Correction to: Update of the Culicoides (Diptera: Ceratopogonidae) species checklist from Algeria with 10 new records

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Following publication of the original article [1], it was brought to the authors’ attention that Table 1 had published with incomplete information.

The published article has since been updated and the corrected table may be found in this correction.

The authors apologize for any inconvenience caused.
| Species                  | Type of material | Country     | Locality          | Coordinates     | Date          | Material examined |
|--------------------------|------------------|-------------|-------------------|----------------|--------------|-------------------|
| *Culicoides (Avaritia) chiopterus* (Meigen) | Non-type material  | Algeria     | Ain El Deheb      | 34°51’N, 1°29’E | 23–24 Mar 2018 | 1 female          |
|                          |                  | France      | Andevanne         | 49°23’N, 5°4’E   | 17–18 Oct 2006 | 1 female          |
|                          |                  |             | Caro              | 43°8’N, 1°14’W    | 23–24 Oct 2006 | 1 female          |
|                          |                  |             | Nuiilé sur Vicoin | 47°57’N, 0°45’W   | 4–5 Jul 2011  | 1 female          |
|                          |                  |             | Orbey             | 48°7’N, 7°7’E     | 25–26 May 2009 | 5 females         |
|                          |                  |             | Pontivy           | 48°4’N, 2°58’W    | 18–19 Jan 2012 | 5 females         |
|                          |                  |             | Schwobsheim       | 48°13’N, 7°34’E   | 18–19 Apr 2011 | 1 female          |
| *Culicoides (Avaritia) dewulfi* Goetghebuer | Non-type material  | Algeria     | Tiaret            | 35°23’N, 1°21’E   | 16–19 Sep 2017 | 1 female          |
|                          |                  |             | Bougara           | 35°29’N, 1°55’E   | 13–15 Nov 2016 | 1 female          |
|                          |                  |             | Sougueur          | 35°09’N, 1°31’E   | 13–16 May 2016 | 2 females         |
|                          |                  |             | Ain El Deheb      | 34°51’N, 1°29’E   | 25–27 Jul 2017 | 3 females         |
|                          |                  |             | Hammadia          | 35°26’N, 1°53’E   | 2–5 Jun 2016   | 1 female          |
|                          |                  |             | Takhmaret         | 35°06’N, 0°42’E   | 12–15 Sep 2017 | 1 female          |
|                          |                  | France      | Caro              | 43°84’N, 1°14’W   | 29–30 May 2006 | 2 females         |
|                          |                  |             | Cuguen            | 48°26’N, 1°39’W   | 14–15 Nov 2011 | 1 female          |
|                          |                  |             | Lazer             | 44°21’N, 5°51’E   | 18–19 Apr 2011 | 2 females         |
| *Culicoides (Beltranmyia) navaiae* Lane | Non-type material  | Algeria     | Tiaret            | 35°23’N, 1°21’E   | 3–6 Jun 2017   | 2 females         |
|                          |                  |             | Tiaret            | 35°23’N, 1°21’E   | 28–30 Sep 2017 | 1 male, 2 females |
|                          |                  |             | Tiaret            | 35°23’N, 1°21’E   | 21–22 Sep 2018 | 2 females         |
|                          |                  |             | Bougara           | 35°29’N, 1°55’E   | 9–12 May 2016  | 3 females         |
|                          |                  |             | Bougara           | 35°29’N, 1°55’E   | 10–13 Nov 2016 | 3 females         |
|                          |                  |             | Bougara           | 35°29’N, 1°55’E   | 15–19 Apr 2017 | 5 females         |
|                          |                  |             | Bougara           | 35°29’N, 1°55’E   | 29–30 Jun 2018 | 1 female          |
|                          |                  |             | Sougueur          | 35°09’N, 1°31’E   | 3–6 Feb 2016   | 11 females        |
|                          |                  |             | Sougueur          | 35°09’N, 1°31’E   | 23–26 Jun 2017 | 4 females         |
|                          |                  |             | Sougueur          | 35°09’N, 1°31’E   | 14–15 Sep 2018 | 2 females         |
|                          |                  |             | Ain El Deheb      | 34°51’N, 1°29’E   | 2–5 Apr 2016   | 11 females        |
|                          |                  |             | Ain El Deheb      | 34°51’N, 1°29’E   | 24–27 Apr 2017 | 2 females         |
|                          |                  |             | Ain El Deheb      | 34°51’N, 1°29’E   | 21–22 Sep 2018 | 27 females        |
|                          |                  |             | Ksar Chellala     | 35°15’N, 2°18’E   | 13–16 May 2016 | 20 females        |
|                          |                  |             | Ksar Chellala     | 35°15’N, 2°18’E   | 1–4 Nov 2017   | 18 females        |
|                          |                  |             | Ksar Chellala     | 35°15’N, 2°18’E   | 21–22 Sep 2018 | 18 females        |
|                          |                  |             | Hammadia          | 35°26’N, 1°53’E   | 16–19 Jun 2016 | 12 females        |
|                          |                  |             | Hammadia          | 35°26’N, 1°53’E   | 1–4 Jul 2017   | 18 females        |
|                          |                  |             | Hammadia          | 35°26’N, 1°53’E   | 7–8 Sep 2018   | 9 females         |
|                          |                  |             | Rahouia           | 35°29’N, 1°03’E   | 23–26 Jun 2017 | 22 females        |
|                          |                  |             | Rahouia           | 35°29’N, 1°03’E   | 9–12 Jul 2017  | 11 females        |
|                          |                  |             | Rahouia           | 35°29’N, 1°03’E   | 21–22 Sep 2018 | 18 females        |
|                          |                  |             | Machraa S’fa     | 35°22’N, 1°03’E   | 3–6 Jun 2017   | 12 females        |
|                          |                  |             | Machraa S’fa     | 35°22’N, 1°03’E   | 23–26 Jun 2017 | 23 females        |
|                          |                  |             | Machraa S’fa     | 35°22’N, 1°03’E   | 13–14 Jul 2018 | 7 females         |
|                          |                  |             | Takhmaret         | 35°06’N, 0°42’E   | 5–8 Jul 2016   | 8 females         |
|                          |                  |             | Takhmaret         | 35°06’N, 0°42’E   | 29 Jul–1 Aug 2017 | 6 females   |
|                          |                  |             | Takhmaret         | 35°06’N, 0°42’E   | 8–9 Jun 2018   | 9 females         |
|                          |                  | Egypt       | Sinai, Khirba     | 31°11’N, 32°53’E  | 25 Apr 1979   | 10 females        |
|                          |                  |             | Sinai, Khirba     | 31°11’N, 32°53’E  | 24 Apr 1979   | 1 male            |
| Species                  | Type of material | Country     | Locality | Coordinates       | Date         | Material examined |
|--------------------------|------------------|-------------|----------|-------------------|--------------|-------------------|
| *Culicoides (Culicoides) griseascens* Edwards | Non-type material | Algeria     | Sougueur  | 35°09'N, 1°31'E   | 5–7 Apr 2017 | 10 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 26–29 May 2017| 13 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 3–6 Jun 2017  | 5 females         |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 17–20 Jul 2017| 13 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 25–28 Jul 2017| 11 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 20–23 Sep 2017| 15 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 1–3 Oct 2017  | 12 females        |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 1–4 Jul 2018  | 9 females         |
|                          |                  |             | Sougueur  | 35°09'N, 1°31'E   | 7–8 Sep 2018  | 9 females         |
|                          |                  |             | Ain El Deheb | 34°51'N, 1°29'E  | 29 Nov–5 Dec 2015| 2 females     |
|                          |                  |             | Ain El Deheb | 34°51'N, 1°29'E  | 15–17 Sep 2016| 15 females        |
|                          |                  |             | Ain El Deheb | 34°51'N, 1°29'E  | 5–7 Apr 2017  | 9 females         |
|                          |                  |             | Ain El Deheb | 34°51'N, 1°29'E  | 28–29 Sep 2018| 11 females        |
|                          |                  |             | Ksar Chellala | 35°15'N, 2°18'E | 26–29 May 2017| 7 females         |
|                          |                  |             | Ksar Chellala | 35°15'N, 2°18'E | 9–12 Nov 2017  | 6 females         |
|                          |                  |             | Ksar Chellala | 35°15'N, 2°18'E | 21–22 Sep 2018| 16 females        |
|                          |                  |             | Hammadia   | 35°26'N, 1°53'E   | 15–17 Sep 2016| 8 females         |
|                          |                  |             | Hammadia   | 35°26'N, 1°53'E   | 28–30 Sep 2017| 7 females         |
|                          |                  |             | Hammadia   | 35°26'N, 1°53'E   | 1–3 Oct 2017   | 11 females        |
|                          |                  |             | Hammadia   | 35°26'N, 1°53'E   | 28–29 Sep 2018| 12 females        |
|                          |                  |             | Rahouia    | 35°29'N, 1°03'E   | 24–27 Jun 2016| 5 females         |
|                          |                  |             | Rahouia    | 35°29'N, 1°03'E   | 12–15 Sep 2017| 8 females         |
|                          |                  |             | Rahouia    | 35°29'N, 1°03'E   | 21–22 Sep 2018| 7 females         |
|                          |                  |             | Machraa S’fa | 35°22'N, 1°03'E | 8–10 Sep 2016  | 9 females        |
|                          |                  |             | Machraa S’fa | 35°22'N, 1°03'E | 26–29 May 2017| 9 females        |
|                          |                  |             | Machraa S’fa | 35°22'N, 1°03'E | 15–16 Jun 2018| 7 females         |
|                          |                  |             | Takhmaret  | 35°06'N, 0°42'E   | 20–23 Jun 2016| 19 females        |
|                          |                  |             | Takhmaret  | 35°06'N, 0°42'E   | 5–7 Apr 2017   | 10 females        |
|                          |                  |             | Takhmaret  | 35°06'N, 0°42'E   | 28–29 Sep 2018| 12 females        |
|                          |                  |             | France     | Brognon            | 26–28 Jun 2007| 1 female          |
|                          |                  |             | Marcoux    | 44°73'N, 6°17'E     | 22–23 Jul 2009| 4 females         |
| *Culicoides (Culicoides) paradoxal* Ramilo & Delécolle | Type material | Algeria     | Ain El Deheb | 34°51'N, 1°29'E  | 27–28 Apr 2018  | 1 female          |
|                          |                  |             | Pietra Corbara | 42°50'N, 9°26'E  | 3–4 Jun 2003  | 1 female (holotype) |
|                          |                  |             | Pietra Corbara | 42°50'N, 9°26'E  | 3–4 Jun 2003  | 2 female          |
|                          |                  |             | Pietra Corbara | 42°50'N, 9°26'E  | 6–7 Jul 2004  | 1 female          |
|                          |                  |             | Porto Vecchio | 41°35'N, 9°15'E  | 22–23 Sep 2005| 2 females         |
|                          |                  |             | Sarrola Carcopino | 42°0'N, 8°50'E   | 26–27 Jun 2006| 1 female          |
|                          |                  |             | Sartene     | 41°38'N, 8°57'E   | 27–28 Sep 2005| 1 female          |
|                          |                  |             | Sartene     | 41°38'N, 8°57'E   | 12–13 Jun 2002| 1 female          |
|                          |                  |             | Sartene     | 41°38'N, 8°57'E   | 20–21 Jun 2002| 1 female          |
Table 1 (continued)

| Species                     | Type of material | Country | Locality | Coordinates | Date          | Material examined |
|-----------------------------|------------------|---------|----------|-------------|---------------|------------------|
| *Culicoides (Sensiculicoides)* | Non-type material | Algeria | Tiaret   | 35°23'N, 1°21'E | 9–14 Mar 2016 | 1 female         |
| *shaklawensis Khalaf*        |                   |         | Tiaret   | 35°23'N, 1°21'E | 15–16 Jun 2018 | 1 female         |
|                             |                   |         | Tiaret   | 35°23'N, 1°21'E | 27–28 Jul 2018 | 1 female         |
|                             |                   |         | Bougara  | 35°29'N, 1°55'E | 29–31 Oct 2016 | 1 female         |
|                             |                   | France  | Calvi    | 42°32'N, 8°45'E | 23–24 Jun 2003 | 1 female         |
|                             |                   |         | Marcoux  | 44°7'N, 6°17'E | 22–23 Jul 2009 | 1 female         |
|                             |                   |         | Moltifao | 42°28'N, 9°7'E | 5–6 Aug 2003   | 1 female         |
| *Culicoides (Sensiculicoides)* | Non-type material | Algeria | Tiaret   | 35°23'N, 1°21'E | 1–2 Jun 2018   | 1 female         |
| *simulator Edwards*          |                   | France  | Aleria   | 42°6N, 9°29'E  | 8–9 Jun 2004   | 1 female         |
|                             |                   |         | La Chapelle d'Andaine | 48°31'N, 0°28'W | 19–20 Jun 2012 | 1 female         |
|                             |                   |         | Marcoux  | 44°7'N, 6°17'E | 22–23 Jul 2009 | 1 female         |
|                             |                   |         | Remilly Allicourt | 49°39'N, 4°58'E | 24–25 May 2007 | 1 female         |
| *Culicoides (Sensiculicoides)* | Non-type material | Algeria | Tiaret   | 35°23'N, 1°21'E | 10–12 Dec 2016 | 1 male, 1 female |
| *univittatus Vimmer*         |                   |         | Tiaret   | 35°23'N, 1°21'E | 15–17 Mar 2017 | 4 males, 7 females |
|                             |                   |         | Tiaret   | 35°23'N, 1°21'E | 4–5 May 2018   | 2 females        |
|                             |                   | France, Corsica | Figari | 41°30'N, 9°5'E  | 10–11 Apr 2006 | 1 male, 4 females |
|                             |                   |         | Figari   | 41°30'N, 9°5'E  | 14–15 Feb 2011 | 1 female         |
|                             |                   |         | Moltifao | 42°28'N, 9°7'E | 25–26 Apr 2005 | 1 female         |
|                             |                   |         | San Giuliano | 42°17'N, 9°32'E | 6–7 Mar 2003   | 2 males          |
|                             |                   |         | San Giuliano | 42°17'N, 9°32'E | 10–11 Feb 2011 | 1 female         |
| *Culicoides (Silvaticulicoides)* | Non-type material | Algeria | Hammadia | 35°26'N, 1°53'E | 27–28 Apr 2018 | 1 female         |
| *achrayi Kettle & Lawson*    |                   |         | Sougueur | 35°09’N, 1°31'E | 15–17 Oct 2016 | 1 female         |
|                             |                   |         | Sougueur | 35°09’N, 1°31'E | 5–7 Apr 2017   | 1 female         |
|                             |                   | France  | Crozon   | 48°16'N, 4°30’W | 13–14 Jun 2011 | 2 females        |
|                             |                   |         | Pontivy  | 48°4’N, 2°58’W  | 18–19 Jan 2012 | 3 females        |
| *Culicoides (Silvaticulicoides)* | Non-type material | Algeria | Tiaret   | 35°23'N, 1°21'E | 24–27 Jun 2016 | 1 female, 1 male |
| *picturatus Kremer & Deduit* |                   |         | Tiaret   | 35°23'N, 1°21'E | 10–12 Jul 2016 | 1 female         |
|                             |                   |         | Tiaret   | 35°23'N, 1°21'E | 28–29 Sep 2018 | 1 female         |
|                             |                   | France  | Humes Jorquenay | 47°54’N, 5°18’ | 6–7 Jun 2011   | 1 male           |
|                             |                   |         | Lazer    | 44°21’N, 5°51’ | 18–19 Apr 2011 | 1 female         |
|                             |                   |         | Porto Vecchio | 41°35’N, 9°15’ | 29–30 May 2002 | 2 males          |
|                             |                   |         | Saignon  | 43°51’N, 5°27’ | 6–7 Jun 2011   | 3 females        |

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1. Belkharchouche M, Berchi S, Mathieu B, Rakotoarivony I, Duhayon M, Baldet T, Balenghien T. Update of the *Culicoides* (Diptera: Ceratopogoniidae) species checklist from Algeria with 10 new records. Parasites Vectors. 2020;13:463. https://doi.org/10.1186/s13071-020-04335-4.

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