

Short notes

In this section 218 species of arthropods are recorded, collected in Sardinia mainly during the researches carried out by CNBFVR (cf. Bardiani 2011). All or part of the records of most species (207) come from the Marganai and/or Montimannu wilderness areas. They belong to taxa not treated in the previous pages nor by Cerretti et al. (2009). All taxa are listed in alphabetical order according to the nomenclature and systematics of the Fauna Europaea Web Service (de Jong 2011) unless otherwise stated. Collecting sites from the region-owned forests of Marganai and Montimannu and neighbouring areas are listed under "Records", while those from other Sardinian sites are listed under "Other records". Almost all the sites investigated during the faunistic survey carried out by CNBFVR on the island are indicated with abbreviations (see further on), while all the other sites are listed in full. All sites and/or their abbreviations are listed in alphabetical order. Sites listed in full are listed after those abbreviated, alphabetically according to province. Further details on most of the sampling sites are provided by Bardiani (2011). The material, unless otherwise stated, is stored in the CNBFVR collection.

ABBREVIATIONS

CNBFVR SAMPLING SITES. **A01** = Medio Campidano prov., Arbus, Piscinas, dune, 0 m, 32S 452927 4376897; **A02** = Medio Campidano prov., Arbus, Marina di Arbus, 10 m, 32S 454504 4383252; **A04** = Oristano prov., Arborea, Stagno di s'Ena Arrubia, 0 m, 32S 462842 4408878; **A05** = Carbonia-Iglesias prov., Buggerru, R. Mannu, foce, dune, 3 m, 32S 449437 4365545; **A06** = Carbonia-Iglesias prov., Buggerru, Cala Domestica, 10 m, 32S 446540 4358436; **A08** = Medio Campidano prov., Arbus, Capo Pecora, 15 m, 32S 446760 4367599; **A09** = Medio Campidano prov., Arbus, Piscinas, guado del R. Piscinas, 18 m, 32S 454087 4376193; **A10** = Oristano prov., San Vero Milis, sa Marigosa, spiaggia, 5 m, 32T 448490 4432720; **A11** = Oristano prov., San Vero Milis, sa Marigosa, stagno, 5 m, 32T 449217 4432397; **A12** = Cagliari prov., Domus de Maria, Torre di Chia, spiaggia di Su Portu, 1 m, 32S 490072 4305296; **A13** = Carbonia-Iglesias prov., Sant'Anna Arresi, Porto Pino, dune, 5 m, 32S 467025 4311362; **A15** = Carbonia-Iglesias prov., Gonnese, Plage Mesu, Sa Punta e s' Arena, 5 m, 32S 450884 4347330; **A16** = Carbonia-Iglesias prov., Gonnese, Fontanamare, 3 m, 32S 451423 4348717; **A17** = Carbonia-Iglesias prov., Fluminimaggiore, Portixeddu, 6 m, 32S 449437 4365741; **A18** = Carbonia-Iglesias prov., Sant'Antioco, Stagno di S. Caterina, 0 m, 32S 455569 4326716; **A19** = Carbonia-Iglesias prov., Sant'Antioco, Capo Sperone, spiaggia, 0 m, 32S 451831 4314957; **A21** = Oristano prov., Terralba, Stagno di Marceddi, 0 m, 32S 457917 4397594; **C01** = Carbonia-Iglesias prov., Iglesias, Case Marganai, 725 m, 32S 463890 4355925; **C02** = Carbonia-Iglesias prov., Iglesias, Pta Serra Pirastu, 656 m, 32S 463237 4355678; **C03** = Carbonia-Iglesias prov., Iglesias, Vecchia Cantoniera Marganai, 491 m, 32S 462272 4354677; **C05** = Carbonia-Iglesias prov., Iglesias, Pta Cungiaus, 636 m, 32S 462440 4355161; **C06** = Carbonia-Iglesias prov., Domusnovas, Grotta di S. Giovanni, 325 m, 32S 467900 4354891; **C07** = Carbonia-Iglesias prov., Domusnovas, dint. Planargia - Scoveri, 625 m, 32S 465523 4362921; **C08** = Carbonia-Iglesias prov., Domusnovas, Valle Oridda, pineta, 595 m, 32S 466970 4362400; **C10** = Medio Campidano prov., Villacidro, dint. Pta piscina Argiolas, Serbatoio, 282 m, 32S 472049 4360081; **C11** = Medio Campidano prov., Villacidro, Can.li Serci, 381 m, 32S 472208 4359497; **C12** = Medio Campidano prov., Villacidro, Can.li s'Otti, versante destro, 520 m, 32S 471690 4359611; **C13** = Medio Campidano prov., Villacidro, dint. Pta Pranu Ilixis, 563 m, 32S 471221 4359310; **C14** = Carbonia-Iglesias prov., Domusnovas, Sedda Pranu Cardu, 549 m, 32S 470926 4358924; **C15** = Carbonia-Iglesias prov., Domusnovas, Gutturu Seu, 140 m, 32S 471646 4355238; **C16** = Carbonia-Iglesias prov., Domusnovas, Gutturu Seu, 174 m, 32S 471577 4355716; **C19** = Medio Campidano prov., Villacidro, R. Cannisoni, 375 m, 32S 468713 4362692; **C20** = Medio Campidano prov., Villacidro, R. Cannisoni, 382 m, 32S 468980 4362541; **C22** = Medio Campidano prov., Villacidro, R. Cannisoni, sorg. s'acqua Frischedda, 372 m, 32S 468391 4362826; **C23** = Medio Campidano prov., Villacidro, R. Cannisoni, radura sponda sinistra, 401 m, 32S 468459 4362806; **C25** = Medio Campidano prov., Villacidro, Can.le Monincu, 450 m, 32S 468040 4363436; **C26** = Carbonia-Iglesias prov., Domusnovas, Bega d'Aleni, 621 m, 32S 467855 4361336; **C27** = Medio Campidano prov., Gonnosfanàdiga, M. Idda, strada per M. Linas, 474 m, 32S 466946 4368997; **C28** = Medio Campidano prov., Gonnosfanàdiga, sa Pta de s'Erbaceu, strada per M. Linas, 744 m, 32S 465989 4368410; **C29** = Medio Campidano prov., Gonnosfanàdiga, Genna Mirratta, 794 m, 32S 465363 4366138; **C30** = Medio Campidano prov., Gonnosfanàdiga, dint. Ovile Linas, 710 m, 32S 466346 4365201; **C31** = Carbonia-Iglesias prov., Domusnovas, L. Siuru, 322 m, 32S 467069 4357916; **C32** = Medio Campidano prov., Villacidro, L. di Montimannu, diga, 255 m, 32S 475380 4363486; **C33** =

Carbonia-Iglesias prov., Domusnovas, dint. P.ta Planotzara, 360 m, 32S 465515 4356209; **C34** = Carbonia-Iglesias prov., Domusnovas, R. sa Duchessa, greto del R., 270 m, 32S 466700 4356979; **C35** = Carbonia-Iglesias prov., Iglesias, Mamenga, 610 m, 32S 462170 4356618; **C36** = Medio Campidano prov., Villacidro, dint. L. di Montimannu, lungo T. Leni, 256 m, 32S 474156 4363150; **C39** = Carbonia-Iglesias prov., Iglesias, Cuccuruneddu, hill top, 708 m, 32S 472379 4357784; **C41** = Carbonia-Iglesias prov., Domusnovas, su Pranu Pirastu, 147 m, 32S 471365 4353536; **C42** = Carbonia-Iglesias prov., Iglesias, Conca Margiani, 750 m, 32S 462440 4356936; **C43** = Carbonia-Iglesias prov., Iglesias, Conca Margiani, radura, 725 m, 32S 462470 4357011; **C44** = Carbonia-Iglesias prov., Iglesias, Conca Margiani, radura lungo strada, 700 m, 32S 462635 4356866; **C45** = Carbonia-Iglesias prov., Iglesias, dint. P.ta Genna Ollioni, 750 m, 32S 462840 4356811; **C46** = Medio Campidano prov., Villacidro, R. Cannisoni, 400 m, 32S 468858 4362543; **C47** = Carbonia-Iglesias prov., Domusnovas, Valle Oridda, sorg., 590 m, 32S 466681 4362696; **C48** = Carbonia-Iglesias prov., Domusnovas, P.ta Piloni de sa Figù, 750 m, 32S 465958 4360742; **C49** = Medio Campidano prov., Villacidro, T. Leni, 300 m, 32S 471317 4360510; **C50** = Medio Campidano prov., Villacidro, C. Sarais, 251 m, 32S 474215 4361145; **C51** = Carbonia-Iglesias prov., Iglesias, dint. P.ta Campu Spina, 760 m, 32S 462466 4358236; **C52** = Carbonia-Iglesias prov., Iglesias, dint. S. Benedetto, 550 m, 32S 459499 4358405; **C53** = Medio Campidano prov., Gonnosfanàdiga, M. Linas, P.ta su Filixi, 780 m, 32S 465819 4368289; **C54** = Medio Campidano prov., Gonnosfanàdiga, M. Linas, Genna su Pamenti, 853 m, 32S 465485 4367656; **C55** = Medio Campidano prov., Gonnosfanàdiga, M. Linas, Genna Mirratta, sorgente, 793 m, 32S 465136 4366226; **C56** = Medio Campidano prov., Gonnosfanàdiga, M. Linas, Genna sa Xirra, 847 m, 32S 464114 4366023; **C58** = Medio Campidano prov., Villacidro, dint. P.ta piscina Argiolas, rigagnolo, 282 m, 32S 472049 4360081; **C59** = Medio Campidano prov., Villacidro, dint. M. Anzeddu, 500 m, 32S 469031 4361072; **C60** = Carbonia-Iglesias prov., Domusnovas, dint. Gutturu Abis, 580 m, 32S 468140 4360761; **C61** = Carbonia-Iglesias prov., Domusnovas, dint. P.ta su Fenu, 250 m, 32S 467159 4356713; **C63** = Carbonia-Iglesias prov., Iglesias, dint. P.ta Fenu, 300 m, 32S 472097 4357122; **C64** = Carbonia-Iglesias prov., Iglesias, dint. P.ta Fenu, 225 m, 32S 471850 4356980; **C66** = Carbonia-Iglesias prov., Buggerru, dint. Grugua, 530 m, 32S 454376 4359900; **C67** = Carbonia-Iglesias prov., Buggerru, dint. Miniera S. Luigi, 347 m, 32S 452771 4358704; **C68** = Carbonia-Iglesias prov., Domusnovas, dint. sa Duchessa, 320 m, 32S 466164 4358209; **C69** = Carbonia-Iglesias prov., Domusnovas, dint. sa Duchessa, strada per Perda Niedda, 350 m, 32S 466233 4359025; **C70** = Carbonia-Iglesias prov., Iglesias, dint. Case Marganai, 660 m, 32S 463341 4356196; **C71** = Carbonia-Iglesias prov., Domusnovas, dint. P.ta Genna Ollioni, 650 m, 32S 463293 4356570; **C72** = Carbonia-Iglesias prov., Domusnovas, dint. P.ta Planotzara, 309 m, 32S 465718 4356515; **C74** = Medio Campidano prov., Villacidro, dint. T. Leni, eucalipteto, 300 m, 32S 469793 4361088; **C77** = Carbonia-Iglesias prov., Iglesias, dint. Case Marganai, car net from C85 to C01, 650 m; **C80** = Carbonia-Iglesias prov., Domusnovas, M.ti Marganai, Miniera Reigraxius, 465 m, 32S 464160 4357039; **C81** = Carbonia-Iglesias prov., Domusnovas, Valle Oridda, 643 m, 32S 465399 4362770; **C82** = Carbonia-Iglesias prov., Iglesias, M.ti Marganai, Tintillonis, 480 m, 32S 462590 4355061; **C84** = Carbonia-Iglesias prov., Iglesias, S. Benedetto, 500 m, 32S 459882 4357019; **C85** = Carbonia-Iglesias prov., Iglesias, M.ti Marganai, 540 m, 32S 463010 4355249; **G01** = Nuoro prov., Oliena, M. Maggione, 624 m, 32T 535451 4456520; **G02** = Nuoro prov., Oliena, P.ta sos Nidos, 986 m, 32T 536075 4456422; **G03** = Nuoro prov., Oliena, Oliena, 424 m, 32T 534746 4457479; **G04** = Nuoro prov., Orgosolo, Oristillai, 947 m, 32T 529688 4446725; **G05** = Ogliastra prov., Seui, dint. M. Tonneri, 876 m, 3 S 530745 4410020; **G06** = Ogliastra prov., Seui, dint. M. Tonneri, sorg. Nuletta, 892 m, 32S 531716 4412341; **G07** = Ogliastra prov., Seui, dint. M. Tonneri, Sa ucca 'e su Oe, 912 m, 32S 531228 4413496; **G08** = Ogliastra prov., Seui, dint. M. Tonneri, 919 m, 32S 530651 4412895; **G09** = Cagliari prov., Villanovatulo, dint. Nuraghe is Cangialis, 373 m, 32S 517956 4400645; **G11** = Cagliari prov., Sinnai, dint. M. Castangia, 584 m, 32S 532700 4351568; **G12** = Cagliari prov., Burcei, dint. Burcei, 631 m, 32S 528639 4356088; **G13** = Cagliari prov., Burcei, dint. Burcei, 725 m, 32S 528219 4356591; **G14** = Cagliari prov., Burcei, dint. P.ta Serpeddì, 785 m, 32S 526996 4356738; **G15** = Cagliari prov., Burcei, dint. P.ta Serpeddì, 954 m, 32S 525266 4356808; **G31** = Medio Campidano prov., Gesturi, Giara di Gesturi, 568 m, 32S 495926 4401318; **G35** = Nuoro prov., Lodé, S. Anna, strada per Siniscola, 490 m, 32T 554459 4491980; **G36** = Nuoro prov., Lula, dint. Lula, 530 m, 32T 542525 4480254; **G39** = Ogliastra prov., Talana, dint. Talana, 478 m, 32T 542523 4433941; **G41** = Ogliastra prov., Gairo, M. Perda Liana, 1219 m, 32S 535096 4417848; **G44** = Nuoro prov., Desulo, R. Aratu, 958 m, 32T 521882 4431913; **G46** = Nuoro prov., Gadoni, F. Flumendosa, riva, 402 m, 32S 516364 4416019; **G49** = Cagliari prov., Nurri, dint. Nuraghe Tacquara, fontana, 533 m, 32S 515371 4395479; **G50** = Oristano prov., Cabras, Tharros, 9 m, 32S 452048 4414023; **G51** = Cagliari prov., Vallermosa, dint. Cant. de s'Acquacotta, 83 m, 32S 483910 4361992; **G52** = Ogliastra prov., Seui, dint. M. Tonneri, 825 m, 32S 533277 4411585; **G54** = Ogliastra prov., Gairo, M. Tonneri, lecceta, 1020 m, 32S 530263 4415529; **G55** = Ogliastra prov., Gairo, M. Tonneri, dint. nuraghe Ardassai, lecceta, 1020 m, 32S 529111 4415819; **G56** = Ogliastra prov., Seui, Seui, 800 m, 32S 527585 4409970; **S1** = Carbonia-Iglesias prov., Iglesias, dint. colonia Beneck, 636 m, 32S 462391 4355441; **S2** = Carbonia-Iglesias prov., Domusnovas, sa Duchessa, 371 m, 32S 464990 4358384; **S3** = Carbonia-Iglesias prov., Domusnovas, Valle Oridda, 592 m, 32S 466973 4362228; **SAR1** = Carbonia-Iglesias prov., Iglesias, Marganai, plot CONECOFOR SAR1, 700 m, 32S 462853 4355582.

COLLECTORS. AB = A. Briganti; AD = A. Dodero; AK = A.H. Krausse; AM = A. Campanaro; AMo = A. Molinu; AT = A. Tenga; BM = B. Merz; CG = C. Giusto; CM = C. Meloni; CT = C. Torti; DA = D. Avesani; DB = D. Birtele; DD = D. Deidda; DW = D. Whitmore; EB

= E. Braga; EG = E. Gatti; EM = E. Minari; FC = F. Chessa; FM = F. Mason; FMa = F. Mazzocchi; GC = G. Chessa; GGa = G. Gardini; GGr = G. Grafitti; GN = G. Nardi; GS = G. Scaglioni; GZ = G. Zandi; IMA = I. Marcellino; JW = J. De Waele; LB = L. Briganti; L? = no collector mentioned; LF = L. Fancello; LS = L. Spada; MA = M. Armeni; MB = M. Bardiani; ME = M. Eggenberger; MM = M. Mei; MMu = M. Mucedda; MR = M. Rampini; MT = M. Tisato; MTr = M. Trizzino; MZ = M. Zapparoli; NS = N. Sanfilippo; PA = P. Audisio; PCe = P. Cerretti; PCo = P. Cornacchia; PL = P. Leo; RA = R. Argano; RM = R. Manconi; RRz = R. Rizzerio; SRi = S. Riese; SZ = S. Zoia; VC = V. Cottarelli; VV = V. Vomero.

SAMPLING METHODS. al = collecting at light; ba = bait (small pieces of meat mixed with hay placed in an open plastic tube); bz = glass trunk trap (beer and sugar); cn = car net; dc = direct collecting; lt = light trap; mt = Malaise trap; nt = hand net; oe = entomological umbrella; pt = pitfall trap (vinegar and salt); sn = sweep net; vg = sieve; wn = water net; wt = window flight trap.

OTHER ABBREVIATIONS AND RECURRENT TERMS USED IN FAUNISTIC LIST. C. = Casa = House; Can.le = Canale = Canal; Can.li = Canali = Canals; Cant. = Cantoniera = Roadman's house; coll. = collection; D = deutonymph/s; dint. = surroundings of; ex = specimen/s; dune = dunes; eucalipreto = eucalyptus plantation; foce = river mouth; F. = Fiume = River; Foresta = Forest; fontana = fountain; greto del = bed of [river]; Grotta = Cave; ingresso = entrance of; Isola = Island; L. = Lago = Lake; lecceta = holm-oak forest; leg. = collector/s; litoranea = coastal road; loc. = locality; Miniera = Mine; M. = Monte = Mount; M.ti = Monti = Mounts; P = protonymph/s; pineta = pinewood; prov. = province; P.ta = Punta = Peak; R. = Rio = stream; radura = clearing; radura con = clearing with; radura lungo strada = clearing alongside road; reg. = region; rigagnolo = rivulet; riva = bank; S. = San/Santa/Santo = Saint; sdb = same data but; Serbatoio = Reservoir; sorg. = sorgente = spring; sotto corteccia = under bark; spiaggia = beach; sponda sinistra = left bank; Stagno = Pond; strada = road; strada per = road to; su cadavere di = on carcass of; T. = Torrente = Torrent; tfi = translation from Italian; Tr = tritonymph/s; versante = slope; Valle = Valley; verso = in direction of; wdc = without date of collection.

DEPOSITORIES. CGG = G. Gardini collection (Genoa, Italy); CGN = G. Nardi collection (Cisterna di Latina, Latina, Italy); CGP = G. Platia collection (Gatteo, Forlì-Cesena, Italy); CKR = K. Rognes collection (Stavanger, Norway); CMM = M. Mei collection (Rome, Italy); CNBFVR = Centro Nazionale per lo Studio e la Conservazione della Biodiversità Forestale "Bosco Fontana" di Verona (Marmirolo, Mantua, Italy); CPC = P. Cornacchia collection (Porto Mantovano, Mantua, Italy); MHNG = Muséum d'histoire naturelle (Genève, Switzerland); MSNM = Museo Civico di Storia Naturale di Milano (Milan, Italy); MCZR = Museo Civico di Zoologia (Rome, Italy); TCUB = M. von Tschirnhaus collection, University of Bielefeld (Bielefeld, Germany); ZSM = Zoologische Staatssammlung München (Munich, Germany).

Quotation-sample of single notes:

Podenas S., 2011. Short notes 15. Diptera, Limoniidae, pp. 862-866. In: Nardi G., Whitmore D., Bardiani M., Birtele D., Mason F., Spada L. & Cerretti P. (eds), Biodiversity of Marganai and Montimannu (Sardinia). Research in the framework of the ICP Forests network. Conservazione Habitat Invertebrati, 5. Cierre Edizioni, Sommacampagna, Verona.

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12. Diptera, CALLIPHORIDAE

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The Calliphoridae (blowflies) are a small family of calyptrate Diptera with about 60 species recorded from Italy (Rognes 1995, 2005), 115 species recorded from Europe (Rognes 2005, 2010) and about 1,000 species world-wide (Rognes 1991). It is probably not a monophyletic group (Rognes 1997). The included species are small to very large and robust flies. Most have a green (*Chrysomya* Robineau-Desvoidy, 1830, *Lucilia* Robineau-Desvoidy, 1830), olive green (*Bellardia* Robineau-Desvoidy, 1863) or blue or bluish-black metallic colouring (*Calliphora* Robineau-Desvoidy, 1830, *Melinda* Robineau-Desvoidy, 1830), but there are also black or more or less orange non-metallic species (*Pollenia* Robineau-Desvoidy, 1830, *Rhyncomya* Robineau-Desvoidy, 1830, *Stomorphina* Rondani, 1861). Most species have bodies covered with more or less conspicuous pollinosity (microtomentum). Whereas adult blowflies in gene-

ral visit flowers, faeces and dead animals to obtain nourishment, the larval habits are extremely diverse. Most species are oviparous, but there are a few genera which have multilarviparous (*Bellardia*) or even unilarviparous (*Eurychaeta* Brauer & Bergenstamm, 1891) species. Many blowflies lay their eggs on dead bodies of various animals. Being very numerous, their larvae play an important part in natural communities as decomposers and scavengers. Blue-bottles (*Calliphora*) and green-bottles (*Chrysomya*, *Lucilia*) are among the first species to arrive on dead animal bodies, including human bodies, and such species are of importance in forensic medicine for determining the post-mortem interval. The habit of feeding on faeces and cadavers and visiting fresh or cooked meat, fish or dairy products makes many species potent vectors of bacteria, viruses, protozoans and helminths causing various enteric diseases in man, and are therefore of great hygienic importance. Species of *Melinda* have an extremely elongate ovipositor, which they use to insert their eggs into the pallial cavity of snails. The larvae subsequently live as an internal parasite and ultimately cause the death of the snail, which is devoured. Some genera (e.g. *Bellardia*, *Pollenia*) have species associated with earthworms. Some *Pollenia* females lay their eggs on the soil and the newly hatched larvae find their way to their hosts or prey by following natural spaces in the soil. Other *Pollenia* species are reported as parasitoids of honey-bee workers or parasites of Lepidoptera larvae. The larvae of *Rhyncomya* species are sometimes associated with termites or ants. The larvae of *Stomorhina lunata* (Fabricius, 1805) are predators of egg-pods of locusts. Many blowfly larvae are able to live on live vertebrate bodies, feeding on the host's dead or living tissues, liquid body substances or ingested food. This phenomenon is called myiasis and is an important aspect of blowfly biology. A key to identification of Palaearctic genera and species and references to further literature can be found in Rognes (1991, 1998).

Distributional data outside Sardinia have been taken from Rognes (2005). The Italian examined material, except when otherwise stated, is stored in the collection of Centro Nazionale per lo Studio e la Conservazione della Biodiversità Forestale "Bosco Fontana" (Verona) (CNBFVR); only few specimens are in the author's collection (CKR).

Thanks to Christophe Daugeron (Muséum National d'Histoire Naturelle, Paris), Amnon Freidberg (Department of Zoology, Tel Aviv University, Tel Aviv) and Thomas Pape (Zoological Museum, University of Copenhagen, Copenhagen) for loan of material from the collections in their care.

Bellardia brevistylata (Villeneuve, 1926)

RECORDS. **C43**: 15.XI.2006, DW, nt, 1 ♂. **C44**: 15.XI.2006, DW, nt, 9 ♂♂ 2 ♀♀ (CKR; CNBFVR). **S1**: 21.III–4.IV.2006, GC, mt, 3 ♂♂ 3 ♀♀ (CKR; CNBFVR); 4–18.IV.2006, GC, mt, 8 ♂♂ 10 ♀♀ (CKR; CNBFVR); 18.IV–2.V.2006, GC, mt, 1 ♀. **S2**: 23.III.2006, DW MB DB PCo, nt, 2 ♂♂ 1 ♀ (CKR; CNBFVR); 21.III–4.IV.2006, GC, mt, 3 ♀♀ (CKR; CNBFVR); 4.IV–18.IV.2006, GC, mt, 1 ♂ 2 ♀♀. **S3**: 17.X–31.X.2006, GC, mt, 1 ♀.

NOTES. First published records from Sardinia. A Mediterranean species known also from Spain (González-Mora 1989) and Sicily (type locality). Biology unknown.

Bellardia brevistylata is a brownish species with infuscated wings and wing cell r_{4+5} closed at margin or short-petiolate. Scutellum with 2 strong marginal pairs of setae and one weaker pair in between. Arista hairs very short, especially below. Usually 2 pairs of presutural acrostichal setae, sometimes only 1 pair. Prosternum in one specimen without setae (area often difficult to observe). One such specimen was initially thought to be *B. maroccana* Villeneuve, 1941, but the genitalia have been dissected and are identical to those of males identified as *B. brevistylata*. The specimens fit photographs kindly provided by D^{ra} D. González-Mora (Madrid), and the male genitalia fit her figures (González-Mora 1989). Abdomen with middorsal stripe and dark hind margins under some lights, under other lights tessellated. Very weak bronze/coppery hue shines through dusting. Front tibia usually with 2 posteroventral setae, a few specimens with 1 pv (both sexes). Mid tibia in males with 1 anterodorsal seta (sometimes 2); in females with 2–3 ad. T6 in ovipositor a narrow band, divided at middle. A dissected female had 2–300 first instar larvae in its uterus.

Specimens have been compared with *B. nova* Rognes, 2002 from Israel (coll. Department of Zoology, Tel Aviv University). The Sardinian specimens are definitely not that species. Male genitalia are somewhat similar, but *B. nova* is a paler species with bright white dusted parafacialia (brownish in *B. brevistylata*), broader frons, and paler wings and calypters.

Bellardia siciliensis (Villeneuve, 1926)

RECORDS. **C07**: 20.V.2006, DW MB DB PCo, nt on *Ferula communis*, 1 ♂.

NOTES. Not recorded from Sardinia in Rognes (1995), but included in Rognes (2005) on the basis of a specimen in Muséum National d'Histoire Na-

turelle, Genève (coll. Bernhard Merz), which, on the basis of new evidence, turns out most likely to have been mislabelled. A Mediterranean species known also from Central Italy (Latium, Rome prov., Tivoli, Colle Vescovo, 448 m, 7.IV.2001, hill topping, MM, 1 ex), Sicily and Tunisia. Biology unknown.

Bellardia sp.

RECORDS. **C82**: 11.VI.2004, DB PCe GN MT DW, mt, 1 ♀. **SAR1**: 14–29.IX.2003, GC, mt, 1 ♀.

NOTES. Two females that possibly belong to *B. siciliensis*, but safe identification must await revision of most *Bellardia* females. T6 of the ovipositor is visible and similar to that of *B. pandia* (Walker, 1849) (cf. Rognes 1991: 90, fig. 97).

Calliphora vicina Robineau-Desvoidy, 1830

RECORDS. **C06**: 12.VI.2004, PCe DB GN MT DW, nt, 1 ♀. **C10**: 14.XI.2006, DW, nt, 1 ♀. **C26**: 15.VII.2006, DA MB DB PCe DW, lt, 1 ♂. **C31**: 20–23.V.2006, MB DB PCo DW, mt, 1 ♂; 12–17.VII.2006, DA MB DB PCe MM DW, mt, 6 ♂♂ (CKR; CNBFVR). **C44**: 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe DW, nt, 1 ♀. **C77**: 6.VI.2004, PCe DB GN MT DW, nt, 1 ♂. **C82**: 5.IX.2003, DB PCe EM MT DW, mt, radura con *Foeniculum vulgare*, 1 ♂ 1 ♀; 7.VI.2004, PCe DB GN MT DW, nt, 3 ♂♂. **C85**: 2.IX.2003, DB PCe EM MT DW, nt on *F. vulgare*, 1 ♀; 2.IX.2003, PCe, nt on *F. vulgare*, 1 ♂. **S1**: 2–16.V.2006, GC, mt, 2 ♂♂ 1 ♀. **S3**: 2–16.V.2006, GC, mt, 1 ♂; 11–25.VII.2006, GC, mt, 3 ♂♂ 4 ♀♀; 25.VII–8.VIII.2006, GC, mt, 1 ♂; 19.IX–3.X.2006, GC, mt, 1 ♀; 3–10.X.2006, GC, mt, 2 ♀♀. **SAR1**: 1–5.IX.2003, DB PCe EM MT DW, bz, 3 ♂♂ 1 ♀; sdb, pt, 1 ♂ 1 ♀; 16.VIII–8.IX.2004, GC, mt, 2 ♂♂; 22.XI–17.XII.2004, GC, pt, 1 ♀; 13–30.IX.2005, GC, mt, 1 ♀.

NOTES. A cosmopolitan species breeding in refuse and all kinds of decomposing animal matter. Often entering houses.

Calliphora vomitoria (Linnaeus, 1758)

RECORDS. **C03**: 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂ 1 ♀. **C26**: 17.VII.2006, DA MB DB PCe DW, nt on *Euphorbia cupanii*, 1 ♀. **C34**: 12.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀. **C36**: 6.IX.2006, DA MB DB GN, nt, 1 ♀. **C44**: 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂ 1 ♀. **C81**: 12.VI.2004, PCe DB GN MT DW, nt on *Ferula communis*, 2 ♀♀. **C82**: 9.VI.2004, DB PCe GN MT DW, nt, 3 ♂♂ 1 ♀; 11–12.VI.2004, DB PCe GN MT DW, mt, 1 ♂; 12.VI.2004, DB PCe GN MT DW, mt, 2 ♂♂. **S1**: 13–27.VI.2006, GC,

mt, 1 ♂ 1 ♀; 27.VI–11.VII.2006, GC, mt, 2 ♂♂ 2 ♀♀. **S3**: 27.VI–11.VII.2006, GC, mt, 1 ♂; 11–25.VII.2006, GC, mt, 11 ♂ 14 ♀ (CKR; CNBFVR); 15.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀; 25.VII–8.VIII.2006, GC, mt, 1 ♂ 2 ♀♀. **SAR1**: 16.VIII–8.IX.2004, GC, mt, 1 ♂ 1 ♀.

OTHER RECORDS. **G07**: 5.IX.2006, DA MB DB GN, nt, 1 ♀.

NOTES. First published records from Sardinia. A cosmopolitan species breeding in refuse and all kinds of decomposing animal matter.

Chrysomya albiceps (Wiedemann, 1819)

RECORDS. **C01**: 23.IX.2004, PCe DW, nt in botanical garden, 1 ♀. **C10**: 6.IX.2007, DA MB AM, nt su cadavere di *Martes martes*, 2 ♂♂ 2 ♀♀. **C26**: 11.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂ (CKR); 16.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C31**: 12.VII.2006, PCe DA MB DB MM DW, nt, 1 ♀; 12–17.VII.2006, DA MB DB PCe MM DW, mt, 2 ♀♀ (CKR; CNBFVR). **C36**: 10.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C41**: 12.VII.2006, DA MB DB MM PCe DW, nt, 1 ♂. **C42**: 17.VII.2006, DA MB DB PCe DW, nt, 1 ♂; 18.VII.2006, DA MB DB PCe DW, nt, 1 ♂; 18.VII.2006, DA MB DB PCe DW, nt, 1 ♂ (CKR). **C44**: 13.VII.2006, DA MB DB PCe MM DW, nt, 3 ♂♂. **C50**: 9.IX.2006, DA MB DB GN, nt, 1 ♂. **C82**: 9.VI.2004, PCe DB GN MT DW, nt, 1 ♂. **C85**: 2.IX.2003, DB PCe EM MT DW, nt, 2 ♂♂ 1 ♀; 2.IX.2003, PCe, nt, 8 ♂♂ 1 ♀; 4.IX.2003, PCe, nt, 1 ♂. **S2**: 7.IX.2006, DB DA MB GN, nt, 2 ♂♂ 1 ♀. **S3**: 17.VII.2006, PCe DA MB DB DW, nt, 1 ♂. **SAR1**: 1–5.IX.2003, DB PCe EM MT DW, bz, 1 ♀.

OTHER RECORDS. **A06**: 10.IX.2006, DA MB DB GN, nt, 1 ♂. **A16**: 5.VI.2004, PCe DB GN MT DW, nt, 1 ♂. **G04**: 4.IX.2006, DB DA MB GN, nt, 2 ♂♂. **G05**: 5.IX.2006, DB DA MB GN, nt on *Euphorbia* sp., 1 ♂. **G09**: 6.IX.2006, GN DA MB DB, nt on *Foeniculum vulgare*, 3 ♂♂ (CKR; CNBFVR). **Olbia-Tempio prov.**: Palau, Porto Rafael, 1 m, 1–15.IX.1997, PCe AT, 1 ♀.

NOTES. First published records from Sardinia. An almost cosmopolitan species, but apparently absent from the East Palearctic, Australia and the Nearctic. Often confused with *C. rufifacies* (Macquart, 1843). Breeds in carrion and refuse.

Lucilia caesar (Linnaeus, 1758)

RECORDS. **C03**: 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀. **C10**: 19.V.2006, DW MB DB PCo, nt, 1 ♂. **C18**: 24.V.2006, DW PCo, nt on rotting liver, 1 ♀. **C23**: 19.V.2006, DW MB DB PCo, nt, 1 ♀. **C26**: 11.VII.2006, PCe DA MB DB MM DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe DW, nt

on *Euphorbia cupanii*, 3 ♂♂. **C31**: 20–23.V.2006, MB DB PCo DW, mt, 1 ♂ 2 ♀♀; 23.V.2006, DW MB DB PCo, nt, 1 ♂; 12–17.VII.2006, DA MB DB PCe MM DW, mt, 3 ♂♂ 8 ♀♀ (CKR; CNBFVR). **C33**: 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂. **C42**: 17.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C44**: 16.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C82**: 7.VI.2004, PCe DB GN MT DW, nt, 1 ♂ 1 ♀; 9.VI.2004, DB PCe GN MT DW, nt, 3 ♂♂; 11–12.VI.2004, DB PCe GN MT DW, mt, 1 ♀; 12.VI.2004, DB PCe GN MT DW, mt, 6 ♂♂ 1 ♀ (CKR; CNBFVR). **S1**: 4–18.IV.2006, GC, mt, 2 ♀♀; 13.VI.2006, GC, mt, 2 ♀♀. **S3**: 11–25.VII.2006, GC, mt, 1 ♂; 15.VII.2006, DA MB DB PCe MM DW, nt, 2 ♂♂ 2 ♀♀.

NOTES. First published records from Sardinia. A Palaearctic species breeding in carrion.

Lucilia sericata (Meigen, 1826)

RECORDS. **C26**: 11.VII.2006, DA MB DB PCe DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C27**: 22.V.2006, DW MB DB PCo, nt, 1 ♂. **C31**: 20–23.V.2006, MB DB PCo DW, mt, 2 ♂♂ (CKR; CNBFVR); 23.V.2006, DW MB DB PCo, nt, 3 ♂♂ (CKR; CNBFVR); 12–17.VII.2006, DA MB DB PCe MM DW, mt, 2 ♂♂ 1 ♀. **C32**: 22.V.2006, DW, nt, 1 ♀. **C34**: 12.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂ 1 ♀. **C36**: 10.VII.2006, DA MB DB PCe DW, nt, 1 ♂; 6.IX.2006, DA MB DB GN, nt, 1 ♂ 1 ♀. **S2**: 12.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂. **S3**: 20.V.2006, DW MB DB PCo, nt, 1 ♂; 24.V.2006, DW MB DB PCo, nt, 1 ♀.

OTHER RECORDS. **A04**: 10.VII.2006, DW DA MB DB PCe, nt, 2 ♂♂ 2 ♀♀ (CKR; CNBFVR). **A12**: 5.IX.2007, DA MB AM, nt, 1 ♀. **A16**: 5.VI.2004, PCe DB GN MT DW, nt, 1 ♂ 1 ♀. **A21**: 25.V.2006, DW MB DB PCo, nt, 1 ♂. **G03**: 4.IX.2006, DA MB DB GN, nt, 1 ♂. **G04**: 4.IX.2006, DA MB DB GN, nt, 1 ♀.

NOTES. First published records from Sardinia. A cosmopolitan species. Breeds in carrion and refuse. It was collected also on a Sicilian isle: Agrigento prov., Isola Linosa, 19–29.VIII.1999, PCe, 1 ♀.

Melinda gentilis Robineau-Desvoidy, 1830

RECORDS. **C06**: 11.VI.2004, PCe DB GN MT DW, nt, 1 ♀. **C81**: 7.VI.2004, PCe DB GN MT DW, nt on *Ferula communis*, 1 ♀; 8.VI.2004, PCe DB GN MT DW, nt on *F. communis*, 1 ♂ (CKR); 10.VI.2004, PCe DB GN MT DW, nt on *F. communis*, 1 ♂; 12.VI.2004, PCe DB GN MT DW, nt on *F. communis*, 2 ♀♀ (CKR; CNBFVR). **C82**: 9.VI.2004, DB PCe GN MT DW, nt, 1 ♂; 9.VI.2004, PCe DB GN MT DW, nt, 1 ♂. **S3**: 15.VII.2006, DA MB PCe MM DW, nt, 1 ♀. **SAR1**: 8–21.IX.2004, GC, pt, 1 ♀.

NOTES. First published records from Sardinia. A Palaearctic species. A parasite of snails in the larval stages.

Pollenia griseotomentosa (Jacentkovský, 1944)

RECORDS. **C19**: 11.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀. **C31**: 20–23.V.2006, MB DB PCo DW, mt, 1 ♂ 7 ♀♀ (CKR; CNBFVR); 23.V.2006, DW MB DB PCo, nt, 2 ♀♀; 12–17.VII.2006, DA MB DB PCe MM DW, mt, 9 ♂♂ 4 ♀♀ (CKR; CNBFVR).

NOTES. First published record from Sardinia. European distribution. Recently recorded from the Nearctic. Biology unknown.

Pollenia haeretica Séguy, 1928

RECORDS. **C10**: 14.XI.2006, DW, nt, 1 ♂ (Rognes 2010). **C31**: 20–23.V.2006, MB DB PCo DW, mt, 3 ♀♀ (Rognes 2010). **C49**: 9.IX.2006, DA MB DB GN, nt, 1 ♂ (Rognes 2010). **S3**: 2–16.V.2006, GC, mt, 1 ♀ (Rognes 2010).

OTHER RECORDS. **A01**: 21.IX.2004, DB PCe EG FM DW, nt, 1 ♀ (CNBFVR); 21.IX.2004, PCe MT, nt, 1 ♂ 3 ♀♀ (Rognes 2010).

NOTES. Species recently recorded from Europe on the basis of some of the above specimens (Rognes 2010). Also known from Algeria and Tunisia (Rognes 2010). Biology unknown.

Pollenia paupera Rondani, 1862
= *Pollenia longithecata* Rognes, 1987

RECORDS. **C31**: 12.VII.2006, DA MB DB PCe MM DW, mt, 1 ♂. **C42**: 18.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **C44**: 16.VII.2006, DA MB DB PCe DW, nt, 1 ♂ 2 ♀♀; 17.VII.2006, DA MB DB PCe DW, nt, 1 ♂. **S1**: 30.V–13.VI.2006, GC, mt, 1 ♀♀; 13–27.VI.2006, GC, mt, 2 ♂♂; 27.VI–11.VII.2006, GC, mt, 8 ♂♂ 7 ♀♀ (CKR; CNBFVR).

NOTES. Also known from Sicily, the southern Italian mainland, Greece (including Crete), Cyprus, Turkey and Israel. Biology unknown.

Pollenia pseudintermedia Rognes, 1987

OTHER RECORDS. **G04**: 4.IX.2006, DB DA MB GN, nt, 1 ♂.

NOTES. First published record from Italy. Also known from Spain, Portugal, Greece, and Israel. Biology unknown.

Pollenia rudis (Fabricius, 1794)

RECORDS. **C31**: 20–23.V.2006, MB DB PCo DW, mt, 2 ♀♀; 23.V.2006, DW MB DB PCo, nt, 1 ♀; 12–17.VII.2006, DA MB DB PCe MM DW, mt, 1 ♂. **S1**: 13.VI.2006, GC, mt, 1 ♂. **S3**: 20.V.2006, DW MB DB PCo, nt, 1 ♀; 27.VI–11.VII.2006, GC, mt, 1 ♀. **SARI**: 16.VIII–8.IX.2004, GC, mt, 1 ♂.

NOTES. First published records from Sardinia. Almost cosmopolitan, but absent from the Afrotropical and Neotropical regions. Larvae are parasitoids of earthenworms.

Pollenia ruficrura Rondani, 1862

RECORDS. **C31**: 12–17.VII.2006, DA MB DB PCe MM DW, mt, 8 ♂♂ 2 ♀♀ (CKR; CNBFVR).

OTHER RECORDS. **G04**: 4.IX.2006, DA MB DB GN, nt, 1 ♂.

NOTES. First published record from Sardinia. Also known from Corsica, Italian mainland (Apulia, Emilia-Romagna) and Morocco. Biology unknown. Please note that there is an error in my *P. viatica* species-group paper (Rognes 1992: 457) where this species is treated in more detail. There are 3 ♂♂ 1 ♀ present in the Zoological Museum, Natural History Museum of Denmark (University of Copenhagen, Copenhagen, Denmark), not 3 ♂♂ 2 ♀♀ as stated erroneously in the paper. In Rognes (1995: 10), Rondani's name is misspelt as *P. ruificrura*.

Pollenia venturii Zumpt, 1956

RECORDS. **S3**: 5–19.IX.2006, GC, mt, 1 ♀; 19.IX–3.X.2006, GC, mt, 2 ♀♀ (CKR; CNBFVR); 3–17.X.2006, GC, mt, 2 ♂♂ (CKR; CNBFVR).

NOTES. First published record from Sardinia. Very rare, but widely distributed in Europe (France, Germany, Poland, Italian mainland, Greece); also Russia (Krasnodar Krai) and Iran (Khuzestan, Shush) (Rognes, unpublished). Biology unknown.

Rhyncomya impavida (Rossi, 1790)

RECORDS. **C05**: 23.V.2006, DW MB DB PCo, nt, 2 ♂♂. **C06**: 12.VI.2006, DB PCe GN MT DW, nt, 2 ♀♀. **C10**: 19.V.2006, DW MB DB PCo, nt, 3 ♂♂ (CKR; CNBFVR). **C18**: 11.IX.2006, DA MB DB GN, nt, 2 ♂♂. **C26**: 11.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂ 1 ♀; 11.VII.2006, PCe DA MB DB MM DW, nt, 1 ♂ 1 ♀; 15.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀; 16.VII.2006, DA MB DB PCe

DW, nt, 4 ♂♂ 3 ♀♀ (CKR; CNBFVR); 16.VII.2006, PCe DA MB DB DW, nt, 2 ♂♂ 3 ♀♀; 17.VII.2006, DA MB DB PCe DW, nt on *Euphorbia cupanii*, 4 ♂♂ 1 ♀. **C28**: 22.V.2006, DW MB DB PCo, nt, 1 ♀. **C31**: 22.IX.2004, DB PCe FM DW, nt, 1 ♀; 22.IX.2004, PCe DW, nt, 2 ♂♂ 3 ♀♀ (CKR; CNBFVR); 20–23.V.2006, MB DB PCo DW, mt, 4 ♀♀ (CKR; CNBFVR); 12–17.VII.2006, DA MB DB PCe MM DW, mt, 1 ♂. **C34**: 12.VII.2006, DA MB DB PCe MM DW, nt on *Euphorbia* sp., 1 ♂ 2 ♀♀. **C36**: 10.VII.2006, DB DA MB PCe DW, nt, 1 ♀. **C39**: 13.VII.2006, PCe DA MB DB MM DW, nt, 1 ♂; 13.VII.2006, DA MB DB PCe MM DW, nt, 5 ♂♂ (CKR; CNBFVR). **C42**: 17.VII.2006, DA MB DB PCe DW, nt, 1 ♂ 1 ♀. **C44**: 13.VII.2006, PCe DA MB DB MM DW, nt, 1 ♀. **C46**: 11.IX.2006, DB DA MB GN, nt, 1 ♀. **C85**: 2.IX.2003, DB PCe EM MT DW, nt, 1 ♀; 4.IX.2003, PCe, nt on *Mentha suaveolens insularis*, 3 ♀♀. **S1**: 27.VI–11.VII.2006, GC, mt, 1 ♀. **S3**: 23.V.2006, DB MB PCo DW, nt on *Ferula communis*, *Cistus monspeliensis*, *C. incanus* and *C. salvifolius*, 1 ♀; 24.V.2006, DW MB DB PCo, nt h. 12.30–14.30 p.m. hill top, 1 ♂; 13–27.VI.2006, GC, mt, 1 ♂; 27.VI–11.VII.2006, GC, mt, 1 ♀; 11.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂; 11.VII.2006, PCe DA MB DB MM DW, nt, 1 ♂; 11–25.VII.2006, GC, mt, 5 ♂♂ (CKR; CNBFVR); 15.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂; 25.VII–8.VIII.2006, GC, mt, 1 ♂ 2 ♀♀; 8–23.VIII.2006, GC, mt, 3 ♂♂ 1 ♀ (CKR; CNBFVR); 22.VIII–5.IX.2006, GC, mt, 3 ♂♂; 5–19.IX.2006, GC, mt, 2 ♀♀; 19.IX–3.X.2006, GC, mt, 3 ♂♂ 2 ♀♀ (CKR; CNBFVR); 3–17.X.2006, GC, mt, 1 ♀.

OTHER RECORDS. **A01**: 21.IX.2004, DB PCe FM DW, nt, 1 ♀; 22.IX.2004, PCe MT, nt, 1 ♂ 1 ♀; 10.IX.2006, DA MB DB GN, nt, 1 ♂ 3 ♀♀. **A15**: 7.IX.2007, DA MB AM, nt, 2 ♂♂ 3 ♀♀. **G08**: 5.IX.2006, DA MB DB GN, nt, 2 ♂♂ 1 ♀. **Olbia-Tempio prov.**: Palau, Porto Rafael, 1 m, 1–15.IX.1997, PCe AT, nt, 3 ♂♂ 8 ♀♀. **Sassari prov.**: Alghero, Capo Caccia, 13.VII.2004, DB, nt, 1 ♀.

NOTES. Also known from Corsica, Sicily and the southern Italian mainland. Biology unknown.

Stomorhina lunata (Fabricius, 1805)

RECORDS. **C03**: 13.VII.2006, DB DA MB PCe DW, nt, 1 ♀. **C07**: 20.V.2006, DW MB DB PCo, nt, 2 ♂♂; 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♀. **C26**: 11.VII.2006, DA MB DB PCe MM DW, nt, 5 ♂♂ (CKR; CNBFVR); 11.VII.2006, PCe DA MB DB MM DW, nt, 1 ♂ 1 ♀; 15.VII.2006, DA MB DB PCe MM DW, nt, 7 ♂♂ 1 ♀ (CKR; CNBFVR); 16.VII.2006, DA MB DB PCe DW, nt, 2 ♂♂ 2 ♀♀; 16.VII.2006, PCe DA MB DB DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe DW, nt on *Euphorbia cupanii*, 5 ♂♂ 1 ♀ (CKR; CNBFVR). **C27**: 22.V.2006, DW MB DB PCo, nt, 7 ♂♂ 3 ♀♀ (CKR; CNBFVR).

C29: 22.V.2006, DW MB DB PCo, nt, 1 ♂. **C31:** 22.IX.2004, PCe DW, nt, 1 ♂; 20–23.V.2006, MB DB PCo DW, mt, 1 ♂; 23.V.2006, DW MB DB PCo, nt, 1 ♂. **C42:** 17.VII.2006, DA MB DB PCe DW, nt, 1 ♀ (CKR); 18.VII.2006, DA MB DB PCe DW, nt, 1 ♂ 3 ♀♀. **C44:** 13.VII.2006, DA MB DB PCe MM DW, nt, 1 ♂; 17.VII.2006, DA MB DB PCe DW, nt, 2 ♂♂ 1 ♀. **S2:** 24.IX.2004, DB PCe FM DW, nt, 1 ♂ 1 ♀. **S3:** 10.VI.2004, DB PCe GN MT DW, 1 ♂; 11.VII.2006, DA MB DB PCe MM DW, nt, 2 ♂♂; 11–25.VII.2006, GC, mt, 2 ♀♀; 15.VII.2006, DA MB DB PCe MM DW, nt, 2 ♀♀ (CKR; CN-BFVR); 15.VII.2006, PCe DA MB DB MM DW, nt, 2 ♂♂; 25.VII–8.VIII.2006, GC, mt, 1 ♀.

OTHER RECORDS. **A01:** 21.IX.2004, PCe MT, nt, 1 ♀. **A06:** 11.XI.2006, DW, sn, 1 ♂ 1 ♀. **A15:** 7.IX.2007, DA MB AM, nt, 3 ♀♀. **G07:** 5.IX.2006, DA MB DB GN, nt, 1 ♂. **G09:** 6.IX.2006, DA MB DB GN, nt, 2 ♂♂ 1 ♀; 6.IX.2006, GN DA MB DB, nt, 2 ♀♀. **Olbia-Tempio prov.:** Palau, Porto Rafael, 1 m, 1–15.IX.1997, PCe AT, 1 ♂.

NOTES. Widely distributed in the southern Palaearctic (also France and Great Britain); all of the Afrotropical Region; northern Oriental Region; only Bermuda in the Nearctic region. Larvae are predatory on locust egg-pods.

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13. Diptera, CANACIDAE TETHININAE

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Recent studies (Buck 2006; McAlpine 2007; Munari & Mathis 2010) have shown that the "Tethinidae", previously long treated as a family group, are paraphyletic with respect to the Canacidae; therefore, they are now considered as a set of subfamilies included within the Canacidae (the older family group name). The Tethininae are small to medium-sized flies (body length about 1.4–3.7 mm), mainly halobiontic, in many cases thalassobiontic and psammophilous. In Europe and in the Mediterranean Basin they are represented by one genus only: *Tethina* Haliday in Curtis, 1837. The subfamily is relatively well known in Italy, but records from Sardinia are scarce and fragmentary (Munari & Vanin 2007), with records only for four species of *Tethina*.

Tethina albosetulosa (Strobl, 1900)

OTHER RECORDS. **A06:** 11.XI.2006, DW, sn, 2 ♀♀.

NOTES. A very common species mostly inhabiting the sandy seashores of Central Europe and the Mediterranean Basin. A thalassobiont and psammophilous species whose larvae are probably associated with stranded organic debris (Munari & Vanin 2007).

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