NEW RECORDS OF APIDAE, ANDRENIIDAE, SPHECIDAE AND VESPIDAE (HYMENOPTERA) FROM IRAN

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Abstract

The present work deals with the survey and identification of different families of Order Hymenoptera during 1998-2004 in Iran. During this work there are 45 species of different families of Order Hymenoptera recorded here as a first time in Iran, including, seventeen species of family Apidae, 3 species of family Andrenidae, 6 species of family Sphecidae and 16 species of family Vespidae. Order Hymenoptera is one of the four great orders of insects (Mason and Tuber, 1993). This order fauna of Iran is rather well studied and attracted some workers i.e. Tirgar, 1969, Esmailli & Rastegar, 1974, Ebadi, 1986, Ebadi and Ahmadi, 1986, Ebrahimi, 1993, Ebirhami, et al., 1995, Talebi et al., 1995, Modarres Aival, 1997 and Karniour et al., 2002. Samples were collected from different locations of Iran during 1998-2003. All the materials are deposited in Department of Agriculture, Islamic Azad University, Shahre-Rey Branch, Tehran - Iran.

I. Family : Apidae

The Apidae (Hymenoptera: Apoidea) fauna of Iran is rather well studied and until now 22 species are known (Esmailli & Rastegar, 1974, Ebadi, 1986, Talebi et al., 1995). In the present study, 7 species of 3 genera including, Chelostoma, Nomada, and Sphecodes are reported as the new records. The Bombus spp. (Hymenoptera: Apidae: Apoidea) fauna of Iran is very diverse and at the same time unknown. Until now, only 11 species are known (Esmailli & Rastegar, 1974, Talebi et al., 1995, Modarres Aival, 1997). In the present study, 12 species of 2 subgenus including, Bombus Bombus and Bombus PalYthrus are reported as the new records for Iran. All the materials are deposited in Department of Agriculture, Islamic Azad University, Shahre-Rey Branch, Tehran - Iran.
Bombus subgenus Bombus

1. *Bombus lucorum* (L.)
   Location: Mazandaran – Amol, Date of collection: August 2003
2. *B. lapidarius* (L.)
   Location: Golestän – Gonbad, Date of collection: May 2002
3. *B. pratorum* (L.)
   Location: Khorasan – Mashhad, Date of collection: July 1999
4. *B. wurflenii* (Rad.) *mastricus* Gerst.
   Location: Kordestan – Sanandaj, Date of collection: September 2001
5. *B. hortorum* (L.)
   Location: Gilan – Fooman, Date of collection: October 2002
6. *B. hypnorum* (L.)
   Location: Yazd – Mebodi, Date of collection: October 2000
7. *B. pascuorum* (Scop.)
   Location: Chahar Mahal – Shah-e-Kord, Date of collection: September 1999
8. *B. jonellus* (Kirby)
   Location: Lorestan – Khoram Abad, Date of collection: April 2000
9. *B. subterraneus* (L.) *latreillei*us (Kirby)
   Location: Kerman – Jiroft, Date of collection: June 2000

Bombus subgenus Psithyrus

10. *B. barbatellus* (Kirby)
    Location: Azarbajen – Maragheh, Date of collection: September 1998
11. *B. rupestrisp* (F.)
    Location: Isfahan – Najaf Abad, Date of collection: August 1999
12. *B. sylvestris* (Lep.)
    Location: Kermanshah – Ravansar, Date of collection: July 2003
13. *Chelostoma florossone* (L.)
14. *Chelostoma nitis* (Lep.)
    Location: Gilan – Lahijan, Time of collection: May 2001
15. *Nomada armata* (Herrich-Schafer)
    Location: Khorasan – Mashhad, Time of collection: June 2002
16. *Nomada flavoguttata* (Kirby)
    Location: Sistan & Balochestan – Zabol, Time of collection: August 2003
17. *Sphecodes ephippius* (L.)  
Location: Azarbayjan – Khoj, Time of collection: May 2002

18. *Sphecodes geoffreiius* (Kirby)  
Location: Hamadan – Malayer, Time of collection: September 2003

19. *Sphecodes longulus* (Hagens)  
Location: Mazandaran – Ghaemshahr, Time of collection: May 2004

II. Family: Andrenidae

The Andrenidae (Hymenoptera: Apoidea) fauna of Iran is poorly studied. Until now only 4 species are known (Tirgar, 1969, Esmaeil & Rastegar, 1974, Talebi et al., 1995, Karimpour et al., 2002).

20. *Andrena bicolor* (Fabricius)  
Location: Mazandaran – San, Date of collection: September 2003.

21. *Andrena hattorfiana* (Fabricius)  
Location: Isfahan – Najaf Abad, Date of collection: July 2000.

22. *Andrena humilis* (Imhof)  
Location: Khorasan – Birjand, Date of collection: June 2002.

III. Family Sphecidae

The Sphecidae (Hymenoptera: Sphecoidea) fauna of Iran is rather well studied and until now 44 species are known (Esmaeil & Rastegar, 1974, Ebrahim, 1993, Ebrahim et al., 1995). In the present study, 6 species of 6 genera are reported as a new records from Iran.

23. *Cerceris rybyensis* (L.)  
Location: Gilan – Isfah, Date of collection: October 2002.

24. *Crabo cribriarius* L.  
Location: Golestan Gorgan, Date of collection: June 2003.

25. *Ectenius rubicola* (Dufour&Perris)  
Location: Golestan - Gorgan, Date of collection: June 2003.

26. *Lindenius albilaris* (F.)  
Location: Khorasan - Marivan, Date of collection: September 2002.

27. *Mellinus crabeorus* (Thunberg)  
Location: Golestan - Gorgan, Date of collection: July 2003.

28. *Achysphex Pomphiliformis* (Panzer)  
Location: Kermanshah-Ravansar, Date of collection: August 2001.
III. Family: Vespidae

The Vespidae (Hymenoptera: Vespoidea) fauna of Iran is poorly studied, and until now only 7 species are known (Ahmadi and Ebadi, 1986, Modarres Awal, 1997). In the present study, 16 species of 3 subfamilies including, Masarinae, Polistinae and Vespinae, are reported as the new records.

Subfamily Masarinae

29. *Ceramius bicolor* (Thunberg)
   Location: Mazandaran – Befshair, Date of collection: June 2001

30. *Ceramius capicola* Braunus
   Location: Isfahan – Shahr-e-Za, Date of collection: October 2000

31. *Ceramius fonscolombei* Latreille
   Location: Markazi – Arak, Date of collection: April 2002

32. *Ceramius hispanicus* Dusmet
   Location: Kerman – Jiroft, Date of collection: May 2003

33. *Ceramius tuberculifer* Saussure
   Location: Sistan & Balochestan – Zahedan, Date of collection: October 2003

35. *Jugartina braunsi* Schultess
   Location: Hamedan – Malayer, Date of collection: August 2002

36. *Masarina familiaris* Richards
   Location: Golestan – Gonbad, Date of collection: September 2003

Subfamily Polistinae

37. *Polistes dominulus* (Christ)
   Location: Golestan – Gorgan, Date of collection: July 2001

38. *Polistes nimpha* (Christ)
   Location: Khorasan – Mashhad, Date of collection: September 2003

39. *Polistes bischofii* Weyrauch
   Location: Lorestan – Khorram Abad, Date of collection: July 2003

Subfamily Vespinae

40. *Vespa crabro* L.
   Location: Khuzestan – Ahvaz, Date of collection: April 2002

41. *Vespula rufa* (L.)
   Location: Kordestan – Marivan, Date of collection: June 2000
42. Vespa vulgaris (L.)
Location: Kermanshah – Fawe, Date of collection: August 2003

43. Dolichovespula saxonica (F.)
Location: Azarbayjan – Marand, Date of collection: October 2001

44. Dolichovespula media (Rezeus)
Location: Ilam – Ilam, Date of collection: June 2002

45. Dolichovespula sylvestris (Scop.)
Location: Mazandaran – Ramsar, Date of collection: September 2003

REFERENCES


تسجيلات جديدة من فصائل من إيران

APIDAE, ANDRENIDAE, SPHECIDAE AND VESPIDAE

شعمان عزيريه 1  حسن جهاري 2  فهيد موسى 3  جون بالت 4
1  معهد بحوث وتنفيذ النباتات - مركز بحوث الزراعة - زويت – مصر
2  قسم الزراعة - جامعة أرك الإهلاوية - مدنق بريد 2311/2781 - طهران - إيران
3  مختبر مستنقعات التاريخ الطبيعي - قسم الحشرات - شتوتجارت - ألمانيا
4  سعيد الحميري - جامعة فيينا - النمسا

تضمن هذا العمل حصر وتعريف لسلسلة في الفصائل من رتبة غشائي الأجنحة خلال الفترة من 2018-2020 في إيران. أثناء هذا العمل وجد 44 نوع من فصائل مختلفة من رتبة غشائي الأجنحة. تم تسجيل لأول مرة في إيران 19 نوع من فصيلة Apidae، 3 أنواع من فصيلة Vespidae، 16 من فصيلة Sphecidae، 6 من فصيلة Andrenidae.