The prehistoric flint mines at Jhimpir in Lower Sindh (Pakistan)

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Figure 1. Location of the sites mentioned in the text: 1) Jhimpir; 2) Ongar; 3) Tharro Hills; 4) Kot Raja Manjera.

Until recently the only prehistoric flint mining area in Sindh to be exploited during the Indus civilisation was thought to be the Rohri Hills (Allchin 1979; Starnini & Biagi 2006; Biagi & Starnini 2008). However, recent discoveries made at Ongar and Daphro, south of Kotri, revealed that these hills also show evident traces of flint mining, although most of the prehistoric extractive structures have been destroyed by ongoing industrial activities (Biagi 2008; Biagi & Franco 2008). Now surveys carried out by the Italian Archaeological Mission in January and February 2010 have discovered good-quality flint sources, mining areas and workshops in the neighbourhood of Jhimpir, in Lower Sindh (Figure 1).

Flint mines near Jhimpir

The presence of chert in the Ranikot beds north-west of Jhimpir had already been intimated by Blandford (1880: 152). This author reports that, close to the railway station ‘a part of the rock is flinty and cherty’ (Blandford 1880: 153). Although a brief survey made in the above area did not reveal any flint seam in situ in the limestone deposits, further investigations south-southwest of Jhimpir led to the discovery of two distinct flint outcrops on two parallel limestone terraces, oriented east-west.
The most evident traces of prehistoric flint exploitation were recorded on a flat terrace close to the Larinadi dry riverbed, called JMP-21. All the westernmost part of the mesa (some 40m) is marked by mining trenches, which were excavated parallel to the terrace edges (Figure 2). Many flint workshops (Figure 3), indicated by flakes, blade cores, crested blades (Figure 4) and bifacial picks, were found. According to our preliminary field notes, the mining area seems to be delimited between 24°59'47"-24°59'37" N and 68°00'11"- 68°00'03" E.

Seams and nodules of good quality flint of a light grey colour (7.5YR 7/1), outcropping from the top of an inclined terrace, were also observed about 1 mile south of the above-mentioned seam (Figure 5). The surface of this second outcrop, called JMP-28, which is at present exploited on a small scale for industrial purposes, yielded a white patinated, marginally retouched blade, probably attributable to Copper/Bronze Age exploitation of this source.
Discussion

The discovery of another flint mining area in Lower Sindh is of major importance for the understanding of the exploitation of the raw materials, and their distribution in the region. It shows that our knowledge of the exploitable sources is still very poor, and the problems connected with them are much more complicated than previously suggested (Law et al. 2002-2003). Although we cannot yet attribute the Jhimpir mines to the Indus Civilisation, there are indications of an association: blade cores closely recall the Amri specimens from the Tharro Hills (Biagi 2005), and other Amri sites are known in the region, including Kot Raja Manjera (Khan 1979), some 20km east of JMP-21.

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