# **Tribe TRECHINI**

## Reference

Translated from Lompe (2006) Käfer Europas Trechinae and linked pages (http://coleonet.de/coleo/texte/trechini\_me.htm)

This is a well-defined group, characterised by having complete furrows on the frons and concave temples and/or with a hook-like continuation of the sutural stria on the elytra. The last segment of the maxillary palps is usually as broad at the base as the preceding segment and is often conically tapered to the tip (in *Perileptus* and *Aepus* it is rod-like, cylindrical and rather similar to tribe Bembidiini). The outer furrow of the mandibles bears a bristle. The head has two supraorbital bristles each side, next to the eyes; the eyes are large, except in species adapted to living underground where the eyes are reduced or even absent. The elytra have nine striae but the outermost may be indistinct or absent. The third stria generally has two large bristles in the middle section (discal bristles) and one before the tip (apical bristle). Towards the sides, behind the shoulders are four bristles – the humeral group and their arrangement may be important. Upper surface and abdomen usually bare, rarely with short erect hairs. In males the first and second segments of the front tarsi are broadened and are extended inwards at the tip forming a tooth. In the non-British genus *Orotrechus* only the first segment is broadened. It is often advisable to dissect out the aedeagus in males; the aedeagus should be mounted so the internal structures are visible or it should be glued so it can be viewed from above and from the side.

### Checklist

The checklists through the key are from the Checklist of Beetles of the British Isles, 2012 edition, edited by A. G. Duff

Genus AEPUS Leach, 1819 marinus (Strøm, 1783) robinii (Laboulbène, 1849) Genus BLEMUS Dejean, 1821 discus (Fabricius, 1792) Genus PERILEPTUS Schaum, 1860 areolatus (Creutzer, 1799) Genus THALASSOPHILUS Wollaston, 1854 Iongicornis (Sturm, 1825) Genus TRECHOBLEMUS Ganglbauer, 1891 *micros* (Herbst, 1784) Genus TRECHUS Clairville, 1806 Subgenus EPAPHIUS Leach, 1819 rivularis (Gyllenhal, 1810) secalis (Paykull, 1790) Subgenus TRECHUS Clairville, 1806 fulvus Dejean, 1831 obtusus Erichson, 1837 quadristriatus (Schrank, 1781) rubens (Fabricius, 1792) subnotatus Dejean, 1831

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Eyes bare, small, much shorter than the temples. .....





3 Base of the elytra with a raised border running from the shoulders to the scutellum, which is interrupted by the scutellum by a bristle-bearing pore. Elytra with the hook of the sutural stria linked to the third stria; upper surface lacking hair.



(C) U Schmidt (2008)



4	Elytra hairy.	5
	Elytra bare	
	<u>Genus <b>Trechus</b></u>	



5 Eyes of normal size, their diameter more than twice as long as their distance to the point of insertion of the antennae. First stria next to the suture curved back at the tip to join the fifth stria. Length 4.4-5.5 mm. .....

In similar habitats as Trechoblemus micros and often occurring with it. England (except the south west) northwards to Cumbria.

Pronotum covered with fine hair that lays on the surface (similar to those covering the elytra). Eyes small, their diameter not greater than their distance from the insertion points of the antennae. First stria next to the suture curved back at the tip to join the third stria. Length 4.0-4.5 mm.

..... Trechoblemus micros

..... Blemus discus

Usually on the banks of running water, hidden in crevices, or in the burrows of rodents and moles. Widely distributed but local.





# Genus Aepus







## Genus Trechus

The largest genus of the tribe in Europe, worldwide with around 1000 known species. The species are extremely similar to one another and dissection of males is often required for identification. They are found in damp, relatively cool habitats, often montane.



2 Base of the pronotum concave next to the hind angle, meaning the hind angle itself is hardly visible. Sides of the pronotum curving equally towards the front and rear. Pale reddish brown with the antennae, legs and palps paler. Elytra with rows of coarse punctures along the striae; striae and punctures fading towards the tips and sides. Head. pronotum and basal third of the elytra shining, smooth, without microscopic sculpture. Length 3-4 mm.

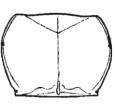


#### ..... Trechus secalis

In shaded and somewhat moist places, both in deciduous forests and rich meadows. England northwards to Cumbria.



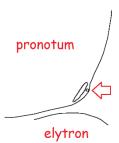
Hind angle of the pronotum clearly obtuse or right-angled. Base of the pronotum straight. On average larger, 4.5-5 mm. Pale to dark brown. Striae with indistinct punctures; second striae not continuing to the tip. Head with a microscopic sculpture of rounded cells and pronotum and elytra with a reticulate sculpture forming transverse cells. Elytra with a blue, iridescent sheen.



..... Trechus rivularis

In dark swampy woodland with Sphagnum amongst damp sedge litter. Very rare in the Fens.









In open country. Widely distributed but local.

The rear bristle by the eye is inserted about half way between the eye and the frontal furrow. Elytra usually rather more domed and distinctly parallel-sided. Striae of the elytra deeper and more clearly defined. Winged. Length 3.5-4.5 mm.

### ..... Trechus quadristriatus

In open, rather dry country with short vegetation. Common and widely distributed









Usually near the coast, probably introduced with ballast. Recorded from Devon (Teignmouth and Dartmoor), Yorkshire (Huddersfield and Manchester), west London and Ireland (near Dublin). Usually on river banks often of quite polluted rivers. A Mediterranean species.

Pronotum with	hind angles right angled or acutely angled and sides curving in	n
front of them.	Elytra not spotted.	6



6 The fifth stria of the elytra continues without interruption into the sutural hook; striae deep and complete with even the outer one continuing to the tip without becoming weaker. Eyes flat, about as long as the temples. Elytra elongate, flattened, with parallel sides. The whole body is yellowish brown. Length 4.8-5.8 mm.



aedeagus from Lompe (2013)

Under stones on rocky or sandy sea-shores near high-water mark. England: south and east coast, Cheshire. S. Wales. Scotland. Shetland.

The fifth stria of the elytra fades towards the tip and does not continue into the sutural hook. Elytra elongate oval with parallel sides, somewhat broadening to the tip, pale or dark reddish brown. Length 5.0-6.5 mm.

..... Trechus rubens

..... Trechus fulvus

More or less underground but often flying at night. Among leaves and debris or under big stones, often near water. Local but widely distributed.

