roaming. Hsü Chin-hsiung considers that these were wild buffaloes and that some of them were already domesticated.20 The wild buffalo is an irascible and dangerous animal; it is difficult to catch and the feats of hunting it are specially rewarding.

From the oracle texts we know that the Shang people very often used to hunt the si. If the si was a wild buffalo, the remains of that animal should be quite numerous, which is the case. It would not be difficult

to use a bow to shoot it and, during one hunting expedition, it would not be impossible to kill forty of them. Their meat could be used for certain sacrifices. What is of the utmost importance, however, is that the paleontologists consider that the Big Animal's Head Bone is the head of a buffalo. The head bone was not prepared for divination and the inscription was a recorded text. Just like the deer heads found nearby, it was a hunting trophy. Most of the buffaloes have a grayish colour. But sometimes a buffalo comes into the world with hair and skin colourless, and appears to be completely white. Even now, the case is not so infrequent. It is what we call an albino. During a hunt, to catch a wild albino buffalo was quite possible but unusual. The Shang people thought such a feat was worthwhile recording, and seemingly considered it an auspicious event. For the graph of the hunting game they used as a rule a pictograph in profile of the whole animal &, whereas, for the graph of the sacrificial victim, they were using as a pictograph a face view of the head Ψ .

The Character 兕 or 駅 and the Graph 🍨

Everybody now uses the character \Re or \Re to transcribe the graph $\frac{1}{2}$. This is the interpretation of Tang Lan who saw a strong graphic similarity between these graphs. It is basically correct, but a point has to be made clear. For the oracle text graphs, the upper part protruding vertically is the square muzzle or the two opening jaws, whereas the horn starts from the back of the head and goes downward (Jiabian 3916-10: $\frac{1}{2}$). Graphically, the character $\frac{1}{2}$ or $\frac{1}{2}$ is the result of an evolution. People of later times may have considered the top of the character as the pictograph of two horns, but at the origin of the evolutionary process, it may well have been an opening muzzle like the top of the graph $\frac{1}{2}$ in the oracle inscriptions.

No matter what may have happened in that evolution, it is important to examine how the character 完 or 鼠 has been used later on in the ancient texts, and see to what extent it remains similar to the way it was used in the oracle texts.

¹⁶⁾ See Chang Kwang-chih, The Archaeology of Ancient China, p. 33.

¹⁷⁾ See Huang Wanbo 黃萬波 and Zhang Yuping 妥玉琛, "Shaanxi Lantian diqu di-si ji buru dongwu huashi didian" 陝西藍田地區第四紀昭乳動物化石地點, Vertebrata PaiAsiatica 10.1 (Feb. 1966), p. 42.

¹⁸⁾ See Chang Kwang-chih, The Archaeology of Ancient China, pp. 174-75.

¹⁹⁾ See Keightley, Sources of Shang History, p. 11, n. 37.

Hsü Chin-hsiung, The Menzies Collection, vol. II: The Text, commentary of fragment 2025.

咒 or 및 in Ancient Texts of the Pre-Qin Period

The character R figures in two or three bronze vessel names, for example the Si Fu Gui Ding 兒父癸期. But, unfortunately, the character itself does not appear in the inscription. There is only the pictograph of an animal and R is the character used by authors of bronze inscription catalogues to represent it.21 It is interesting to note, though, that in each case a man holding a bow is standing in front of the animal.

The most important thing is to examine how the character itself was used in the texts. To better follow the evolution through the ages, a clear distinction has to be made between the text itself and the commentaries. Each commentary should belong to the period of its author.

Shijing 跨經

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"Xiaoya" 小雅, "Jiri" 吉日 (180): "We drew our bows, we grasped our arrows, ... we killed this big rhinoceros [si], in order to serve up to our visitors and guests ... "22

It would not be possible to shoot a rhinoceros with a bow. On the contrary, it is not an impossibility if the game is a wild bovine, and its meat would be delightful for the guests.

"Xiaoya, He cao bu huang" 何草不黄 (234): "We are not rhinoceroses [si], we are not tigers ... "23

The si and the tigers are mentioned together because they are equally dangerous. The experienced hunter knows well that the wild bovines. especially the wild buffaloes, are irascible and fierce animals.

"Guofeng" 國風, "Juan er" 卷耳 (3) and "Qiyue" 七月 (154); "Xiaoya, Sanghu" 桑冠 (215); "Lusong" 魯頌, "Siyi" 絲衣 (292), mention the si horn wine vase (開發). The rhinoceros horn is not hollow as are the bovine horns²⁴ and cannot be used as a wine vase. The buffalo horn is long, elegantly curved, with a specially big capacity. It fits quite well the description of the "Sanghu": The si horn wine vase "is long and curved, ... "25

Lunyu 跨蹈

"Ji shi" 季氏 (16.1): "(When) a tiger (or) a si comes out from his cage ..."

The si is considered a wild beast, as fierce as the tiger.

Mozi 墨子

Juan 8: "Minggui" 明鬼, xia, 31: "He could tear apart si and tigers alive."

The si and the tigers are animals equally dangerous to confront.

Juan 13: "Gongshu" 公翰, 50: "Jing 荆 possesses Yunmeng 银蓼 which is full of rhinoceros, si, hydropotes (and) deer."

In this description of the animals of Yunmeng, the si is clearly distinguished from the rhinoceros and different kinds of deer. Maybe it is a kind of wild bovine.

Daode jing 道饱經

"Guisheng" 資生, (50): The text joins the tigers and the si, but adds "the si finds no place into which to thrust its horns," making it clear that the si attacks with its horns.

Zhuangzi 莊子 ("Qiushui pian" 秋水篇), Xunzi 荀子 (juan 13: "Lilun pian" 超陰寫), Han Feizi 與非子 (juan 6: "Jielao" 解老), allude, at the same time to the tiger and the si. In the Xunzi, juan 10: "Yibing pian" 競兵類, indicates that the hide of the rhinoceros and of the si are used for making cuirasses.

Zhou Li 周禮

"Dongguan" 冬官, "Kaogong ji" 考工記, "Hanren" 函人: "The cuirasses of rhinoceros have seven joints, the cuirasses of si six joints ... the cuirasses of rhinoceros last one hundred years, the cuirasses of si two hundred years."

²¹⁾ See Ruan Yuan 阮元, Jiguzhai zhong ding yiqi kuanzhi 積古新經期彝欽 题, vol. 1, p. 5.

²²⁾ Bernhard Karlgren, The Book of Odes (Stockholm, 1950), p. 124.

²³⁾ Ibid., p. 185.

²⁴⁾ Ding Su, op. cit. (note 6), Zhongguo wenzi 21.

²⁵⁾ Karlgren, The Book of Odes, p. 168.

It is clear that the cuirasses of rhinoceros and of si are different.

"Diguan"地官,"Situ"司徒,"Zushi" 族師: "For all the service duties, he is in charge of the supervision and of the punishment with the wine vase or with the rod."

"Chunguan" 春官,"Zongbo" 宗伯,"Xiaoxu" 小胥:"They punish with the horn vase those who are guilty of misdemeanors."

Most scholars consider that 質 is a loan for 就, as the archaic pronunciation of both characters is kwang. In the Shijing, the si horn wine vase (兄就) is always used during joyful banquets or happy circumstances, this instrument is a solid rhinoceros horn, the capacity is artificially fixed by the way it is hollowed out. On the contrary, as a bovine horn is naturally hollow, the capacity is fixed by nature, which means by heaven and it is much more meaningful for a punishment. As the capacity of a buffalo horn is bigger than that of an ox horn, it seems specially fit for punishment.

Yi Li 儀禮

In "Xiangshi li" 鄉射體 (juan 5), mention is made of the sizhong 兒中. It is a counter container having the form of a si.

Zuozhuan 左傳

In Xuangong 宜公, the 2d year, there is question of using the hide of oxen, rhinoceros and si to make cuirasses. These three animals are different. In Chenggong 成公, the 14th year, allusion is made to the si horn wine vase (quotation of Shijing, "Xiaoya, Sanghu"). In Zhaogong 昭公, the 1st year, the guests raise the si horn cup (完的) and enjoy drinking together.

Guoyu 園語

Juan 14: Jin yu 音語: "Once our ancestor Tang Shu 唐叔 shot with his bow a si in the Tu 徒 forest, killed and used it to make a cui-

Again, it is indicated that the si can be killed with an arrow, but, on the other hand, it is said very clearly that the hide is strong enough to make a cuirass.

Juan 17: Chu yu 楚語: "At Ba 巴 and Pu 箱, the rhinoceros, the yack, the si (and) the elephants are unlimited."

This enumeration, again, makes a distinction between the si and the rhinoceros. The character before the si is the li 鄭 , the Tibetan yack (Bos grunniens) which was breeding in the Ba jun 巴郡 of Sichuan and, maybe, the si is another kind of wild bovine.

Zhanguo ce 联國策 "Chu ce" 楚策 (Sibu congkan 5): Si and tigers are mentioned together, and it is recorded that, when an angry si charged against the chariot of the king, "the king drew the bow himself and killed it with a single shaft." Such a feat would not be possible with a rhinoceros.

In the "Song ce" 朱琛 (Sibu congkan 10), in a description of the animals multiplying in Yunmeng 数夢, the rhinoceros, the si, the hydropotes and the deer, are listed as different animals.

Chu ci 楚辟

"Zhaohun" 招喪: "The king himself shoots (with a bow); he is afraid of the grayish si."

The colour of the si is a kind of gray (qing 时); the animal can be shot with a bow and is quite dangerous. In the "Jiusi" 九思, an allusion is made to the si together with the tigers, as symbols of bad people.

Liezi 列子

"Zhongni" 仲尼 (juan 4): "(My strength) is able to shred apart the skin of rhinoceros and si."

The si are compared with the rhinoceros for the thickness of their skin. It would rather be buffaloes than oxen.

Shanhai jing 山海松

In "Nanshan jing" 南山經 (juan 1), "Daoguo zhi shan" 敲遏之山 ; "Xishan jing"西山紀(juan 2), "Bozhong zhi shan" 叫 家之山,"Nüzhuang zhi shan"女牀之山 ,"Zhiyang zhi shan" 皮陽之山,"Zhongshou zhi shan" 衆歐之山;"Beishan jing" 北山経 (juan 3), "Dunhong zhi shan" 敦蕊之山;"Zhongshan jing"中山經 (juan 5), "Meishan" 美山,"Jushan" 幅山, the si appear together with rhinoceros, bears, tigers, leopards, oxen, yacks, deer, and elephants. One text requires special attention:

"Hainei nanjing" 海內南經 (juan 10): "There are si East of the Shun 舜 tomb, South of the river Xiang 湘; they look like oxen, with a gray-black (若思) colour and a single horn."

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In the pre-Qin texts, many allusions have been made about the si, but it is in the Shanhai jing that, for the first time, it is said to have a single horn. From now on, several authors repeat that the si has only one horn. Most probably they are under the influence of the Shanhai jing. But many descriptions of the Shanghai jing are very fanciful and come from popular stories of that time. For example, when the Shanhai jing describes the rhinoceros it says:

"Zhongshan jing" 中山經 (juan 5), "Li shan" 意山: "There is an animal which looks like an ox with a gray body; its cry is like that of a child; it devours men; it is called the rhinoceros."

It is not possible to refer to the Shanhai jing for an accurate and reliable description.

Zhushu jinian 竹杏紀年

Zhou Zhao wang 周昭王, 16th year: "As (the king) attacked Chu Jing 楚刑, he crossed the Han 漠 (river) (and) came upon a large

From that text we see that the si can be found near the water.

Yenzi chunqiu 晏子春秋

In the Neipian 內篇, jian shang 諫上 (juan 1), the si is named together with the tiger.

Lüshi chunqiu 呂氏春秋

In juan 11, allusion is made to "shoot with a bow and kill the si pursuing you." It is definitely impossible to kill a wounded rhinoceros, which is raging and charging, with an arrow. On the contrary, the whole thing is understandable if the beast is a wild bovine. It is useful to note that this event happened in Yunmeng.

Characteristics of the si according to the pre-Qin texts:

- 1. The si is a wild animal.
- 2. It is different from the rhinoceros.
- 3. It can be shot and killed with a bow and its meat can be used to make a delicious dish for distinguished guests.
- 4. It is as dangerous as the tiger and easily aroused.
- 5. When attacking, it mainly uses its horns.

- 6. Its horns are hollow, elongated, curved; they can be used as wine vessels and their capacity is very great.
- 7. Its colour is grayish (qing).
- 8. Its hide, just like the one of the rhinoceros, can be used to make cuirasses.

All these characteristics fit rather well with the wild buffalo. The only difference is coming from the Shanhai jing, saying that the si has only one horn. It may be a fanciful description, responsible for later false conceptions.

Han Dynasty Texts

For this period, we shall avoid to repeat what appeared in the texts of the preceding period. Allusions to the si can be found in the Han Shi waizhuan, the Huainanzi 淮南子, the Shiji 史記, the Jijiu pian 參就篇, the "Shudu fu" 獨都默 of Yang Xiong 捌雄, the Qian Hanshu 前淡也, the Chuci buzhu 楚辞袖注 of Wang I 王逸, the commentary of Ma Rong 馬股 on the Lunyu, the commentary of Kao You 高勝 on the Zhanguo ce, and others. The connotations are the same as during the pre-Qin period. The following opinions can be found in the main dictionaries of the time:

Erya, "Shi shou" 釋號 (juan 18): "The si seems like an ox." Shuowen jiezi 說文解字,寫 bu 部: " 留 is like a wild ox and gray (骨)."

These definitions quite clearly consider that the si is a bovine like the ox, but somehow different.

Zheng Xuan 爽玄 is one of the few having another opinion:

Commentary on Yi Li, "Xiangshi li": "Si: name of an animal, like an ox with a single horn."

He clearly seems to be influenced by the Shanhai jing ("Hainei nanjing," see supra).

The character 咒 is used in a special way in one text of the Shiji ("Shi jia" 世家 2: "Qi tai gong" 齊太公). Before crossing the Mengjin 孟神 ford, the general Shi Shangfu 節尚父 starts his harangue to the troops shouting, "Cang si, cang si" 套兒, 套兒. This event is also recorded in the Shangshu yiwen 尚書逸文 and the Lunheng 論衡 ("Shiying pian" 是應篇) of Wang Chong 王艽. Later on, in the preface of the Shanhai jing by Guo Pu 郭璞, a brief allusion to the cangsi can be found. For Ma Rong, cangsi is the title of the official in charge of the rowers. In the Lunheng, Wang Chong says that the cangguang 愈光 is an aquatic beast having nine heads. Anyhow, it is something connected with the water, and the two colours cang 蒼 and qing 肖 are very similar.

Three Kingdoms, Western and Eastern Jin Texts

In the Nanzhou yiwu zhi 南州異物志 of Wan Zhen 萬霞, the Chen Lin shu 陳琳哲, the commentary of Wei Zhao 韋昭 on the Guoyu, the "Wudu fu" 吳都賦 of Zuo Si 左思, the Baopuzi 抱朴子 of Ge Hong 葛洪, the Hou Hanshu 後漢哲, the character si 兒 is used more or less in the same way as in the texts of the pre-Qin period. The differences come mainly from two authors, Guo Pu and Liu Xinqi.

Guo Pu

Shanhai jing, "Nanshan jing" (juan 1), "Daoguo zhi shan" text: "At its bottom there are many rhinoceros and si"; Guo's commentary: "The si looks like a buffalo, has a grayish (qing) colour and only one horn; it weighs three thousand jin (元)."

Shanhai jing tuzan 山海經因實: "The si is a strong animal; it looks like a gray-black (肯黑) ox; it spends its whole strength until it drops dead; its skin is used to make military equipment (and) its horn strengthens your virtuous accomplishments."

"Jiang fu" 江赋: "The water si bellows like the thunder to Yang hou (阅读, divinity of the water)."

Erya (see supra) commentary: "(The si has) only one horn (and) a grayish (qing) colour; it weighs a thousand jin."

The commentaries of Guo Pu exerted a strong influence on his successors. After him, many scholars have been repeating that the si is an animal with a single horn. But his view does not represent the opinion of many authors writing during the centuries before the Western Jin. Before him, only the Shanhai jing and Zheng Xuan said that the si has only one horn. Guo Pu took great interest in the Shanhai jing, wrote

his own commentary on it, and was deeply influenced by it. The Shanhai jing distinguishes the rhinoceros from the si but gives rather fanciful descriptions of both of them (see supra).

Liu Xinqi

Jiaozhou ji: "The si is native to Jiude 九镫, it has a single horn, the horn is more than two chi (尺) long, having the form of a horse-whip handle."

The second part of this text, "the horn/s is/are more than two chi long ..." was already written by Wan Zhen in his Nanzhou yiwu zhi, but the first part of the text, mentioning "a single horn," was added by Liu Xinqi, most probably under the influence of the Shanhai jing and Guo Pu.

All the ancient texts, starting with the Shijing, until the end of the Eastern Jin, with the exception of the Shanhai jing and a few authors under its influence, never mentioned that the si was an animal with only one horn. The different characteristics of the si have been analysed at the end of the review of the pre-Qin texts (see supra). The hypothesis of the si being a wild buffalo seems to be the one which fits best all the texts.

Conclusion

The interpretation of the graph and the character \(\mathbb{H}\), until now, remains a matter of discussion. Starting the investigation with the Big Animal's Head Bone, it seems that this head bone, like the other deer head bones discovered nearby, was considered a hunting trophy. Consequently, the recorded text was inscribed on that trophy, that is, on the head of the animal so skillfully caught. After careful examination, the paleontologists declared that the Big Animal's Head Bone was the head of a buffalo. Taking these facts into consideration, we made a new examination of the graph and its variants, of the character cast in the bottom of the Niu Fangding (Tomb HPKM 1004), of the form of the head of the small stone bovine (shi niu of Tomb Number Five), of the pronunciation of the character \(\mathcal{H}\) at a later time, of the Shang oracle texts, and of the main ancient texts in general, starting with the pre-Qin period and going on until the end of the Eastern Jin dynasty. The results can be summarized as follows:

- 1. The Big Animal's Head Bone is a buffalo head bone.
- 2. In the graphs of the Shang oracle texts, the horn does not start from the top of the nose as it does for a rhinoceros, but always from the back of the head, as is the case for a bovine. The frequent indication of veins on the horn fits very well with the buffalo horn. The indication of a tuft at the end of the tail does not suit a rhinoceros tail, but, on the contrary, is a fitting addition for a bovine.
- 3. The basis of the horn figuring in the character cast at the bottom of the Niu Fangding is very wide, and strong veins are indicated on it. It fits well with the buffalo horn. The whole character is very similar to the graph of *Jiabian* 3916-10.
- 4. The small stone bovine of Tomb Number Five clearly represents a buffalo relaxing on the ground. The form of the muzzle, the strong veins on the horn fit very well with some variants of the graph in Shang oracle inscriptions.
- 5. In the Shang oracle texts, the is a wild animal caught during the hunt and can be shot with a bow. Sometimes, many of them can be caught during one hunting expedition. These feats are plausible with wild bovines, but not with rhinoceros.
- 6. Later on, 兒 and 剛 were clearly two different characters, but phonetically similar. Probably, they were considered as designating two different kinds of wild animals, similar only in some respects.
- According to the paleontologists, during the Holocene, there were some Bubalus mephistopheles Hopwood in North China. Many remains of that species of buffalo were discovered at Xiaotun. Possibly, some of them were domesticated; others were still roaming about the wilderness.
- 8. Most of the ancient texts, from the pre-Qin period to the Eastern Jin, do not note that the si 克 has only one horn. The only exception is the Shanhai jing, and a few authors are influenced by it. The characteristics of the si, as they appear in the texts, fit the wild buffalo better than any other animal.
- 9. The graph of the Shang oracle texts and the character of a later period seem to be the same word. The elements of the graph may not have been always correctly analysed, the graphic evolution may have been different from what it was previously thought to be, but the semantic content seems to have been always the same: a wild buffalo.

The oracle bone inscriptions represent some kind of record of the language of the late Shang. For their study, the analyses of linguists are urgently needed. But language is the expression of thought, and the way of thinking is deeply influenced by the concrete conditions of life. The more we know about the concrete environment, the social system, the customs and habits of the Shang people, the more we understand them, and that understanding may be of great help for the study of their language.

The aim of this paper is an attempt at research conducted through such convergent lines. Should we rely only on the linguistic analysis, we would conclude that the si is a rhinoceros, as, in the oracle bone inscriptions, there is already another word for the bovines (Ψ), and, in the language of a later period, there is a phonetic similarity between $\mathbb H$ and $\mathbb H$. However, the scholars who are aware of the identification made by the paleontologists Teilhard de Chardin and Pei Wenzhong think that the si is a wild bovine. Some of them, like Ding Su, considering that at the time of the late Shang, in the Xiaotun area, the buffalo was a domesticated animal, conclude that the si is a wild ox. But some paleontologists were able to identify the Big Animal's Head Bone as the head of a buffalo. Starting from that fact, we submitted to a careful examination all the material, from the late Shang to the Eastern Jin. We have discovered that the identification of the si as a wild buffalo fits all the documents better than any other interpretation.