

CHINA WATER BEETLE SURVEY (1995 - 1998)

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Abstract

Sampling localities (numbers 141 - 347) of the China Water Beetle Survey (1995 - 1998) are described. A few corrections and additions to Water Beetles of China (Vol. I) are presented.

Key words: China Water Beetle Survey, China, Coleoptera, Dytiscidae, *Dytiscus*, Hydrophilidae, *Laccobius*, locality list.

Introduction

Between 1995 and 1998 the China Water Beetle Survey (CWBS) carried out field work in 12 Chinese Provinces, Autonomous Regions, and Special Administrative Regions: Anhui, Fujian, Gansu, Guangxi, Guizhou, Hainan, Hong Kong, Nei Mongol, Jiangxi, Liaoning, Shaanxi, Sichuan (see Fig. 1). The sampling localities (numbers 141 - 347) are described below.

In additions to these collections, the authors received very interesting supplementary water beetle material collected recently in Macao, Taiwan, Tibet, and Zhejiang.

The faunistic-taxonomic results of the CWBS are published in the present volume. Fourteen families are treated in 22 articles by 25 authors. In addition to these taxonomic papers, a contribution of more general interest lists all beetle families so far confirmed to contain aquatic or riparian representatives. Noteworthy is the discovery of two water beetle families which were hitherto unknown from China: Epimetopidae and Torridincolidae.

List of localities sampled by the CWBS, 1995 - 1998

In square brackets "[00]" original field locality number as it may appear on labels.

141. **Liaoning Province;** Anshan City Region; Qian Shan [= Thousand Mountains] Forest Park; ca. 15 km SE Anshan City; small stream, ca. 0.5 m wide, cold, shaded, unpolluted, flowing through secondary forest, 300 m a.s.l.; 3.V.1995; leg. Wang [2].
142. **Liaoning Province;** Anshan City Region; Qian Shan Forest Park; ca. 15 km SE Anshan City; small stream, ca. 0.5 m wide, cold, shaded, unpolluted, flowing through secondary forest, upstream of CWBS loc. 141, near temple (Wulong Gong [= Palace of the five Dragons]); 310 m a.s.l.; 3.V.1995; leg. Wang [3].
143. **Liaoning Province;** Anshan City Region; Qian Shan Forest Park; ca. 15 km SE Anshan City; small stream (named Chaoyang Gong Gou by local people), ca. 1 m wide, cool water, partly shaded, unpolluted, 250 m a.s.l.; 3.V.1995; leg. Wang [4].
144. **Liaoning Province;** Anshan City Region; Qian Shan Forest Park; ca. 13 km SE Anshan City, 3 km from park main gate; small stream, ca. 1 m wide, cold, shaded, polluted, 200 m a.s.l.; 4.V.1995; leg. Wang; no beetles found.

145. **Liaoning Province**; Anshan City Region; Qian Shan Forest Park; ca. 15 km SE Anshan City, 5 km from park main gate; small stream, ca. 1 m wide, cold, shaded, slightly polluted, 250 m a.s.l.; 4.V.1995; leg. Wang [7].
146. **Liaoning Province**; Anshan City Region; Qian Shan Forest Park; ca. 15 km SE Anshan City; Longtan Lake, ca. 50 m wide, slightly eutrophic, 320 m a.s.l.; 4.V.1995; leg. Wang [8, 9].
147. **Liaoning Province**; Anshan City Region; Qian Shan Forest Park; ca. 15 km SE Anshan City, ca. 10 km from park main gate; Xihai Lake, ca. 80 m wide, slightly eutrophic, 350 m a.s.l.; 4.V.1995; leg. Wang [10].
148. **Liaoning Province**; Shenyang City Region; ca. 7 km NW Xinmin City; close to road No. 102; rain water and ground water pool, ca. 6 m wide, unshaded, 50 m a.s.l.; 2.VI.1995; leg. Wang [11].
149. **Liaoning Province**; Shenyang City Region; ca. 7 km NW Xinmin City; 20 m from CWBS loc. 148; rain water and ground water pool, ca. 15 m wide, unshaded, 50 m a.s.l.; 2.VI.1995; leg. Wang [12].
150. **Liaoning Province**; Shenyang City Region; ca. 7 km NW Xinmin City; 20 m from road No. 102; rain water and ground water pool, ca. 30 m wide, unshaded, 50 m a.s.l.; 2.VI.1995; leg. Wang [13].
151. **Liaoning Province**; Shenyang City Region; Xinmin City; ca. 9 km S Xinmin City; Liu He [= Willow River], ca. 30 m wide, fast flowing, with sand and mud; 50 m a.s.l.; 2.VI.1995; leg. Wang [14].
152. **Liaoning Province**; Shenyang City Region; ca. 30 km S Shenyang City; 2 km N Shilihe Zheng Village; man-made pond, ca. 50 m wide, unshaded, 30 m a.s.l.; 18.VII.1995; leg. Wang [15].
153. **Liaoning Province**; Shenyang City Region; ca. 30 km S Shenyang City; 1 km W Shilihe Zheng Village; rain water pool, ca. 10 m wide, close to rice field, slightly polluted, 30 m a.s.l.; 18.VII.1995; leg. Wang [16].
154. **Liaoning Province**; Shenyang City Region; ca. 30 km S Shenyang City; 1 km N Shilihe Zheng Village; small rain water pool, muddy, ca. 1 m wide, close to road, slightly polluted, 30 m a.s.l.; 18.VII.1995; leg. Wang [17].
155. **Liaoning Province**; Shenyang City Region; ca. 30 km S Shenyang City; 1.5 km N Shilihe Zheng Village; small river, ca. 10 m wide, slowly flowing, unshaded, slightly polluted, 30 m a.s.l.; 18.VII.1995; leg. Wang [18].
156. **Liaoning Province**; Shenyang City Region; ca. 30 km S Shenyang City; 1 km N Shilihe Zheng Village; small rain water pool, with gravel, ca. 1 m wide, close to CWBS loc. 154, slightly polluted, 30 m a.s.l.; 18.VII.1995; leg. Wang [19].
157. **Liaoning Province**; Dalian City Region; Jinzhou Qū [= Jin Xian]; Dahei Shan, ca. 10 km E Jinzhou City; small stream, fast flowing, shaded and unpolluted, flowing through forest, 100 m a.s.l.; 21.VII.1995; leg. Ji.
158. **Liaoning Province**; Dandong City Region; Kuandian County; Baishila Natural Reserve; ca. 35 km NE Kuandian City; small stream near the Village, ca. 0.5 m wide, slowly flowing, unshaded, mud and gravel, banks with gravel pools, 400 m a.s.l.; 30.VIII. 1995; leg. Ji & Wang.
159. **Liaoning Province**; Dandong City Region; Kuandian County; Baishila Natural Reserve; ca. 35 km NE Kuandian City, 9 km N of Baishila Village; small stream (named Jiamian Gou by local people), ca. 0.5 m wide, fast flowing, cold, shaded, gravel, incl. gravel pools, 520 m a.s.l.; 30.VIII.1995; leg. Ji & Wang.
160. **Liaoning Province**; Dandong City Region; Kuandian County; Baishila Natural Reserve; ca. 35 km NE Kuandian City; 10 km N of Baishila Village; rain and ground water pool (ca. 3 m²), surrounded by forest, cold water, shaded, with mud and gravel, 500 m a.s.l.; 30.VIII.1995; leg. Ji & Wang.
161. **Liaoning Province**; Dandong City Region; Kuandian County; Baishila Natural Reserve; 35 km NE Kuandian City; 10 km N Baishila Village; rain and ground water pool in forest, shallow, ca. 3 m², mud and gravel, ca. 600 m uphill CWBS loc. 160, 500 m a.s.l.; 30.VIII.1995; leg. Ji & Wang.

162. **Liaoning Province**; Dandong City Region; Kuandian County; Baishila Natural Reserve; ca. 35 km NE Kuandian City; 12 km N of Baishila Village; stream (Gaoligou He), ca. 3 m wide, unshaded, with gravel, 520 m a.s.l.; 31.VIII.1995; leg. Ji & Wang.
163. **Liaoning Province**; Dandong City Region; Kuandian County; Niumaowu Village; ca. 40 km NE Kuandian City, at Niumaowu Bridge; river, ca. 6 m wide, slowly flowing, with gravel and muddy edges, unshaded, slightly polluted, 380 m a.s.l.; 1.IX.1995; leg. Ji & Wang.
164. **Liaoning Province**; Dandong City Region; Kuandian County; Qingshangou Forest Park; ca. 50 km NE Kuandian City; small stream (Nangou [= South Valley]), ca. 1 m wide, cold and fast flowing, shaded and unpolluted, with rocks and gravel, limestone, 300 m a.s.l.; 1.IX.1995; leg. Ji & Wang.
165. **Liaoning Province**; Dandong City Region; Kuandian County; Qingshangou Forest Park; ca. 50 km NE Kuandian City; small stream (Beigou [= North Valley]), ca. 0.5 m wide, very cold and fast flowing, shaded and unpolluted, with rocks and gravel, limestone, 300 m a.s.l.; 1.IX.1995; leg. Ji & Wang.
166. **Liaoning Province**; Dandong City Region; Kuandian County; Qingshangou Forest Park; ca. 50 km NE Kuandian City; river (Beigou [= North Valley]), ca. 5 m wide, fast flowing, unshaded, banks with sand, rocks and gravel, limestone, 300 m a.s.l.; 1.IX.1995; leg. Ji & Wang.
167. **Liaoning Province**; Dandong City Region; Kuandian County; Qingshangou Forest Park; ca. 50 km NE Kuandian City; stream (Xigou [= West Valley]), ca. 2 m wide, fast flowing, cold, unshaded, sand, rocks and gravel, limestone, 300 m a.s.l.; 1.IX.1995; leg. Ji & Wang.
168. **Guangxi Autonomous Region**; Liuzhou City Region; Duleyan Park; ca. 18 km S Liuzhou City; small stream, ca. 1 m wide, slowly flowing to artificial lake, shaded, edges with mud and sand, slightly polluted, 30 m a.s.l.; 10.I.1996; leg. Ji & Wang.
169. **Guangxi Autonomous Region**; Liuzhou City Region; Duleyan Park; ca. 18 km S Liuzhou City; 500 m S of CWBS loc. 168; ground water pool, ca. 2 m², decaying leaves, margins with mud, unshaded, 30 m a.s.l.; 10.I.1996; leg. Ji & Wang.
170. **Guangxi Autonomous Region**; Liuzhou City Region; Duleyan Park; ca. 18 km S Liuzhou City; artificial lake, edges with mud and rocks, 30 m a.s.l.; 10.I.1996; leg. Ji & Wang.
171. **Hong Kong**; NW New Territories; Plover Cove Country Park, Sheung Miu Tin, ca. 1 km E Wu Kau Tang; small, springfed marsh, ca. 60 m a.s.l.; 14.I.1996; leg. Jäch.
172. **Hong Kong**; NW New Territories; Plover Cove Country Park, near abandoned village (Ha Mui Tin), ca. 1.5 km E Wu Kau Tang; Sam A Chung stream, ca. 1 - 2 m wide, partly shaded by secondary forest, ca. 60 m a.s.l.; 14.I.1996; leg. Jäch.
173. **Hong Kong**; NW New Territories; Plover Cove Country Park; small tributary of lower course of CWBS loc. 182, slightly brackish, unshaded, few m a.s.l.; 14.I.1996; leg. Jäch.
174. **Hong Kong**; NW New Territories; Plover Cove Country Park; two small streams, ca. 1 m wide, shaded by dense secondary forest (mainly bamboo), upper course of tributaries of CWBS loc. 182, draining Tiu Tang Lung Mountain, ca. 130 m a.s.l.; 14.I.1996; leg. Jäch; no beetles found.
175. **Hong Kong**; NW New Territories; Plover Cove Country Park, CWBS loc. 4a (see JÄCH & JI 1995); 14.I.1996; leg. Jäch.
176. **Hong Kong**; NW New Territories; Luk Keng area; Luk Keng Marsh near Kai Kuk Shue Ha Village, slightly above sea level; 14.I.1996; leg. Jäch.
177. **Hong Kong**; NW New Territories; Luk Keng area, Kai Kuk Shue Ha Village; small stream, ca. 1 - 2 m wide, with fine gravel, more or less unshaded, flowing through village into fish ponds, slightly above sea level; 14.I.1996; leg. Jäch.
178. **Hainan Province**; Qionghai City Region; 6 km W of Qionghai City, close to Haikou-Sanya Highway; shallow pool, with aquatic vegetation, probably abandoned fish pond, margins with mud, gravel and sand, 10 m a.s.l.; 13.I.1996; leg. Ji & Wang.

179. **Hainan Province**; Qionghai City Region; 6 km W of Qionghai City, ca. 1 km E of CWBS loc. 178; warm ground water pool, 6 m², margins with mud and grass, ca. 0.5 m deep, bottom with more than 10 cm mud, 10 m a.s.l.; 13.I.1996; leg. Ji & Wang.
180. **Hainan Province**; Qionghai City Region; 6 km W of Qionghai City, 2 km E of a small village; Wanchuan [= Ten Thousand Springs] River, ca. 60 m wide, slowly flowing, margins with mud and aquatic vegetation, 10 m a.s.l.; 13.I.1996; leg. Ji & Wang.
181. **Hainan Province**; Qionghai City Region; 6 km W of Qionghai City, 1 km E of a small village; ground water pool, ca. 5 m², close to rice fields, edges with mud and grass, 10 m a.s.l.; 13.I.1996; leg. Ji & Wang.
182. **Hainan Province**; Qionghai City Region; Baishiling Scenic Spot, ca. 10 km SW of Qionghai City; small stream, ca. 0.5 m wide, slowly flowing through rubber plantation, granite, sand and gravel, shaded, 20 m a.s.l.; 14.I.1996; leg. Ji & Wang.
183. **Hainan Province**; Qionghai City Region; Baishiling Scenic Spot, ca. 20 km SW of Qionghai City; close to CWBS loc. 182; deep ground water pool, 40 m², slightly polluted, margins with mud, shaded, 20 m a.s.l.; 14.I.1996; leg. Ji & Wang.
184. **Hainan Province**; Qionghai City Region; Baishiling Scenic Spot, ca. 20 km SW of Qionghai City; very small stream, slowly flowing to CWBS loc. 182; 0.3 m wide, granite, stones and gravel, shaded, 20 m a.s.l.; 14.I.1996; leg. Ji & Wang.
185. **Hainan Province**; Qionghai City Region; Baishiling Scenic Spot, ca. 20 km SW of Qionghai City; stream and pools under bridge close to main gate of park area, unshaded, slightly polluted, 15 m a.s.l.; 14.I.1996; leg. Ji & Wang.
186. **Hainan Province**; Qionghai City Region; Baishiling Scenic Spot, ca. 20 km SW of Qionghai City, 4 km NE of Baishiling; fishpond, > 100 m², edges with aquatic vegetation, margins with mud, 15 m a.s.l.; 14.I.1996; leg. Ji & Wang.
187. **Hainan Province**; Qionghai City Region; 2 km SW of Qionghai City; river (Wanguan He), ca. 150 m wide, margins with sand and mud, polluted, 10 m a.s.l.; 14.I.1996; leg. Ji & Wang.
188. **Hainan Province**; Qiongzong County; Baihua Ling [= Hundred Flowers Mountain], ca. 7 km W Qiongzong City [= Yinggen]; river, ca. 5 m wide, flowing through degraded forest, large boulders, sand, cataracts, ca. 300 m a.s.l.; 16.I.1996; leg. Jäch, Ji & Wang (Fig. 2).
189. **Hainan Province**; Qiongzong County; small tributary to CWBS loc. 188, ca. 1 m wide, densely shaded; 16.I.1996; leg. Ji.
190. **Hainan Province**; Qiongzong County; ca. 4 km W Qiongzong City; fish pond, ca. 150 m a.s.l.; 16.I.1996; leg. Jäch, Ji & Wang.
191. **Hainan Province**; Qiongzong County; small stream near CWBS loc. 190, ca. 0.5 m wide, partly shaded by shrubs; 16.I.1996; leg. Jäch, Ji & Wang.
192. **Hainan Province**; Qiongzong County; Maoyang Town; Changhua River, ca. 40 m wide (river bed ca. 80 m wide), potamal, banks with gravel and sand, ca. 100 m a.s.l.; 17.I.1996; leg. Jäch, Ji & Wang (Fig. 4).
193. **Hainan Province**; Qiongzong County; Wuzhi Shan [= Five Finger Mountain] Resort, ca. 2 km from Wuzhi Shan Village, ca. 30 km E Maoyang Town; small stream, ca. 2 - 3 m wide, shaded, flowing through degraded primary forest, below Wuzhi Shan Resort, ca. 600 m a.s.l.; 17./18.I.1996; leg. Jäch, Ji & Wang (Fig. 3).
194. **Hainan Province**; Qiongzong County; stream, ca. 5 m wide, densely shaded, flowing partly through deep gorge, through primary forest, above Wuzhi Shan Resort; ca. 700 - 800 m a.s.l.; 18.I.1996; leg. Jäch, Ji & Wang.

195. **Hainan Province**; Qiongzong County; small, springfed pool, ca. 1 m², margins with grass and mud, close to CWBS loc. 193; 18.I.1996; leg. Jäch, Ji & Wang.
196. **Hainan Province**; Qiongzong County; between Wuzhi Shan Village and Wuzhi Shan Resort; fish pond, ca. 600 m a.s.l.; 18.I.1996; leg. Jäch, Ji & Wang.
197. **Hainan Province**; Qiongzong County; ca. 3 km E Maoyang; Wuzhi Shan River, ca. 20 m wide, fast flowing, with big boulders, flowing through secondary forest and pastures, ca. 200 m a.s.l.; 19.I.1996; leg. Jäch, Ji & Wang.
198. **Hainan Province**; Qiongzong County; 3 km NE Maoyang; Wuzhi Shan River, ca. 30 m wide, slowly flowing through wide, deforested valley, only few riffles, banks with sand, grass and mud, ca. 100 m a.s.l.; 19.I.1996; leg. Jäch, Ji & Wang.
199. **Hainan Province**; Tongza City Region; ca. 2 km S Mao'an; river, ca. 5 m wide, banks with shrubs, grass, sand, mud, rock pools and seepage water, ca. 250 m a.s.l.; 20.I.1996; leg. Jäch, Ji & Wang.
200. **Hainan Province**; Tongza City Region; Mao'an Town; rice fields, ca. 250 m a.s.l.; 20.I.1996; leg. Jäch, Ji & Wang (Fig. 5).
201. **Hainan Province**; Sanya; ground water pools, partly brackish, near Sanya River, slightly above sea level; 20.I.1996; leg. Jäch, Ji & Wang (Fig. 6).
202. **Hainan Province**; Ledong County; E Jianfeng Town; several streams (including residual pools), 1 - 5 m wide, slowly flowing through rice fields and shrubs, only partly shaded, ca. 60 m a.s.l.; 21.I.1996; leg. Jäch, Ji & Wang.
203. **Hainan Province**; Ledong County; several springfed pools in pasture close to CWBS loc. 202; 21.I.1996; leg. Jäch, Ji & Wang.
204. **Hainan Province**; Ledong County; foot of Jianfeng [= Sharp Peak] Mountain, ca. 4 km E Jianfeng Town; river, ca. 5 - 10 m wide, fast flowing, through secondary forest, with big boulders, margins with rock pools, springfed pools and some seepage water, ca. 150 m a.s.l.; 22./24.I.1996; leg. Jäch, Ji & Wang (see Ji & JÄCH 1998: Fig. 11).
205. **Hainan Province**; Ledong County; Jianfeng Mountains; Jianfeng Forest Reserve, ca. 5 km NE Tian Chi Village; river, ca. 5 m wide, flowing through very dense primary forest, banks with stones and sand, ca. 800 m a.s.l.; 22.I.1996; leg. Jäch, Ji & Wang (Figs. 7, 9).
206. **Hainan Province**; Ledong County; Jianfeng Mountains; Jianfeng Forest Reserve, ca. 4 km NE Tian Chi [= Heaven Lake] Village; small streamlet, ca. 0.5 m wide, flowing through dense primary forest, ca. 800 m a.s.l.; 22.I.1996; leg. Jäch, Ji & Wang; no beetles found.
207. **Hainan Province**; Ledong County; Jianfeng Mountains; Jianfeng Forest Reserve, ca. 500 m NE Tian Chi Village; small streamlet, ca. 1 m wide, flowing through degraded primary forest, and deep, man-made pool, ca. 800 m a.s.l.; 22.I.1996; leg. Jäch, Ji & Wang.
208. **Hainan Province**; Ledong County; Jianfeng Mountains; ca. 5 km E Tian Chi Village; two small streams, ca. 3 m wide, flowing through degraded primary forest and shrubs, ca. 800 m a.s.l.; 23.I.1996; leg. Jäch, Ji & Wang.
209. **Hainan Province**; Ledong County; fish pond near CWBS loc. 208; 23.I.1996; leg. Jäch, Ji & Wang.
210. **Hainan Province**; Ledong County; Jianfeng Mountains; Tian Chi Botanical Garden; springfed pool, ca. 10 cm deep, 0.5 m² large, shaded, in degraded primary forest, ca. 800 m a.s.l.; 23.I.1996; leg. Jäch, Ji & Wang (Fig. 8).
211. **Hainan Province**; Ledong County; Jianfeng Mountains; Tian Chi Village; pool, ca. 20 m wide, several hundred m long, banks with reed, grass and sand, ca. 750 m a.s.l.; 23.I.1996; leg. Jäch, Ji & Wang.

212. **Hainan Province;** Ledong County; Jianfeng Mountains; 10 km E Jianfeng Town; springfed pools and small stream, ca. 2 - 3 m wide, potamal, flowing through pastures and shrub, margins with grass, mud and sand, ca. 700 m a.s.l.; 23.I.1996; leg. Jäch, Ji & Wang (Fig. 10).
213. **Hainan Province;** Ledong County; Jianfeng Town, Botanical Garden; residual pools of dried up stream, ca. 1 m wide, ca. 60 m a.s.l.; 24.I.1996; leg. Jäch, Ji & Wang.
214. **Hainan Province;** Wanning County; ca. 15 km SW Dongxing Town, ca. 1 km W Jianfeng Village; small stream, ca. 1 - 2 m wide, probably a tributary of CWBS loc. 215, meandering, water turbid, flowing through cultivated land (rubber plantations, bamboo groves, villages, etc.), ca. 70 m a.s.l.; 25.I.1996; leg. Jäch, Ji & Wang.
215. **Hainan Province;** Wanning County; ca. 500 m W CWBS loc. 214; river, ca. 5 m wide, with sand and gravel, flowing through cultivated land, ca. 70 m a.s.l.; 25.I.1996; leg. Jäch, Ji & Wang.
216. **Hainan Province;** Wanning County; ca. 8 - 10 km W Dongxing Town; meandering river, crossing the Dongxing - Jianfeng road three times, ca. 3 - 6 m wide, slightly turbid, with sand and gravel, flowing through cultivated land (rubber plantations, village gardens, rice fields, bamboo groves), probably being the lower course of CWBS loc. 215; ca. 70 m a.s.l.; 26.I.1996; leg. Jäch, Ji & Wang (Fig. 11).
217. **Hainan Province;** Wanning County; ca. 6 km W Dongxing Town; roadside rain water ditches and small man-made ground water pool (ca. 10 m²) in rubber plantation, ca. 50 m a.s.l.; 25.I.1996; leg. Jäch, Ji & Wang.
218. **Sichuan Province;** Yaan City Region; ca. 4 km E Yaan City; small stream, ca. 0.5 m wide, near rice fields on steep-sloped hill, red soil, partly shaded by shrubs and trees, ca. 600 m a.s.l.; 7.VI.1996; leg. Ji & Wang.
219. **Sichuan Province;** Yaan City Region; ca. 4 km E Yaan City; rice fields near CWBS loc. 218; 7.VI.1996; leg. Ji & Wang.
220. **Sichuan Province;** Yaan City Region; Bifengxia [= Beautiful Mountain Gorge]; ca. 12 km N Yaan City; stream, ca. 3 m wide, with gravel and stones, flowing through secondary forest, slightly polluted, ca. 900 m a.s.l.; 8.VI.1996; leg. Ji & Wang.
221. **Sichuan Province;** Yaan City Region; ca. 14 km N Yaan City; near road to Shangli Town; river, ca. 5 - 8 m wide, with large rocks, some of these partly moss-covered, flowing through secondary forest, ca. 800 m a.s.l.; 8.VI.1996; leg. Ji & Wang.
222. **Sichuan Province;** Yaan City Region; shallow water pool near CWBS loc. 221, banks with sand, grass and mud; 8.VI.1996; leg. Ji & Wang.
223. **Sichuan Province;** Yaan City Region; ca. 18 km N Yaan City and 3 km N of monastery (Baima Quán [= White Horse Spring]); small stream, ca. 2 - 3 m wide, clean and very cold, stones in the stream with moss, unshaded, ca. 900 m a.s.l.; 9.VI.1996; leg. Ji & Wang.
224. **Sichuan Province;** Yaan City Region; small ground water pool near CWBS loc. 223, with aquatic vegetation; 9.VI.1996; leg. Ji & Wang.
225. **Sichuan Province;** Yaan City Region; ca. 16 km N Yaan City and ca. 3 km N Shangli Town; small stream, ca. 0.5 m wide, tributary to CWBS loc. 223, ca. 950 m a.s.l.; 9.VI.1996; leg. Ji & Wang.
226. **Sichuan Province;** Yaan City Region; ca. 16 km N Yaan City and ca. 2 km NW Shangli Town; stream, ca. 2 - 3 m wide, fast flowing through secondary forest, ca. 950 m a.s.l.; 9.VI.1996; leg. Ji & Wang.
227. **Sichuan Province;** Yaan City Region; Baoxing County; ca. 2 km NE Baoxing City; near the road from Baoxing City to Xinglong Town; branch of Donghe [= East River] (= tributary of Qingyi Jiang [= Green Coat River]), ca. 3 - 5 m wide, polluted (silted up) due to marble mines, ca. 1000 m a.s.l.; 10.VI.1996; leg. Ji & Wang.

228. **Sichuan Province**; Yaan City Region; Baoxing County; ca. 5 km SW Baoxing City and 4 km N Shuangshi [= Twin Stones]; river (Xichuan He), ca. 5 m-wide, with pebbles and cobbles, cold, fast flowing through forest, ca. 900 m a.s.l.; 11.VI.1996; leg. Ji & Wang.
229. **Sichuan Province**; Yaan City Region; Lushan County; ca. 5 km N Lushan City, 2 km N Renjia Village, near abandoned power plant (between gate to gorge and bridge); Xichuan He, with pebbles and cobbles, and aquatic vegetation, unpolluted, ca. 900 m a.s.l.; 11.VI.1996; leg. Ji & Wang.
230. **Sichuan Province**; Yaan City Region; Lushan County; ca. 3 km S Lushan City; stream, ca. 3 m wide, fast flowing through secondary vegetation (trees and shrubs), valley slopes cultivated, ca. 650 m a.s.l.; 11.VI.1996; leg. Ji & Wang.
231. **Sichuan Province**; Yaan City Region; Tianqian County; Xingou [= New Gorge] Village; ca. 57 km W Yaan City, 6 km SW Zishi village; Tianqian He [= Sky Spring River], ca. 6 - 8 m wide, cold and fast flowing, with gravel and cobbles, slightly polluted, cultivated forest on valley slopes, ca. 1500 m a.s.l.; 12.VI.1996; leg. Ji & Wang.
232. **Sichuan Province**; Yaan City Region; Tianqian County; ca. 57 km W Yaan City, and 4 km W Xingou Village; at foot of Erlang Shan [= Two Wolves Mountain]; stream, ca. 2 - 3 m wide, tributary to Tianqian He, cold and fast flowing through secondary forest, shaded, unpolluted, ca. 1500 m a.s.l.; 12.VI.1996; leg. Ji & Wang.
233. **Sichuan Province**; Yaan City Region; Tianqian County; ca. 57 km W Yaan City, 4 km W Xingou Village; at foot of Erlang Shan; upstream of CWBS loc. 232; small stream, ca. 1 - 2 m wide, cold and fast flowing through secondary forest, large stones, leaf packs, unpolluted, ca. 1600 m a.s.l.; 13.VI.1996; leg. Ji & Wang.
234. **Sichuan Province**; Yaan City Region; Tianqian County; ca. 57 km W Yaan City, 4 km W Xingou village; very small puddle, on path near CWBS loc. 233, ca. 1600 m a.s.l.; 13.VI.1996; leg. Ji & Wang.
235. **Sichuan Province**; Yaan City Region; Tianqian County; ca. 20 km W Tianqian City; Dayu Xi [= Big Fish Brook] (tributary of Tianqian He), ca. 4 - 5 m wide, cold and rather fast flowing through open area, with cobbles, very clean, ca. 1200 m a.s.l.; 13.VI.1996; leg. Ji & Wang.
236. **Sichuan Province**; Yaan City Region; Tianqian County; ca. 20 km W Tianqian City; Tianqian He [= Heaven Spring River], ca. 10 m wide, cold and rather fast flowing, polluted, with large cobbles, ca. 1100 m a.s.l.; 13.VI.1996; leg. Ji & Wang.
237. **Sichuan Province**; Yaan City Region; Yaan City; ca. 3 km N Feixian [= Flying Angel] Town; ca. 10 km NW Yaan City; stream, ca. 3 m wide, warm and slowly flowing through cultivated land, with gravel, including pools near shore, ca. 700 m a.s.l.; 14.VI.1996; leg. Ji & Wang.
238. **Sichuan Province**; Leshan Prefecture; Emei Shan, ca. 15 km W Emei City; 1000 m uphill from Fuhu [= Lying Tiger] Monastery; stream, ca. 2 m wide, slowly flowing through deep gorge, shaded, with gravel, boulders and sand, slightly polluted, ca. 700 m a.s.l.; 15.VI.1996; leg. Ji & Wang.
239. **Sichuan Province**; Leshan Prefecture; Emei Shan, ca. 15 km W Emei City; uphill Xianfeng [= Ghost Peak] Monastery; shallow ground water pools, with decaying leaves, ca. 1700 m a.s.l.; 16.VI.1996; leg. Ji & Wang.
240. **Fujian Province**; Jianyuan Prefecture; Chong'an City Region; ca. 1 km W Wuyi Gong Village (= Shanqian, ca. 10 km S Chong'an City); residual pools in dry riverbed in steep valley, crystalline rock, 200 - 250 m a.s.l.; 15. and 18.I.1997; leg. Schönmann, Ji & Wang.
241. **Fujian Province**; Jianyuan Prefecture; Chong'an City Region; ca. 3 km SW Wuyi Gong Village (= Shanqian), ca. 10 km S Chong'an City; small stream (right tributary of Jiu Qü River, left branch), ca. 0.5 m wide, shaded, sandy, partly dried out, very few parts with slowly flowing water, some pools partly filled with water and plant debris, ca. 250 m a.s.l.; 16.I.1997; leg. Schönmann, Ji & Wang.

242. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 3 km SW Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; small stream (right tributary of Jiu Qū River, right branch), similar to CWBS loc. 241, < 0.5 m wide, just above a small waterfall, ca. 250 m a.s.l.; 16.I.1997; leg. Schönmann, Ji & Wang (Fig. 12).
243. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 3 km SW Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; small springfed pool (ca. 0.5 m²) on a slope with plum tree plantations near CWBS loc. 242, ca. 250 m a.s.l.; 16.I.1997; leg. Schönmann, Ji & Wang (Fig. 13).
244. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 2 km SW Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; river (Jiu Qū Xi [= Nine Curves River]), 5 - 10 m wide, slowly flowing, partly shallow with wide gravel banks, partly deep pools, slightly polluted, 150 m a.s.l.; 16.I.1997; leg. Schönmann, Ji & Wang.
245. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; near Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City, 2 km N Xingcun; left tributary of Jiu Qū Xi, ca. 0.5 m wide, flowing slowly between rice fields, shaded by bushes, coarse gravel covered by algae, slightly polluted, 170 m a.s.l.; 16.I.1997; leg. Schönmann, Ji & Wang.
246. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 3 km NW Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; upper part of small river, mostly dried out, partly 20 - 30 cm wide sections of flowing water in narrow gorges, crystalline sand and gravel, partly larger pools, shaded by dense vegetation, gravel mostly covered by algae, 300 m a.s.l.; 17.I.1997; leg. Schönmann, Ji & Wang.
247. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 2 km NW Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; deep roadside pool, ca. 1 m², with filamentous green algae, 250 m a.s.l.; 17.I.1997; leg. Schönmann, Ji & Wang.
248. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 3 km W Wuyi Gong Village [= Shanqian], ca. 10 km S Chong'an City; very small stream, only a few cm wide, upper part of stream forming CWBS loc. 240, shaded by bushes, long and narrow pools with almost stagnant water, short sections with slowly flowing water, gravel and sand, many algae, 350 - 400 m a.s.l.; 18.I.1997; leg. Schönmann, Ji & Wang.
249. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; 2 km W Da'an Town, ca. 20 km NW Chong'an City; small stream, < 0.5 m wide, flowing through small forest and rice fields, coarse crystalline gravel, shaded, water very cold, 450 m a.s.l.; 19.I.1997; leg. Schönmann, Ji & Wang.
250. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; 3 km W Da'an Town, ca. 20 km NW Chong'an City; small stream in steep valley, < 0.5 m wide, rock pools and waterfalls, sections with coarse crystalline gravel, densely shaded by forest, water very cold, 500 m a.s.l.; 19.I.1997; leg. Schönmann, Ji & Wang.
251. **Fujian Province;** Jianyuan Prefecture; Chong'an City Region; ca. 20 km NW Chong'an City, 5 km S Da'an, 2 km NE Lian Dun Village; small river, 0.5 - 1.0 m wide, in steep, densely forested valley (broadleaf trees and bamboo), rock pools and waterfalls, sections with fine and coarse crystalline gravel, densely shaded, water very cold, 500 m a.s.l.; 20.I.1997; leg. Schönmann, Ji & Wang (Fig. 15).
252. **Fujian Province;** Jianyuan Prefecture; Guangze County [= Shuanxi]; 12 km S Zhima Town and 2 km N Li Fang Village; small stream flowing from forested mountains (broadleaf trees, bamboo and *Cunninghamia*), ca. 1 m wide, partly shaded by bushes, pools (filled with sand) and sections with granitic rocks and coarse crystalline gravel, 400 m a.s.l.; 22.I.1997; leg. Schönmann, Ji & Wang.
253. **Fujian Province;** Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 3 km SW Xiyang Village; two small streams, < 0.5 m wide, with crystalline sand and some big granitic rocks, deep pools shaded by bushes, surrounded by rice fields, plum tree plantations and *Cunninghamia* forest, 450 m a.s.l.; 24.I.1997; leg. Schönmann, Ji & Wang.

254. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 2 km SW Xiyang Village; small stream, ca 1.5 - 2.0 m wide, slowly flowing along railway, crystalline sand and gravel, shaded by bushes, 350 m a.s.l.; 24.I.1997; leg. Schönmann, Ji & Wang.
255. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 2.5 km SW Xiyang Village; stream, 2 - 3 m wide, flowing through a rather flat valley, more or less unshaded, surrounded by fields (tobacco, rice), 350 m a.s.l.; 24.I.1997; leg. Schönmann, Ji & Wang.
256. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 5 km SW Xiyang Village; small stream descending from Ziyungdong Shan (1629 m), fast flowing, < 0.5 m wide, steep slopes with bushes, big granitic rocks, 550 m a.s.l.; 25.I.1997; leg. Schönmann, Ji & Wang.
257. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 4 km SW Xiyang Village; stream, 2 - 3 m wide, with sand and big granitic rocks, deep pools and sections with small gravel, partly shaded by bushes, surrounded by rice fields and tobacco plantations, 400 m a.s.l.; 25.I.1997; leg. Schönmann, Ji & Wang.
258. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 5 km N Xiyang Village; small stream, < 0.5 m wide, in steep forested valley (*Cunninghamia* and broadleaf trees), pools with sand and decaying organic matter between sections with coarse gravel, 400 m a.s.l.; 26.I.1997; leg. Schönmann, Ji & Wang.
259. **Fujian Province**; Jianyuan Prefecture; Yong'an City Region; ca. 20 km SE Yong'an City, 6 km N Xiyang Village; roadside pools, unshaded, and shallow pools in rice fields, 400 m a.s.l.; 26.I.1997; leg. Schönmann, Ji & Wang.
260. **Fujian Province**; Longyan City Region; near Ke Shan Monastery, near Jiangshan [= Tongbo], on the slope of Meihua Shan (ca. 1700 m), 20 km N Longyan City; small stream, ca. 0.5 m wide, partly flowing over granitic rock (incl. small pools), partly running over coarse gravel, turbid, partly shaded by bushes, surrounded by rice fields, 900 - 1000 m a.s.l.; 28.I.1997; leg. Schönmann, Ji & Wang.
261. **Fujian Province**; Longyan City Region; near Ke Shan Monastery, near Jiangshan [= Tongbo], on the slope of Meihua Shan (ca. 1700 m), 20 km N Longyan City; shallow pools in rice fields near CWBS loc. 260, 900 - 1000 m a.s.l.; 28.I.1997; leg. Schönmann, Ji & Wang.
262. **Fujian Province**; Longyan City Region; ca. 30 km W Longyan City, 2 km S Dachi Village; stream, ca. 1 - 2 m wide, descending from Ceyan Shan (ca. 1500 m), rocky steps with waterfalls, pools with crystalline sand, coarse granitic gravel, in the upper section surrounded by broadleaf forest, in the lower section by rice fields, 750 m a.s.l.; 29.I.1997; leg. Schönmann, Ji & Wang.
263. **Fujian Province**; Longyan City Region; 2 km N Xiaochi Village, ca. 20 km W Longyan City; mountain stream, 3 - 5 m wide, flowing through densely forested (broadleaf trees) steep valley descending from Meihua Shan, small waterfalls, big pools, crystalline sand and gravel, shaded, pools with decaying organic matter, 650 m a.s.l.; 30.I.1997; leg. Schönmann, Ji & Wang (Figs. 14, 16).
264. **Fujian Province**; Longyan City Region; 2 km E Shizhong Town, ca. 40 km S Longyan City; small stream, < 0.5 m wide, descending from Shangfang Shan (ca. 1400 m, partly forested), only little water running in deep gorge, waterfalls and small pools, surrounded by rice fields and *Cunninghamia* forest, 850 m a.s.l.; 31.I.1997; leg. Schönmann, Ji & Wang.
265. **Guizhou Province**; Guiyang City Region; 17 km S Guiyang City, ca. 100 m below Huaxi Town, near reservoir dam; pool, ca. 20 m², polluted, with aquatic vegetation, ca. 1100 m a.s.l.; 25.VII.1997; leg. Wang.
266. **Guizhou Province**; Liupanshui City Region; 10 km W Liupanshui City, close to Yao Shang reservoir dam; deep pool, ca. 2 m², with aquatic vegetation, slightly polluted, ca. 1800 m a.s.l.; 27.VII.1997; leg. Wang.

267. **Guizhou Province**; Liupanshui City Region; 10 km W Liupanshui City, close to CWBS loc. 266; shallow and small ground water pool, ca. 20 m², slightly polluted, ca. 1800 m a.s.l.; 27.VII.1997; leg. Wang.
268. **Guizhou Province**; Liupanshui City Region; 10 km W Liupanshui City; Yao Shang Reservoir, bank with aquatic vegetation, mud and sand, slightly polluted, surrounded by agricultural fields, ca. 1800 m a.s.l.; 27.VII.1997; leg. Wang.
269. **Guizhou Province**; Liupanshui City Region; 2 km E Liupanshui City; Dewu Reservoir, slightly polluted, ca. 1800 m a.s.l.; 27.VII.1997; leg. Wang.
270. **Guizhou Province**; Bijie Prefecture; Weining Hui and Miao Autonomous Region; 2 km S Weining City; lake (Cao Hai [= Sea of Grass]), with aquatic vegetation, polluted, ca. 2400 m a.s.l.; 28.VII.1997; leg. Wang.
271. **Guizhou Province**; Bijie Prefecture; Bijie County; 5 km NW Bijie City; Dao Tian He [= Rice Field River] Reservoir, slightly polluted, ca. 1200 m a.s.l.; 28.VII.1997; leg. Wang.
272. **Guizhou Province**; Bijie Prefecture; Bijie County; 2 km SE CWBS loc. 271; river [Dao Tian He], 10 m wide, slightly polluted, fast flowing, banks with aquatic vegetation, ca. 1200 m a.s.l.; 28.VII.1997; leg. Wang.
273. **Guizhou Province**; Bijie Prefecture; Bijie County; close to CWBS loc. 272; small stream, ca. 0.5 m wide, unpolluted, partly shaded, surrounded by secondary forest, ca. 1200 m a.s.l.; 28.VII.1997; leg. Wang.
274. **Guizhou Province**; Bijie Prefecture; Minxi County; Dou Lou Lake, with aquatic vegetation, surrounded by agricultural fields, slightly polluted, ca. 1200 - 1300 m a.s.l.; 30.VII.1997; leg. Wang.
275. **Guizhou Province**; Bijie Prefecture; Minxi County; Gong Jia Lake, with aquatic vegetation, surrounded by agricultural fields, slightly polluted, ca. 1200 - 1300 m a.s.l.; 30.VII.1997; leg. Wang.
276. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 29 km NE Zunyi City; Huangni [= Yellow Mud] River, 10 m wide, slowly flowing, surrounded by rice fields, banks with gravel, mud and sand, polluted, ca. 1000 m a.s.l.; 3.VIII.1997; leg. Wang.
277. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 25 km NE Zunyi City, near Niuxin Shan village; stream, 2 m wide, slowly flowing, banks with gravel, mud and sand, surrounded by agricultural fields, ca. 1000 m a.s.l.; 3.VIII.1997; leg. Wang.
278. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 25 km NE Zunyi City, near Niuxin Shan village; river, 5 m wide, fast flowing, banks with gravel and sand, slightly polluted, ca. 1000 m a.s.l.; 3.VIII.1997; leg. Wang.
279. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; Tuanxi village; small stream, ca. 0.5 m wide, fast flowing, with gravel, mud and sand, ca. 1000 m a.s.l.; 3.VIII.1997; leg. Wang.
280. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 40 km N Zunyi City, near Sidu Town; small stream, ca. 0.5 wide, surrounded by rice fields, polluted, ca. 1200 m a.s.l.; 4.VIII.1997; leg. Wang.
281. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 40 km N Zunyi City, close to CWBS loc. 280; pool, 3 m², polluted, ca. 1200 m a.s.l.; 4.VIII.1997; leg. Wang.
282. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 25 km N Zunyi City; small river, ca. 3 m wide, gravel and sand, polluted, surrounded by agricultural fields and trees, ca. 1200 m a.s.l.; 5.VIII.1997; leg. Wang.
283. **Guizhou Province**; Zunyi Prefecture; Zunyi City Region; 20 km N Zunyi City; stream, ca. 1 m wide, gravel and sand, polluted, surrounded by agricultural fields, ca. 1200 m a.s.l.; 5.VIII.1997; leg. Wang.

284. **Anhui Province**; Weizhou Prefecture; Huang Shan [= Yellow Mountains] National Park; Qi Yun Shan [= Cloudy Mountains] near Yan Qian, 30 km W Huang Shan City [= Tunxi]; stream, < 0.5 m wide, running over conglomerate rock in a gorge, densely shaded, more or less dried out, residual pools, 500 m a.s.l.; 24.X.1997; leg. Schönmann & Wang.
285. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; Qi Yun Shan near Yan Qian, 30 km W Huang Shan City [= Tunxi]; small stream, < 0.5 m wide, conglomerate rock, sand and gravel, deep residual pools (2 - 3 m wide) and small waterfalls, 250 m a.s.l.; 24.X.1997; leg. Schönmann & Wang.
286. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; Tang Kou Town, 60 km NNW Huang Shan City [= Tunxi]; stream, < 0.5 m wide, fast flowing, big crystalline rocks, some sand and gravel, warm rest water with green algae, 550 m a.s.l.; 25.X.1997; leg. Schönmann & Wang.
287. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 40 km NW Huang Shan City [= Tunxi], on the road from Huang Shan City to Tang Kou Town; 2 small streams, < 0.5 m wide, surrounded by tea and vegetable gardens, shaded by bushes and bamboo, pools with leaves, small waterfalls, short sections with water running over crystalline sand and gravel, 350 - 400 m a.s.l.; 26.X.1997; leg. Schönmann & Wang.
288. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 30 km NW Huang Shan City [= Tunxi]; 5 km E Nantang Village; stream (right tributary of Gui Chuan [= Precious River]), < 0.5 m wide, running through a deep gully with partly artificial walls, surrounded by rice fields, tea and vegetable gardens, shaded by bushes, 350 - 400 m a.s.l.; 28.X.1997; leg. Schönmann & Wang.
289. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 30 km NW Huang Shan City [= Tunxi]; 4 km E Nantang Village; stream [Gui Chuan], 0.5 m (narrow rocky sections with fast running water) to 5 m (pools with nearly stagnant water) wide, flowing through flat valley, sections with crystalline gravel and sand, unshaded, surrounded by rice fields, tea and vegetable gardens, 300 - 350 m a.s.l.; 28.X.1997; leg. Schönmann & Wang.
290. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 50 km W Huang Shan City [= Tunxi], Yi Xian Shan; stream, 1.0 - 1.5 m wide, running along a small road in a narrow valley with steep slopes mainly covered by *Cunninghamia* forest, mostly dried out, only few sections with rest water running over crystalline gravel, partly shaded, 350 - 400 m a.s.l.; 29.X.1997; leg. Schönmann & Wang.
291. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 30 km NW Huang Shan City [= Tunxi], 3 km W Nantang; stream, ca. 0.5 - 1.0 m wide, waterfalls and pools, rocky and gravelly sections, partly shaded by bushes and bamboo, surrounded by vegetable gardens, 350 - 550 m a.s.l.; 30.X.1997; leg. Schönmann & Wang.
292. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 60 km NNW Huang Shan City [= Tunxi]; stream (beneath cable car), ca. 3 - 5 m wide, almost completely dried out, surrounded by primary forest, very big granitic rocks and sand, short sections with running water (20 - 30 cm wide), small residual pools with decaying leaves, 900 - 1000 m a.s.l.; 31.X.1997; leg. Schönmann & Wang (Figs. 17, 20).
293. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 45 km NW Huang Shan City [= Tunxi], 4 km NE of Huang Shan City - Tang Kou Town road; small stream, < 0.5 m wide, in a narrow steep valley, mainly shaded by bushes, surrounded by vegetable and tea gardens and single yew trees, 550 m a.s.l.; 1.XI.1997; leg. Schönmann & Wang.
294. **Anhui Province**; Weizhou Prefecture; Huang Shan NP; 45 km NW Huang Shan City [= Tunxi], 4 km NE of Huang Shan City - Tang Kou road; stream, ca. 3 - 5 m wide, along a narrow road in a valley with steep forested slopes, and few rice fields, running over crystalline rock and coarse gravel, unshaded, 400 m a.s.l.; 1.XI.1997; leg. Schönmann & Wang (Fig. 18).

295. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; ca. 40 km N Yuexi City, near Gui Xing Di Village; stream, ca. 1 - 2 m wide, running over granitic rock, small waterfalls and sandy pools with decaying leaves, short sections with gravel and sand, surrounded by bushes and *Cunninghamia* and *Pinus* forest, 800 m a.s.l.; 5.XI.1997; leg. Schönmann & Wang.
296. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; ca. 20 km N Yuexi City, near Shi Guan Village; stream, ca. 3 - 5 m wide, shallow and slowly flowing through a flat valley, crystalline sand, short sections with gravel and waterfalls, slightly polluted, partly shaded by bushes and single trees, surrounded by rice fields, 900 m a.s.l.; 6.XI.1997; leg. Schönmann & Wang.
297. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; near Shi Guan, ca. 20 km N Yuexi City; stream, ca. 0.5 - 1.0 m wide, surrounded by dense bushes and *Cunninghamia* forest, completely shaded, small waterfalls, sections with gravel, decaying leaves, 950 - 1000 m a.s.l.; 6.XI.1997; leg. Schönmann & Wang.
298. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; Huang Liyan Village, near Baojia Village, ca. 50 km NW Yuexi City; stream, ca. 1 - 3 m wide, fast flowing, big granitic rocks, small waterfalls, branches with sand, gravel and decaying leaves, shaded by bushes and broadleaf trees, 1050 m a.s.l.; 7.XI.1997; leg. Schönmann & Wang (Fig. 19).
299. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; ca. 50 km NW Yuexi City, Huang Liyan Village, near Baojia Village; two streams (tributaries of CWBS loc. 298), ca. 0.5 - 1.0 m wide, in steep and narrow forested valleys, mainly running over rock, small sandy pools with decaying leaves, densely shaded, 1000 - 1050 m a.s.l.; 8.XI.1997; leg. Schönmann & Wang.
300. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; ca. 25 km N Yuexi City, near Shi Guan Village; stream, ca. 20 - 30 cm wide, running over steep crystalline rock, with few small pools with sand, gravel and decaying leaves, surrounded by dense forest, 1100 m a.s.l.; 9.XI.1997; leg. Schönmann & Wang.
301. **Anhui Province**; Anqing Prefecture; Yuexi County; Dabie Shan; ca. 25 km N Yuexi City, near Shi Guan Village; stream, ca. 1 - 2 m wide, slowly flowing, big rounded granitic boulders, sand, gravel and decaying leaves, densely shaded, 1100 m a.s.l.; 9.XI.1997; leg. Schönmann & Wang.
302. **Jiangxi Province**; Yicun Prefecture; Jiuling Shan; Fengxin County; 18 km NW Shangfu City, near Jiu Xian Village, on Wumei Shan (1740 m); streams, 0.5 - 1.0 m wide, deep ditches, crystalline sand, little gravel, shaded by bushes and surrounded by rice fields, 700 - 800 m a.s.l.; 12.XI.1997; leg. Schönmann & Wang.
303. **Jiangxi Province**; Yicun Prefecture; Jiuling Shan; Fengxin County; 18 km NW Shangfu City, near Jiu Xian Village, on Wumei Shan (1740 m); stream, 3 - 5 m wide, fast flowing, crystalline boulders and coarse gravel, unshaded, surrounded by rice fields, artificial dams made of gravel and rice roots divert water for mills, 650 m a.s.l.; 12.XI.1997; leg. Schönmann & Wang.
304. **Jiangxi Province**; Yicun Prefecture; Jiuling Shan; Fengxin County; 8 km NW Shangfu City, near Shang Bao Village; stream, ca. 1 - 2 m wide, in a dense bamboo forest, big granitic rocks and sand, man-made canals, 700 m a.s.l.; 13.XI.1997; leg. Schönmann & Wang.
305. **Jiangxi Province**; Yicun Prefecture; Jiuling Shan; Fengxin County; 35 km W Shangfu City, near Dong Xi Ling Village; stream, ca. 0.5 - 1.0 m wide, in a deep ravine between rice fields, 800 m a.s.l.; 14.XI.1997; leg. Schönmann & Wang.
306. **Jiangxi Province**; Yicun Prefecture; Jiuling Shan; Fengxin County; 18 km NW Shangfu City, near Jiu Xian Village, on slope of Wumei Shan (1740 m); two very steep mountain streams (sources of CWBS loc. 303), 2 - 3 m wide, surrounded by dense forest (bamboo, *Cunninghamia* and various broadleaf trees), high waterfalls, deep and sandy pools, granitic boulders, 800 m a.s.l.; 15.XI.1997; leg. Schönmann & Wang (Fig. 21).

307. **Shaanxi Province**; Baoji Prefecture; Mei County, Tangyu Town; 130 km SE Baoji City, Taibai Shan Forest Park, foot of Long Shan; stream, ca. 8 m wide, fast flowing, cold, with boulders, sand and gravel, slightly polluted, ca. 1100 m a.s.l.; 1.VI.1998; leg. Wang.
308. **Shaanxi Province**; Baoji Prefecture; Zhouzhi County; 2 km W Houzhenzi Nature Reserve; small stream (An Gou), ca. 1 m wide, fast flowing, cold, with boulders, sand and gravel, unpolluted, ca. 1200 m a.s.l.; 2.VI.1998; leg. Wang.
309. **Shaanxi Province**; Baoji Prefecture; Zhouzhi County; 2 km E Houzhenzi Nature Reserve; river (Hou Gou), ca. 10 m wide, fast flowing, very cold, with big rocks, sand, and gravel, surrounded by dense forest, partly shaded, unpolluted, ca. 1300 m a.s.l.; 3.VI.1998; leg. Wang.
310. **Shaanxi Province**; Baoji Prefecture; Zhouzhi County; 2 km E Houzhenzi Nature Reserve, near CWBS loc. 309; small stream, ca. 0.5 m wide, slowly flowing, cold, partly shaded, unpolluted, ca. 1300 m a.s.l.; 3.VI.1998; leg. Wang.
311. **Shaanxi Province**; Baoji Prefecture; Foping County; 2 km S Longcaoping Town; stream, ca. 6 m wide, fast flowing, very cold, with boulders, sand, and gravel, surrounded by dense forest, partly shaded, slightly polluted, ca. 1200 m a.s.l.; 3.VI.1998; leg. Wang.
312. **Shaanxi Province**; Baoji Prefecture; Foping County; 5 km S Longcaoping Town; stream, ca. 7 m wide, fast flowing, very cold, with boulders, sand, and gravel, surrounded by dense forest, partly shaded, slightly polluted, ca. 1300 m a.s.l.; 4.VI.1998; leg. Wang.
313. **Shaanxi Province**; Ankang Prefecture; Ningshan County; 5 km NW Huoditang Town; stream (Huodi Gou), ca. 2 m wide, fast flowing, very cold, with boulders, sand and gravel, surrounded by dense forest, unpolluted, ca. 1900 m a.s.l.; 5.VI.1998; leg. Wang.
314. **Shaanxi Province**; Ankang Prefecture; Ningshan County; 7 km NW Huoditang Village; stream (Banqiao Gou), ca. 2 m wide, fast flowing, very cold, with boulders, sand and gravel, surrounded by dense forest, partly shaded, slightly polluted, ca. 1650 m a.s.l.; 5.VI.1998; leg. Wang.
315. **Shaanxi Province**; Ankang Prefecture; Ningshan County; 10 km NE Xunyangba Town; stream (Xiangtan Gou), ca. 6 m wide, fast flowing, very cold, with big rocks, sand and gravel, surrounded by *Larix* and *Picea* and broadleaf forest, unpolluted, ca. 1500 m a.s.l.; 6.VI.1998; leg. Wang.
316. **Shaanxi Province**; Hanzhong Prefecture; 7 km SE Liuba; Hanzhong - Liuba road, near Taoyuanpu Village; stream, ca. 5 m wide, moderately fast flowing, very cold, with sand and gravel, surrounded by agricultural fields, ca. 1300 m a.s.l.; 7.VI.1998; leg. Wang.
317. **Shaanxi Province**; Hanzhong Prefecture; 2 km SE Liuba; stream, ca. 5 m wide, flowing through flat valley, cold, with sand and gravel, surrounded by agricultural fields, slightly polluted, unshaded, ca. 1400 m a.s.l.; 8.VI.1998; leg. Wang.
318. **Shaanxi Province**; Baoji Prefecture; Feng County; 7 km NE Qinling Train Station, Tiantai Shan Forest Park; stream, ca. 5 m wide, fast flowing, cold, with boulders, sand and gravel, slightly polluted, surrounded by secondary forest, ca. 1700 m a.s.l.; 8.VI.1998; leg. Wang.
319. **Shaanxi Province**; Baoji Prefecture; Feng County; 7 km NE Qinling Train Station, Tiantai Shan Forest Park, 4 km E CWBS loc. 318; stream, ca. 2 m wide, flowing through narrow valley with forested slopes; boulders, sand and gravel, cold, unpolluted, ca. 2000 m a.s.l.; 9.VI.1998; leg. Wang.
320. **Shaanxi Province**; Baoji Prefecture; Feng County; 7 km NE Qinling Train Station, Tiantai Shan Forest Park, 2 km E CWBS loc. 318; pool, ca. 5 m², with aquatic vegetation, unpolluted, ca. 1900 m a.s.l.; 9.VI.1998; leg. Wang.
321. **Shaanxi Province**; Baoji Prefecture; Feng County; 7 km NE Qinling Train Station, Tiantai Shan Forest Park, 5 km S CWBS loc. 318; stream, ca. 10 m wide, with boulders, sand and gravel, shaded, cold, unpolluted, flowing through flat valley with forested slopes, ca. 1800 - 1900 m a.s.l.; 10.VI.1998; leg. Wang.

322. **Gansu Province**; Wudu Prefecture; Wen County; 4 km N Shangdan Village; stream, ca. 3 m wide, fast flowing, warm, slightly polluted, ca. 1100 m a.s.l.; 13.VI.1998; leg. Wang.
323. **Gansu Province**; Wudu Prefecture; Wen County; 1 km N Shangdan Village; small stream, ca. 1 m wide, fast flowing, warm, slightly polluted, surrounded by agricultural fields, ca. 1150 m a.s.l.; 14.VI.1998; leg. Wang.
324. **Gansu Province**; Wudu Prefecture; Wen County; near Bikou Town; stream (Bifen Gou), ca. 10 m wide, fast flowing, slightly polluted, ca. 650 m a.s.l.; 14.VI.1998; leg. Wang.
325. **Gansu Province**; Wudu Prefecture; Wen County; Bikou Town; near Dianba Village; river (Zheng Gou), ca. 15 m wide, with boulders, sand and gravel, fast flowing through flat valley with forested slopes, surrounded by agricultural fields, slightly polluted, ca. 950 m a.s.l.; 15.VI.1998; leg. Wang.
326. **Gansu Province**; Wudu Prefecture; Wen County; Bikou Town; near Dianba Village; river (Dong Gou), ca. 10 m wide, fast flowing through narrow valley, surrounded by secondary forest, slightly polluted, with boulders, sand and gravel, ca. 950 m a.s.l.; 15.VI.1998; leg. Wang.
327. **Nei Mongol Autonomous Region**; Zhaowuda Meng Prefecture; Wengniute Qi County; ca. 120 km NNE Chifeng, surrounding of Wulanaodu Research Station; springfed pool with steep margins, surrounded by dense vegetation (reed, bushes and trees), ca. 480 m a.s.l.; 22.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
328. **Nei Mongol Autonomous Region**; Zhaowuda Meng Prefecture; Wengniute Qi County; 120 km NNE Chifeng, surrounding of Wulanaodu Research Station; flat rain water pools between dunes, submerged vegetation, ca. 480 m a.s.l.; 22.VII.1998; leg. Ji, Schönmann, Schönmann & Wang (Figs. 22, 23).
329. **Nei Mongol Autonomous Region**; Zhaowuda Meng Prefecture; Wengniute Qi County; 120 km NNE Chifeng, surrounding of Wulanaodu Research Station; flat rain water pools in a meadow, filled with submerged vegetation, ca. 480 m a.s.l.; 22.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
330. **Nei Mongol Autonomous Region**; Ganjig Ka County; ca. 20 km SW Ganjig Ka, Daqing Shan National Park; river (tributary of Liu He), 2 - 5 m wide, sand, submerged trees and organic litter along the shores, densely shaded, slowly flowing through a ca. 50 m deep valley, forested with various broadleaf trees, ca. 180 m a.s.l.; 24.VII.1998; leg. Ji, Schönmann, Schönmann & Wang (Fig. 24).
331. **Sichuan Province**; Mao County; Jiuding Shan; ca. 10 km SW Mao Xian [= Fengyizhen], above Chashan Village; small spring surrounded by dense vegetation, sandy, densely shaded, ca. 2000 m a.s.l.; 28.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
332. **Sichuan Province**; Mao County; Jiuding Shan; ca. 5 km SW Mao Xian [= Fengyizhen]; fast flowing mountain river (left tributary of Min Jiang), 3 - 5 m wide, crystalline boulders, gravel, sand, unshaded, cold water, 1700 m a.s.l.; 28.VII.1998; leg. Ji, Schönmann, Schönmann & Wang (Fig. 25).
333. **Sichuan Province**; Mao County; Jiuding Shan; 8 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; sandy spring surrounded by dense vegetation, flowing over slate, shaded, 1750 m a.s.l.; 29.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
334. **Sichuan Province**; Mao County; Jiuding Shan; ca. 8 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; mountain river, 2 - 3 m wide, fast flowing, very steep shores with dense vegetation (bushes), big crystalline boulders and gravel, cascades, unshaded, cold water, ca. 1900 m a.s.l.; 29.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
335. **Sichuan Province**; Mao County; Jiuding Shan; ca. 7 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; small stream, running along a narrow road, < 0.5 m wide, sandy, slabs of slate, partly shaded by bushes, ca. 1850 m a.s.l.; 29.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.

336. **Sichuan Province**; Mao County; Jiuding Shan; ca. 10 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; small stream, < 0.5 m wide, fast running through a narrow and very steep valley, waterfalls, slabs of slate, small sandy pools, partly shaded, ca. 1950 m a.s.l.; 29.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
337. **Sichuan Province**; Mao County; Jiuding Shan; ca. 20 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; stream, 2 - 3 m wide, cold, crystalline gravel and sand, fast flowing, partly shaded by bushes, slightly polluted (surrounded by cabbage fields), ca. 1650 m a.s.l.; 30.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
338. **Sichuan Province**; Mao County; Jiuding Shan; ca. 15 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; mountain stream, 1 - 2 m wide, big crystalline gravel, very cold and fast flowing between cabbage fields, unshaded, ca. 1950 m a.s.l.; 30.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
339. **Sichuan Province**; Mao County; Jiuding Shan; ca. 5 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; rest water of CWBS loc. 334 beneath dam, < 0.5 m wide, flowing in 3 - 5 m wide riverbed consisting of crystalline gravel and sand, polluted, warm water, unshaded, ca. 1650 m a.s.l.; 30.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
340. **Sichuan Province**; Mao County; Jiuding Shan; ca. 6 km NE Mao Xian [= Fengyizhen], surrounding of Research Station of Chengdu Institute of Biology; mountain stream in front of the station building, 3 - 5 m wide, crystalline gravel and sand, unshaded, ca. 1750 m a.s.l.; 30.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
341. **Sichuan Province**; Guan County; Balang Shan; ca. 3 km E Wolong; mountain stream, 3 - 5 m wide, crystalline gravel, few small sections with sand along the shore, fast flowing, very cold, no organic litter, ca. 1900 m a.s.l.; 31.VII.1998; leg. Ji, Schönmann, Schönmann & Wang.
342. **Sichuan Province**; Guan County; Balang Shan; ca. 15 km SW Wolong; mountain stream, 5 - 10 m wide (river bed up to 50 m wide), crystalline gravel and sand, very fast flowing and very cold, ca. 2300 m a.s.l.; 1.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang.
343. **Sichuan Province**; Guan County; Balang Shan; ca. 3 km W Wolong; stream, 0.5 - 1.0 m wide, fast flowing, cold, flowing through meadows, partly shaded by bushes, small crystalline gravel and sand, ca. 1950 m a.s.l.; 1.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang.
344. **Sichuan Province**; Guan County; Balang Shan; ca. 1 km W Wolong; mountain stream, 2 - 3 m wide, crystalline gravel, small sections with sand along the shore, fast flowing, cold, partly shaded by bushes, ca. 1950 m a.s.l.; 1.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang.
345. **Sichuan Province**; Guan County; Qing Cheng Shan; ca. 10 km S Guan Xian [= Guankou], 2 km W Qing Cheng Town; small stream in a gorge of conglomerate rock, 0.5 - 1.0 m wide, big boulders, small crystalline gravel and sand, dense vegetation, shaded, ca. 800 m a.s.l.; 2.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang.
346. **Sichuan Province**; Leshan Prefecture; Emei Shan; ca. 10 km SW Emei City; beneath "Thunder Temple"; stream, 3 - 6 m wide, crystalline boulders, gravel and sand, cataracts and pools, warm water, slightly polluted, flowing through valley with steep slopes and secondary forest, ca. 600 m a.s.l.; 5.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang (Fig. 26).
347. **Sichuan Province**; Leshan Prefecture; Emei Shan; ca. 10 km W Emei City; mountain stream, 1 - 2 m wide, sandstone gravel, cataracts and sandy pools, cold, flowing through steep forested valley, ca. 600 m a.s.l.; 5.VIII.1998; leg. Ji, Schönmann, Schönmann & Wang.



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Figs. 2 - 6: Hainan; China Water Beetle Survey localities; 2) CWBS loc. 188; 3) CWBS loc. 193 (from left to right: L. Ji, Mr. Zhen, M. Wang); 4) CWBS loc. 192; 5) CWBS loc. 200 (M. Wang); 6) CWBS loc. 201. [Photographs by M.A. Jäch].



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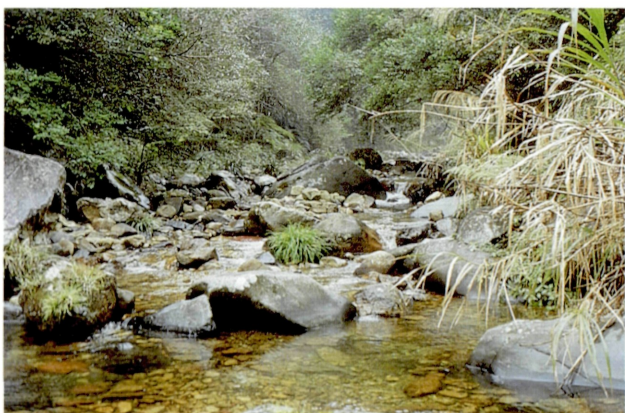
Figs. 7 - 11: Hainan; China Water Beetle Survey localities; 7) CWBS loc. 205; 8) CWBS loc. 210; 9) CWBS loc. 205; 10) CWBS loc. 212; 11) CWBS loc. 216. [Photographs by M.A. Jäch].



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Figs. 12 - 16: Fujian; China Water Beetle Survey localities; 12) CWBS loc. 242; 13) CWBS loc. 243 (L. Ji); 14) CWBS loc. 263; 15) CWBS loc. 251; 16) CWBS loc. 263. [Photographs by H. Schönmann].



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Figs. 17 - 21: Anhui and Jiangxi; China Water Beetle Survey localities; 17) CWBS loc. 292 (M. Wang); 18) CWBS loc. 294; 19) CWBS loc. 298; 20) CWBS loc. 292; 21) CWBS loc. 306. [Photographs by H. Schönmann].



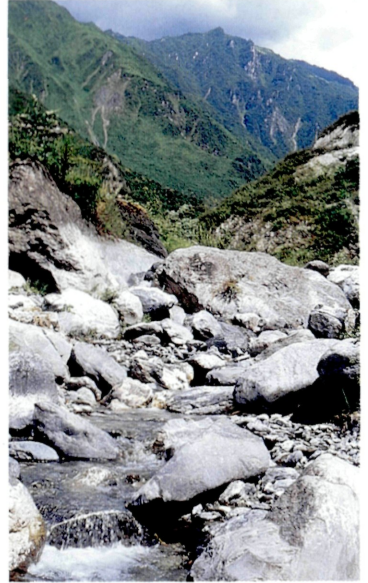
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Figs. 22 - 26: Nei Mongol and Sichuan; China Water Beetle Survey localities; 22) CWBS loc. 328 (K. Schönmann); 23) CWBS loc. 328; 24) CWBS loc. 330 (K. Schönmann); 25) CWBS loc. 332; 26) CWBS loc. 346. [Photographs by H. Schönmann].

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