

LEAF BEETLES OF SINAI PENINSULA, PART II: CRYPTOCEPHALINAE, CHRYSOMELIDAE, COLEOPTERA.

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ABSTRACT

In the present work, the available information on subfamily Cryptocephalinae occurring in Sinai were revised and update valid name. references of original descriptions, synonyms, localities where it was collected in Sinai, world distribution and host plant if present.

INTRODUCTION

Family Chrysomelidae is a very large family of phytophagous Coleoptera, worldwide in distribution. Alfieri (1976) in his monograph on coleoptera of Egypt, recorded 6 species according in Sinai from subfamily cryptocephalinae. Sixteen chrysomelid species belonging to subfamily Cryptocephalinae were recorded from Sinai, in addition to a newly recorded species.

MATERIAL AND METHODS

The present work started by examination of the Egyptian Reference Insect collections which are : Collection of Ministry of Agriculture, Plant Protection Research Institute (MAC); Collection of Egyptian Entomological Society (EESC); Collection of Faculty of Science, Cairo University (CUC); Collection of Faculty of Science, Ain Shams University (ASUC) and Collection of Alfieri, Al-Azhar University, Faculty of Agriculture (ALFC) for materials regarded as chrysomelid beetles. The specimens belonging to chrysomelid species under investigation were collected either directly by hand from the host plants and sweeping vegetation or indirectly using light traps fixed in different regions (Fig. 1). The specimens of most chrysomelid species collected during this work, were preserved in the private A. El-Torkey Collection (ATC). The species marked with an astrisk are present in Sinai and not found in any places in Egypt.

RESULTS

Subfamily Cryptocephalinae Gyllenhal, 1813

(Cylindrical leaf beetles)

Acolastus hebraeus (Sahlberg, 1913)*

Thelyterotarsus hebraeus Sahlberg, 1913, Öfversigt af Finska Vetenskaps societetens Förhandlingar, 55A, p. 1-281, Helsinki.

Synonyms:

Thelyterotarsus sinaiticus Pic, 1937, L'Echange, Revue Linn., 53, p.13.

Material examined: . Four specimens.

Wadi El-Gedeirat (13-3-1937) {3, MAC}.

World distribution: Egypt, Israel and Palastine.

Acolastus praeivius (Suffrian, 1857)

Pachybrachys praeivius Suffrian, 1857, L'Echange Revue Linn., p. 24.

Material examined: . eight specimens.

El-Arish (23-5-1992) {8, ATC}.

World distribution: Egypt.

Host plant: Gramineous plants, *Tamarix aphylla* (L.).

Cryptocephalus anastasei Pic, 1924

Cryptocephalus anastasei Pic, 1924, L'Echange Revue Linneenne, 39, p.30.

Material examined: . Four specimens.

Wadi Um Metla (8-5-1938) {1, ALFC}; Gabal Catherin (20-7-1992) {3, ATC}.

World distribution: Egypt and Israel.

Host plant: *Iphiona mucronata* (Forsk.)

Cryptocephalus bidorsalis Marseul, 1875#

Cryptocephalus bidorsalis Marseul, 1875, L'Abcille XIII, P. 1- 310.

Material examined: Two specimens.

Wadi Ma'ar (11-4-1975); Wadi Shag (23-4-1979) [D. Furth], {2, Tel Aviv Univ. Coll.}.

World distribution: Egypt, Israel And Lebanon.

Host plant: *Pistacia lentiscus* (L & Ch 1997)

Remark: This species was recorded from Wadi Ma'ar and Wadi Shag (Sinai, Egypt) (Lopatin & Chikatunov, 1997).

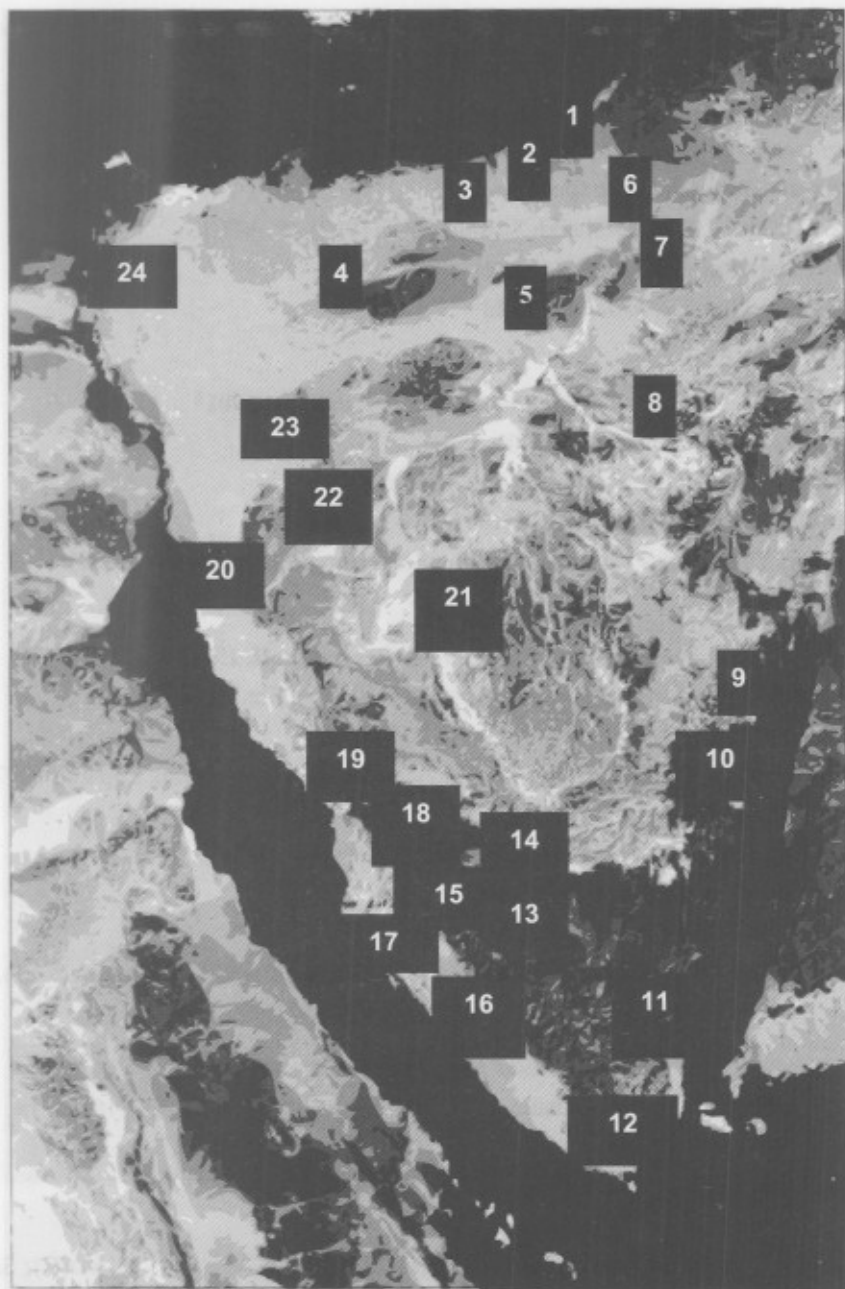


Fig. 1 Distribution map of visited localities in Sinai. 1: Rafeh, 2: El-Sheikh Zowid, 3: El-Arish, 4: Gabal El-Magarah, 5: Gabal El-Helal, 6: Ein El-Gedeirat, 7: El-Koseima, 8: El-Kontella, 9: Nowebia, 10: Dahab, 11: Nabeq, 12: Sharm El-Sheikh, 13: Gabal Catherin, 14: Gabal Mousa, 15: Der Catherin, 16- Wadi Isla, 17: El-Tor, 18: Gabal Serbal, 19: Wadi Firan, 20: Eion Mousa, 21: Wadi Abu Trefa, 22: Metla Road, 23: Wadi El-Hag, and 24: El-Kantara.

***Cryptocephalus crassus* Olivier, 1791* New Record**

Cryptocephalus crassus Olivier, 1791, Encycl. meth. VI, p. 620 .

Synonyms:

Cryptocephalus 8-guttatus Fabricius, 1792 Hafniae, 1: XX + 330 pp, 2: 538 pp..

Material examined: Five specimens.

El-Arish (23-5-1993), El-Sheikh Zowaid (23-5-1992) {5, ATC}.

World distribution: Egypt and Israel.

Host Plant: *Tamarix articulata* Vahl

Cryptocephalus distinctenotatus* Pic, 1901

Cryptocephalus distinctenotatus Pic, 1901,

World distribution: Egypt, Israel and Lebanon.

Host Plant: *Quercus* sp. (L & Ch, 1997)

Remark: This species was recorded from Sinai (Egypt) (Chikatunov, 2000).

***Cryptocephalus dumonti* Peyerimhoff, 1924**

Cryptocephalus dumonti Peyerimhoff, 1924, Bull. Soc. Ent. Fr., 29: 62-67.

Synonyms:

Cryptocephalus assioutensis Pic, 1927- *Cryptocephalus margaritae* Lopatin, 1997.

Material examined : 13 specimens.

Wadi Firan (29,30-5-1935) {1, MAC}; Wadi Isla (1-4-1996) {12, ATC}.

World distribution: Egypt and Israel.

Host plant: *Lepidium sativum* L.

Remark: This species was recorded from Sinai (Egypt) (Bezdiki & Batelka 2001).

***Cryptocephalus fulgurans* Fairmaire, 1873**

Cryptocephalus fulgurans Fairmaire, 1873, Rev. Meg. Zool. (3) I, p. 353, t.16, f.1, 1a .

Synonyms:

Cryptocephalus fulguritus Raffray, 1875, Abeille XIII, 1875, p. 49.

Material examined: 12 specimens.

Wadi Firan (29,30-5-1935), Wadi El-Gedeirat (Kosaima) (7-5-1934) {2, MAC}; Sad El-Rawafe (Wadi El-Gedeirat) (23-5-2004) {10, ATC}.

World distribution: Egypt, Algeria, Israel and Morocco.

Host plant: *Tamarix* species, *Trifolium alexandrinum* Linnaeus and *Medicagsativa* Linnaeus.

***Cryptocephalus (Burlinius) luridicollis* Suffrian, 1868**

Cryptocephalus luridicollis Suffrian, 1868, Ent. Ztg., Stettin, 29, 2: 174, nom. nov. pro *maculicollis* Rey.

Synonyms: (after Warchalowski, 1999).

Cryptocephalus maculicollis Rey, 1860, nec Klug, 1835, nec Suffrian, 1857 -

Cryptocephalus plantaris Suffrian, 1868 - *Cryptocephalus Reyi* Tappes, 1871 -

Cryptocephalus cisti Pic, 1905a - *Cryptocephalus luridicollis* var. *codinai* Burlini,

1958 - *maculicollis* = *luridicollis*: Suffrian, 1868 - *plantaris* = *luridicollis*?:

Clavareau, 1913 - *reysi* = *luridicollis*: Marseul, 1875 - *cisti* = *luridicollis* ssp.:

Burlini, 1964 - *codinai* = *luridicollis* ssp.: Burlini, 1964.

Material examined: 10 specimens.

Saint Kathrien (26-7-1992) {10, ATC}.

World distribution: Egypt, Israel and Palastine.

Host plant: *Conyza dioscoroidis* Desf., *Trifolium alexandrinum* Linnaeus, *Medicago sativa* Linnaeus and *Hibiscus esculentus* Linnaeus.

***Cryptocephalus punctatissimus* Suffrian, 1854**

Cryptocephalus punctatissimus Suffrian, 1854, Lin. Ent. XI, p. 184.

Material examined: Two specimens.

Wadi Isla (3-4-1996) {2, ATC}.

World distribution: Egypt.

Host plant: *Tamarix nilotica* (Ethrenh.).

Cryptocephalus sinaita sinaita* Suffrian, 1854

Cryptocephalus sinaita Suffrian, 1854, Lin. Ent. IX, p. 75 .

Material examined: Three specimens.

Wadi El-Lega (12-8-1943) {1, CUC}; Wadi Gebal (Saint Kathrien) (10-5-1998),

Wadi Tlah (Saint Kathrien) (27-5-1998) {2, ATC}.

World distribution: Egypt.

Host plant: *Rubus ldaeus* L. and *Lolium rigidum* Gaudin.

***Melixanthus brunnicollis* Suffrian, 1857**

Cryptocephalus sinaita Suffrian, 1854, Lin. Ent. XI, p. 189.

Material examined: Three specimens.

El-Sheikh Zowied (4-5-2001) {3, ATC}.

World distribution: Egypt and Israel.

Host plant: *Tamarix nilotica* (Ethrenh.).

Pachybrachis freidbergi* Lopatin, 1994

Pachybrachys freidbergi Lopatin, 1994, Lambillionea, 94, 4, p. 524-525.

Material examined: Three specimens.

Wadi Tlah (22-4-1979) {3, Tel Aviv Univ. Coll.}.

World distribution: Egypt and Israel.

Host plant: *Chiliadenus (Varthemia) montana* (Vahl).

Pachybrachis glyeyrrhizae* Olivier, 1808

Pachybrachys glyeyrrhizae Olivier, 1808, Ent. VI, p. 838, t. 7, f. 120.

Synonyms:

Pachybrachys nigropunctatus Suffrian, 1854, Linn. Ent., 9: 1-169.

Material examined: . Two specimens.

Wadi El-Gedeirat (27-6-1998); Wadi Tubug (23-6-1998) [A. Frreidberg & F. Kaplan]; Mt. Katharin- Wadi Tlah (27-6-1998) [V. Chikatonov]; Wadi Arbain (23-4-1979) [D. Furth] {2, ATC}.

World distribution: Egypt, Jordan, Israel, Lebanon and Syria.

Host plant: *Quercus* plants

***Stylosomus niloticus* Suffrian, 1857**

Stylosomus niloticus Suffrian, 1857, Lin. Ent. XI, p. 251

Synonyms:

Stylosomus niloticus variation-*ferrantei* Pic, 1911 - *Stylosomus niloticus* variation-*multinotata* Pic, 1909 - *Stylosomus niloticus* variation-*tourneri* Pic, 1909.

Material examined : 11 specimens.

Wadi El-Gedeirat, May (1999); Qantara, June {11, ATC}.

World distribution: Egypt.

Host plant : *Tamarix articulata* Vahl.

***Stylosomus tamaricis* Herrich-Schaffer, 1838**

Stylosomus tamaricis Herrich-Schaffer, 1838, Fauna Germ, p. 143, t.24.

Material examined : One specimen.

Wadi El-Arish, May (1999) {1, ATC}.

World distribution: Egypt, Israel, Syria, Southern and East Europe.

Host plant: *Tamarix articulata* Vahl.

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