Ohio Ceratina ID

Small carpenter bees

Separating Sexes

Male

Traits of male Small Carpenter bees (Genus *Ceratina*):

- 13 antennal segments
- No sting
- Face with large hat shaped yellow spot (yellow filling clypaeus)
- Expanded flange on "butt"
- Expanded hind femur (and no pollen collecting hair on legs)

Female

Traits of female Small Carpenter bees (Genus *Ceratina*):

- 12 antennal segments
- has sting
- face with small yellow spot on center (or no yellow)
- pollen collecting hairs on leg

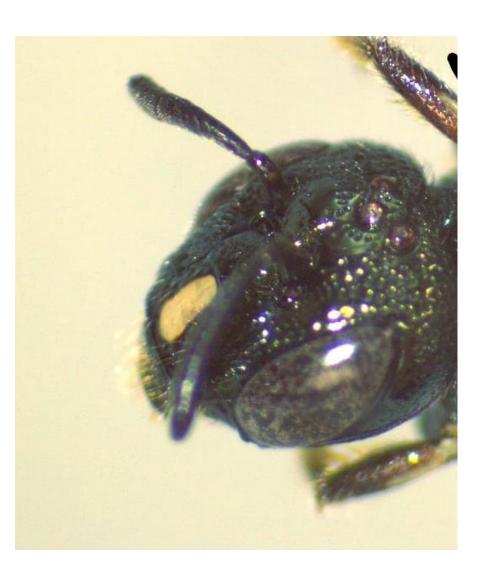
Separating sexes - Male

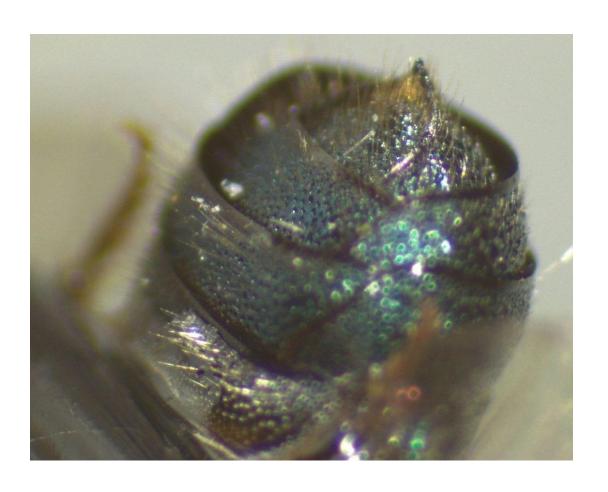






Separating sexes - female





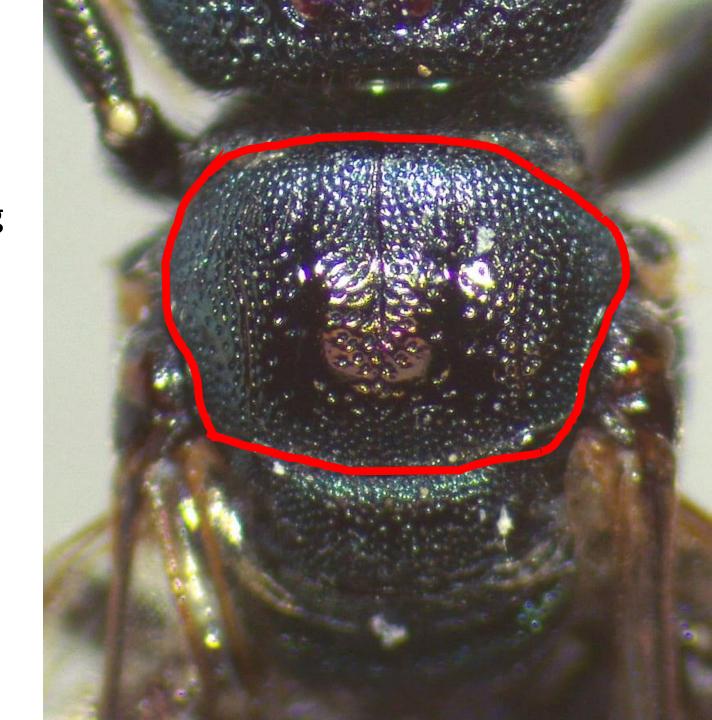
Female Ceratina species ID

- Foreleg with long yellow stripe → *Ceratina strenua*
- Foreleg minimal yellow →
 keep going (either
 Ceratina mikmaqi, C.
 dupla, or C. calcarata.)



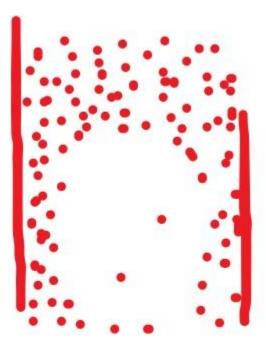
 Several rows of pits bordering the center lines on the scutum (plate on the back of the bee) = Ceratina dupla

• No more than one complete row of pits on the scutum --> either *C. mikmaqi* or *C. calcarata*.





Ceratina dupla



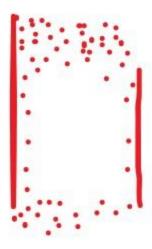
 Several rows of pits bordering the center lines on the scutum (plate on the back of the bee) = Ceratina dupla

• No more than one complete row of pits on the scutum --> either *C. mikmaqi* or *C. calcarata*.

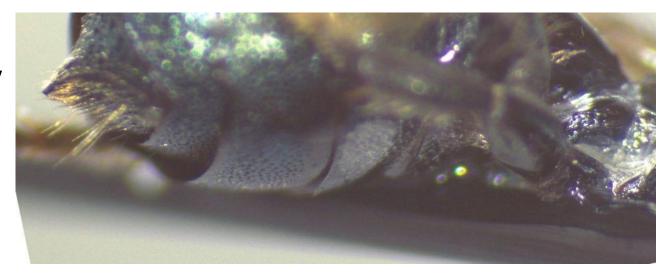




Ceratina calcarata/mikmaqi



• Underside of abdomen largely hairless, and when hairs do exist, they are slightly tan colored; yellow mark on face always present = *C. mikmaqi*







 Underside of abdomen with many hairs on each segment, hairs are white; the yellow mark on the face is sometimes reduced or absent entirely =



Summary female ID Slide

- 1. Foreleg half yellow
- → Ceratina strenua

Foreleg with minimal yellow

→ C. mimkaqi/calcarata/dupla Continue to 2

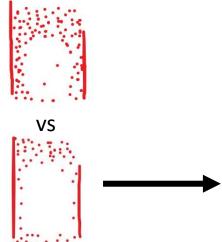




- 2. Several rows of pits on scutum
- → Ceratina dupla

No more than a single row of pits

→ C. mikmaqi/calcarata
Continue to 3



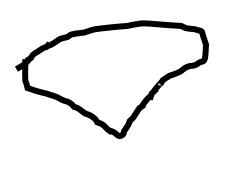
- 3. Abdomen minimally haired, hairs that are present are slightly tan, yellow on face present
- → Ceratina mikmaqi

Abdomen with many WHITE hairs, the yellow mark on the face variable

→ Ceratina calcarata

Male ceratina ID

 Hindleg femur greatly expanded = either C. strenua or C. calcarata

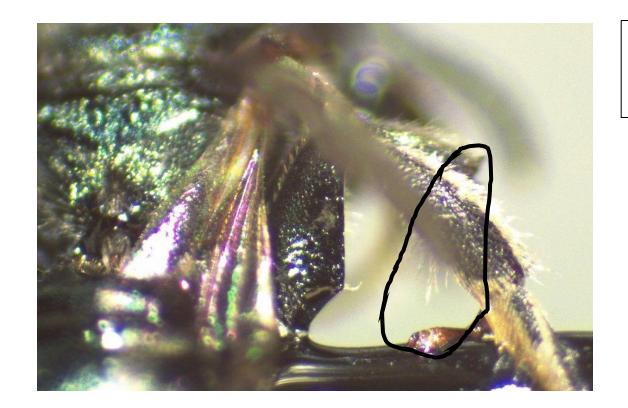


The widest point of femur typically middle of femur

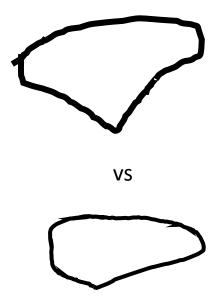


Male Ceratina ID

 hindleg femur not as expanded (though still expanded in comparison to females) = either Ceratina dupla or C mikmaqi



The widest point of femur typically closer to the body



Separating male calcarata from strenua

Look at flange on end of abdomen

 Narrowed flange = C. strenua (also generally has foreleg entirely yellow)



- Wide flange
- = C. calcarata
- (foreleg yellow variable, but up to half yellow)





Separating male dupla from mikmaqi

• ② Leave in their own box for someone else to go through. Label as *Ceratina dupla/mikmaqi*

Technical characters, looking at hind femur flange again. Very hard to see character and often obscured with glue.

- Ceratina dupla → tuft of microscopic hairs at widest point and edge of femur sharp like knife when viewed edge on
- Ceratina mikmaqi → no tuft of microscopic hairs at widest point and edge of femur slightly rounded.

Summary male ID Slide

1. Hindleg femur greatly expanded

→ C. strenua/calcarataContinue to 2

Hindleg femur not as expanded

→ C. dupla/mikmaqi
Continue to 3



VS



- 2. Narrow t7 flange (foreleg also typically entirely yellow)
- \rightarrow C. strenua

strenua is also only male species with narrowed flange. The other 3 have wide flanges

Wide t7 flange (foreleg yellow variable, but up to half yellow)

 \rightarrow C. calcarata

3. ID as *Ceratina dupla/mikmaqi* and stop.

Or if can see hind femur well:

Tuft of microscopic hairs at widest point and edge of femur sharp like knife

 \rightarrow C. dupla

No tuft of microscopic hairs at widest point and edge of femur slightly rounded

→ C. mikmaqi