

## MICROPALAEONTOLOGY NOTEBOOK

## Sub-recent Ostracoda from Qilian Mountains, NW China

STEFFEN MISCHKE, ULRIKE HERZSCHUH, HARALD KÜRSCHNER, FAHU CHEN, FEI MENG &amp; ZHENCHENG SUN

Interdisciplinary Centre for Ecosystem Dynamics in Central Asia, Freie Universität Berlin, Malteserstr. 74-100, 12249 Berlin, Germany

To our knowledge, the Qilian Mountains in NW China have been investigated with respect to Recent or sub-Recent ostracods for the first time. The Qilian Mountains (95–103°E/37–40°N) extend along the northeastern margin of the Tibetan Plateau reaching a maximum altitude of 5826 m above sea-level (m asl).

In September 2001, surface mud from the bottom of various water bodies including brooks, rivers and small shallow meadow and oxbow pools were sampled at an altitude ranging from 2900 m to 3570 m asl. In addition, surface mud samples and short cores were obtained from the small (*c.* 1 km<sup>2</sup>) and shallow (<0.4 m) freshwater Lake Luanhaizi situated at about 3200 m asl.

Ostracod valves were usually abundant in all of the 32 samples and comprised the taxa listed in Table 1, some of which are illustrated in Plate 1.

The recorded taxa are mainly distributed in the holarctic realm but *Fabaeformiscandona danielopoli* and *Ilyocypris echinata* appear to be restricted to the cold mountainous regions in China (Huang, 1985; Wang & Zhu, 1991; Sun *et al.*, 1995; Yin & Martens, 1997).

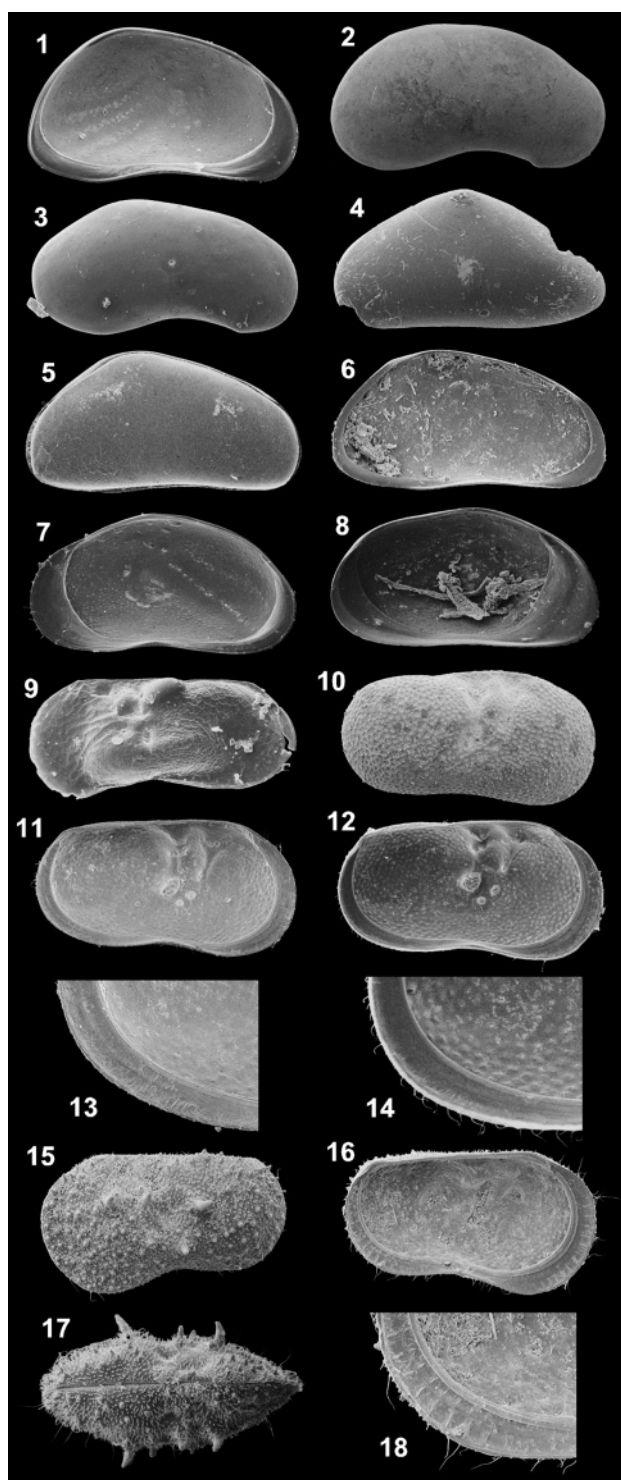
Following the first survey, a 14 m long core was drilled in Lake Luanhaizi in January 2002 which is currently under multidisciplinary investigation to reconstruct the Holocene vegetation and climatic history of the Qilian Mountains.

Taxa	Habitat		
	R	P	L
<i>Candona candida</i> (O. F. Müller, 1776)	a	–	a
<i>Candona rawsoni</i> Tressler, 1957	a	–	a
<i>Candona weltneri</i> Hartwig, 1899	r	–	–
<i>Cyclocypris ovum</i> (Jurine, 1820)	r	–	a
<i>Cypridopsis vidua</i> (O. F. Müller, 1776)	–	r	r
<i>Cypris pubera</i> O. F. Müller, 1776	–	–	r
<i>Eucypris dulcifons</i> Diebel & Pietrzyeniuk, 1969	r	–	r
<i>Eucypris</i> sp.	a	a	–
<i>Fabaeformiscandona caudata</i> (Kaufmann, 1900)	–	–	a
<i>Fabaeformiscandona danielopoli</i> Yin & Martens, 1997	–	–	a
<i>Heterocypris incongruens</i> (Ramdohr, 1808)	a	a	–
<i>Heterocypris salina</i> (Brady, 1868)	a	–	r
<i>Ilyocypris</i> cf. <i>bradyi</i> Sars, 1890 and <i>I. lacustris</i> Kaufmann, 1900	a	a	r <sup>a</sup>
<i>Ilyocypris echinata</i> Huang, 1979	–	–	a
<i>Limnocythere inopinata</i> (Baird, 1843)	a	–	a
<i>Paralimnocythere psammophila</i> (Flössner, 1965)	–	r	–
<i>Pseudocandona</i> cf. <i>eremita</i> (Vejdovsky, 1882)	–	–	r
<i>Pseudocandona compressa</i> (Koch, 1838)	r	–	r
<i>Psychrodromus</i> aff. <i>olivaceus</i> (Brady & Norman, 1889)	–	–	r
<i>Sarscypridopsis aculeata</i> (Costa, 1847)	r	–	–
<i>Scottia pseudobrowniana</i> Kempf, 1971	–	–	r
cf. <i>Tonnacypris</i> sp.	r	–	–

R, running waters; P, pools; L, Lake Luanhaizi; a, abundant (>10 valves per sample); r, rare (<10 valves per sample).

<sup>a</sup>no distinction for habitat information

**Table 1.** Ostracod valves found within the 32 samples from the Qilian Mountains, NW China



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## Explanation of Plate 1.

fig. 1. *Candona candida*, ♂LV int., length 1110 µm (SM622). fig. 2. *C. rawsoni*, ♂RV ext., length 1190 µm (SM549). fig. 3. *Fabaeformiscandona caudata*, ♂RV ext., length 1010 µm (SM548). fig. 4. *Pseudocandona* cf. *eremita*, juvenile LV ext., length 775 µm (SM554). fig. 5. *F. danielopoli*, ♀RV ext., length 1290 µm (SM547). fig. 6. *F. danielopoli*, ♂LV int., length 1200 µm (SM572). fig. 7. *Eucypris* sp., RV int., length 1310 µm (SM620). fig. 8. *Psychrodromus* aff. *olivaceus*, LV int., length 1490 µm (SM609). fig. 9. *Paralimnocythere psammophila*, ♂LV ext., length 544 µm (SM600). fig. 10. *Ilyocypris* cf. *bradyi* or *I. lacustris*, RV ext., (by means of ext. view distinction not possible), length 964 µm (SM591). fig. 11. *I.* cf. *bradyi*, LV int., length 997 µm (SM645). fig. 12. *I. lacustris*, LV int., length 840 µm (SM603). fig. 13. Marginal ripplelets of *I.* cf. *bradyi*, enlargement of posteroventral area of specimen of fig. 11, width of cutting 490 µm. fig. 14. Marginal ripplelets of *I. lacustris*, enlargement of posteroventral area of specimen of fig. 12, width of cutting 450 µm. fig. 15. *I. echinata*, LV ext., length 1250 µm (SM583). fig. 16. *I. echinata*, LV int., length 1210 µm (SM581). fig. 17. *I. echinata*, dorsal, length 1170 µm (SM607). fig. 18. Marginal ripplelets of *I. echinata*, enlargement of posteroventral area of specimen of Fig. 16, width of cutting 615 µm. All specimens housed in the Interdisciplinary Centre for Ecosystem Dynamics in Central Asia of the Freie Universitaet Berlin, Germany.