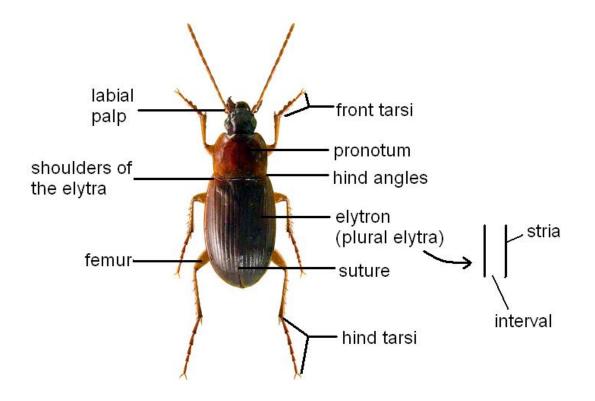
Key to the British species of tribe Sphodrini

Adapted from Lindroth (1974) by Mike Hackston

Medium-sized to large carabids distinguished by

- the unfurrowed front tibiae
- the claws which may be smooth or have a comb of small teeth
- the prosternal process which is very narrowed between the front coxae and not rounded
- the number and arrangement of sensory bristles on the gonocoxites and gonosubcoxites in females
- male aedeagus with a short preputial field and unequal parameres (the right paramere is usually long, sometimes reaching the tip of the aedeagus (except in *Platyderus* and *Synuchus*)



Reference

Adapted from Lindroth, C.H. (1974) Coleoptera, Carabidae. Handbooks for the identification of British insects, volume 4, part 2. London: Royal Entomological Society.



Checklist of genera

From the Checklist of Beetles of the British Isles, 2012 edition, edited by A. G. Duff. (available from <u>www.coleopterist.org.uk/checklist.htm</u>).

Tribe Sphodrini Laporte, 1834 Genus *Platyderus* Stephens, 1838 *depressus* (Audinet-Serville, 1821) Genus *Synuchus* Gyllenhal, 1810 *vivalis* (Illiger, 1798) Genus *Calathus* Bonelli, 1810 Genus *Sphodrus* Clairville, 1806 *leucophthalmus* (Linnaeus, 1758) Genus *Laemostenus* Bonelli, 1810

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Key to the British species of tribe Sphodrini

Claws toothed or comb-like on the inner surface, at least towards the base.
Claws smooth.



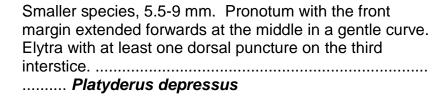


Tarsi without hair a	bove, at most with two hairs at the tip of some segments.	
Body not metallic.	Usually smaller.	.3



from Assmann (2004)









Genus Calathus

Adapted from Lindroth (1974) by Mike Hackston

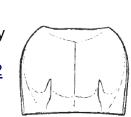
Genus *CALATHUS* Bonelli, 1810 *ambiguus* (Paykull, 1790) *cinctus* Motschulsky, 1850 *erratus* (Sahlberg, C.R., 1827) *fuscipes* (Goeze, 1777) *melanocephalus* (Linnaeus, 1758) *micropterus* (Duftschmid, 1812) *mollis* (Marsham, 1802) *rotundicollis* Dejean, 1828

1 Pronotum with the hind angles completely rounded and the base and much narrower than elytra measured across the shoulders. Male with the front tarsi unmodified. Dark brown-black, with all margins and usually also the suture of the elytra somewhat

translucent; legs and antennae reddish but the femora are sometimes darker. At least 4 dorsal punctures on the elytra. Length 8.5-10.5 mm.

..... **Calathus rotundicollis** A woodland species, usually under deciduous trees, notably beech, also in gardens. Fairly common and widespread.







21 Elytra with dorsal punctures on the third and fifth intervals. Basal depressions of the pronotum with coarse punctures. Antennae, with first segment pale. Mouth-parts dark reddish. Legs varying from almost black to reddish, though tips of tarsal segments always dark. Wings rudimentary. Length 10-14.4 mm.

..... Calathus fuscipes

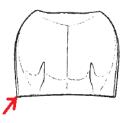
In moderately dry meadows and grassland, often on cultivated soil; also in thin woodland. Common and widely distributed.



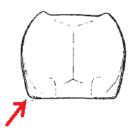
Elytra with dorsal punctures on the third interval only. Basal depressions of the	
pronotum smooth or with fine punctures <u>3</u>	



 3^2 Hind angles of pronotum sharp, almost right angles. Third elytral interval almost always with only 2 dorsal punctures. ...<u>4</u>

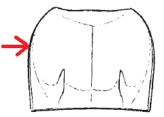


Hind angles of pronotum rounded at tip. Third elytral interval with three or more punctures. $\underline{5}$





4³ Greatest width of pronotum before the middle. First segment of the hind tarsus without an internal furrow but with a ridge externally. More slender and flatter. Black to dark brown with the margins of the pronotum



On dry, usually sandy ground with sparse vegetation. Common and widespread.

Pronotum widest beyond the middle, often close to the base. First segment of the hind tarsus with a shallow internal furrow. Broader and duller brown, with the margins of pronotum more broadly translucent and the elytra never metallic. Antennae and legs pale chestnut brown.

Antennae thinner. Pronotum flatter with the basal depressions absent. Basal margin of elytra less curved. Wings always full size. Length 8.4-11.6 mm.

..... Calathus ambiguus

Habitat as *erratus* with which it is often associated; also in chalk pits. More local but also widespread.





5³ Pronotum reddish, contrasting with the black head and black elytra. Melanic individuals occur in which the pronotum is darkened perhaps in the centre to being black except for narrowly translucent margins. If this is the case, the legs, at least the tarsi, are also darkened. Wings normally reduced into a narrow scale. Length 6.0-8.8 mm.

..... **Calathus melanocephalus** On all kinds of open, moderately dry soil with grass, meadow or weedy vegetation. Common and widespread.

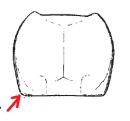


Pronotum reddish brown, contrasting with the more sombre brown head and elytra.	



6⁵ Almost black, only margins of pronotum paler. Sides of pronotum converging towards the base; hind angles forming an obtuse angle. Pronotum and elytra with narrower base; elytra with more rounded sides. Wings reduced. Length 6.5-8.8 mm.

..... Calathus micropterus



Mainly a woodland species, living among humus litter under both deciduous and coniferous trees. SW and N England. Wales, Scotland.

Brown with paler margins to the pronotum and elytra. Sides of pronotum hardly converging towards the base; hind angles at 90 degrees or almost so. Head never quite black and not, or little, contrasting against the top of the pronotum. Length 6.6-9.2 mm.



..... Calathus mollis

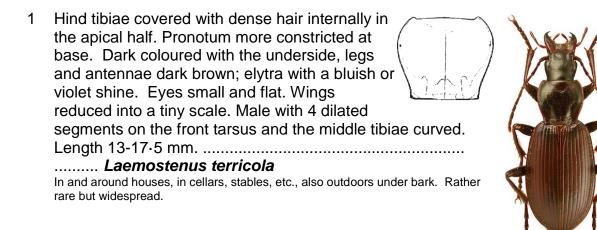
On dry, sandy ground with sparse vegetation, especially near the coast. Locally abundant; widespread.



Genus Laemostenus

Adapted from Lindroth (1974) by Mike Hackston

Genus *LAEMOSTENUS* Bonelli, 1810 *complanatus* (Dejean, 1828) *terricola* (Herbst, 1784)



Hind tibiae without internal brush of hair. Pronotum with less rounded sides. Similarly coloured. Body somewhat more slender with narrower thorax. Eyes more prominent. Wings full size. Male with only 3 dilated segments on the front tarsus and a straight middle tibiae. Length 13-16 mm.

..... Laemostenus complanatus

from A widespread coastal species.

Originating from N. Africa, this species has been dispersed by trade to ports in most continents. Recorded from various coastal sites in the British Isles.

