

The spider (Araneae) fauna of the shore of Lake Balaton, Hungary

By

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Abstract. A total of 171 species of spiders have been found on the shore of Lake Balaton (Hungary). Some of them are considered to be rare and four are new species to the fauna of Hungary.

Balaton is the largest and the most well-known lake of Hungary. In spite of this, faunistical data concerning the spider fauna near Lake Balaton are rather poor. To improve the situation, the Limnological Research Institute, Tihany (Hungary) organised research and extensive collecting works in this area in 1990—1994. Before this study, only few references to this area can be found (KOLOSVÁRY, 1928, 1931, 1933; BALOGH 1933). This study summarises the result of the investigations of five years (1990—1994). The surveys were done by IMRE LOKSA (1990—91), ISTVÁN LOKSA (1992) and KINGA SZATHMÁRY (1993—94).

Material and methods

Sampling was carried out at 15 sampling sites (Figure 1). Only four of them were along the southern shoreline because it is mostly covered with concrete. In most cases active collecting methods were used: singling, sweeping, the peeling off the barks, at some localities pitfall traps also set up. We have at least one data set per each season from all research sites.

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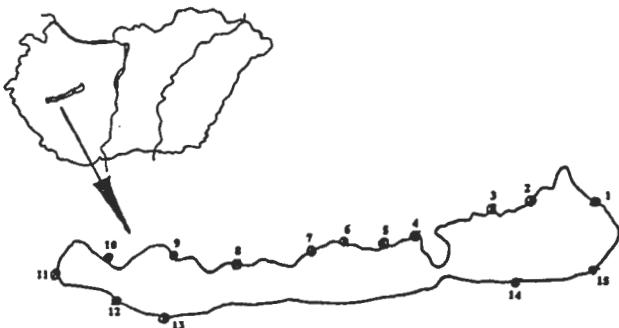


Fig. 1. Location of the sampling sites. 1: Balatonkenese, 2: Káptalanfürdő - Alsóörs,
3: Paloznaki-bay, 4: Bozsai-bay, 5: Balatonudvari, 6: Balatonakali, 7: Balatonszepezd, 8: Ábrahámhegy,
9: Szigliget, 10: Balatongyörök, 11: Fenékpuszta, 12: Balatonberény, 13: Balatonfenyves,
14: Balatonszéplak-felső, 15: Balatonvilágos

Results

Altogether 171 spider species were identified in the area. Four of them — *Cyclosa oculata*, *Micrargus laudatus*, *Walckenaeria* (=*Cornicularia*) *kochi* and *Walckenaeria* (=*Cornicularia*) *unicornis* — are new to the Hungarian fauna, five for the Balaton region and some rare species were also caught. The results are summarized in Table I.

The highest species diversity was found at Bozsai-bay — it is a large reedbelt — with 120 species, the lowest at Balatonszéplak-felső, a concrete-covered section of the shore with a small reed-spot, with 6 species. The new species to the Hungarian fauna, and the rare species are the following:

Haplodrassus signifer C. L. KOCH

This species lives in sandy areas and prefers habitats with short vegetation. It was found at the willow hedge along the shoreline.

Pardosa prativaga C. L. KOCH

This is a rare, euryhygric species with an irregular distribution. It was collected at Balatonakali, along the shore. It is the first occurrence of this species in the Balaton region.

Trochosa spinipalpis O.P.- CAMBRIDGE

This species is again new for the Balaton region, with an Arboreo-Mediterranean distribution. It is considered to live in wetlands and along shorelines.

Table 1. The spider fauna of the shore of Lake Balaton.

Bke = Balatonkenese, KAö = Káptalanfürdő - Alsóörs, Pal = Paloznaki-bay, Bo = Bozsai-bay,
 Bu = Balatonudvari, Bak = Balatonakali, Bsze = Balatonszepezd, Ábr = Ábrahámhegy, Szig = Szliget,
 Bgy = Balatongyörök, Fe = Fenékpuszta, Bb = Balatonberény, Bf = Balatonfenyves,
 Bszl = Balatonszéplak-felső, Bvi = Balatonvilágos

| | Bke | KAö | Pal | Bo | Bu | Bak | Bsze | Ábr | Szig | Bgy | Fe | Bb | Bf | Bszl | Bvi |
|--|-----|-----|-----|----|----|-----|------|-----|------|-----|----|----|----|------|-----|
| DICTYNIDAE | | | | | | | | | | | | | | | |
| <i>Dictyna arundinacea</i> Linne | * | | * | * | * | | | | | | | | | | |
| <i>Dictyna hebesana</i> Walckenaer | | | | * | | | | | | | | | | | |
| <i>Dictyna lutescens</i> Fabricius | | | | | | | | | | | | | | | |
| <i>Dictyna punctigera</i> | | | | * | | | | | | | | | | | |
| <i>Dictyna punctigera</i> Thorol | * | | | | | | | | | | | | | | |
| <i>Dictyna virensima</i> O. Müller | | | | | | | | | | | | | | | |
| <i>Hymen wolfkampae</i> Roewer | | | | | | | | | | | | | | | |
| <i>Ayshma crassispicula</i> Dahl | | | | | | | | | | | | | | | |
| DYSDERIDAE | | | | | | | | | | | | | | | |
| <i>Harpactes rubicundus</i> C.L. Koch | | | | * | | | | | | | | | | | |
| <i>Dysdera nitens</i> Canevari | | | | | | | * | | | | | | | | |
| ZODARIIDAE | | | | | | | | | | | | | | | |
| <i>Zodarion sp. nov.</i> | | | | * | | | | | | | | | | | |
| GNAPHOSIDAE | | | | | | | | | | | | | | | |
| <i>Drassodes pubescens</i> Thorell | | | | | | | * | | | | | | | | |
| <i>Haplodrassus signifer</i> C.L. Koch | | | | * | | | * | | | | | | | | |
| <i>Zelotes apicorum</i> L. Koch | | | | | | | * | | | | | | | | |
| <i>Zelotes praecox</i> L. Koch | | | | | | | * | | | | | | | | |
| <i>Zelotes pedestris</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Micaria fulgida</i> Walckenaer | | | | | | | * | | | | | | | | |
| CLUBIONIDAE | | | | | | | | | | | | | | | |
| <i>Cubonia coeruleostrigata</i> L. Koch | | | | | | | * | | | | | | | | |
| <i>Cleione compacta</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Cubions diversa</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Cubions levius</i> Simon | | | | | | | * | | | | | | | | |
| <i>Cubiona mesicana</i> Westring | | | | | | | * | | | | | | | | |
| <i>Cubiona perspicua</i> L. Koch | | | | | | | * | | | | | | | | |
| <i>Cubions spissula</i> Koch | | | | | | | * | | | | | | | | |
| <i>Cubions stipulans</i> Kulczyński | | | | | | | * | | | | | | | | |
| <i>Cubions solita</i> L. Koch | | | | | | | * | | | | | | | | |
| <i>Chersacanthium effusum</i> Herman | | | | | | | * | | | | | | | | |
| <i>Chersacanthium erraticum</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Chersacanthium punctatum</i> Vilpatti | | | | | | | * | | | | | | | | |
| LIOCRANINAE | | | | | | | | | | | | | | | |
| <i>Agyneta striata</i> Kulczyński | | | | | | | * | | | | | | | | |
| <i>Agyneta brunnea</i> Blackwall | | | | | | | * | | | | | | | | |
| <i>Agyneta pulita</i> Thorol | | | | | | | * | | | | | | | | |
| <i>Phrurolithus festivus</i> C.L. Koch | | | | | | | * | | | | | | | | |
| ZORIDAE=CTENIDAE | | | | | | | | | | | | | | | |
| <i>Zora schmitzi</i> Sundevall | | | | | | | * | | | | | | | | |
| EUSPARASSIDIADAE | | | | | | | | | | | | | | | |
| <i>Micrommata virescens</i> Clerck | | | | | | | * | | | | | | | | |
| THOMISIDAE | | | | | | | | | | | | | | | |
| MISUMENINAE | | | | | | | | | | | | | | | |
| <i>Thomisus onustus</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Diasa dorsata</i> Fabricius | | | | | | | * | | | | | | | | |
| <i>Haniseus grammicola</i> Dohrn | | | | | | | * | | | | | | | | |
| <i>Haniseus savignyi</i> Simon | | | | | | | * | | | | | | | | |
| <i>Misumena vatia</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Misumena opaca</i> Irciusopodatus Fabricius | | | | | | | * | | | | | | | | |
| <i>Runcinia lateralis</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Xysticus kochi</i> Thorol | | | | | | | * | | | | | | | | |
| <i>Xysticus ulmi</i> Hahn | | | | | | | * | | | | | | | | |
| <i>Oxytela algarviana</i> Pauper | | | | | | | * | | | | | | | | |
| <i>Oxytela blackwalli</i> Simon | | | | | | | * | | | | | | | | |
| <i>Oxytela praticola</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Oxytela simplex</i> Cambridge | | | | | | | * | | | | | | | | |
| PHILODROMIDAE | | | | | | | | | | | | | | | |
| <i>Philodromus aureolus</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Philodromus cespitum</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Philodromus depauperatus</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Philodromus festivus</i> Sundevall | | | | | | | * | | | | | | | | |
| <i>Philodromus rufus</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Theridius sp.</i> János | | | | | | | * | | | | | | | | |
| <i>Tegenaria minuta</i> Walckenaer | | | | | | | * | | | | | | | | |
| TEGIDIADAE | | | | | | | * | | | | | | | | |
| <i>Saxicola apertus</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Haephilanus senectus</i> Hahn | | | | | | | * | | | | | | | | |
| <i>Haephilanus auratus</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Haephilanus cuprus</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Haephilanus flavipes</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Marpissa canescens</i> Can. et Pav. | | | | | | | * | | | | | | | | |
| <i>Marpissa rhoyoi</i> Lucas | | | | | | | * | | | | | | | | |
| <i>Marpissa radiata</i> Gruber | | | | | | | * | | | | | | | | |
| <i>Balus depressus</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Euphydrya petrensis</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Euphydrya fontinalis</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Selicia florula</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Evarcha arcuata</i> Clerck | | | | | | | * | | | | | | | | |
| Myrmecophila formicaria Degener | | | | | | | * | | | | | | | | |
| OXYOPIDAE | | | | | | | * | | | | | | | | |
| <i>Oxyopes heterophthalmus</i> Latreille | | | | | | | * | | | | | | | | |
| LYCOSIDAE | | | | | | | * | | | | | | | | |
| <i>Pardosa emarginata</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Pardosa horstense</i> Thorol | | | | | | | * | | | | | | | | |
| <i>Pardosa lugubris</i> Walckenaer | | | | | | | * | | | | | | | | |
| <i>Pardosa monticola</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Pardosa pallidipunctata</i> Clerck | | | | | | | * | | | | | | | | |
| <i>Pardosa palustris</i> Linnaeus | | | | | | | * | | | | | | | | |
| <i>Pardosa pratirivae</i> C.L. Koch | | | | | | | * | | | | | | | | |
| <i>Pardosa pulchra</i> Clerck | | | | | | | * | | | | | | | | |

| | Bio | KAD | Pel | Bo | Bu | Buk | Buzo | Abr | Saq | Bgy | Fe | Bb | Bl | Bag | Bv |
|--|-----|-----|-----|----|----|-----|------|-----|-----|-----|----|----|----|-----|----|
| <i>Allopecosa purvaevulsa</i> Clerck | | | * | | | | | | | | | | | | |
| <i>Trochosa robusta</i> Simon | | | * | | | | | | | | | | | | |
| <i>Trochosa spinipalpis</i> Cambridge | | | * | * | | | | | | | | | | | |
| <i>Trochosa terricola</i> Thorol | | | * | * | * | | | | | | | | | | |
| <i>Arctosa maculata</i> Hahn | | | * | | | | | | | | | | | | |
| <i>Prista hypographus</i> Thorol | | | * | | | | | | | | | | | | |
| <i>Prista latana</i> Blackwall | | | * | | | | | | | | | | | | |
| <i>Prista piscatorius</i> Clerck | | | * | | | | | | | | | | | | |
| <i>Prista tenetaria</i> Simon | | | * | | | | | | | | | | | | |
| PISauridae | | | | | | | | | | | | | | | |
| <i>Pisaura mirabilis</i> Clerck | | | * | | * | | | | | | | | | | |
| <i>Dolomedes ambitus</i> Clerck | | | | | | | | | | | | | | | |
| ARGYronetidae | | | | | | | | | | | | | | | |
| <i>Argyroneta aquatica</i> Clerck | | | * | | | | | | | | | | | | |
| AeLeniidae | | | | | | | | | | | | | | | |
| <i>Agelenopsis aperta</i> C.L. Koch | | | * | | | | | | | | | | | | |
| <i>Agelenopsis idahoensis</i> Clerck | | | * | | | | | | | | | | | | |
| Hahniidae | | | | | | | | | | | | | | | |
| <i>Artoriella elegans</i> Blackwall | | | * | | | | | | | | | | | | |
| <i>Hahnia nava</i> Blackwall | | | * | | | | | | | | | | | | |
| Mimetidae | | | | | | | | | | | | | | | |
| <i>Ero aphana</i> Walckenaer | | | * | | | | | | | | | | | | |
| <i>Ero luteata</i> Viger | | | * | | | | | | | | | | | | |
| Theridiidae | | | | | | | | | | | | | | | |
| <i>Achaearanea</i> sp. | | | | | | | | | | | | | | | |
| <i>Theridion humile</i> Linné | | | | | | | | | | | | | | | |
| <i>Theridion pallens</i> Blackwall | | | | | | | | | | | | | | | |
| <i>Theridion regium</i> Walckenaer | | | | | | | | | | | | | | | |
| <i>Theridion pseudos</i> L. Koch | | | | | | | | | | | | | | | |
| <i>Theridion aspylum</i> Clerck | | | | | | | | | | | | | | | |
| <i>Theridion variegatum</i> Hahn | | | | | | | | | | | | | | | |
| <i>Enoplognatha ovata</i> Clerck | | | | | | | | | | | | | | | |
| <i>Enoplognatha schaufussi</i> L. Koch | | | | | | | | | | | | | | | |
| <i>Enoplognatha thoracica</i> Hahn | | | | | | | | | | | | | | | |
| <i>Robertus arundinarius</i> Cambridge | | | | | | | | | | | | | | | |
| <i>Episinus invictus</i> Latreille | | | | | | | | | | | | | | | |
| Tetragnathidae | | | | | | | | | | | | | | | |
| <i>Tetragnatha edentula</i> Linné | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Tetragnatha daemeli</i> Thorol | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Tetragnatha nigrita</i> Linné | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Tetragnatha pectinata</i> L. Koch | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Pachynotaha clercki</i> Sundewall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Pachynotaha jaseni</i> Sundewall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Mala mengui</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Mala segmentata</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| Araneidae | | | | | | | | | | | | | | | |
| <i>Gibbaranea blumbergi</i> Walckenaer | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Agelenopsis redi</i> Scopoli | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Araneus blumbergi</i> Walckenaer | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Araneus diadematus</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Araneus marmoreus</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Araneus quadratus</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Larinioides cornutus</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Larinioides tenuis</i> Schenck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Larinioides sclopetarius</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Marpissa acuticeps</i> Walckenaer | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Aranea succubans</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Hypognathus herculeus</i> Hahn | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Sisicottus hamatus</i> Olivier | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Sisicottus keeni</i> Savory et Audouin | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Sisicottus nigridus</i> C.L. Koch | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Zygoballus alpinus</i> C.L. Koch | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Zea dodka</i> Walckenaer | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Cyclaea ornata</i> Walckenaer | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Argiope bruennichi</i> Scopoli | | | * | | * | * | * | * | * | * | * | * | * | * | |
| Linyphiidae | | | | | | | | | | | | | | | |
| <i>Mesaphantes usneae</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Macrelmiss curvispina</i> C.L. Koch | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Stomopododes bipunctatus</i> Menge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Bathyphantes putatus</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Bathyphantes negrensis</i> Westring | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Delostylus concolor</i> Wider | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Leptophantes tenuis</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Phoroncidia convexum</i> Westring | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Merioloides clavifrons</i> Sundewall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Limphytus hortensis</i> Sundewall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Limphytus pusilla</i> Sundewall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Limphytus iranquianus</i> Clerck | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Centromerus expexus</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Donacocara speciosa</i> Thorol | | | * | | * | * | * | * | * | * | * | * | * | * | |
| Erigonidae | | | | | | | | | | | | | | | |
| <i>Gongylochelus muricatum</i> Simon | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Carinella brevis</i> Wider | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Dolomedes pectoralis</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Tegenaria insculpta</i> L. Koch | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Hematocheilus sanguinolentus</i> Walck. | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Trichognathus dentatus</i> Wider | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Gonatium sororium</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Oedothorax splatylus</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Oedothorax obesus</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Micrargus herbigradus</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Micrargus laudatus</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Thea vegana</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Walckenaeria arctica</i> Wider | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Walckenaeria kochii</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Walckenaeria vegana</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Walckenaeria uncinata</i> Cambridge | | | * | | * | * | * | * | * | * | * | * | * | * | |
| <i>Endoxylus sara</i> Blackwall | | | * | | * | * | * | * | * | * | * | * | * | * | |

Pirata tenuitarsis SIMON

This species is present throughout the Paleo- and Neoarctic regions except for Africa. As it is hygrophilic and avoids shadow, this species prefers marshy habitats. Its occurrence in Balatonakali is also a new record for the Balaton region.

Cyclosa oculata WALCKENAER

This species is distributed throughout the temperate regions of Europe and Asia. In Hungary, however, this is the first record; it was found in the reed vegetation of the Bozsai-bay.

Kaestneria pullata (=*Batyphantes pullatus*) O.P.-CAMBRIDGE

A rare species in Hungary with an European distribution. It always occurs near the water in wetlands and in reedy areas among the vegetation with helio- and hygrophil features. It was found in reed vegetation very near to the water in the Bozsai-bay.

Micrargus laudatus O.P.-CAMBRIDGE

A rare species with an unknown habitat preference. It was found in a temporarily water covered site near the Bozsai-bay. This is its first record for the Hungarian fauna.

Walckenaeria (=*Cornicularia*) *kochi* O.P.-CAMBRIDGE

A new species for Hungary. It has got a mainly Western European distribution and considered to be a hygrophilic species. It was collected from temporarily water covered sedge and reed vegetation near the Bozsai-bay.

Walckenaeria (=*Cornicularia*) *unicornis* O.P.-CAMBRIDGE

A new species in the Hungarian fauna, with an European distribution excluding Southern Europe. It was collected from reeds in the Bozsai-bay.

Diplostyla concolor WIDER

This species is new for the Balaton region, with a Central-European distribution, occurring in wet, shady habitats. It was found on reed fragments.

Donacochara speciosa THORELL

This species is strictly bound to reedy habitats and wetlands. Its distribution area contains Central-Europe. In Hungary it had been recorded at some other sites before, but not in the Balaton region.

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