

CARTOGRAPHIE DES INVERTEBRES EUROPEENS



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FONDS de la RECHERCHE SCIENTIFIQUE FONDAMENTALE COLLECTIVE
(Ministères de l'Education Nationale)

ATLAS PROVISoire
DES
INSECTES DE BELGIQUE
(et des régions limitrophes)

édité par

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CARTES 1401 à 1645

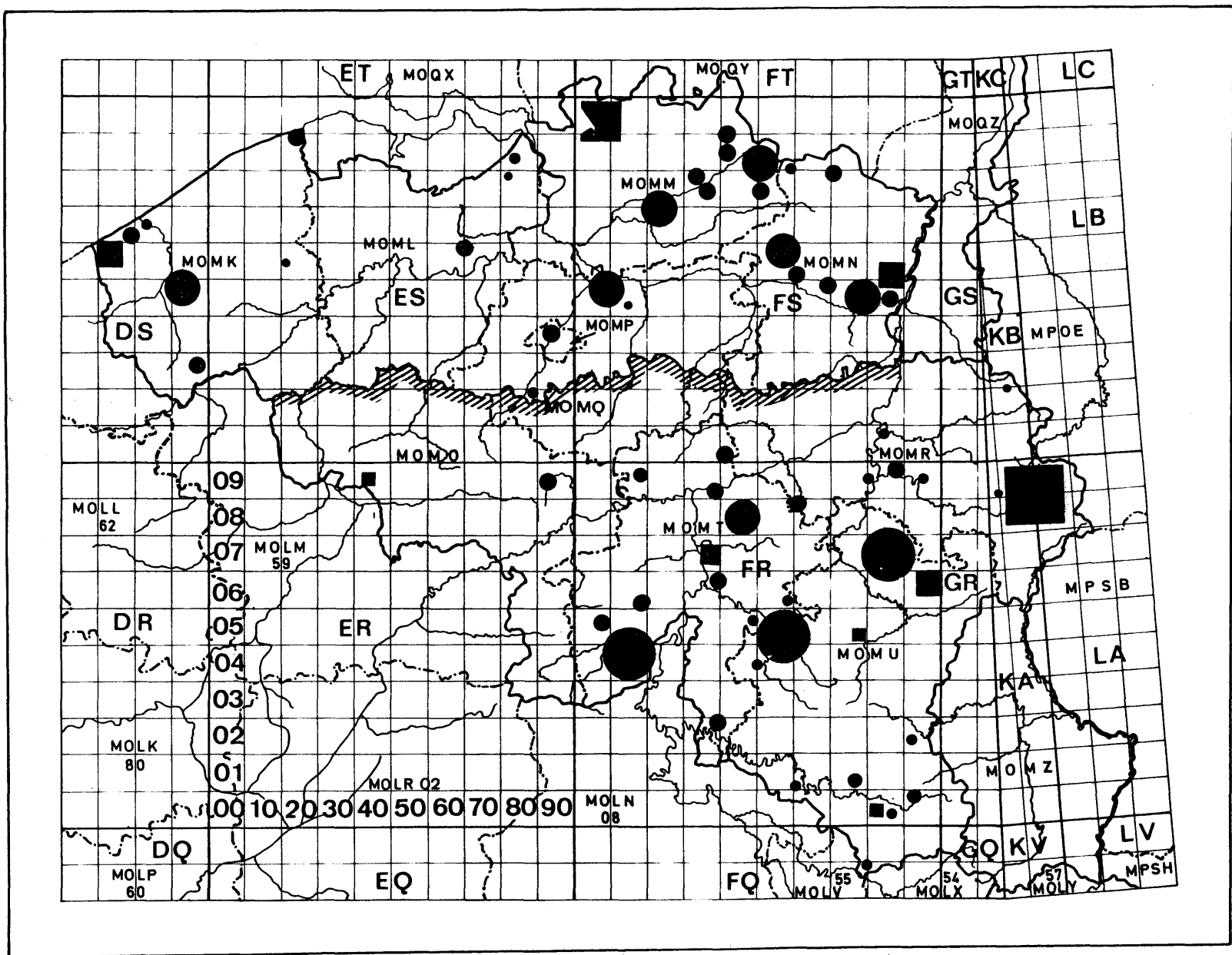
Collaboration scientifique.

Guy BOOSTEN, Jean LECLERCQ, Marcel LECLERCQ
Jean-Paul SMEEKENS, Charles VERSTRAETEN, Raymond WAHIS

Collaboration technique

Geneviève LAURENT, Camille THIRION, Christian WONVILLE

FACULTE DES SCIENCES AGRONOMIQUES DE L'ETAT
ZOOLOGIE GENERALE ET FAUNISTIQUE
GEMBLOUX (Belgique)




Carte Hors-série

R E P E R T O I R E

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CARTE HORS-SERIE - La Belgique et régions limitrophes, avec :

 - limite traditionnelle entre la Flandre et la Wallonie;

ER09:- rappel de la notation du quadrillage U.T.M.;

- les réserves naturelles en territoire belge.

	de 0 à 9 ha	de 10 à 49 ha	de 50 à 199 ha	de 200 à 499 ha	de 500 à 999 ha	Hautes Fagnes (3894 ha)
Réserves privées ou libres	●	●	●	●	●	●
Réserves naturelles de l'Etat	■	■	■	■	■	■

Sources pour la répartition des réserves naturelles:
A. NOIRFALISE, J. HUBLE & W. DELVINGT, 1970, "Les
Réserves naturelles de la Belgique" (Bruxelles,
Ministère de l'Agriculture, Administration des Eaux et
Forêts) et additions qui ont été signalées très obli-
geamment par MM. Guy BOOSTEN (Ath) et Maurice DETHIOUX
(Gembloux)

CARTES 1401 à 1481 - Hymenoptera Sphecidae (partim), par Jean LECLERCQ

Avec les cartes publiées antérieurement (n^{os} 31-40, 501-534 et
1165-1200), ceci complèterait la présentation de l'information
pour toute la famille des Sphécides s'il ne restait à traiter les
espèces du genre Pemphredon. Entretemps, le catalogue à jour des
Sphécides de Belgique et celui pour l'ensemble du Bénélux et de
la France ont été publiés avec le codage utilisé pour exploiter
le fichier de Gembloux : J. LECLERCQ, 1979, "Catalogue et codage
des Hyménoptères Sphécides de France et de Bénélux" (Notes Fauni-
ques de Gembloux, n° 1, 87 pages).

Il y a lieu de remercier les collègues qui ont bien voulu commu-
niquer les données de leurs collections, notamment MM. Karel
JANSSENS (Antwerpen), Virgilius LEFEBER (Maastricht), Alain PAULY
(Gembloux), Jacques PETIT (Wonck) et Lucien VERLINDEN (Antwerpen).

CARTES 1401 - 1407 Sphacinae

- 1401 - Podalonia affinis (KIRBY)
- 1402 - Podalonia hirsuta (SCOPOLI)
- 1403 - Podalonia luffi (SAUNDERS)
- 1404 - Ammophila campestris LATREILLE
- 1405 - Ammophila hungarica MOCSARY
- 1406 - Ammophila pubescens CURTIS
- 1407 - Ammophila sabulosa (LINNE)

CARTES 1408 - 1412 Astatinae

- 1408 - Astatia boops (SCHRANK)
- 1409 - Astatia minor KOHL
- 1410 - Dryudella pinguis (DAHLBOM)
- 1411 - Dryudella stigma (PANZER)
- 1412 - Dinetus pictus (FABRICIUS)

CARTES 1413 - 1421 Larrinae Miscophini & Trypoxylonini

- 1413 - Miscophus ater LEPELETIER
- 1414 - Miscophus bicolor JURINE
- 1415 - Miscophus concolor DAHLBOM
- 1416 - Miscophus spurius (DAHLBOM)
- 1417 - Nitela borealis VALKEILA
- 1418 - Nitela spinolae LATREILLE
- 1419 - Trypoxylon attenuatum SMITH
- 1420 - Trypoxylon clavicerum LEPELETIER & SERVILLE
- 1421 - Trypoxylon figulus (LINNE)

CARTES 1422 - 1478 Crabroninae

- 1422 - Oxybelus argentatus CURTIS s.l.
- 1423 - Oxybelus bipunctatus OLIVIER
- 1424 - Oxybelus latro OLIVIER
- 1425 - Oxybelus lineatus (FABRICIUS)
- 1426 - Oxybelus mandibularis DAHLBOM

- 1427 - *Oxybelus quattuordecimnotatus* JURINE
- 1428 - *Oxybelus trispinosus* (FABRICIUS)
- 1429 - *Oxybelus uniglumis* (LINNE)
- 1430 - *Oxybelus victor* ssp. *victor* LEPELETIER
- 1431 - *Entomognathus brevis* (VANDER LINDEN)
- 1432 - *Lindenius albilabris* (FABRICIUS)
- 1433 - *Lindenius panzeri* (VANDER LINDEN)
- 1434 - *Lindenius pygmaeus* (ROSSI) ssp. *armatus* (VANDER LINDEN)
- 1435 - *Rhopalum clavipes* (LINNE)
- 1436 - *Rhopalum coarctatum* (SCOPOLI)
- 1437 - *Rhopalum gracile* WESMAEL
- 1438 - *Crossocerus* (*Hoplocrabro*) *quadrimaculatus* (FABRICIUS)
- 1439 - *Crossocerus* (*Crossocerus*) *denticrus* HERRICH-SCHAEFFER
- 1440 - *Crossocerus* (*Crossocerus*) *distinguendus* (MORAWITZ)
- 1441 - *Crossocerus* (*Crossocerus*) *elongatulus* (VANDER LINDEN)
- 1442 - *Crossocerus* (*Crossocerus*) *exiguus* (VANDER LINDEN)
- 1443 - *Crossocerus* (*Crossocerus*) *ovalis* LEPELETIER & BRULLE
- 1444 - *Crossocerus* (*Crossocerus*) *palmipes* (LINNE)
- 1445 - *Crossocerus* (*Crossocerus*) *pusillus* LEPELETIER & BRULLE
- 1446 - *Crossocerus* (*Crossocerus*) *tarsatus* (SHUCKARD)
- 1447 - *Crossocerus* (*Crossocerus*) *wesmaeli* (VANDER LINDEN)
- 1448 - *Crossocerus* (*Ablepharipus*) *assimilis* (SMITH)
- 1449 - *Crossocerus* (*Ablepharipus*) *congener* (DAHLBOM)
- 1450 - *Crossocerus* (*Ablepharipus*) *podagricus* (VANDER LINDEN)
- 1451 - *Crossocerus* (*Blepharipus*) *annulipes* (LEPELETIER & BRULLE)
- 1452 - *Crossocerus* (*Blepharipus*) *capitosus* (SHUCKARD)
- 1453 - *Crossocerus* (*Blepharipus*) *cetratus* (SHUCKARD)
- 1454 - *Crossocerus* (*Blepharipus*) *cinxius* (DAHLBOM)
- 1455 - *Crossocerus* (*Blepharipus*) *leucostoma* (LINNE)
- 1456 - *Crossocerus* (*Blepharipus*) *megacephalus* (ROSSI)
- 1457 - *Crossocerus* (*Blepharipus*) *nigritus* LEPELETIER & BRULLE
- 1458 - *Crossocerus* (*Blepharipus*) *styrius* (KOHL)
- 1459 - *Crossocerus* (*Blepharipus*) *walkeri* (SHUCKARD)
- 1460 - *Crossocerus* (*Acanthocrabro*) *vagabundus* (PANZER)
- 1461 - *Crossocerus* (*Cuphopterus*) *binotatus* LEPELETIER & BRULLE

- 1462 - Crossocerus (Cuphopterus) dimidiatus (FABRICIUS)
- 1463 - Crabro cribrarius (LINNE)
- 1464 - Crabro peltarius (SCHREBER)
- 1465 - Crabro scutellatus (SCHEVEN)
- 1466 - Ectemnius (Cameronitus) nigritarsus (HERRICH-SCHAEFFER)
- 1467 - Ectemnius (Hypocrabro) continuus (FABRICIUS)
- 1468 - Ectemnius (Hypocrabro) rubicola (DUFOUR & PERRIS)
- 1469 - Ectemnius (Ectemnius) borealis (ZETTERSTEDT)
- 1470 - Ectemnius (Ectemnius) dives (LEPELETIER & BRULLE)
- 1471 - Ectemnius (Ectemnius) guttatus (VANDER LINDEN)
- 1472 - Ectemnius (Clytochrysus) cavifrons (THOMSON)
- 1473 - Ectemnius (Clytochrysus) lapidarius (PANZER)
- 1474 - Ectemnius (Clytochrysus) ruficornis (ZETTERSTEDT)
- 1475 - Ectemnius (Clytochrysus) sexcinctus (FABRICIUS)
- 1476 - Ectemnius (Metacrabro) cephalotes (OLIVIER)
- 1477 - Ectemnius (Metacrabro) fossorius (LINNE)
- 1478 - Ectemnius (Metacrabro) lituratus (PANZER)

CARTE 1479 Nyssoninae, espèce omise dans la série publiée pour cette sous-famille (cartes 1166-1192) :

- Gorytes quinquefasciatus (PANZER)

CARTE 1480 Pemphredoninae, espèce omise dans la série publiée pour cette sous-famille (cartes 501-534), données de J. PETIT (Lambillionea, 1975, p. 5) et de V. LEFEBER (in litt.). Il faut aussi l'ajouter au catalogue des Sphécides de Belgique de J. LECLERCQ, 1979, p. 54, son numéro de code étant 6465 161 18,

- Mimumesa spooneri (RICHARDS)

CARTE 1481 - Somme des données concernant les Sphécides (sauf les Pemphredon), soit des cartes 31-40, 501-534, 1165-1200 et 1401-1479.

CARTE 1482 - Somme des données concernant les Sphécides Crabroniens, soit des cartes 38-40 et 1422-1478.

CARTES 1483 à 1571 - Hymenoptera Apoidea Colletidae, Halictidae, Melittidae, Megachilidae et Anthophoridae (partim)
par Jean LECLERCQ

Rappel : d'autres taxons ont été présentés dans des fascicules antérieurs : cartes 535-550, 601-680 et 1102-1153.

Il faut aussi remercier ici pour leur contribution à notre information, MM. Karel JANSSENS (Antwerpen), Virgilius LEFEBER (Maastricht), Alain PAULY (Gembloux), Jacques PETIT (Wonck) et Lucien VERLINDEN (Antwerpen). Notre reconnaissance va aussi au Dr. Klaus WARNCKE (Dachau) pour la détermination d'une partie de nos récoltes de Colletes, Prosopis et Sphecodes.

Pour la nomenclature du genre Prosopis on a admis la thèse de K. WARNCKE, 1970, Bull. Rech. Agron. Gembloux, 5 : 745-768 et 1977, Mitt. Münch. Ent. Ges., 67 : 39-63.

CARTES 1483 - 1514 Colletidae

1483 - Colletes cunicularius (LINNE)

1484 - Colletes daviesanus SMITH

1485 - Colletes fodiens GEOFFROY

1486 - Colletes hylaeiformis EVERSMANN

1487 - Colletes marginatus SMITH

1488 - Colletes similis SCHENCK

1489 - Colletes succinctus ssp. succinctus (LINNE)

1490 - Colletes succinctus (LINNE) ssp. halophilus VERHOEFF

1491 - Prosopis angustata SCHENCK

1492 - Prosopis annularis (KIRBY)

1493 - Prosopis bifasciata JURINE

1494 - Prosopis bisinuata (FÖRSTER)

1495 - Prosopis brevicornis (NYLANDER)

1496 - Prosopis clypearis SCHENCK

1497 - Prosopis communis (NYLANDER)

- 1498 - *Prosopis conformis* (FÖRSTER)
 1499 - *Prosopis confusa* (NYLANDER)
 1500 - *Prosopis cornuta* (CURTIS)
 1501 - *Prosopis difformis* EVERSMANN
 1502 - *Prosopis gibba* (SAUNDERS)
 1503 - *Prosopis gracilicornis* MORAWITZ
 1504 - *Prosopis hyalinata* (SMITH)
 1505 - *Prosopis nigrita* (FABRICIUS)
 1506 - *Prosopis pectoralis* (FÖRSTER)
 1507 - *Prosopis pictipes* (NYLANDER)
 1508 - *Prosopis punctulatissima* (SMITH)
 1509 - *Prosopis rinkii* GORSKI
 1510 - *Prosopis signata* (PANZER) (*bipunctata* FABRICIUS, *pratensis*
 GEOFFROY)
 1511 - *Prosopis sinuata* SCHENCK (*minuta* FABRICIUS)
 1512 - *Prosopis styriaca* (FÖRSTER)
 1513 - *Prosopis variegata* (FABRICIUS)
- 1514 - Somme des données concernant les Colletidae
 (cartes 1483 à 1513)

CARTES 1515 - 1539 Halictidae

- 1515 - *Sphecodes albilabris* (KIRBY)
 1516 - *Sphecodes crassus* THOMSON
 1517 - *Sphecodes ephippius* (LINNE)
 1518 - *Sphecodes ferruginatus* HAGEN
 1519 - *Sphecodes geoffrellus* (KIRBY) (*fasciatus* HAGEN)
 1520 - *Sphecodes gibbus* (LINNE)
 1521 - *Sphecodes hyalinatus* HAGEN
 1522 - *Sphecodes longulus* HAGEN
 1523 - *Sphecodes marginatus* HAGEN
 1524 - *Sphecodes miniatus* HAGEN
 1525 - *Sphecodes monilicornis* (KIRBY)
 1526 - *Sphecodes niger* HAGEN

- 1527 - *Sphecodes pellucidus* SMITH
- 1528 - *Sphecodes puncticeps* THOMSON
- 1529 - *Sphecodes reticulatus* THOMSON
- 1530 - *Sphecodes rubicundus* HAGEN
- 1531 - *Sphecodes rufiventris* (PANZER)
- 1532 - *Sphecodes scabricollis* WESMAEL
- 1533 - *Sphecodes spinulosus* HAGEN
- 1534 - *Dufourea* (*Dufourea*) *halictula* NYLANDER
- 1535 - *Dufourea* (*Dufourea*) *vulgaris* SCHENCK
- 1536 - *Dufourea* (*Halictoides*) *dentiventris* (NYLANDER)
- 1537 - *Dufourea* (*Halictoides*) *inermis* (NYLANDER)
- 1538 - *Rophites quenquespinosus* SPINOLA
- 1539 - *Rhophitoides canus* (EVERSMANN)

CARTES 1540 - 1544 Melittidae

- 1540 - *Melitta haemorrhoidalis* (FABRICIUS)
- 1541 - *Melitta leporina* (PANZER)
- 1542 - *Melitta nigricans* ALFKEN
- 1543 - *Melitta tricincta* KIRBY
- 1544 - *Dasypoda hirtipes* (FABRICIUS)

CARTES 1545 - 1564 Megachilidae

- 1545 - *Trachusa byssina* (PANZER)
- 1546 - *Anthidium lituratum* (PANZER)
- 1547 - *Anthidium manicatum* (LINNE)
- 1548 - *Anthidium oblongatum* LATREILLE
- 1549 - *Anthidium punctatum* LATREILLE
- 1550 - *Anthidiellum strigatum* (PANZER)
- 1551 - *Stelis breviscula* (NYLANDER)
- 1552 - *Stelis minima* SCHENCK
- 1553 - *Stelis minuta* LEPELETIER & SERVILLE
- 1554 - *Stelis odontopyga* NOSKIEWICZ
- 1555 - *Stelis ornata* (KLUG)
- 1556 - *Stelis phaeoptera* (KIRBY)

BEQUAERT, J. & LECLERCQ, M., 1947, Bull. Ann. Soc. Ent. Belg. 83: 77-84; BERNARD, J. & BIESMANS, W., 1975, Bull. Ann. Soc. r. belg. Ent. 111: 71-95; COLLART, A., 1944, Les Naturalistes Belges, pp. 40-43, 50-52, 1948, La Vie Rustique 1 : 13-15; GREGOIRE, C., KOCH, H., DEBERDT, A. & LATTEUR, J.P., 1952, Ann. Méd. vét. 96: 52-140; LECLERCQ, M., 1946, Entomologist's mon. Mag. 82: 245, 1948, Bull. Mus. r. Hist. Nat. Belg. 24: 1-11, 1948, Bull. Ann. Soc. Ent. Belg. 83: 144-145, 1949, idem 85: 207-208, 1949, Rev. Med. Liège 4: 296-301, Bull. Ann. Soc. Ent. Belg. 88: 219, 1955, Rev. Agric. (Bruxelles) 8: 1-12, 1962, Bull. Inst. Agron. & Sta. Rech. Gembloux 30: 286-292, 1971, Les Mouches nuisibles aux Animaux domestiques. Un problème mondial, Presses Agron. Gembloux, 199 pp., 1977, Bull. Ann. Soc. r. belge Ent. 113: 246-247; LECLERCQ, M. & DOUCET, J., Bull. Ann. Soc. r. belge Ent. 114: 97-98; LECLERCQ, M., LETAWE-GENIN, J., 1976, Spectrum International 19: 2-5; MARECHAL, P. & PETIT, J., 1955, Lambillionea 55: 18, 1957, idem 57: 60, 1961, 61: 63.

En outre les données enregistrées ultérieurement dans le Fichier de Gembloux.

N.B. - Pour la plupart de ces parasites, la répartition réelle est incontestablement plus vaste que ce que les carrés marqués sur nos cartes suggèrent. C'est vrai notamment pour les Gasterophilus parasites des Chevaux, des Hypoderma des Bovidés, des Oestrides des Moutons et des Cervidés. En fait on ne dispose guère d'informations précises sur la provenance des espèces trouvées à l'état larvaire notamment dans les abattoirs et lors d'autres inspections vétérinaires. Une partie importante des localités que nous avons notées est connue grâce à la capture de mouches adultes, mais il faut rappeler que les adultes de ces parasites ont un vol très rapide et sont difficilement capturés.

CARTES 1575 - 1577 Gasterophilidae

1575 - Gasterophilus haemorrhoidalis LINNE

1576 - *Gasterophilus intestinalis* De GEER

1577 - *Gasterophilus pecorum* FABRICIUS

CARTES 1578 - 1587 Hippoboscidae

Nomenclature selon T.C. MAA, 1963, "Genera and species of Hippoboscidae (Diptera) : types, synonymy, habitats and natural groupings (Pacific Insects Monographs, 6, 186 pp.).

1578 - *Hippobosca equina* LINNE

1579 - *Lipoptena cervi* LINNE

1580 - *Melophagus ovinus* LINNE

1581 - *Crataerina (Stenopteryx) hirundinus* LINNE

1582 - *Crataerina (Crataerina) pallida* LATREILLE

1583 - *Ornithoica turdi* LATREILLE

1584 - *Ornithomya avicularia* LINNE

1585 - *Ornithomya biloba* DUFOR

1586 - *Ornithomya chloropus* BERGROTH (*lagopodis* SHARP)

1587 - *Ornithomya fringillina* CURTIS

CARTES 1588 - 1593 Oestridae

1588 - *Hypoderma bovis* LINNE

1589 - *Hypoderma diana* BRAUER

1590 - *Hypoderma lineatum* de VILLERS

1591 - *Oestrus ovis* LINNE

1592 - *Cephenemyia stimulator* CLARK

1593 - *Pharyngomyia picta* MEIGEN

1594 - *Somme des données concernant les Diptères Gasterophilidae, Hippoboscidae et Oestridae (cartes 1575 à 1593)*

CARTES 1595 à 1639 - Coleoptera Pselaphidae par Jean-Paul SMEEKENS

Classification de C. BESUCHET in H. FREUDE, K. HARDE, G.B. LOHSE
"Die Käfer Mitteleuropas".

1595 - *Amauronyx maerkeli* (AUBE)

- 1596 - *Batrisodes oculatus* (AUBE)
1597 - *Rybaxis longicornis* (LEACH)
1598 - *Biblopectus ambiguus* (REICHENBACH)
1599 - *Biblopectus minutissimus* (AUBE)
1600 - *Biblopectus tenebrosus* (REITTER)
1601 - *Bibloporus bicolor* (DENNY)
1602 - *Bibloporus minutus* RAFFRAY
1603 - *Brachygluta simplex* (WATERHOUSE) (*depressa* AUBE)
1604 - *Brachygluta fossulata* (REICHENBACH)
1605 - *Brachygluta guillemardi* (SAULCY)
1606 - *Brachygluta haemastica* (REICHENBACH)
1607 - *Brachygluta helferi* (SCHMIDT-GOEBEL)
1608 - *Brachygluta perforata* (AUBE)
1609 - *Brachygluta xanthoptera* (REICHENBACH)
1610 - *Bryaxis laminata* (MOTSCHOULSKY)
1611 - *Bryaxis bulbifer* (REICHENBACH)
1612 - *Bryaxis carinula* (REY)
1613 - *Bryaxis clavicornis* (PANZER)
1614 - *Bryaxis curtisi* (LEACH)
1615 - *Bryaxis puncticollis* (DENNY) (*incl. f. validus* AUBE)
1616 - *Bythinus burelli* DENNY
1617 - *Bythinus macropalpus* AUBE
1618 - *Claviger longicornis* MULLER
1619 - *Claviger testaceus* PREYSSLER
1620 - *Euplectus brunneus* GRIMMER
1621 - *Euplectus decipiens* RAFFRAY
1622 - *Euplectus falsus* BEDEL
1623 - *Euplectus karsteni* (REICHENBACH)
1624 - *Euplectus nanus* (REICHENBACH)
1625 - *Euplectus piceus* MOTSCHOULSKY
1626 - *Euplectus sanguineus* DENNY
1627 - *Euplectus signatus* (REICHENBACH)
1628 - *Plectophloeus erichsoni* (AUBE)
1629 - *Plectophloeus fischeri* (AUBE)
1630 - *Plectophloeus nubigena* (REITTER)

- 1631 - Pselaphaulax dresdensis (HERBST)
- 1632 - Pselaphus heisei HERBST
- 1633 - Reichenbachia juncorum LEACH
- 1634 - Tychobythinus belgicus (JEANNEL)
- 1635 - Trichonyx sulcicollis (REICHENBACH)
- 1636 - Trimum brevicorne (REICHENBACH)
- 1637 - Trissemus impressus (PANZER)
- 1638 - Tychus niger (PAYKULL)

- 1639 - Somme des données concernant les Coléoptères Pselaphidae
(cartes 1595 à 1638)

CARTES 1640 à 1645 - Coleoptera Curculionidae par Charles VERSTRAETEN et
Guy BOOSTEN

Classification de G.S. KLOET & W.D. HINCKS "A Check List of
British Insects" et A. HOFFMANN "Faune de France : Coléoptères
Curculionides"

- 1640 - Otiorrhynchus raucus (F.)
- 1641 - Otiorrhynchus porcatus (HERBST)
- 1642 - Phyllobius argentatus (L.)
- 1643 - Phyllobius calcaratus (F.)
- 1644 - Sciaphilus asperatus (BONSDORFF)
- 1645 - Mecaspis alternans (HERBST)

R A P P E L
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Pour noter la présence des espèces dans les divisions du quadril-
lage U.T.M., trois symboles sont utilisés :

données bibliographiques, les auteurs de la carte n'ont pas vu le
matériel correspondant; presque toujours: observations anté-
rieures à 1940 ;

R A P P E L

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Pour noter la présence des espèces dans les divisions du quadrillage U.T.M., trois symboles sont utilisés :



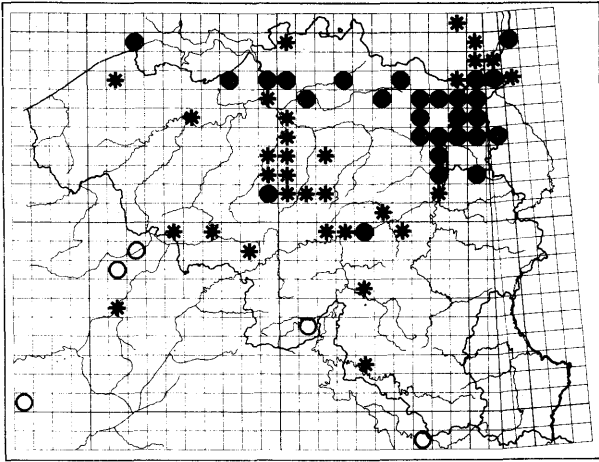
données bibliographiques, les auteurs de la carte n'ont pas vu le matériel correspondant; presque toujours: observations antérieures à 1940;



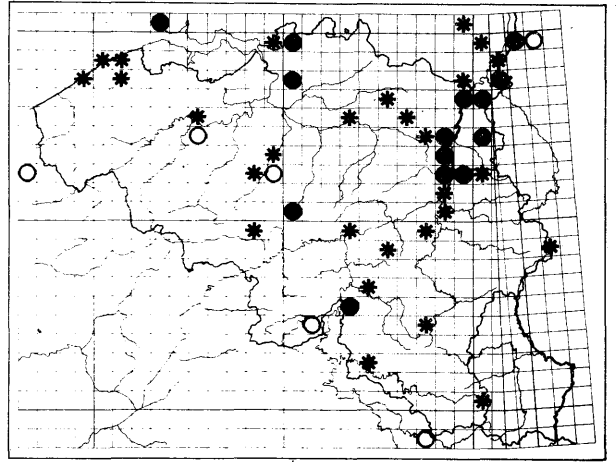
captures ou observations antérieures à 1950, publiées ou non, mais certifiées exactes par les auteurs de la carte;



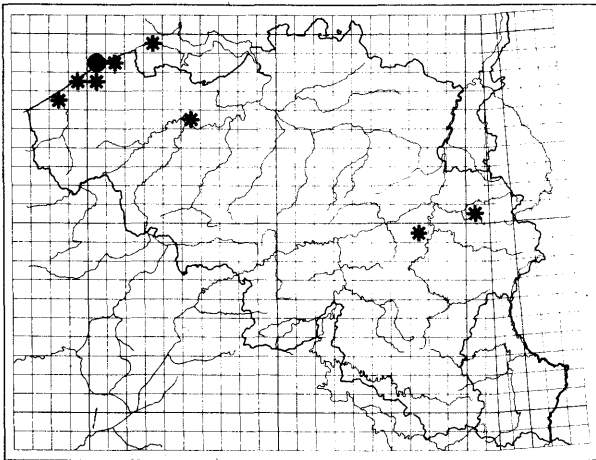
captures ou observations à partir de 1950, publiées ou non, mais certifiées exactes par les auteurs de la carte.



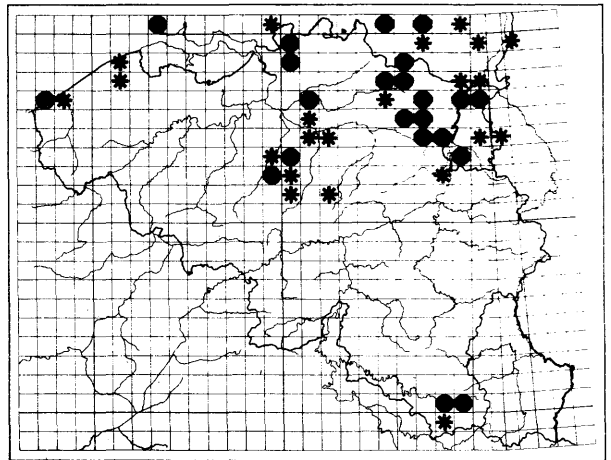
1401 — *Podalonia affinis* (KIRBY)



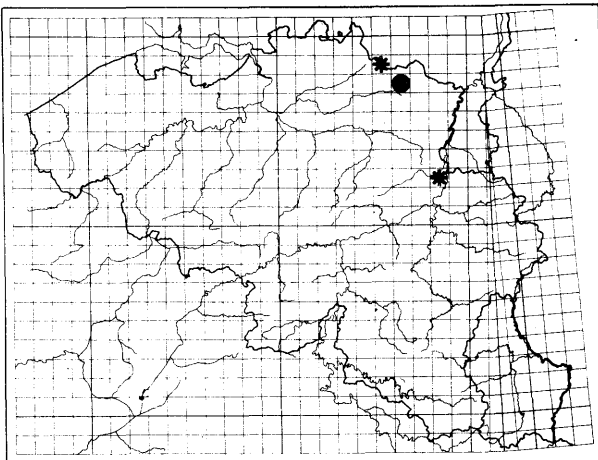
1402 — *Podalonia hirsuta* (SCOPOLI)



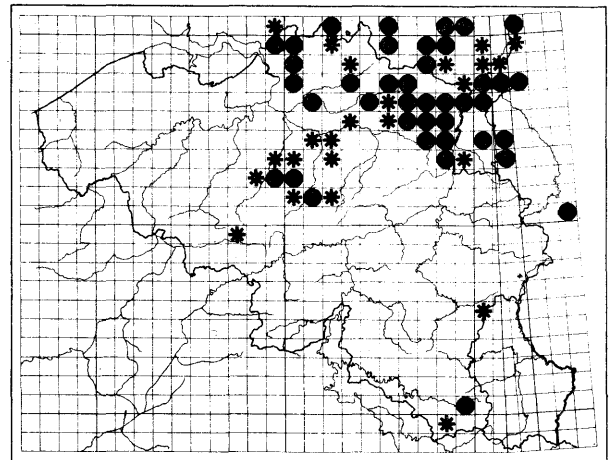
1403 — *Podalonia luffi* (SAUNDERS)



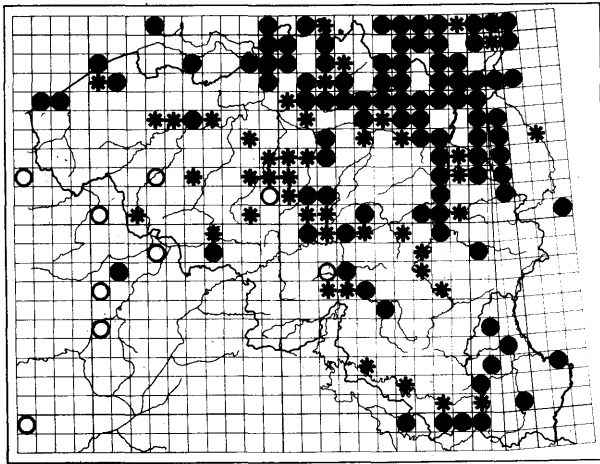
1404 — *Ammophila campestris* LATREILLE



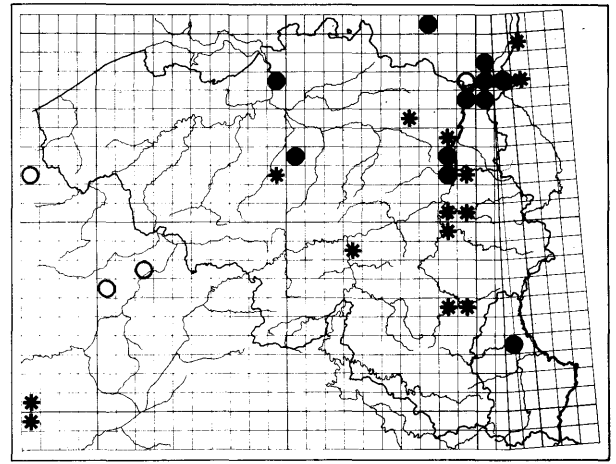
1405 — *Ammophila hungarica* MOCSARY



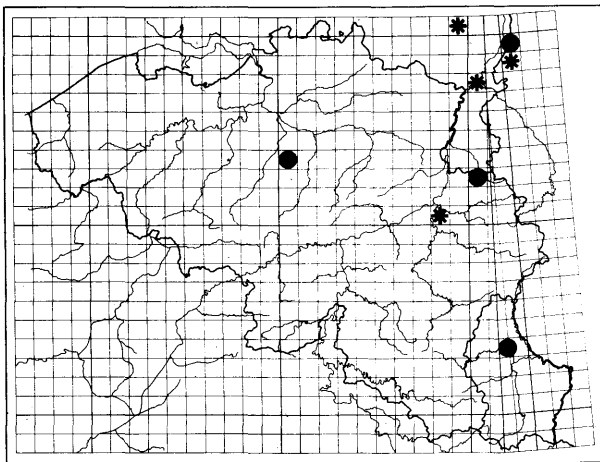
1406 — *Ammophila pubescens* CURTIS



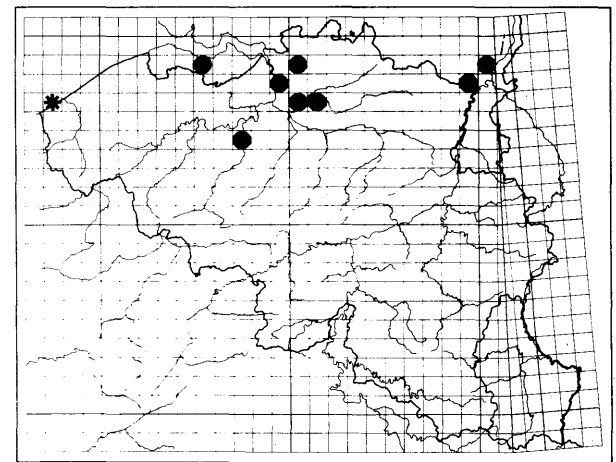
1407 — *Ammophila sabulosa* (LINNE)



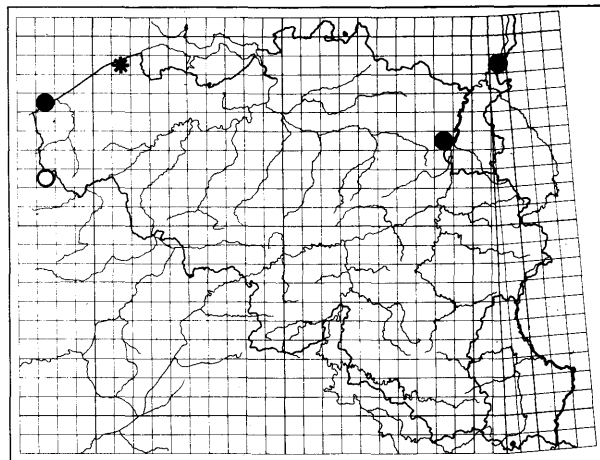
1408 — *Astata boops* (SCHRANK)



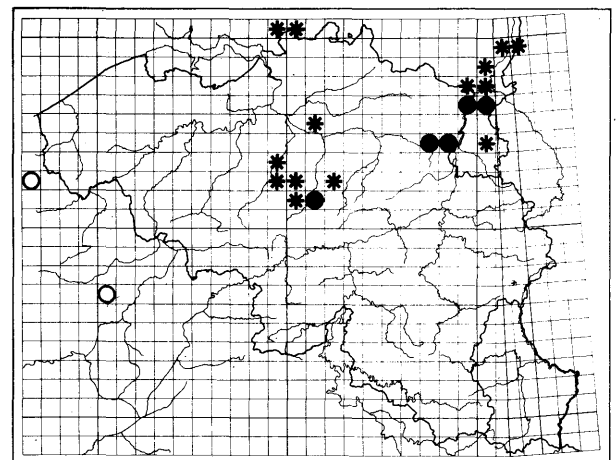
1409 — *Astata minor* KOHL



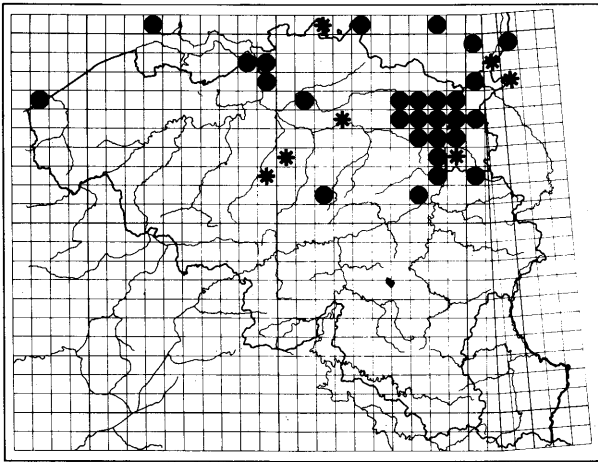
1410 — *Dryudella pinguis* (DAHLBOM)



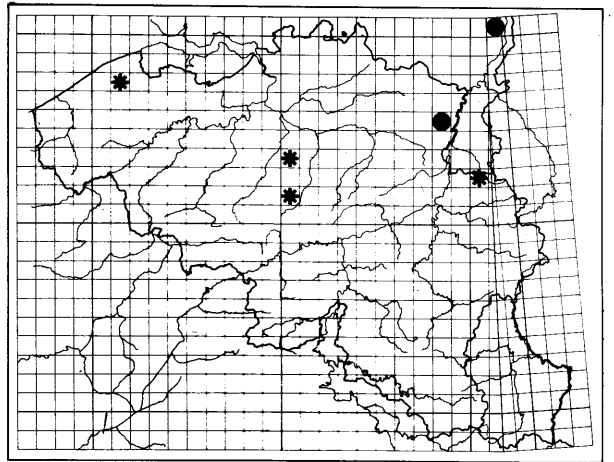
1411 — *Dryudella stigma* (PANZER)



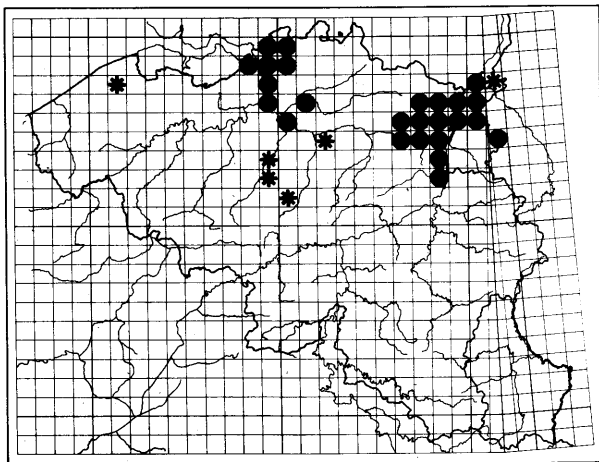
1412 — *Dinetus pictus* (FABRICIUS)



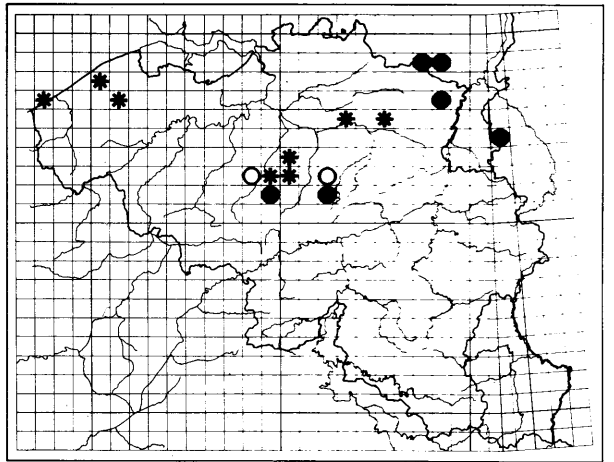
1413 — *Miscophus ater* LEPELETIER



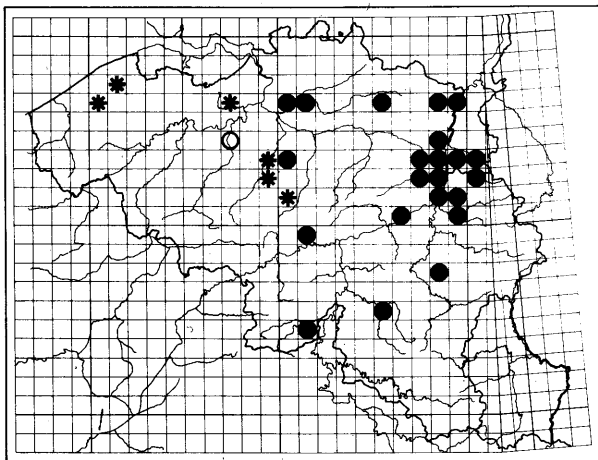
1414 — *Miscophus bicolor* JURINE



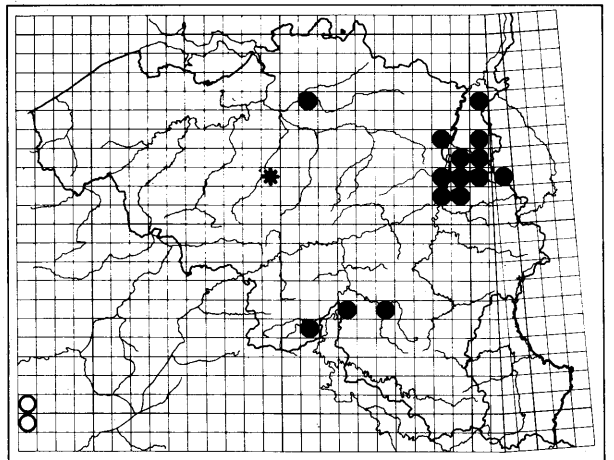
1415 — *Miscophus concolor* DAHLBOM



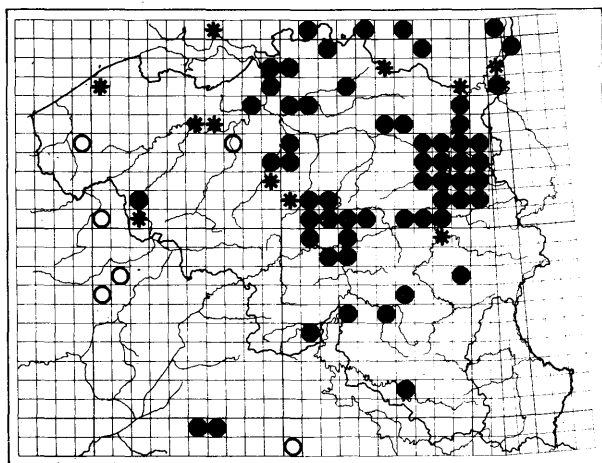
1416 — *Miscophus spurius* (DAHLBOM)



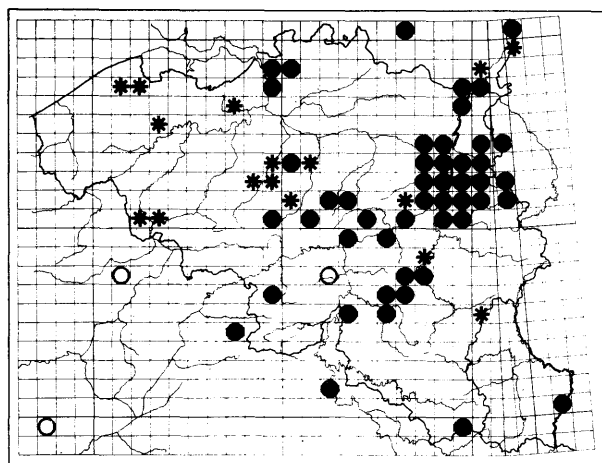
1417 — *Nitela borealis* VALKEILA



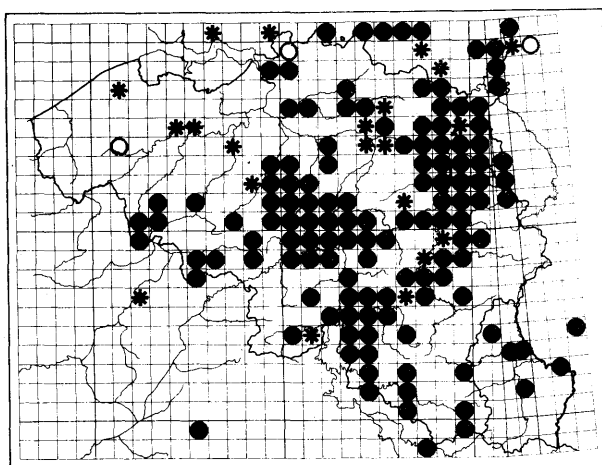
1418 — *Nitela spinolae* LATREILLE



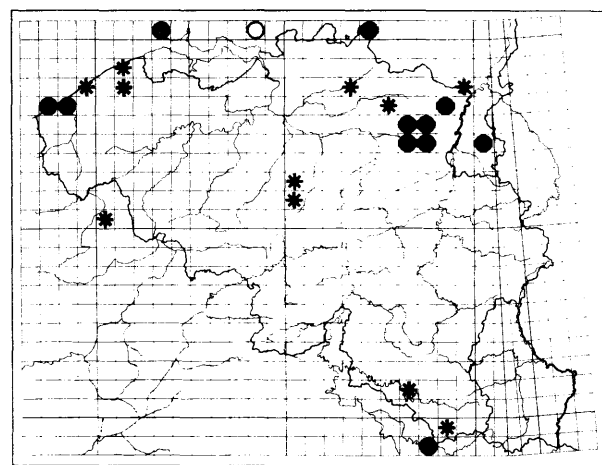
1419 — *Trypoxylon attenuatum* SMITH



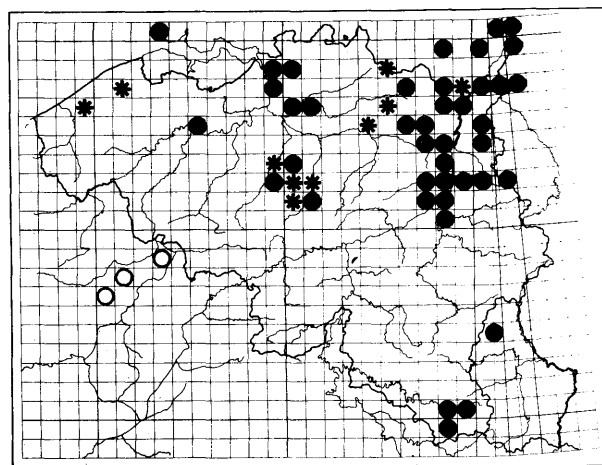
1420 — *Trypoxylon clavicerum* LEPELTIER & SERVILE



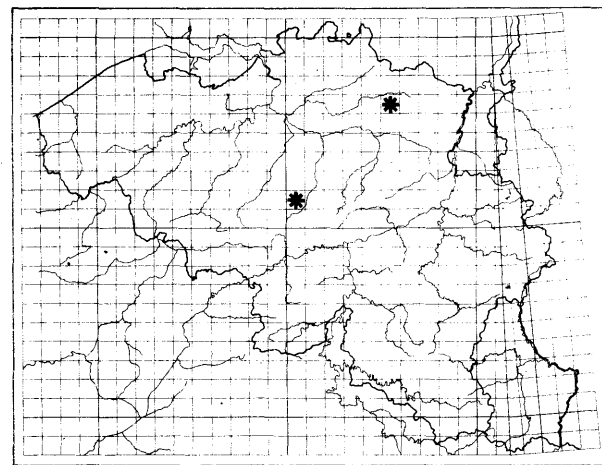
1421 — *Trypoxylon figulus* (LINNE)



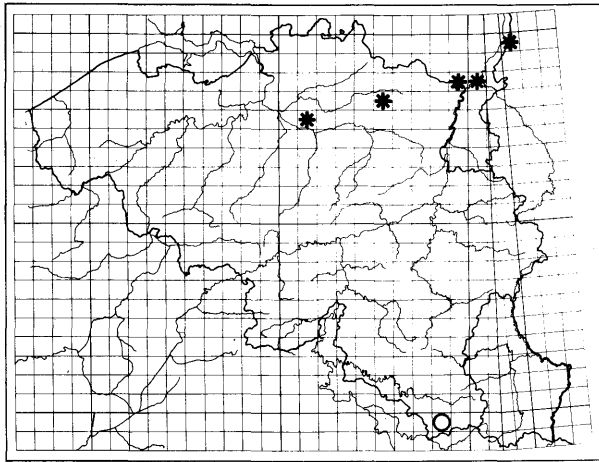
1422 — *Oxybelus argentatus* CURTIS



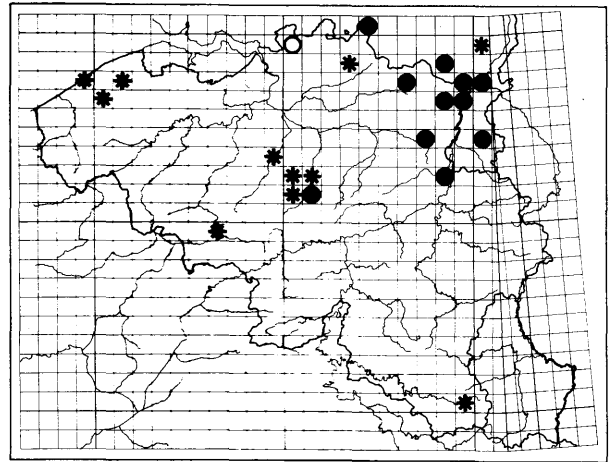
1423 — *Oxybelus bipunctatus* OLIVIER



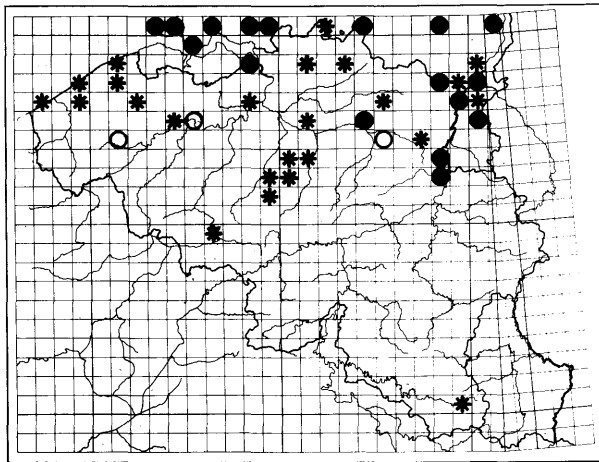
1424 — *Oxybelus latro* OLIVIER



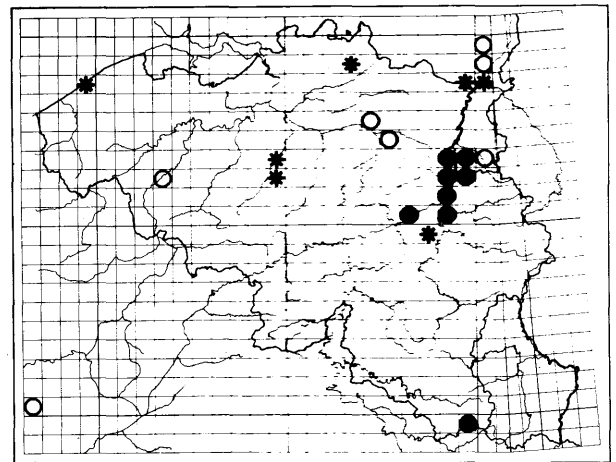
1425 — *Oxybelus lineatus* (FABRICIUS)



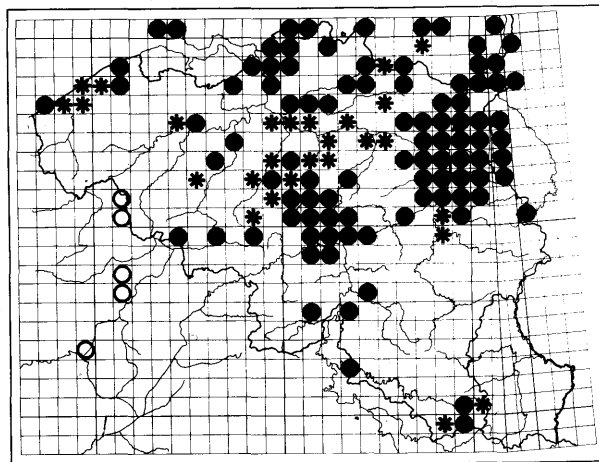
1426 — *Oxybelus mandibularis* DAHLBOM



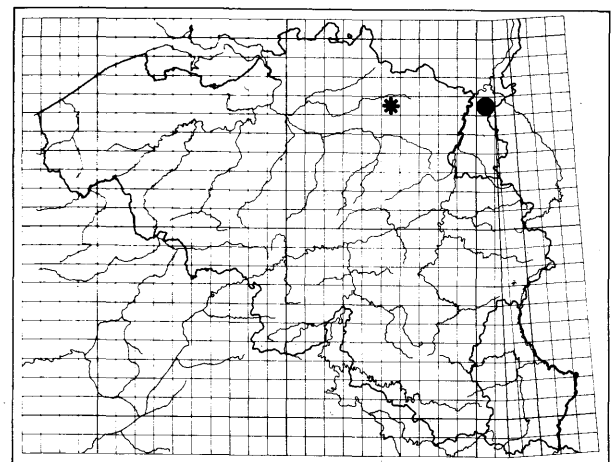
1427 — *Oxybelus quattuordecimnotatus* JURINE



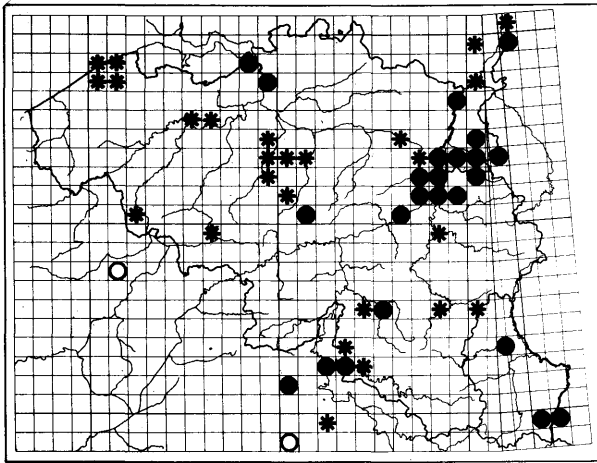
1428 — *Oxybelus trispinosus* (FABRICIUS)



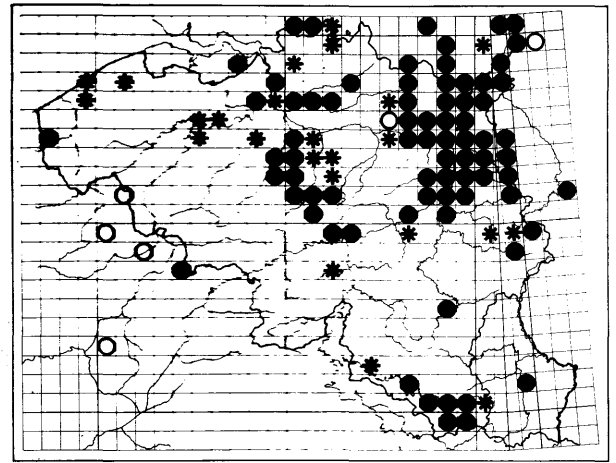
1429 — *Oxybelus uniglumis* (LINNE)



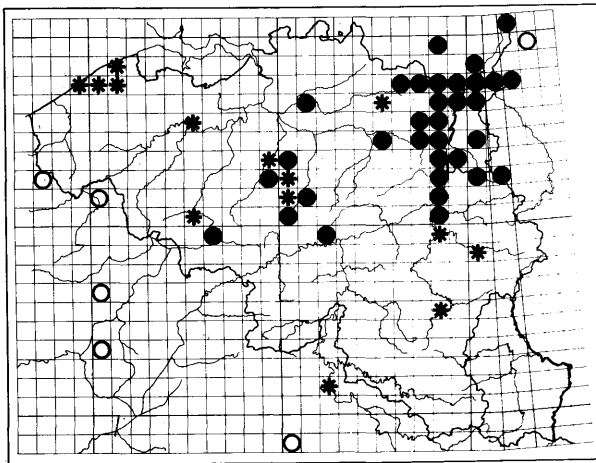
1430 — *Oxybelus victor* ssp. *victor* LEPELETIER



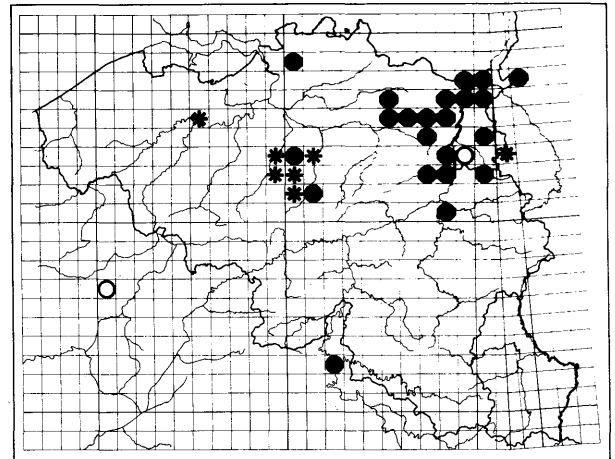
1431 — *Entomognathus brevis* (VANDER LINDEN)



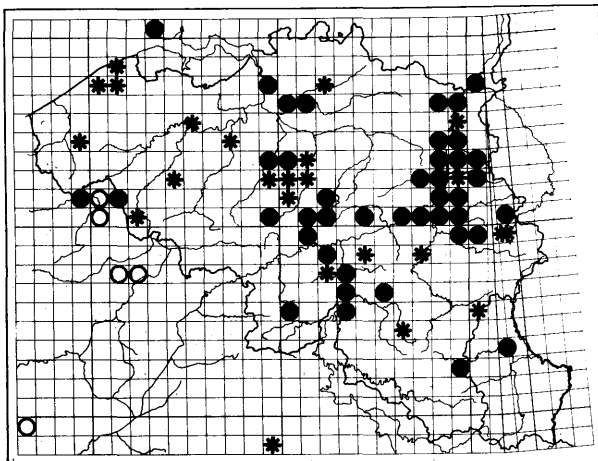
1432 — *Lindenius albilabris* (FABRICIUS)



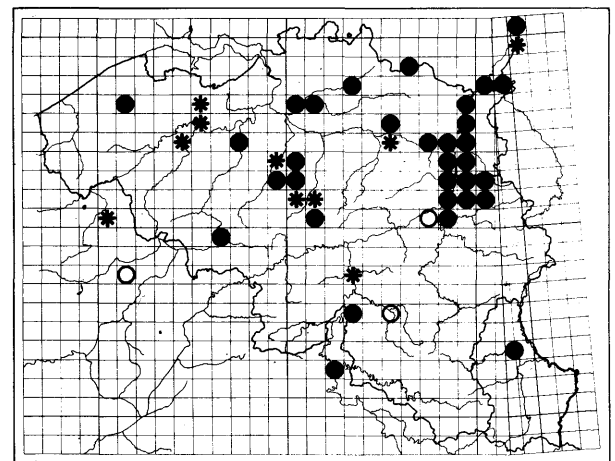
1433 — *Lindenius panzeri* (VANDER LINDEN)



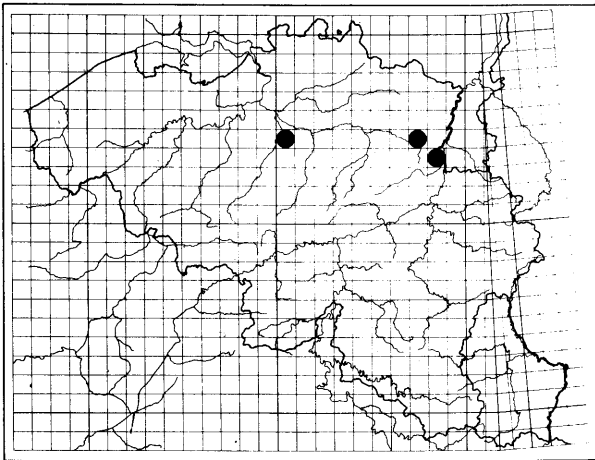
1434 — *Lindenius pygmaeus* (ROSSI)
ssp. *armatus* (VANDER LINDEN)



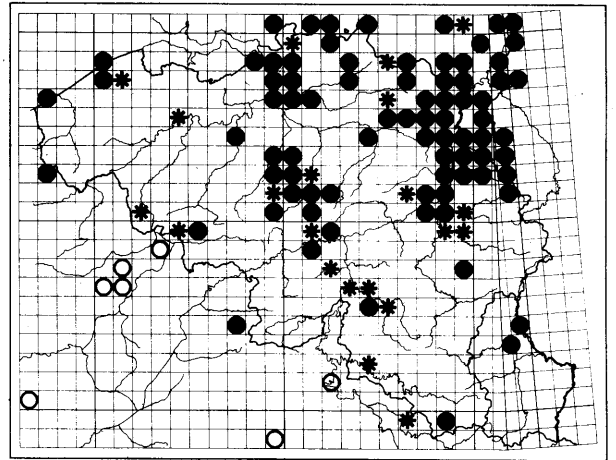
1435 — *Rhopalum clavipes* (LINNE)



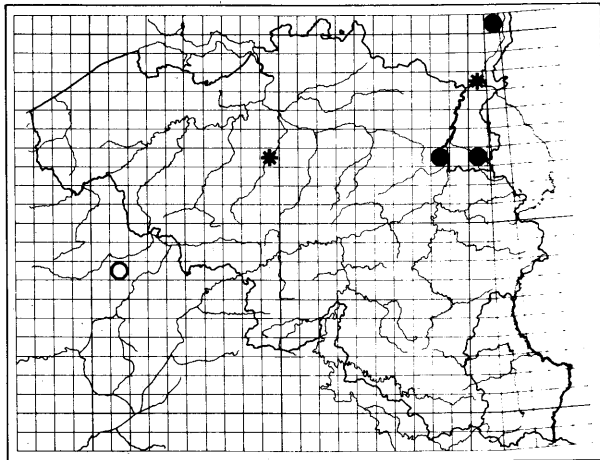
1436 — *Rhopalum coarctatum* (SCOPOLI)



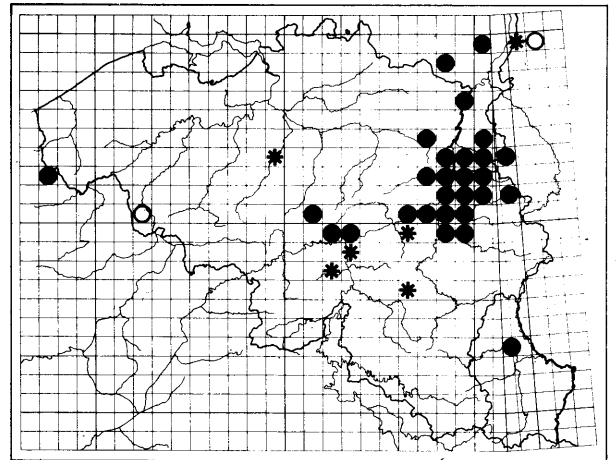
1437 — *Rhopalum gracile* WESMAEL



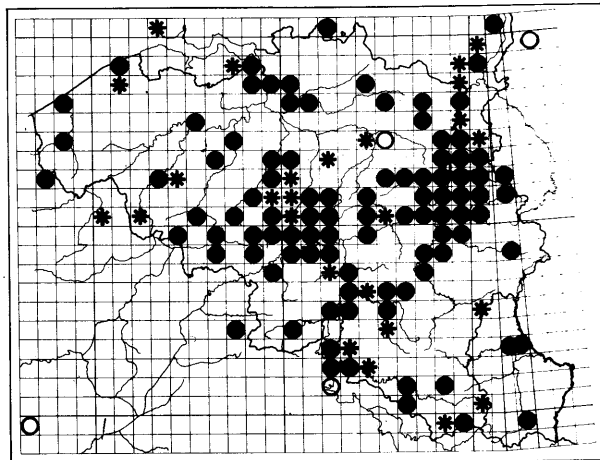
1438 — *Crossocerus (Hoplocabro) quadrimaculatus* (FABRICIUS)



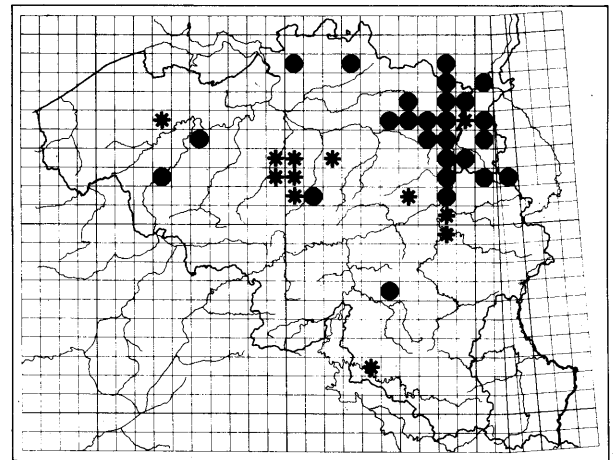
1439 — *Crossocerus (Crossocerus) denticus* HERRICH SCHAEFFER



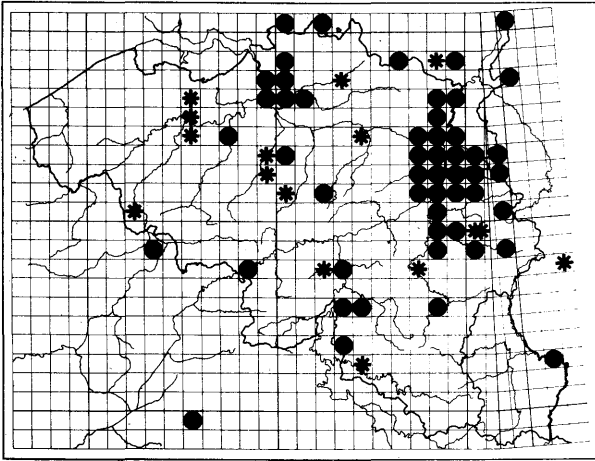
1440 — *Crossocerus (Crossocerus) distinguendus* (MORAWITZ)



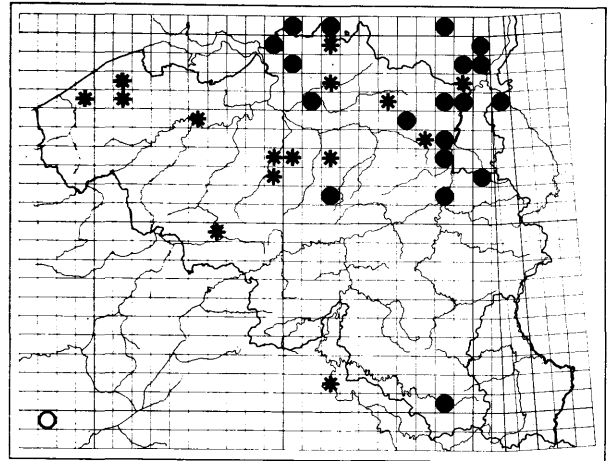
1441 — *Crossocerus (Crossocerus) elongatulus* (VANDER LINDEN)



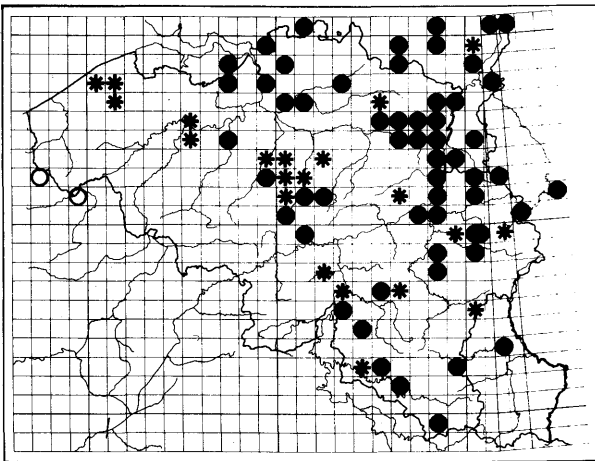
1442 — *Crossocerus (Crossocerus) exiguus* (VANDER LINDEN)



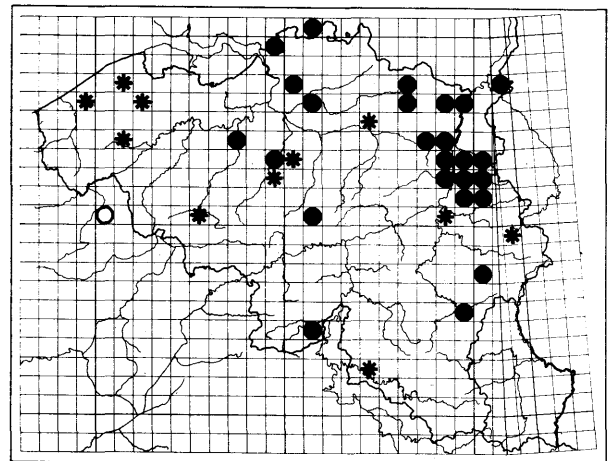
1443 — *Crossocerus (Crossocerus) ovalis*
LEPELETIER & BRULLE



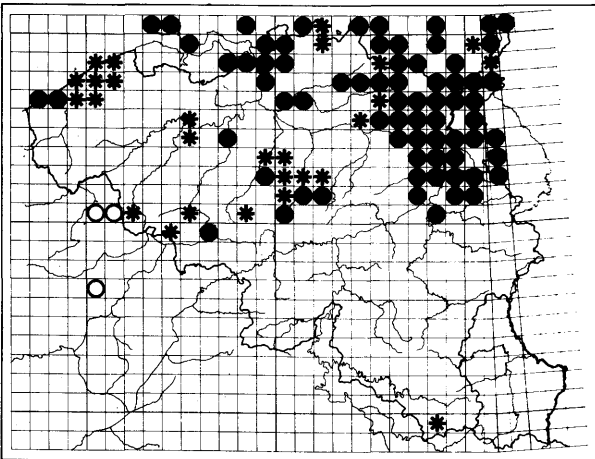
1444 — *Crossocerus (Crossocerus) palmipes* (LINNE)



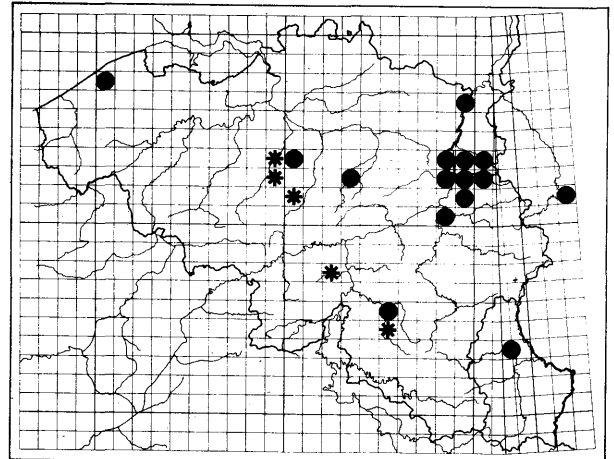
1445 — *Crossocerus (Crossocerus) pusillus*
LEPELETIER & BRULLE



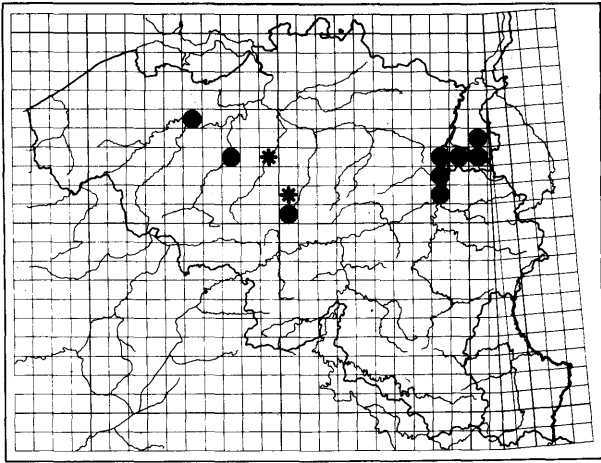
1446 — *Crossocerus (Crossocerus) tarsatus*
(SHUCKARD)



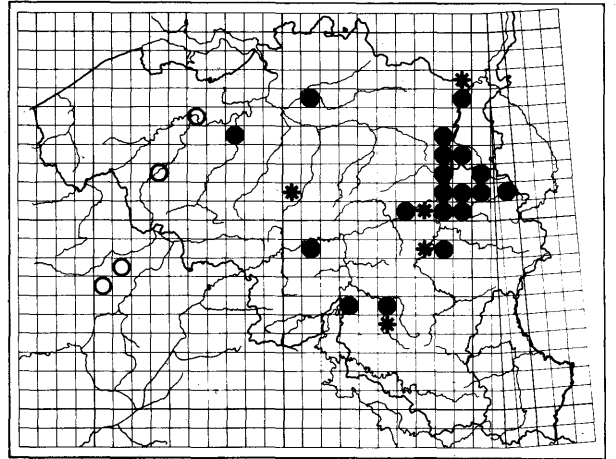
1447 — *Crossocerus (Crossocerus) wesmaeli*
(VANDER LINDEN)



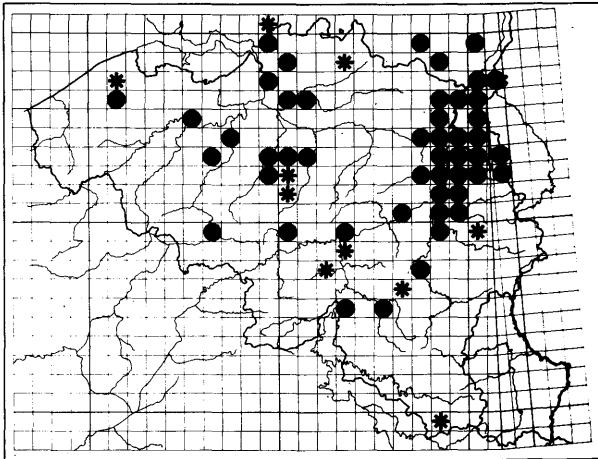
1448 — *Crossocerus (Ablepharipus) assimilis* (SMITH)



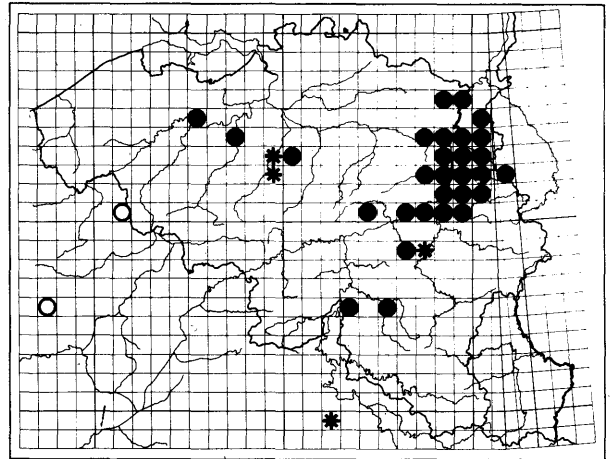
1449 — *Crossocerus (Ablepharipus) congener*
(DAHLBOM)



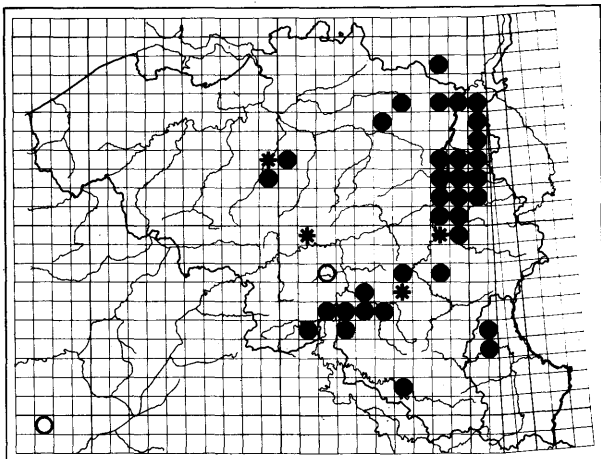
1450 — *Crossocerus (Ablepharipus) podagricus*
(VANDER LINDEN)



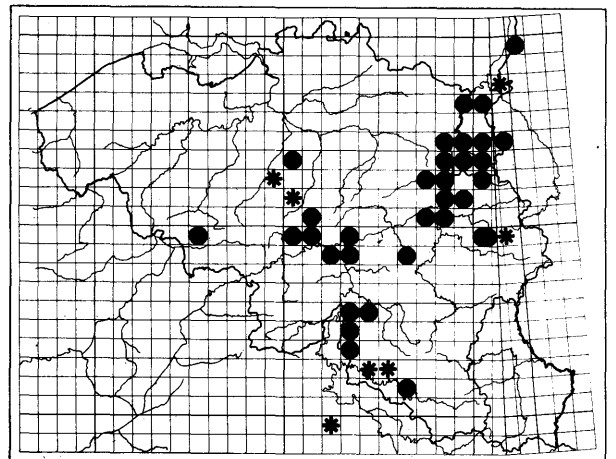
1451 — *Crossocerus (Blepharipus) annulipes*
(LEPELETIER & BRULLE)



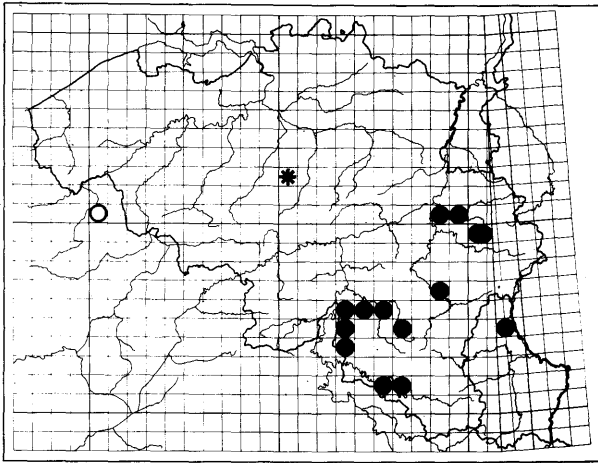
1452 — *Crossocerus (Blepharipus) capitatus* (SHUCKARD)



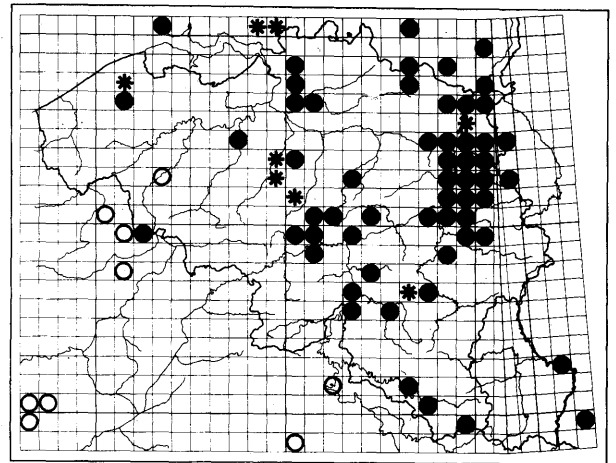
1453 — *Crossocerus (Blepharipus) cetratus* (SHUCKARD)



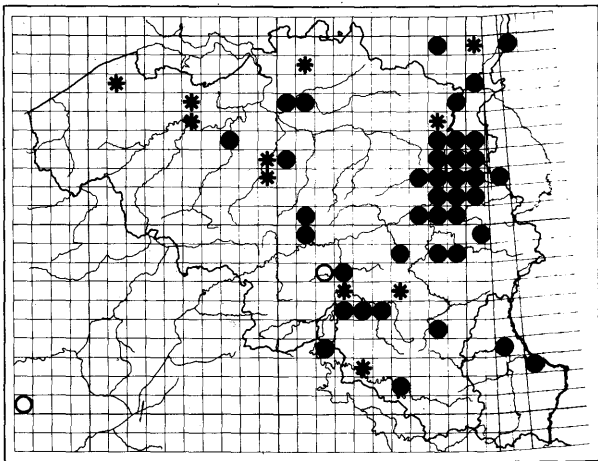
1454 — *Crossocerus (Blepharipus) cinxius* (DAHLBOM)



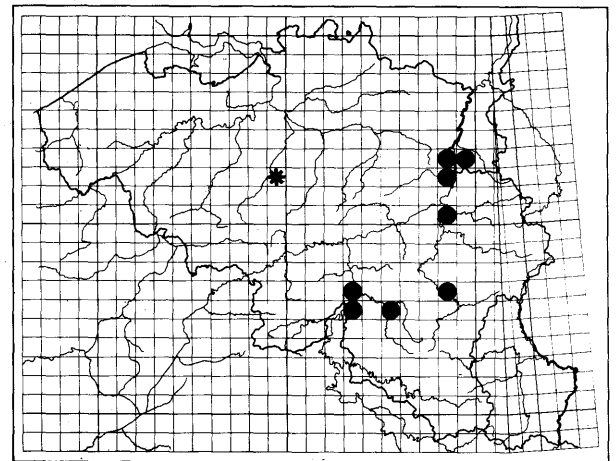
1455 — *Crossocerus (Blepharipus) leucostoma* (LINNE)



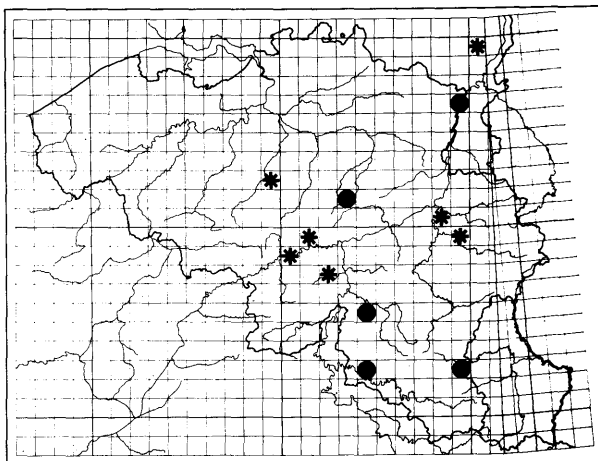
1456 — *Crossocerus (Blepharipus) megacephalus* (ROSSI)



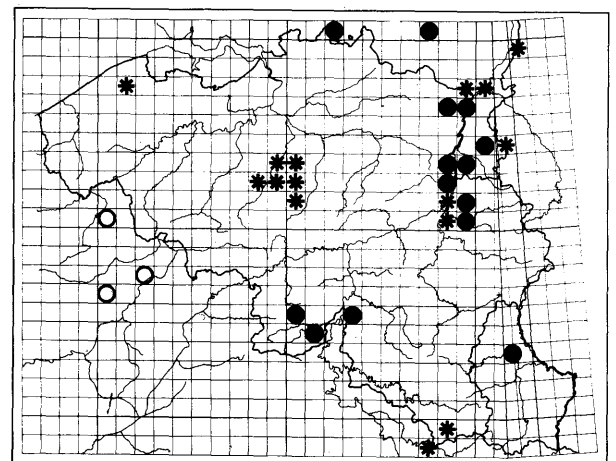
1457 — *Crossocerus (Blepharipus) nigrinus*
LEPELETIER & BRULLE



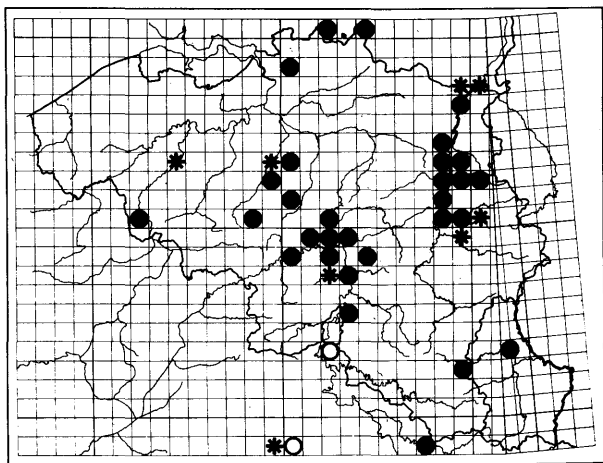
1458 — *Crossocerus (Blepharipus) styrius* (KOHL)



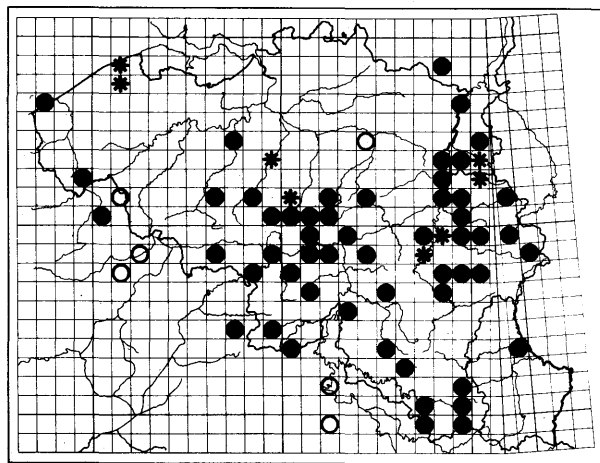
1459 — *Crossocerus (Blepharipus) walkeri* (SHUCKARD)



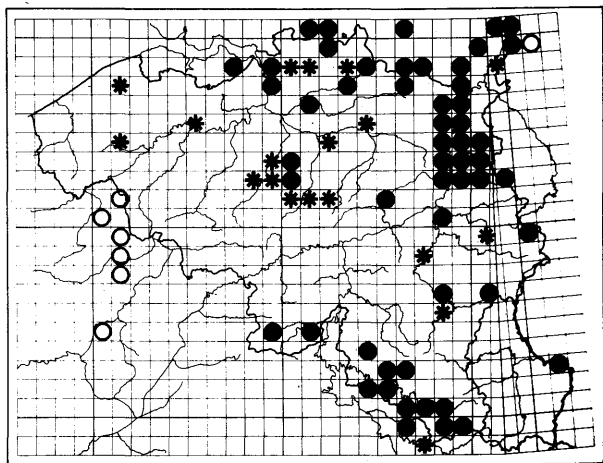
1460 — *Crossocerus (Acanthocrabro) vagabundus* (PANZER)



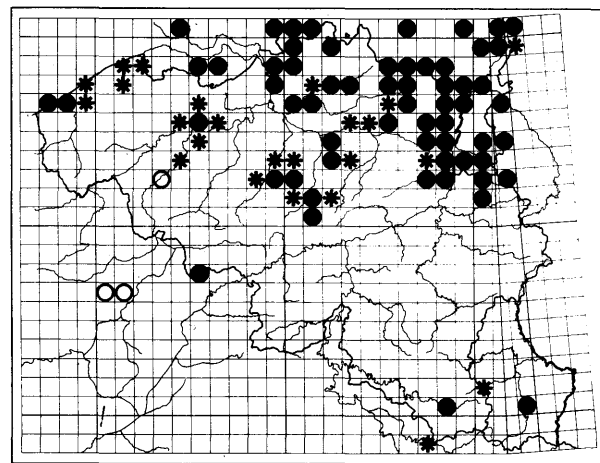
1461 — *Crossocerus (Cuphocterus) binotatus*
LEPELETIER & BRULLE



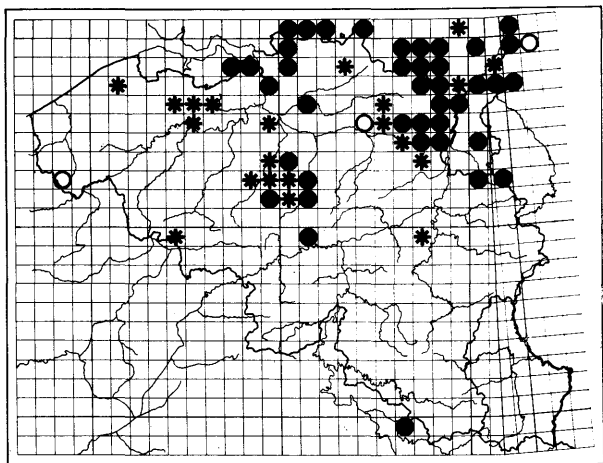
1462 — *Crossocerus (Cuphocterus) dimidiatus* (FABRICIUS)



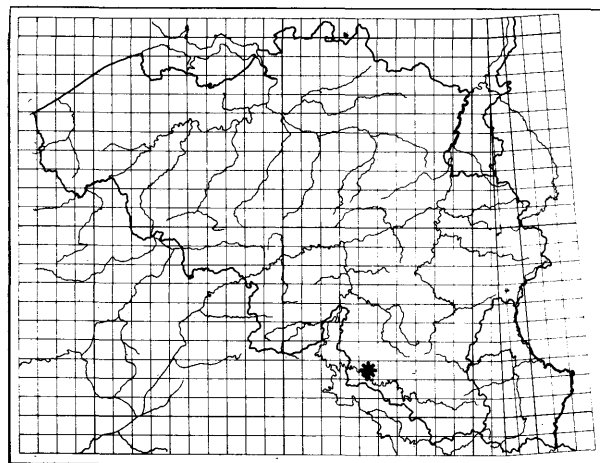
1463 — *Crabro cribrarius* (LINNE)



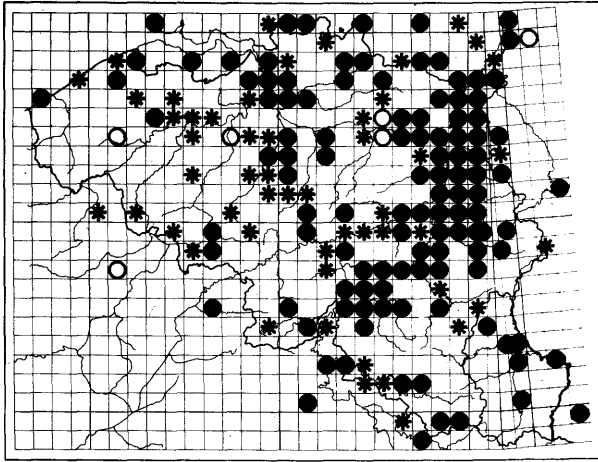
1464 — *Crabro peltarius* (SCHREBER)



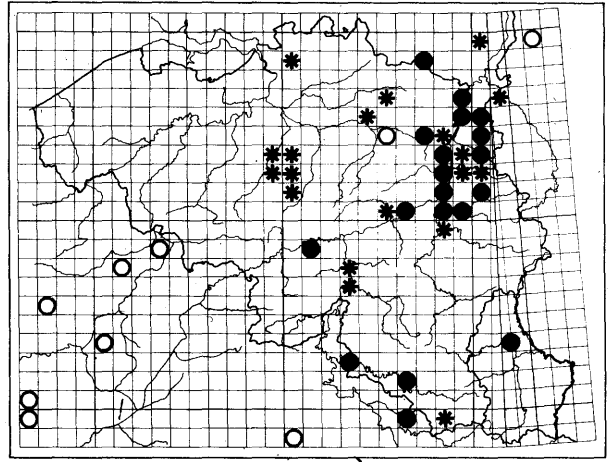
1465 — *Crabro scutellatus* (SCHEVEN)



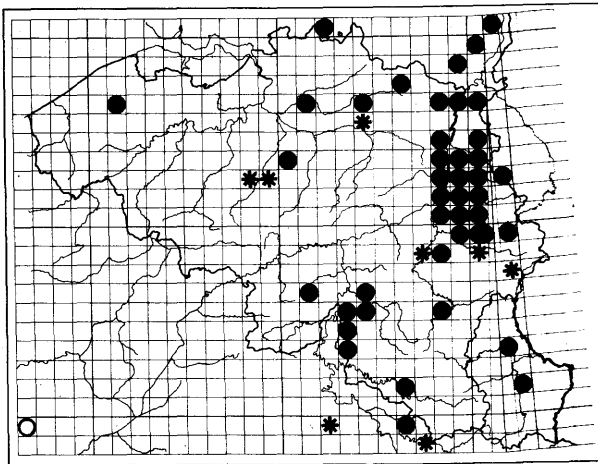
1466 — *Ectemnius (Cameronitus) nigratarsus*
(HERRICH - SCHAEFFER)



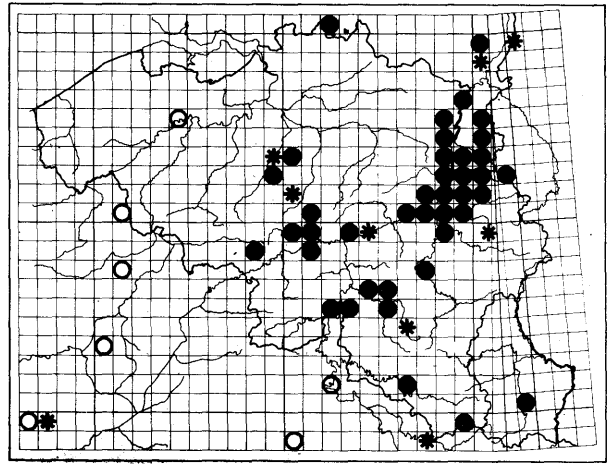
1467 — *Ectemnius (Hypocraebro) continuus* (FABRICIUS)



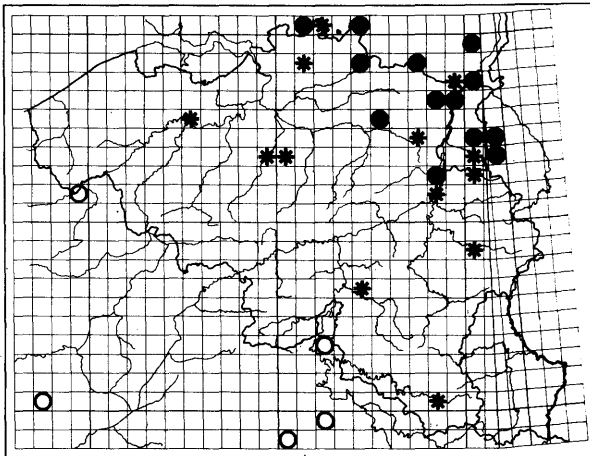
1468 — *Ectemnius (Hypocraebro) rubicola*
(DUFOUR & PERRIS)



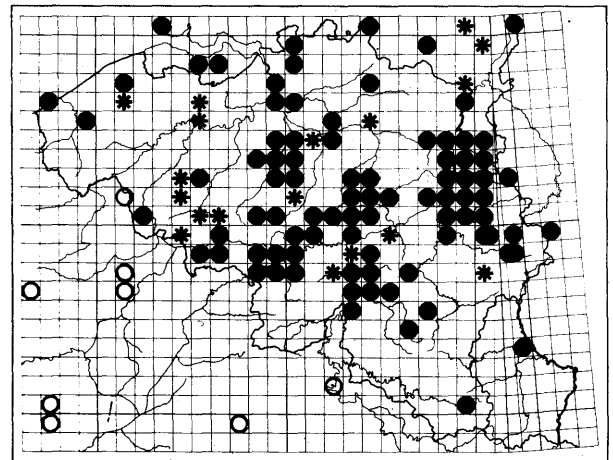
1469 — *Ectemnius (Ectemnius) borealis* (ZETTERSTEDT)



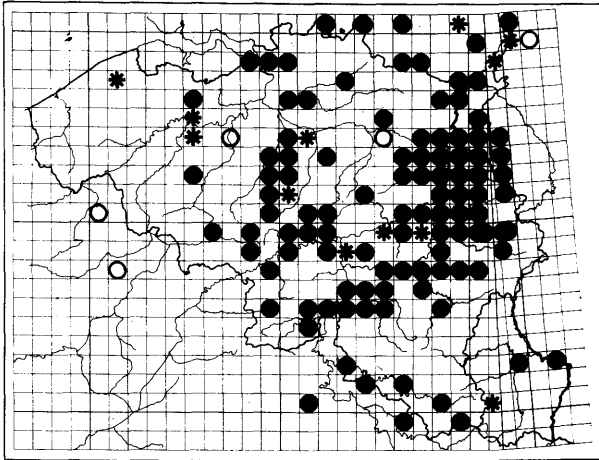
1470 — *Ectemnius (Ectemnius) dives*
(LEPELETIER & BRULLE)



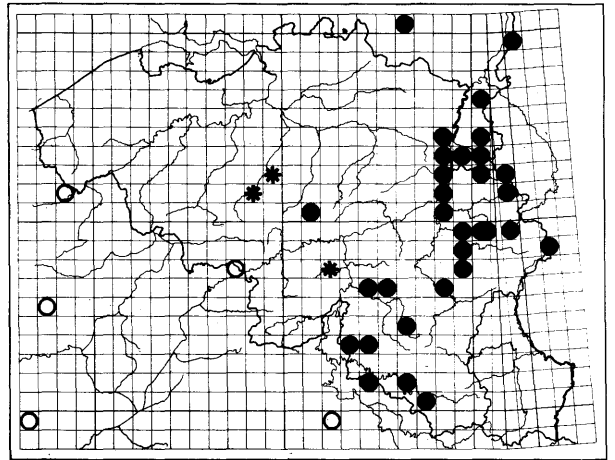
1471 — *Ectemnius (Ectemnius) guttatus* (VANDER LINDEN)



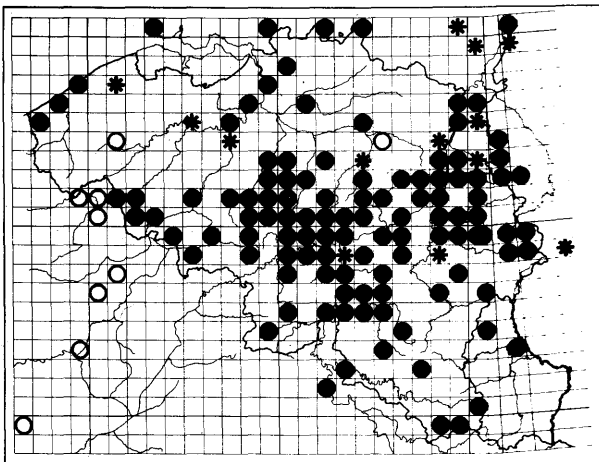
1472 — *Ectemnius (Clytochrysus) cavifrons* (THOMSON)



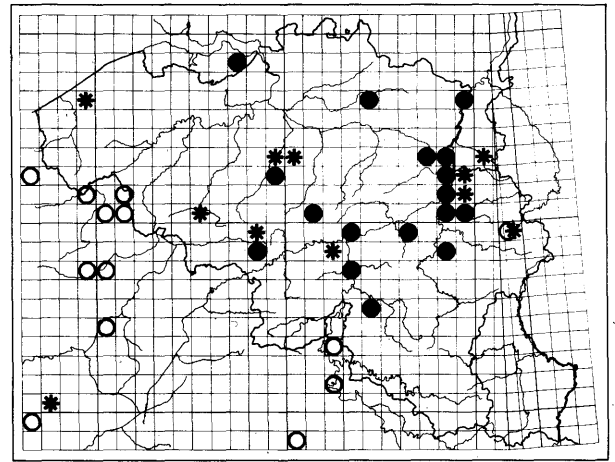
1473 — *Ectemnius (Clytochrysus) lapidarius* (PANZER)



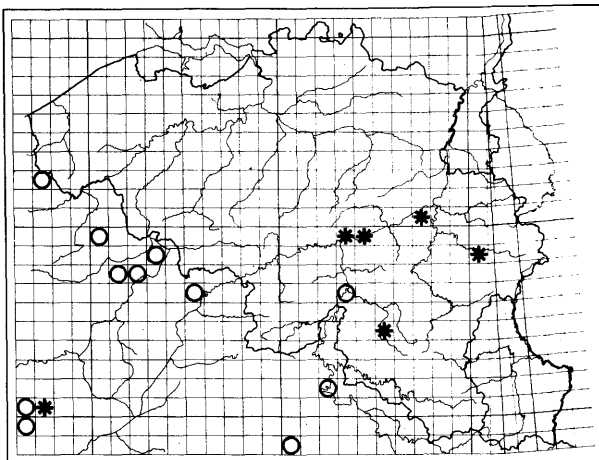
1474 — *Ectemnius (Clytochrysus) ruficornis*
(ZETTERSTEDT)



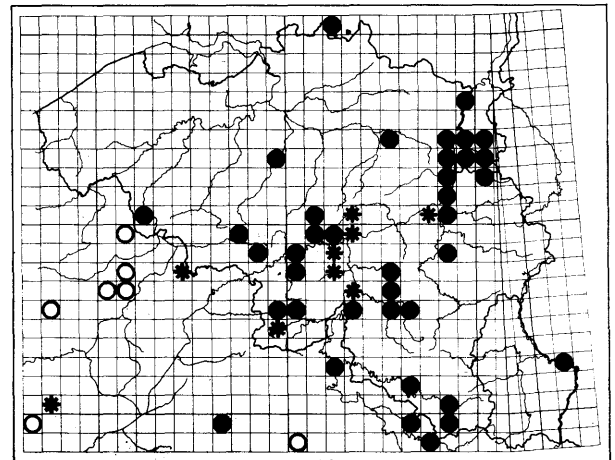
1475 — *Ectemnius (Clytochrysus) sexcinctus* (FABRICIUS)



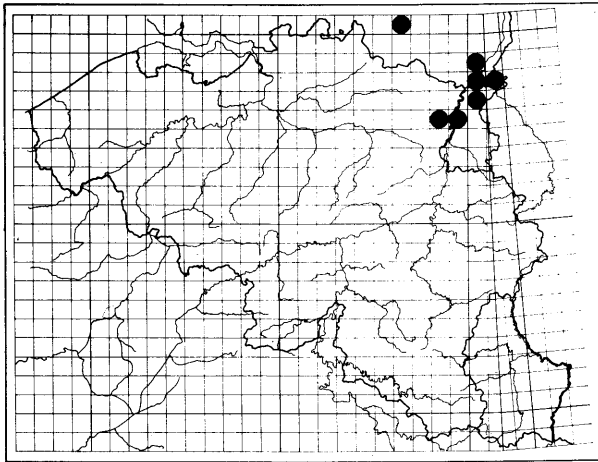
1476 — *Ectemnius (Metacrabro) cephalotes* (OLIVIER)



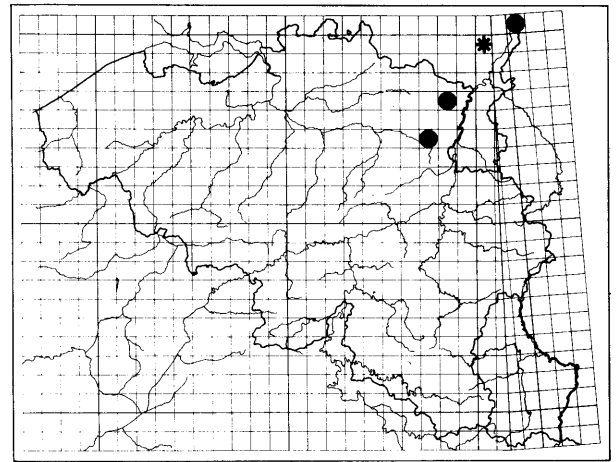
1477 — *Ectemnius (Metacrabro) fossorius* (LINNE)



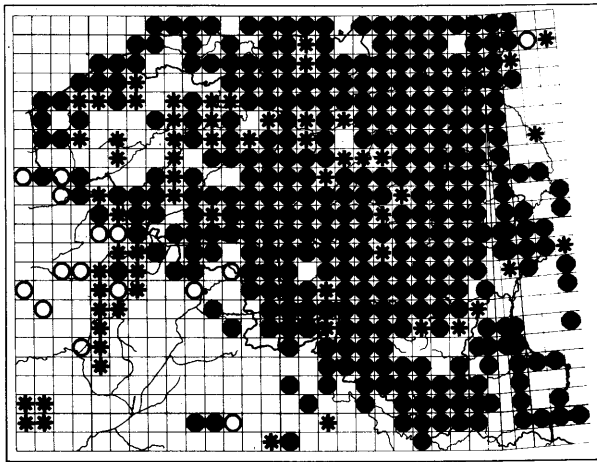
1478 — *Ectemnius (Metacrabro) lituratus* (PANZER)



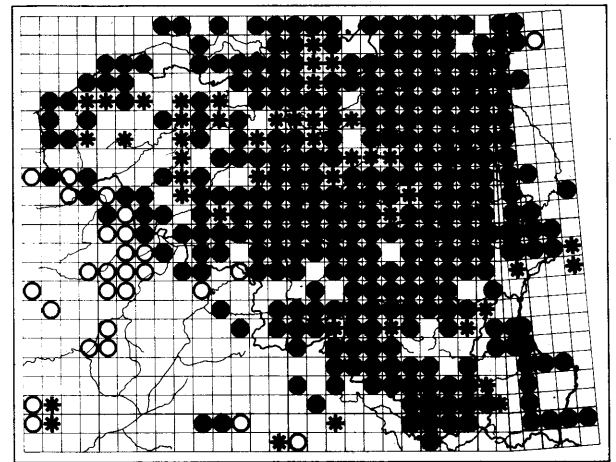
1479 — *Gorytes quinquefasciatus* (PANZER)



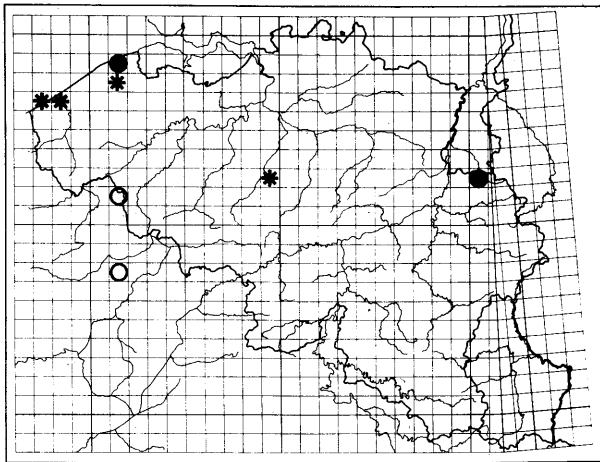
1480 — *Mimusesa spooneri* (RICHARDS)



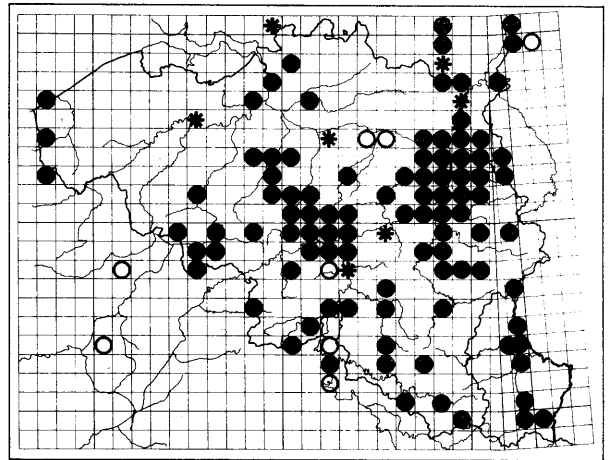
1481 — Somme des données concernant les Sphecides
(sauf les Pemphredon)
(Cartes 31 à 40, 501 à 534, 1165 à 1200 et 1401 à 1479)



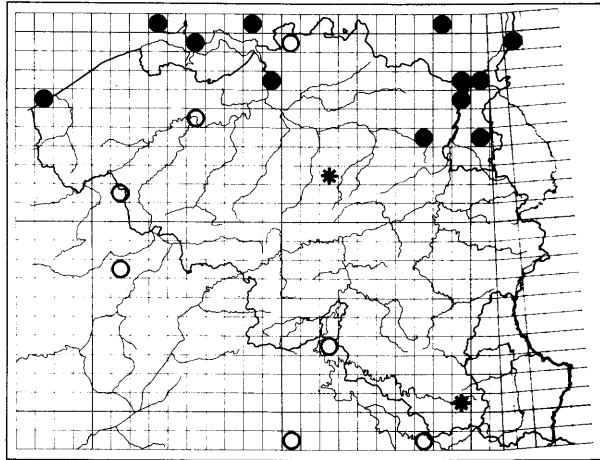
1482 — Somme des données concernant les Sphecides Carboniens
(Cartes 38 à 40 et 1422 à 1478)



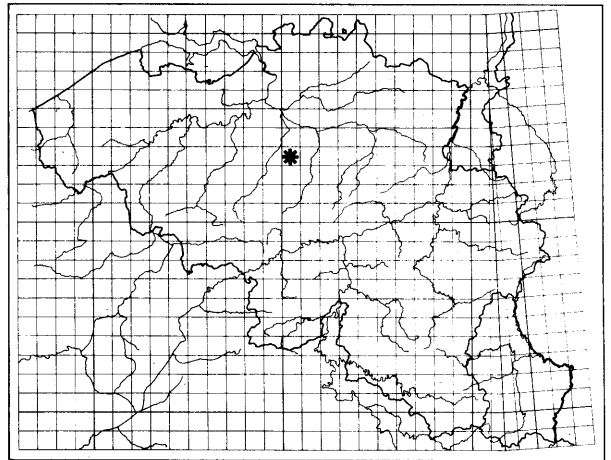
1483 — *Colletes cunicularius* (LINNE)



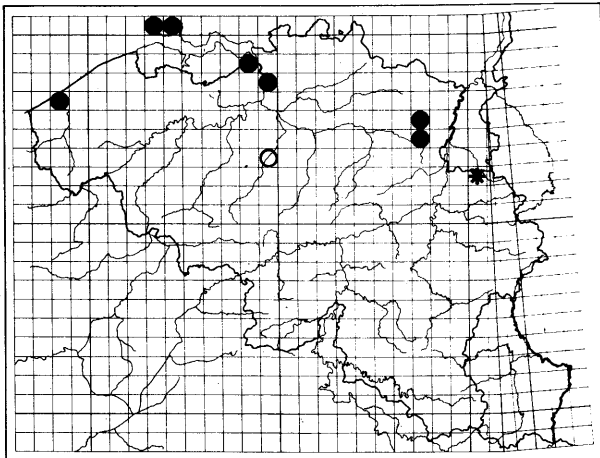
1484 — *Colletes daviesanus* SMITH



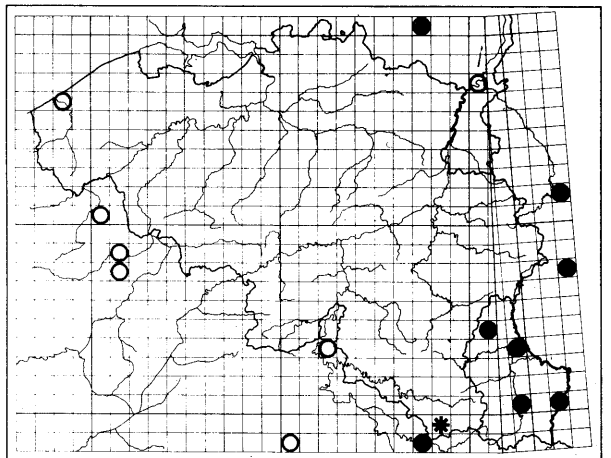
1485 — *Colletes fodiens* GEOFFROY



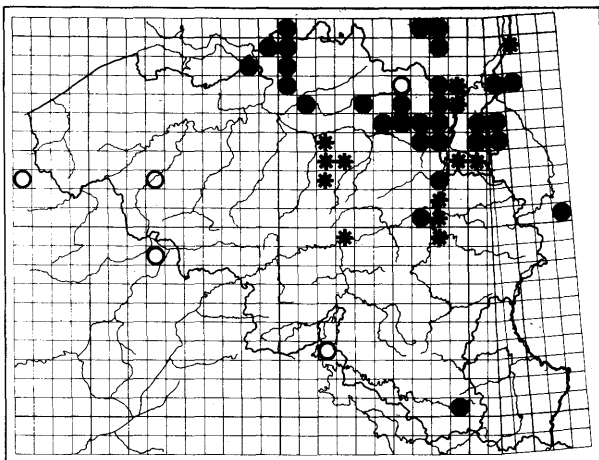
1486 — *Colletes hylaeiformis* EVERSMANN



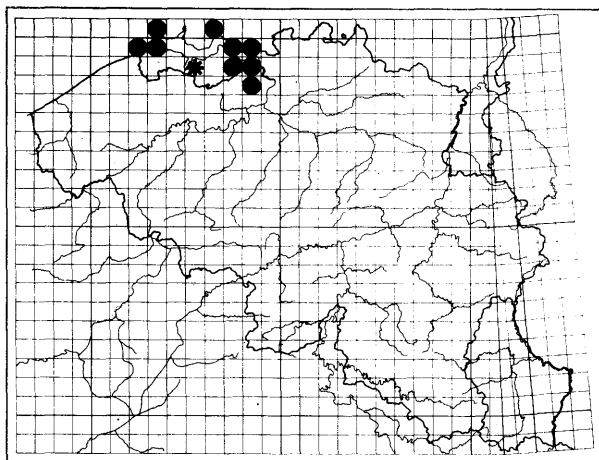
1487 — *Colletes marginatus* SMITH



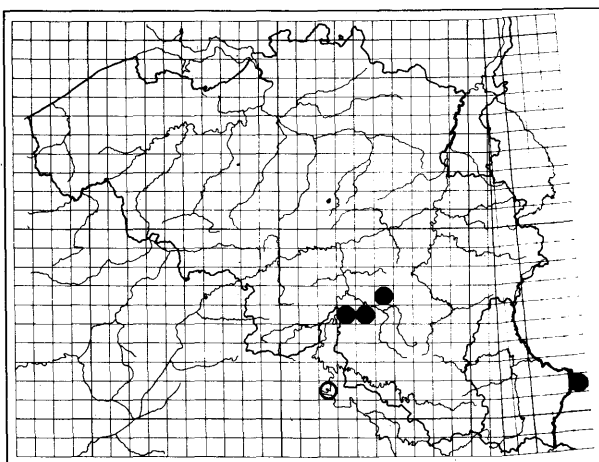
1488 — *Colletes similis* SCHENCK



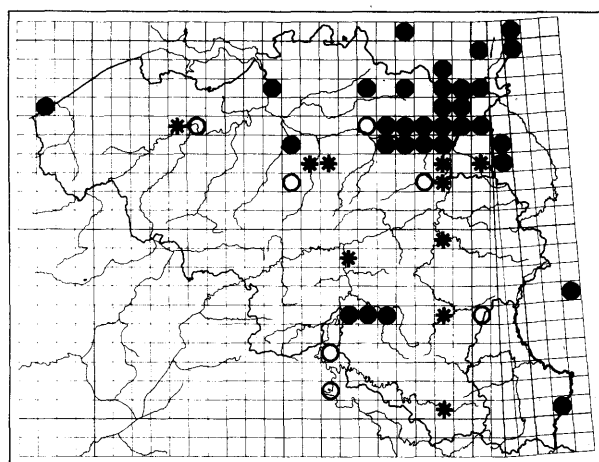
1489 — *Colletes succinctus* ssp. *succinctus* (LINNE)



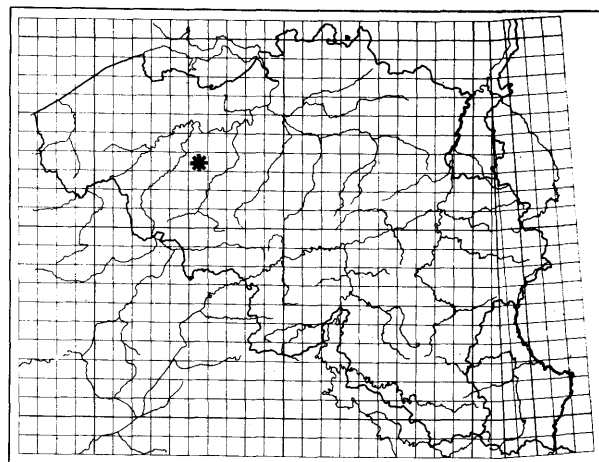
1490 — *Colletes succinctus* (LINNE)
ssp. *halophilus* VERHOEFF



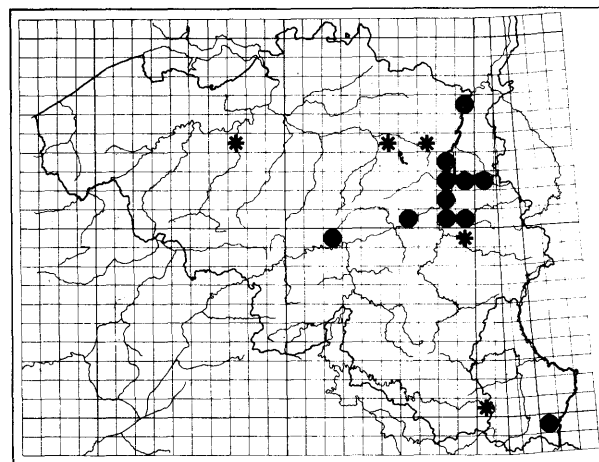
1491 — *Prosopis angustata* SCHENCK



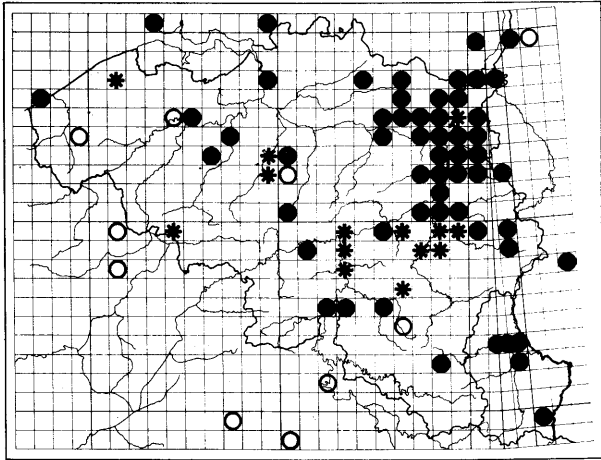
1492 — *Prosopis annularis* (KIRBY)



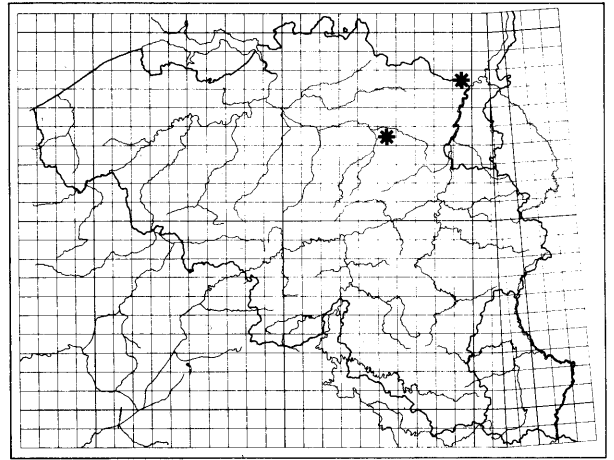
1493 — *Prosopis bifasciata* JURINE



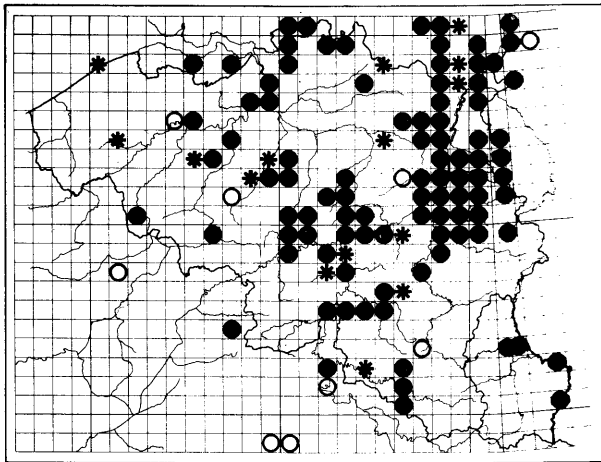
1494 — *Prosopis bisinuata* (FORSTER)



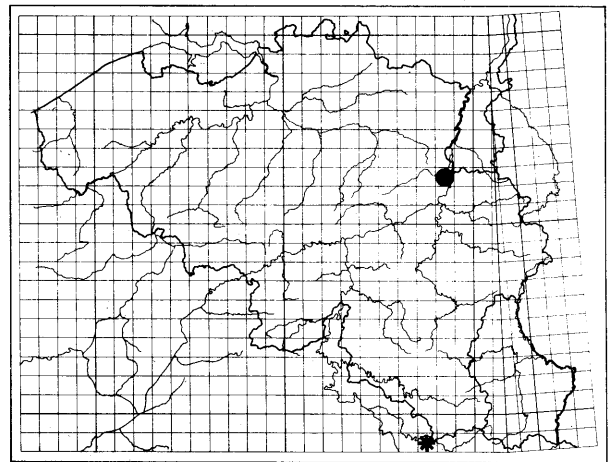
1495 — *Prosopis brevicornis* (NYLANDER)



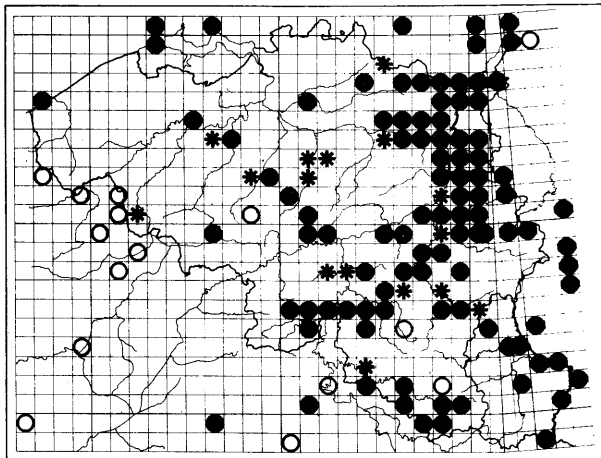
1496 — *Prosopis clypearis* SCHENCK



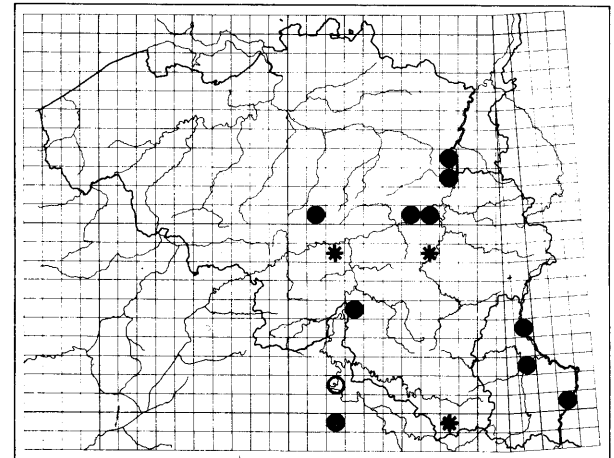
1497 — *Prosopis communis* (NYLANDER)



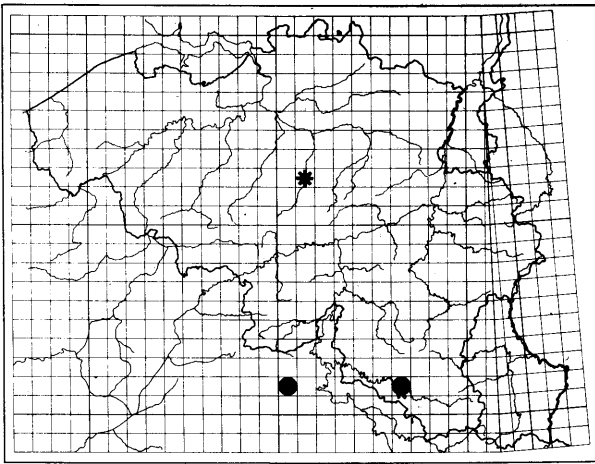
1498 — *Prosopis conformis* (FÖRSTER)



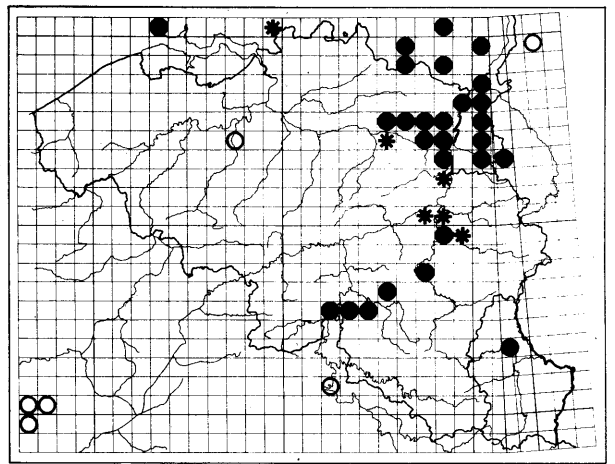
1499 — *Prosopis confusa* (NYLANDER)



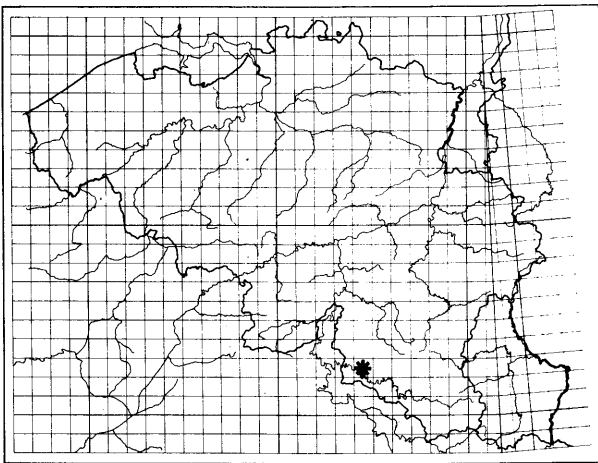
1500 — *Prosopis cornuta* (CURTIS)



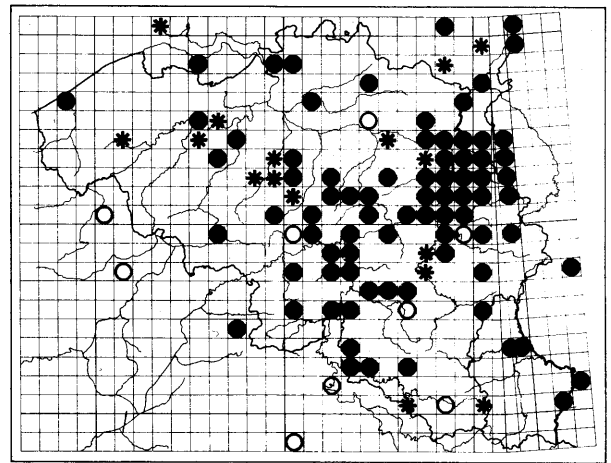
1501 — *Prosopis difformis* EVERSMANN



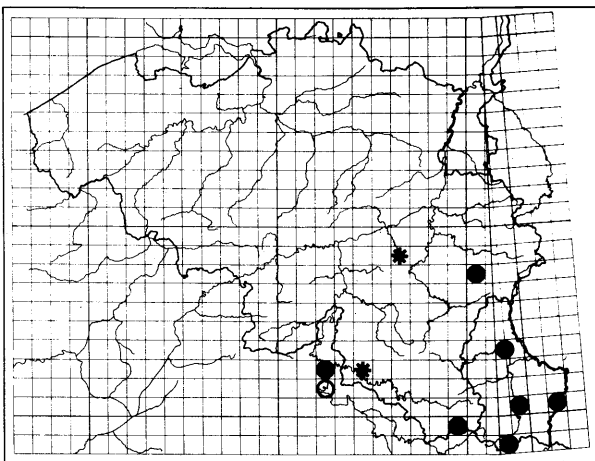
1502 — *Prosopis gibba* (SAUNDERS)



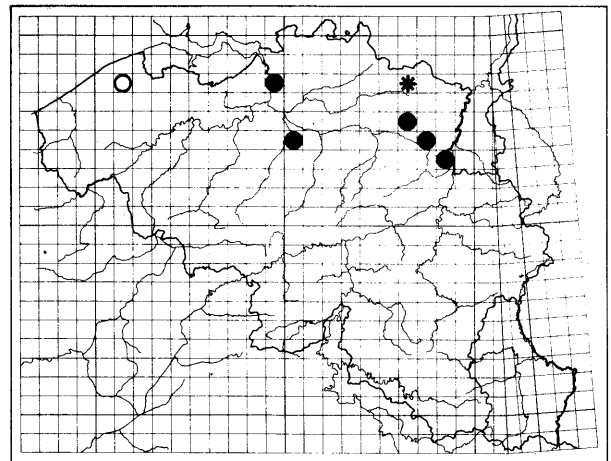
1503 — *Prosopis gracilicornis* MORAWITZ



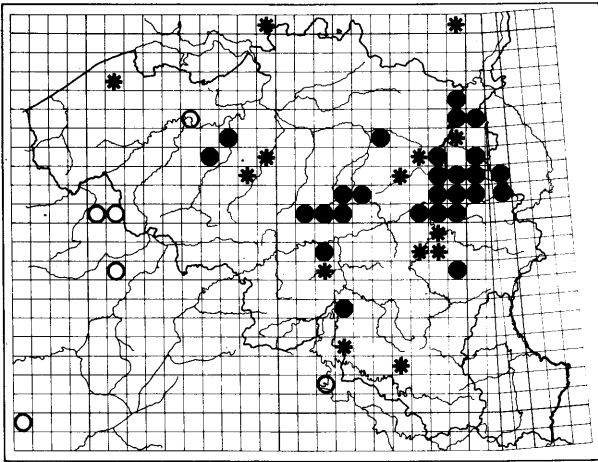
1504 — *Prosopis hyalinata* (SMITH)



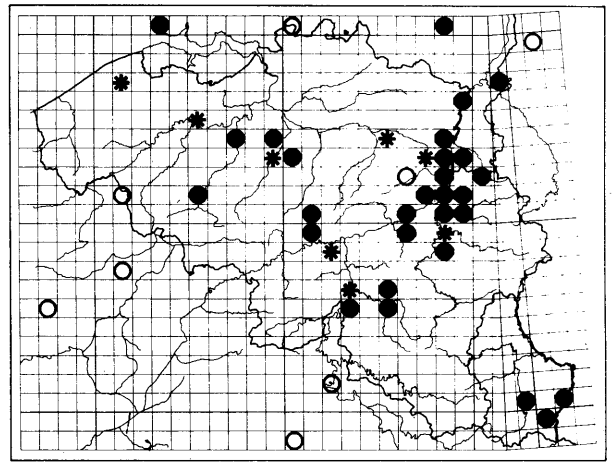
1505 — *Prosopis nigrita* (FABRICIUS)



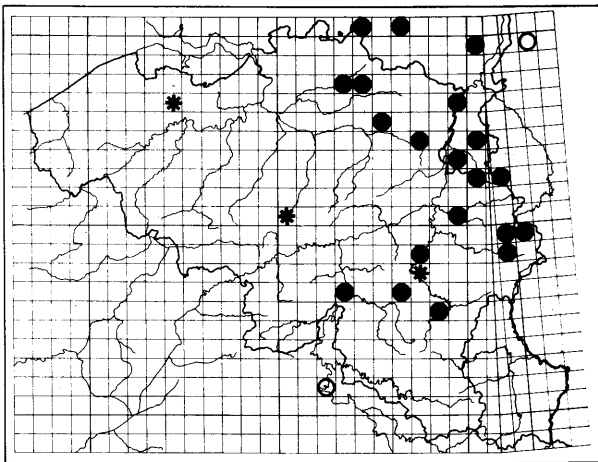
1506 — *Prosopis pectoralis* (FÖRSTER)



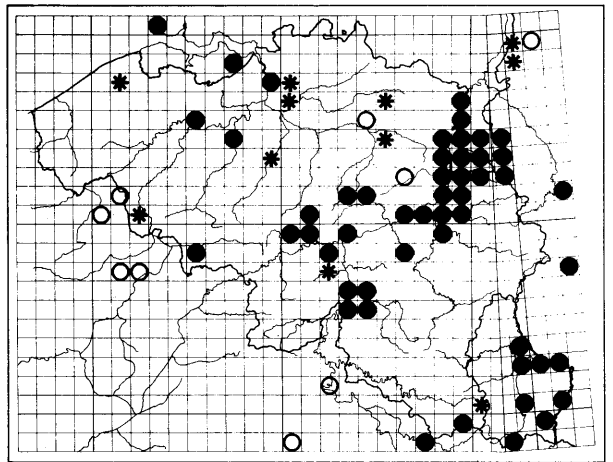
1507 — *Prosopis pictipes* (NYLANDER)



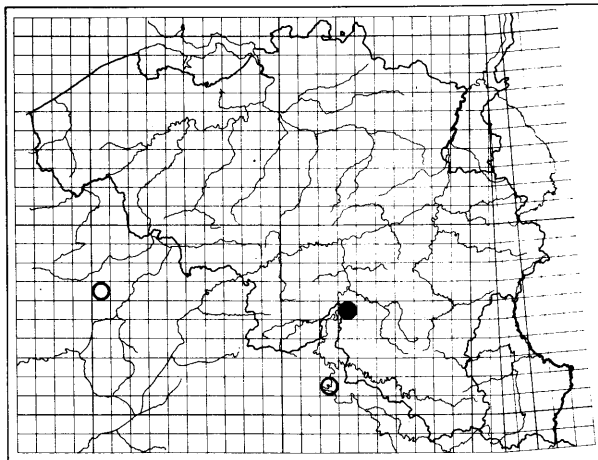
1508 — *Prosopis punctulatissima* (SMITH)



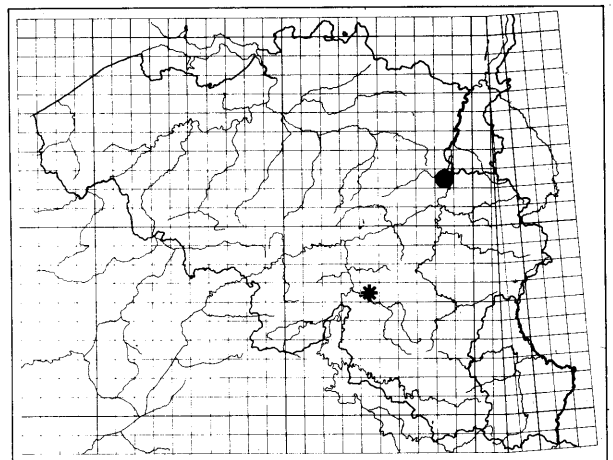
1509 — *Prosopis rinki* GORSKI



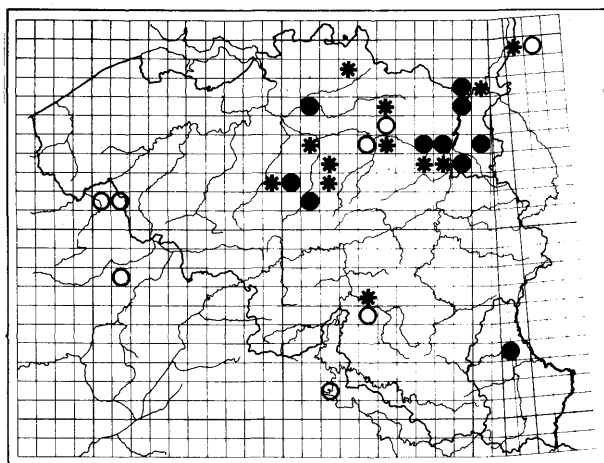
1510 — *Prosopis signata* (PANZER)



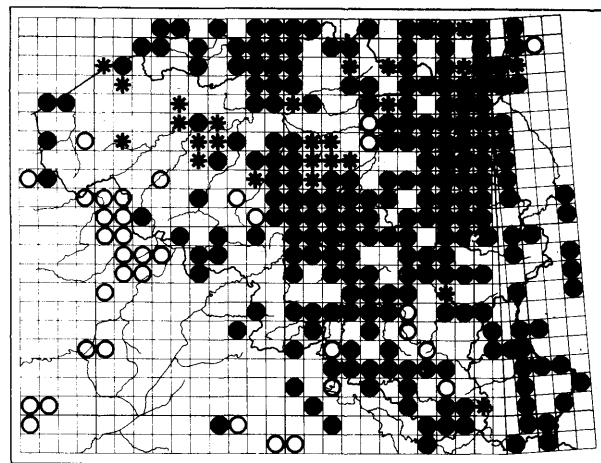
1511 — *Prosopis sinuata* SCHENCK



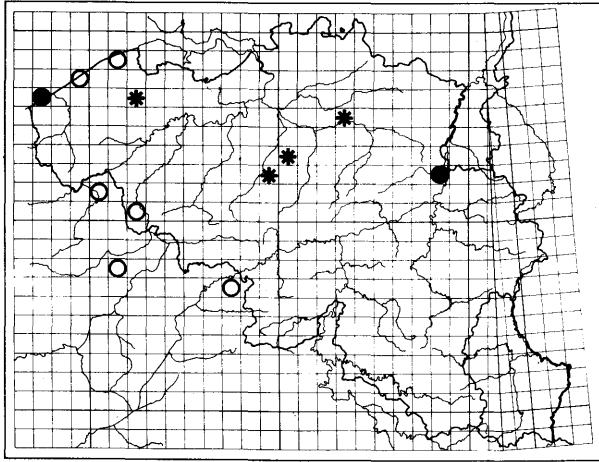
1512 — *Prosopis styriaca* (FÖRSTER)



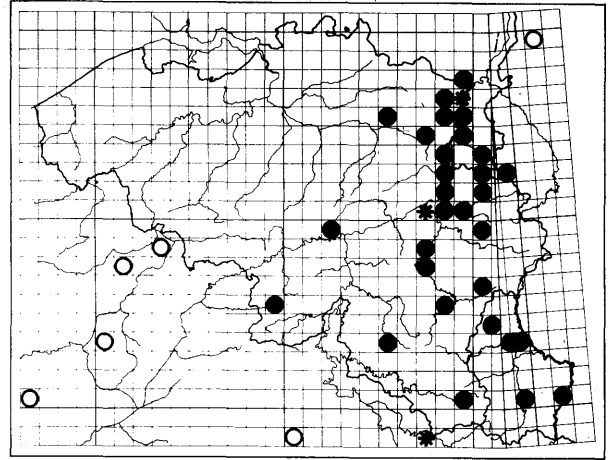
1513 — *Prosopis variegata* (FABRICIUS)



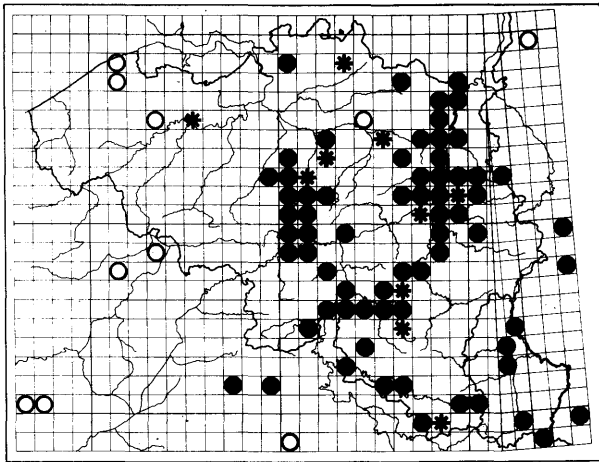
1514 — Somme des données concernant les Colletidae
(Cartes 1483 à 1513)



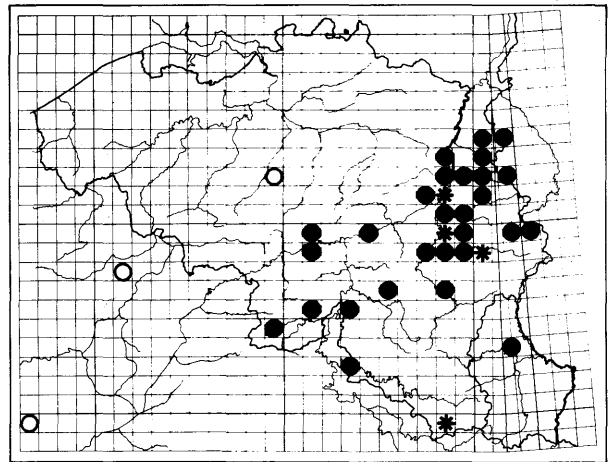
1515 — *Sphecodes albilabris* (KIRBY)



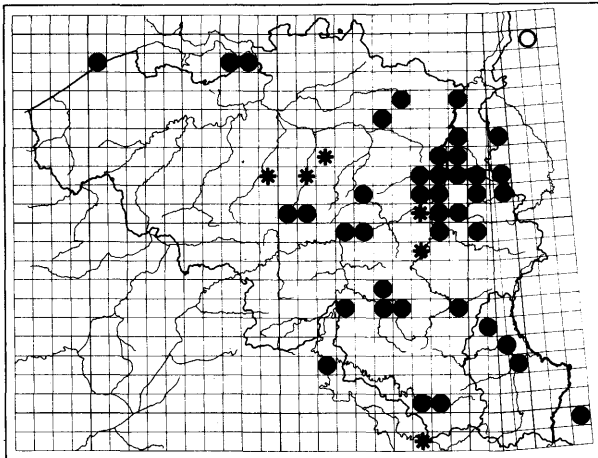
1516 — *Sphecodes crassus* THOMSON



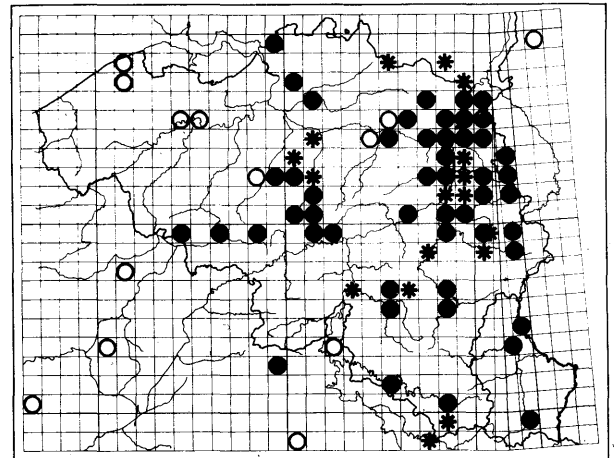
1517 — *Sphecodes ephippius* (LINNE)



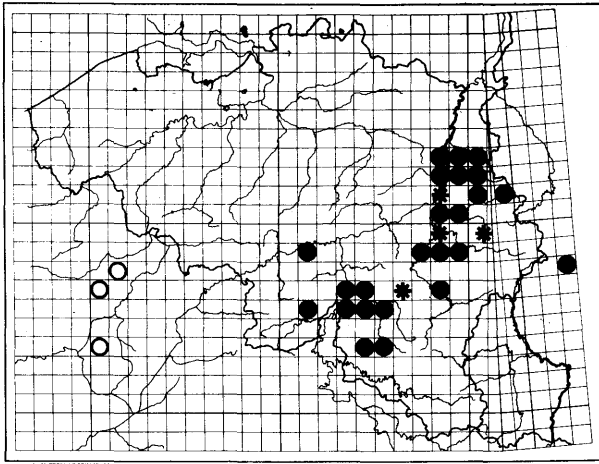
1518 — *Sphecodes ferruginatus* HAGEN



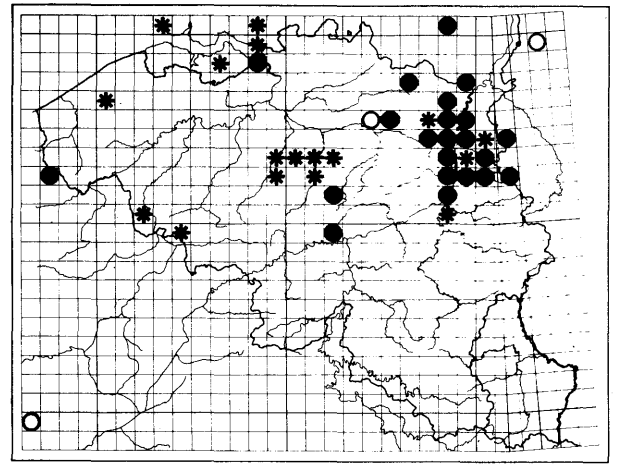
1519 — *Sphecodes geoffrellus* (KIRBY)



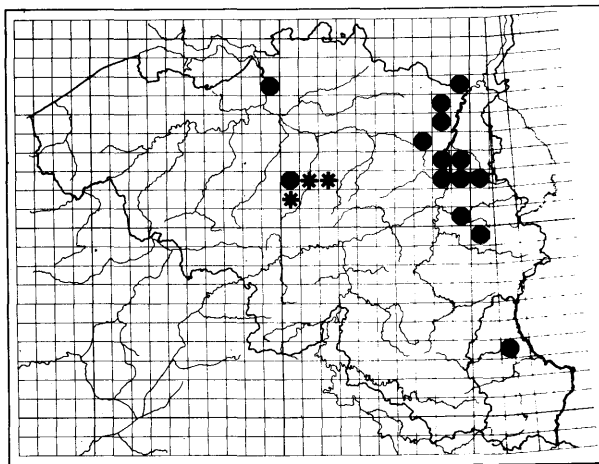
1520 — *Sphecodes gibbus* (LINNE)



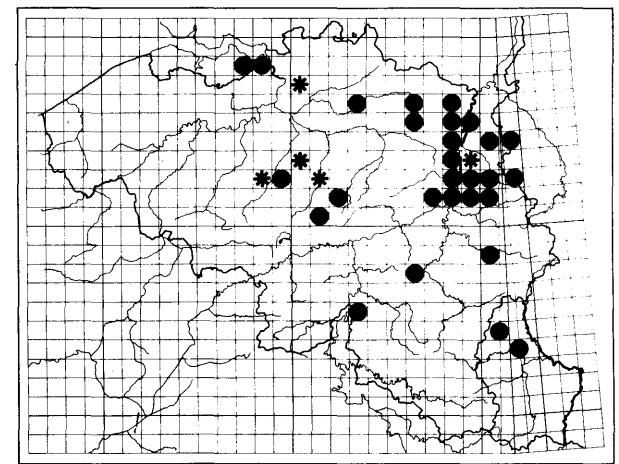
1521 — *Sphecodes hyalinatus* HAGEN



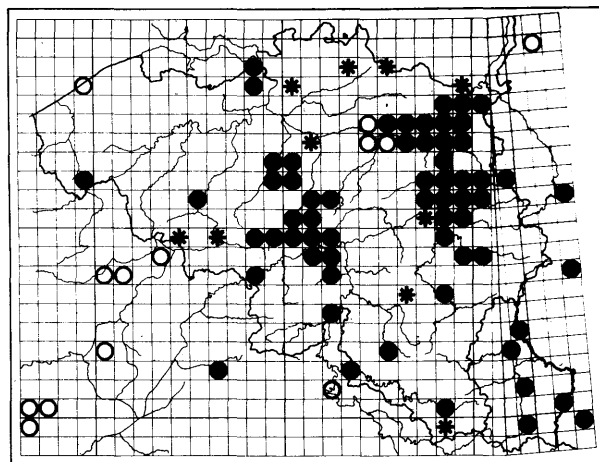
1522 — *Sphecodes longulus* HAGEN



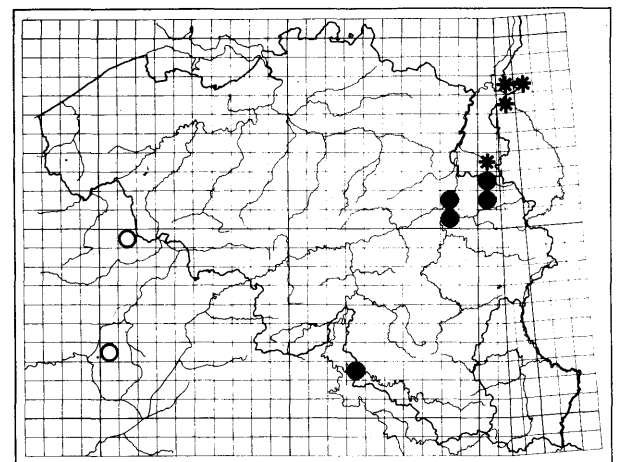
1523 — *Sphecodes marginatus* HAGEN



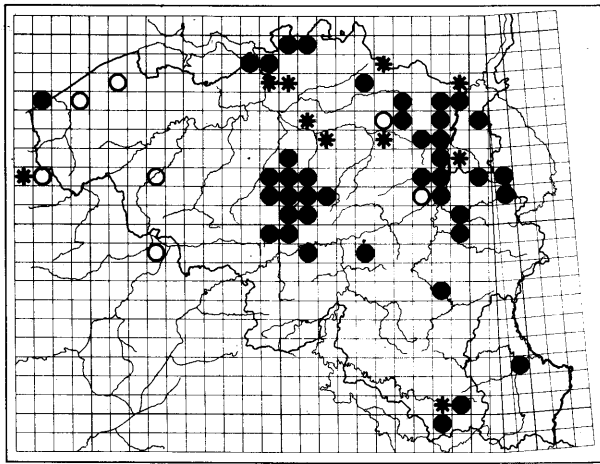
1524 — *Sphecodes miniatus* HAGEN



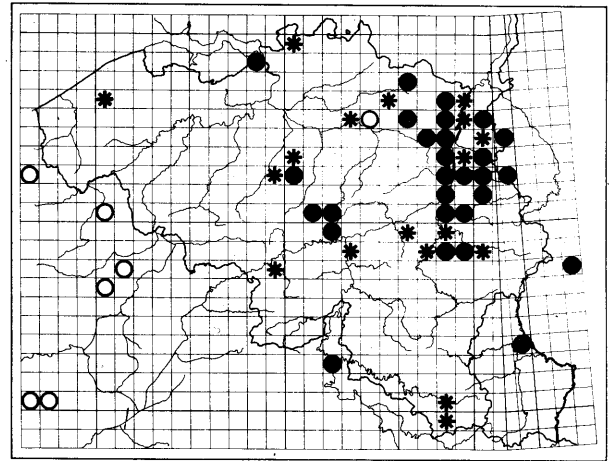
1525 — *Sphecodes monilicornis* (KIRBY)



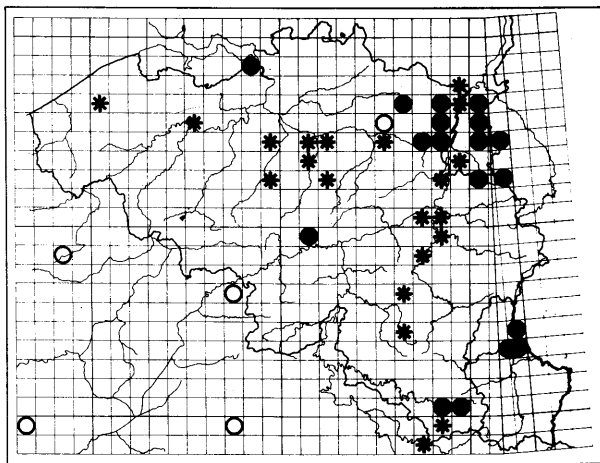
1526 — *Sphecodes niger* HAGEN



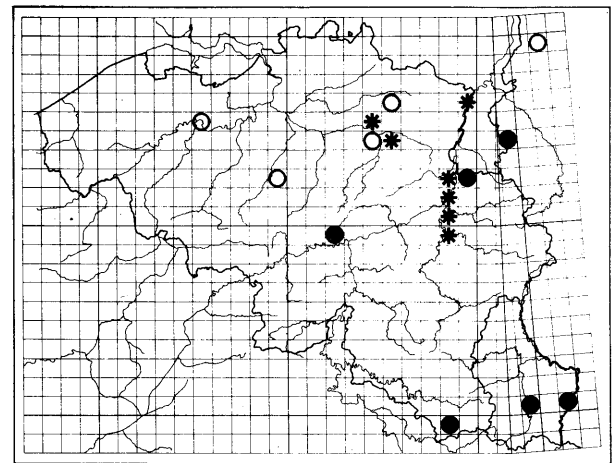
1527 — *Sphecodes pellucidus* SMITH



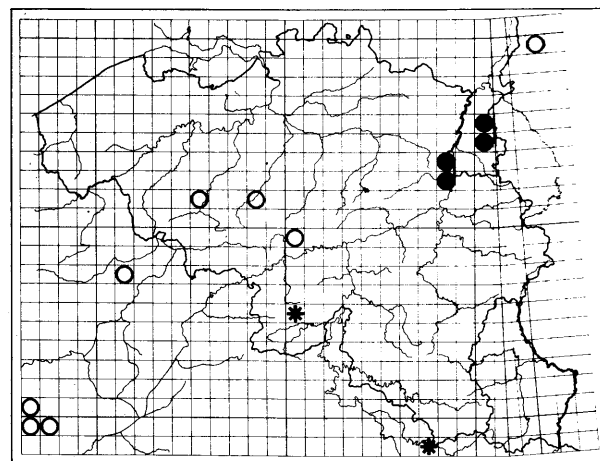
1528 — *Sphecodes puncticeps* THOMSON



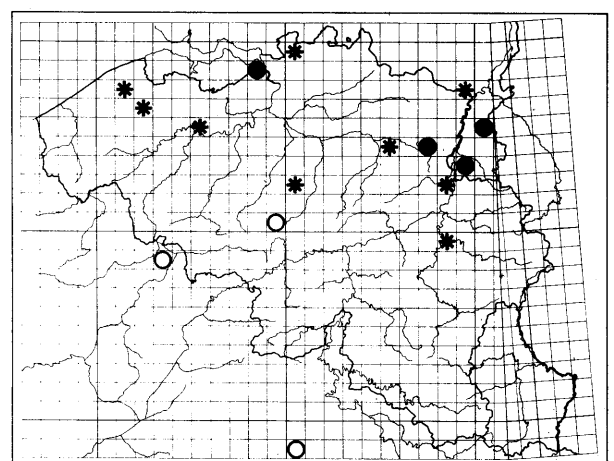
1529 — *Sphecodes reticulatus* THOMSON



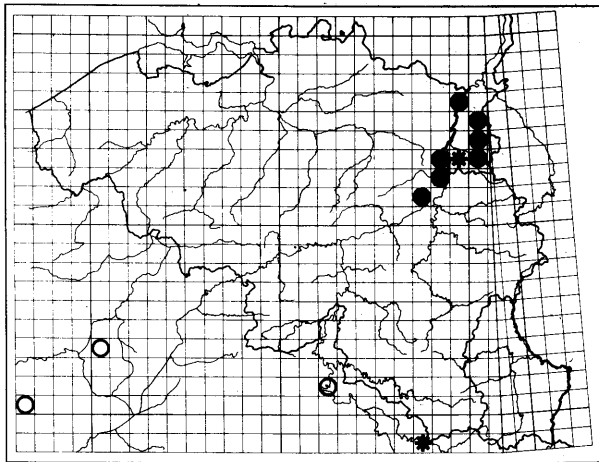
1530 — *Sphecodes rubicundus* HAGEN



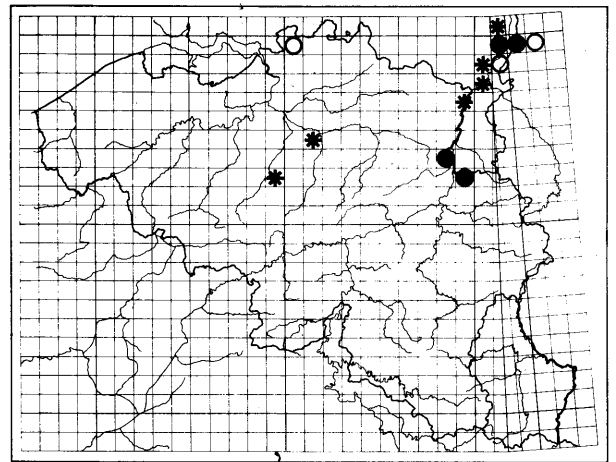
1531 — *Sphecodes rufiventris* (PANZER)



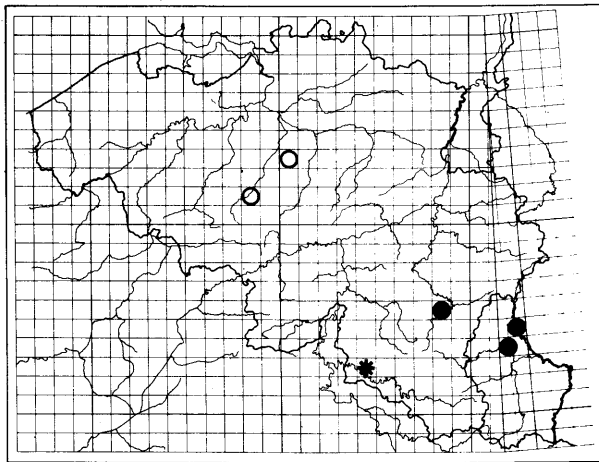
1532 — *Sphecodes scabricollis* WESMAEL



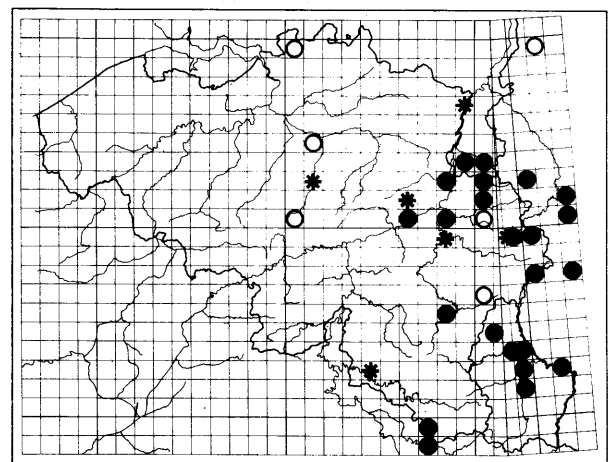
1533 — *Sphecodes spinulosus* HAGEN



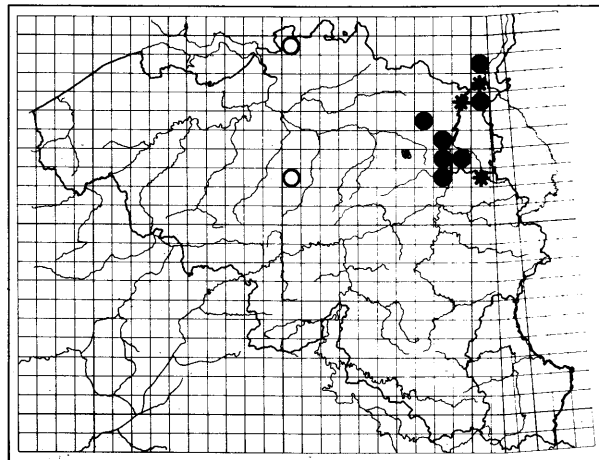
1534 — *Dufourea (Dufourea) halictula* NYLANDER



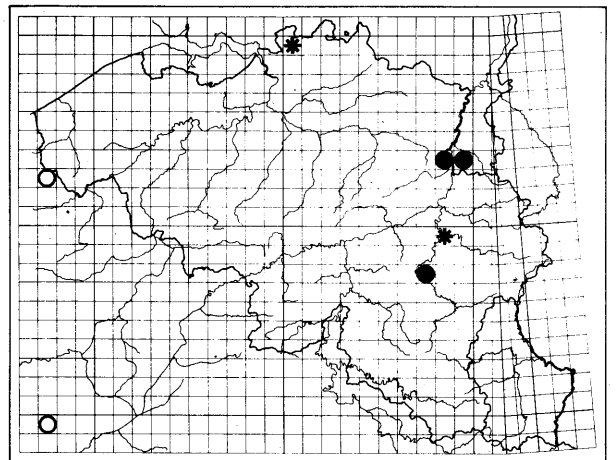
1535 — *Dufourea (Dufourea) vulgaris* SCHENCK



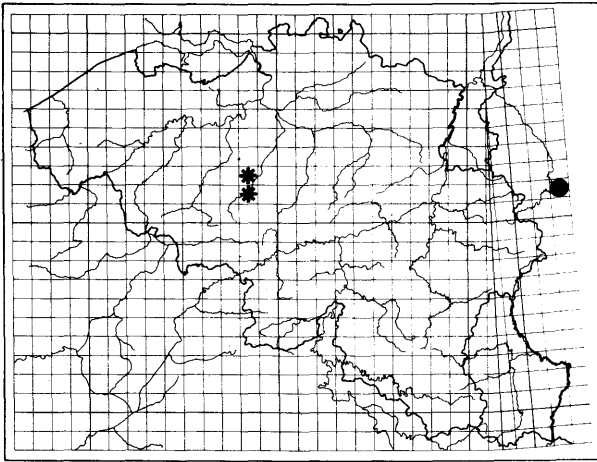
1536 — *Dufourea (Halictoides) dentiventris* (NYLANDER)



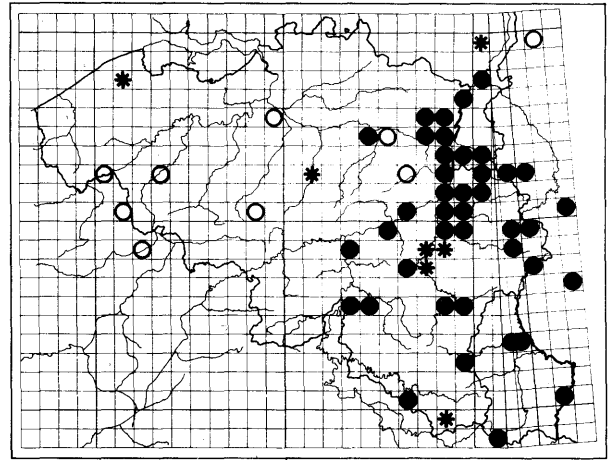
1537 — *Dufourea (Halictoides) inermis* (NYLANDER)



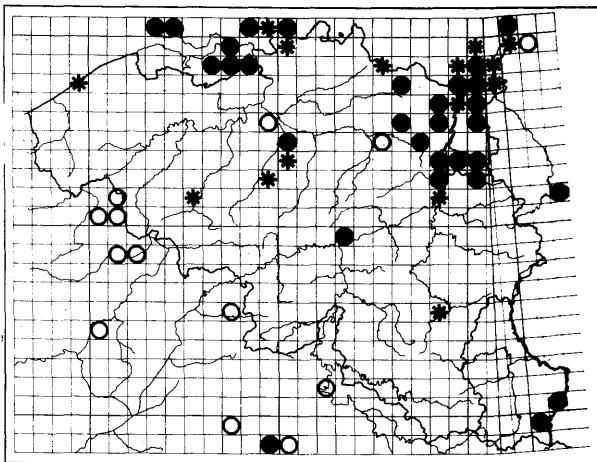
1538 — *Rophites quenquespinosus* SPINOLA



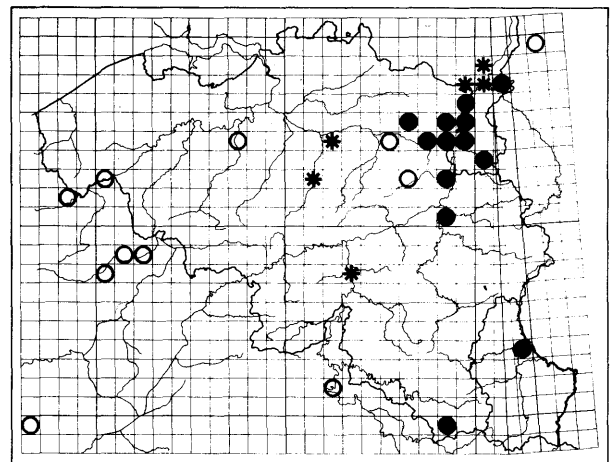
1539 — *Rhopitoides canus* (EVERSMANN)



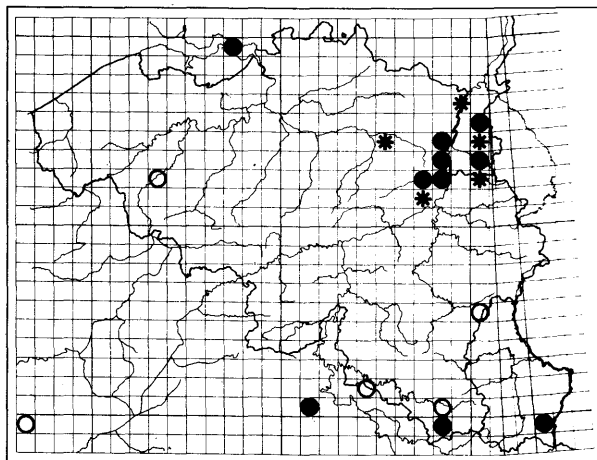
1540 — *Melitta haemorrhoidalis* (FABRICIUS)



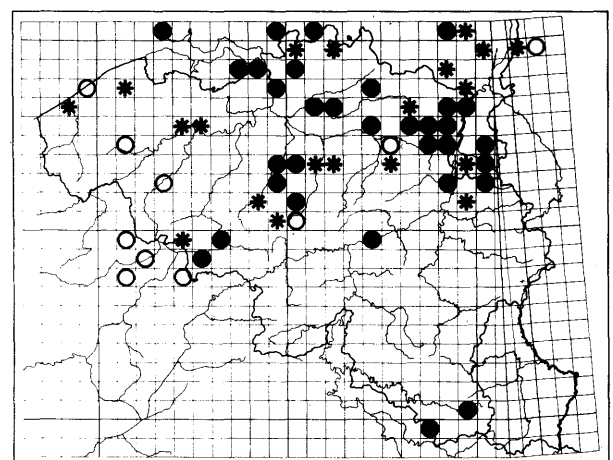
1541 — *Melitta leporina* (PANZER)



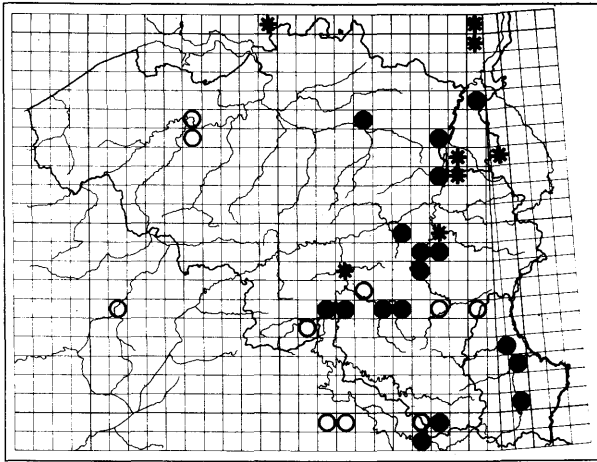
1542 — *Melitta nigricans* ALFKEN



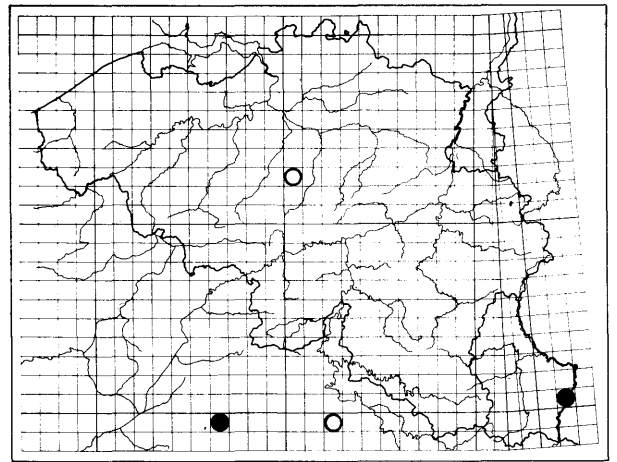
1543 — *Melitta tricincta* KIRBY



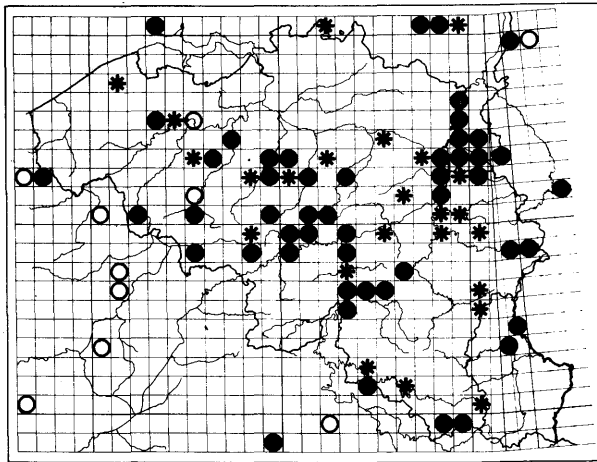
1544 — *Dasypoda hirtipes* (FABRICIUS)



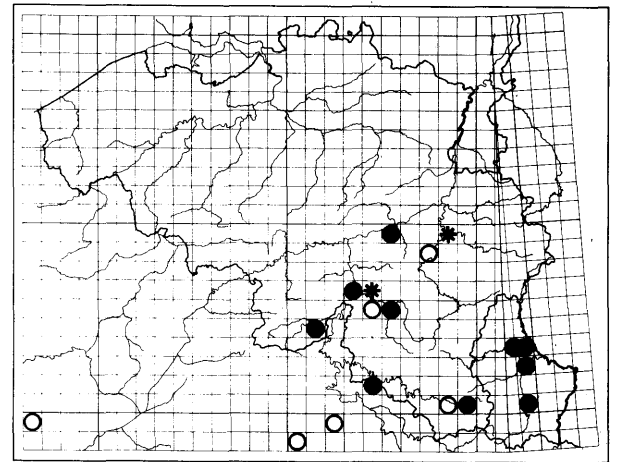
1545 — *Trachusa byssina* (PANZER)



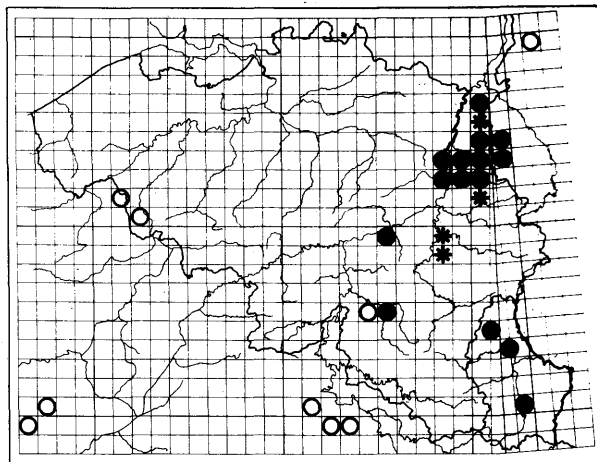
1546 — *Anthidium lituratum* (PANZER)



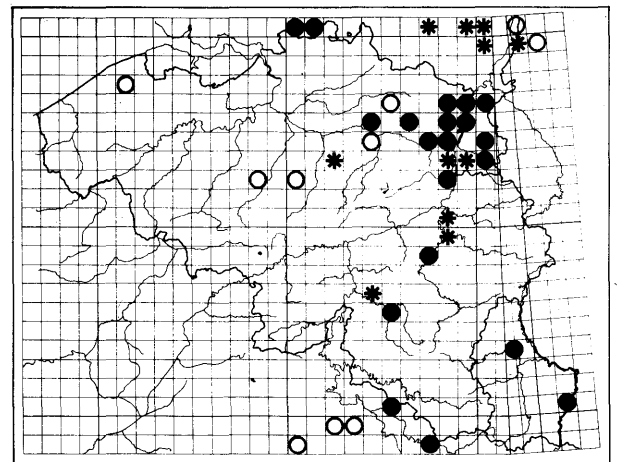
1547 — *Anthidium manicatum* (LINNE)



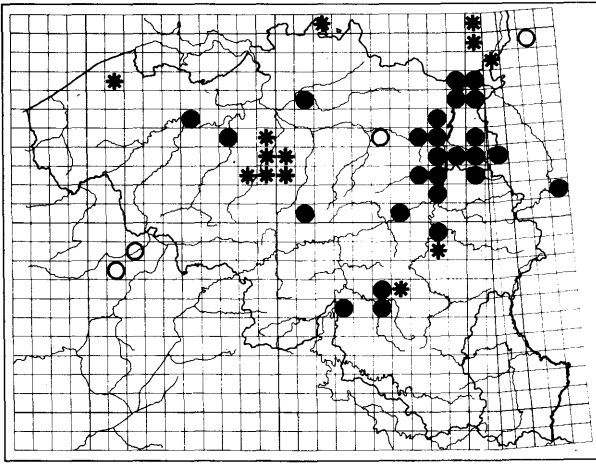
1548 — *Anthidium oblongatum* LATREILLE



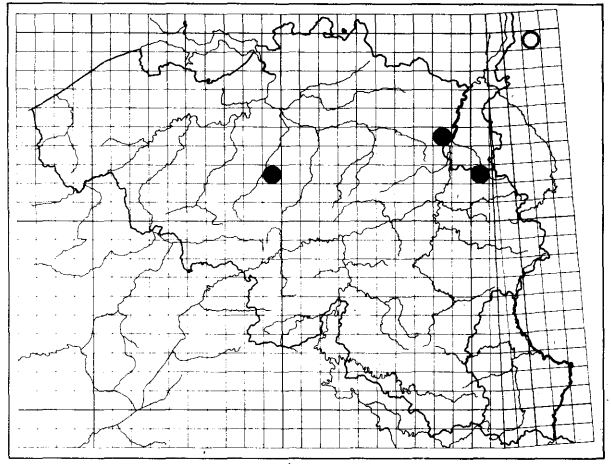
1549 — *Anthidium punctatum* LATREILLE



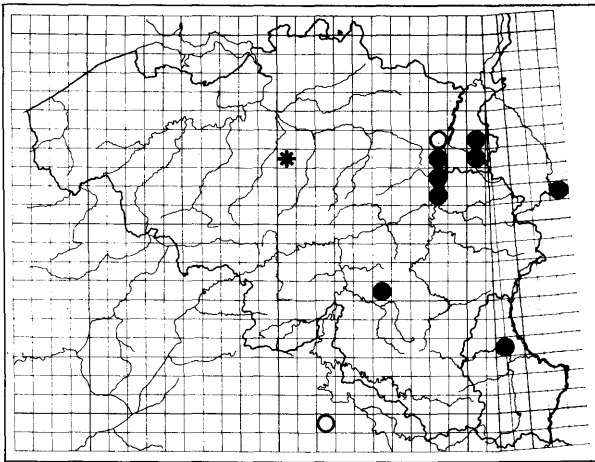
1550 — *Anthidiellum strigatum* (PANZER)



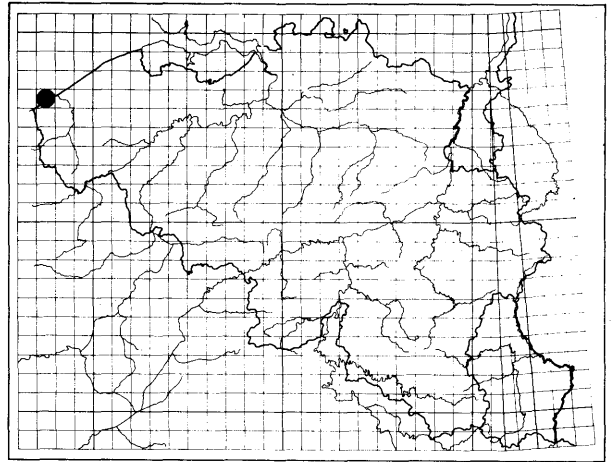
1551 — *Stelis breviscula* (NYLANDER)



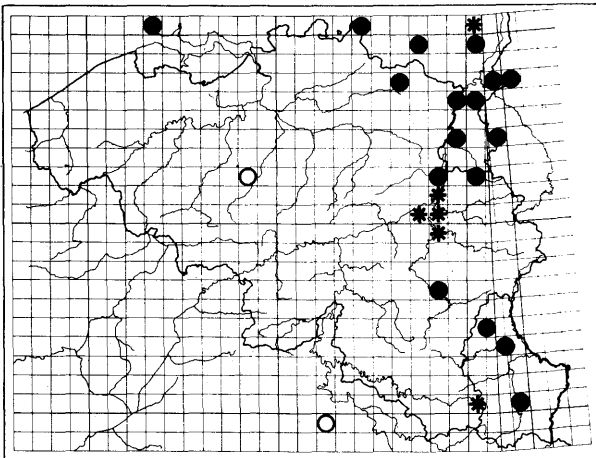
1552 — *Stelis minima* SCHENCK



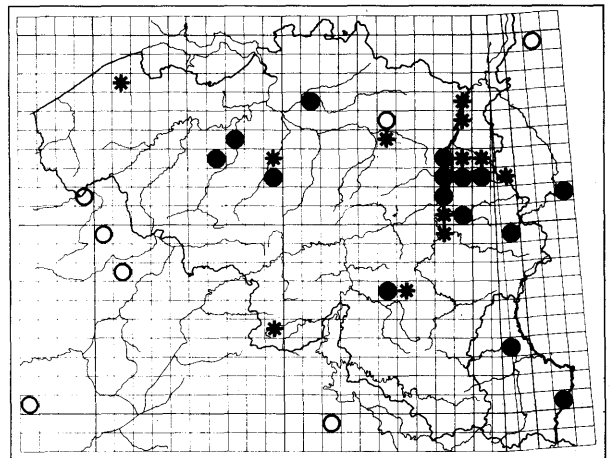
1553 — *Stelis minuta* LEPELETIER & SERVILLE



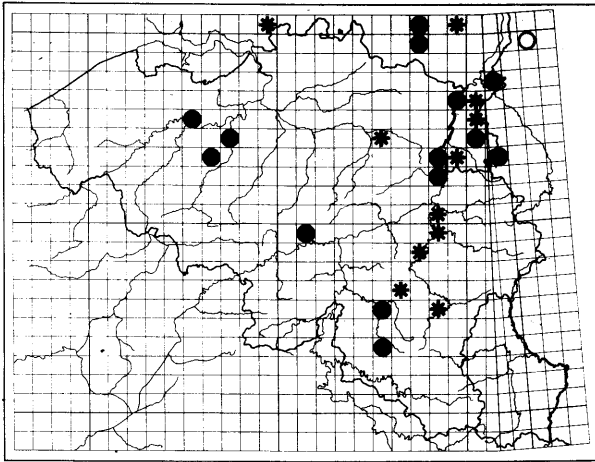
1554 — *Stelis odontopyga* NOSKIEWICZ



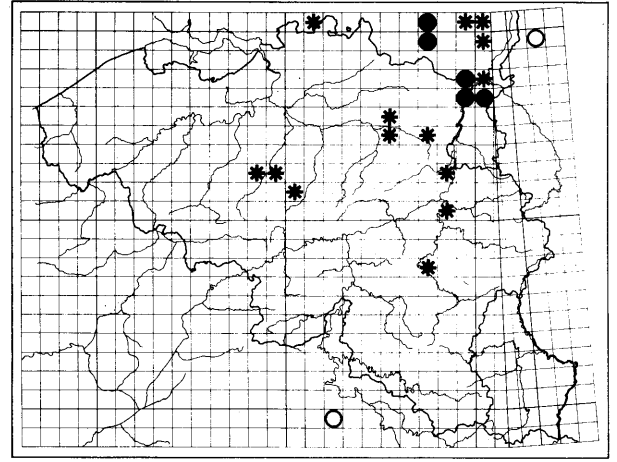
1555 — *Stelis ornatula* (KLUG)



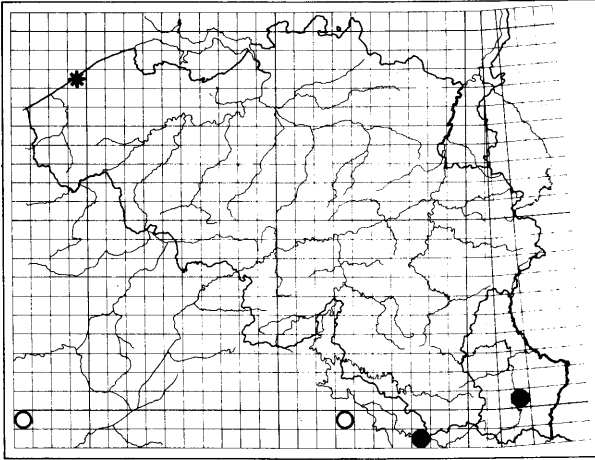
1556 — *Stelis phaeoptera* (KIRBY)



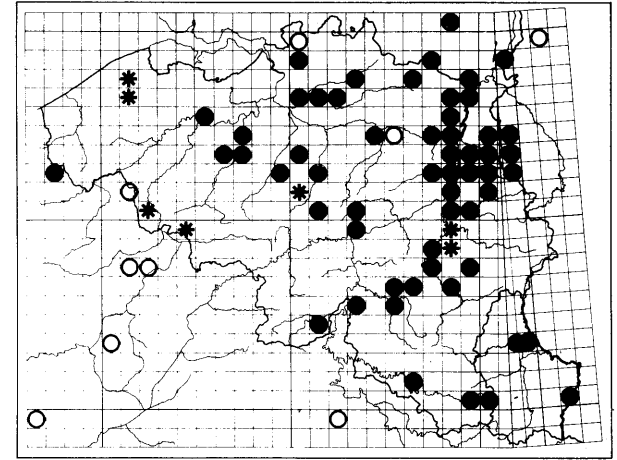
1557 — *Stelis punctulatissima* (KIRBY)



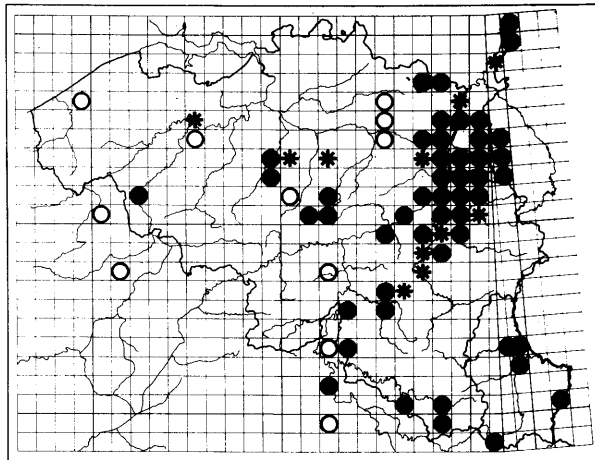
1558 — *Stelis signata* (LATREILLE)



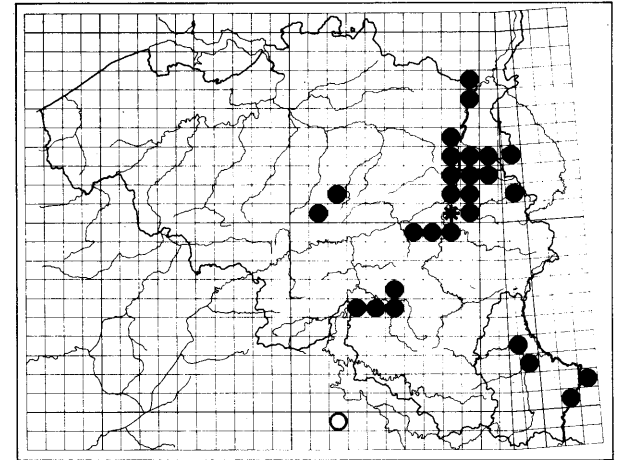
1559 — *Dioxys tridentata* (NYLANDER)



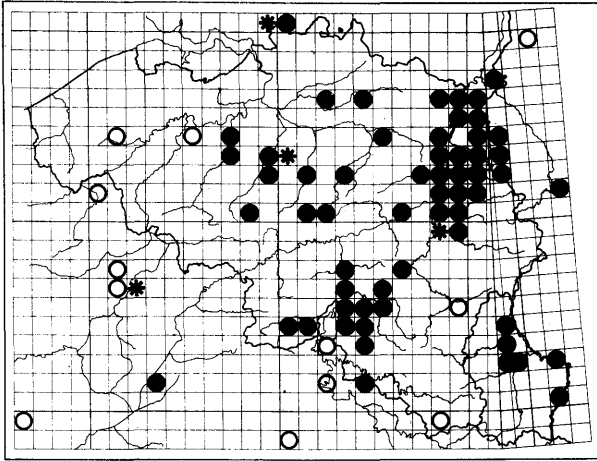
1560 — *Heriades truncorum* (LINNE)



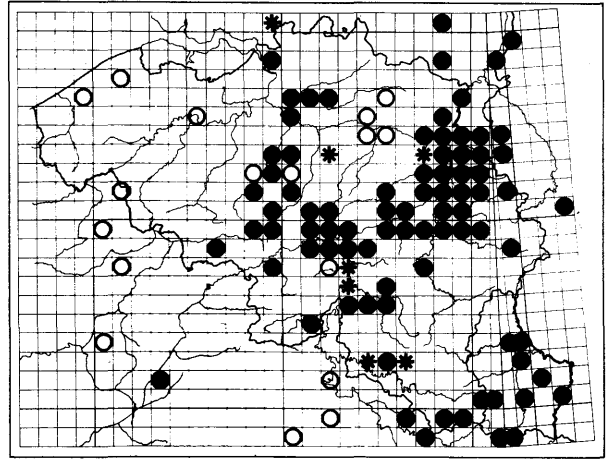
1561 — *Chelostoma campanularum* (KIRBY)



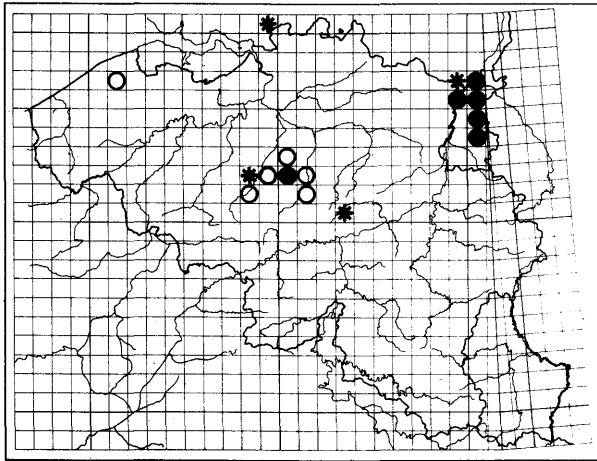
1562 — *Chelostoma distinctum* (STOECKERT)



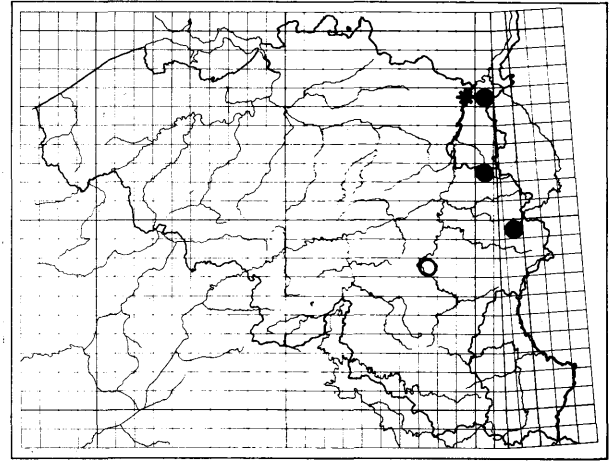
1563 — *Chelostoma florissome* (LINNE)



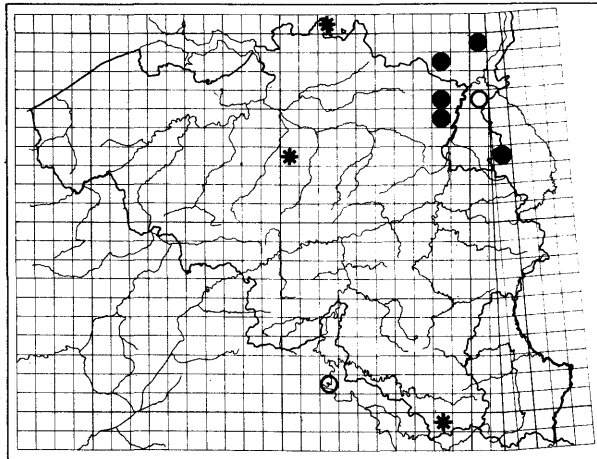
1564 — *Chelostoma fuliginosum* (PANZER)



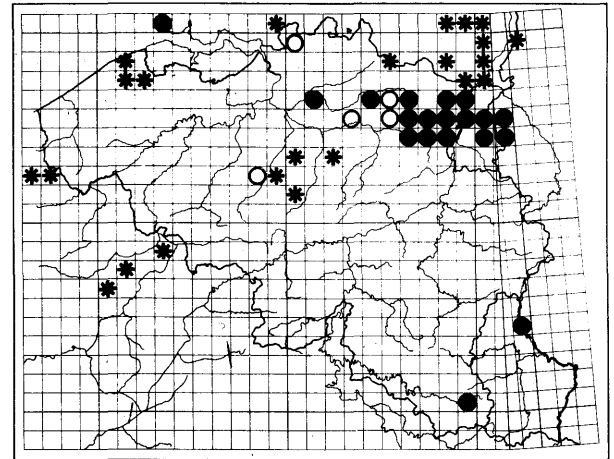
1565 — *Ammobates punctatus* (FABRICIUS)



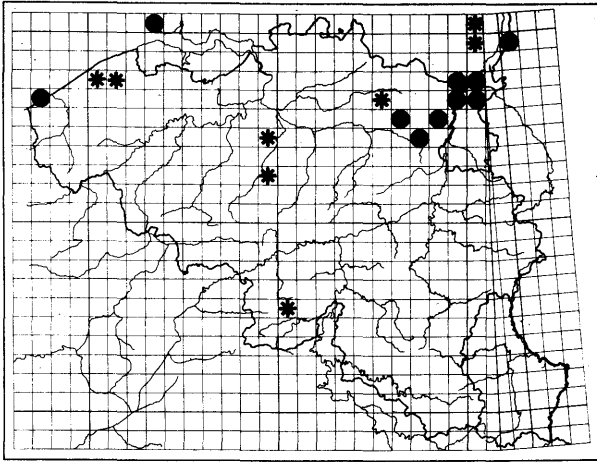
1566 — *Blastus truncatus* (NYLANDER)



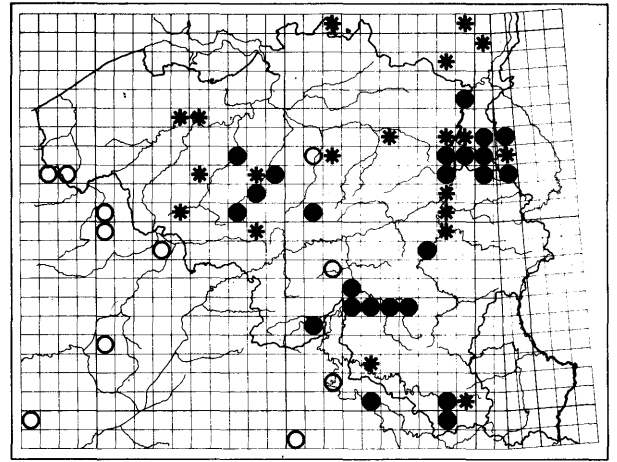
1567 — *Epeoloides coecutiens* (FABRICIUS)



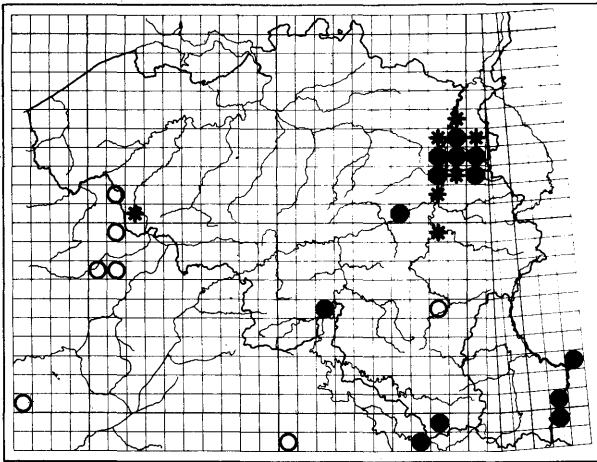
1568 — *Epeolus cruciger* (PANZER)



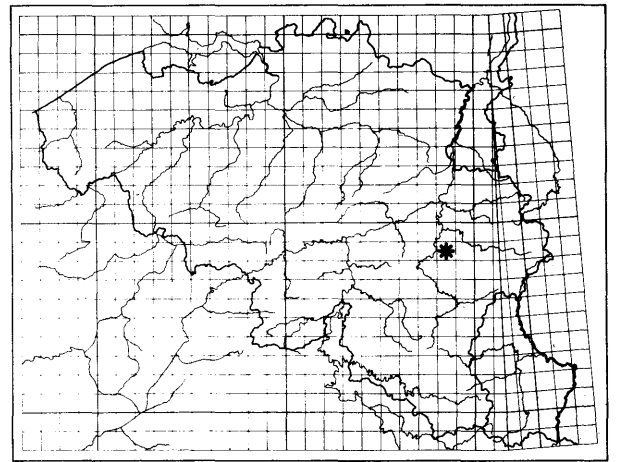
1569 — *Epeolus variegatus* (LINNE)



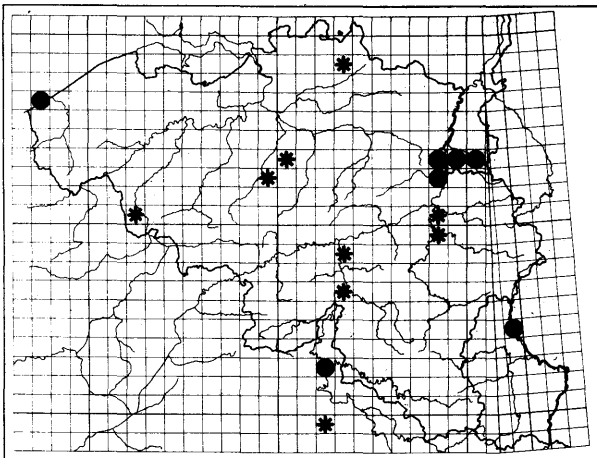
1570 — *Eucera longicornis* (LINNE)



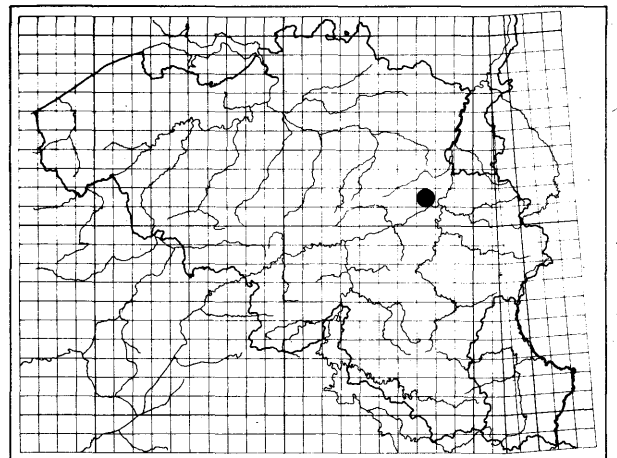
1571 — *Eucera tuberculata* (FABRICIUS)



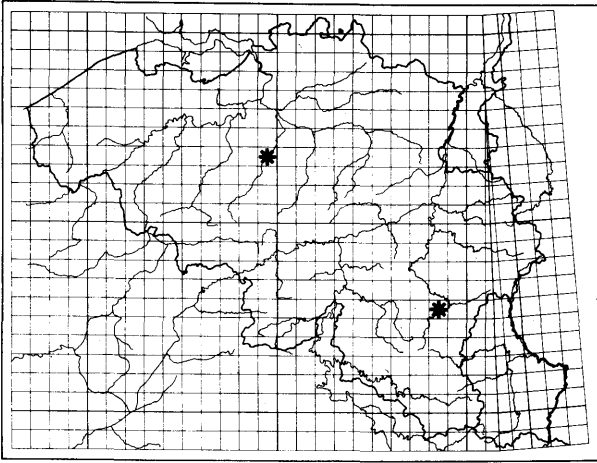
1572 — *Embolemus ruddii* WESTWOOD



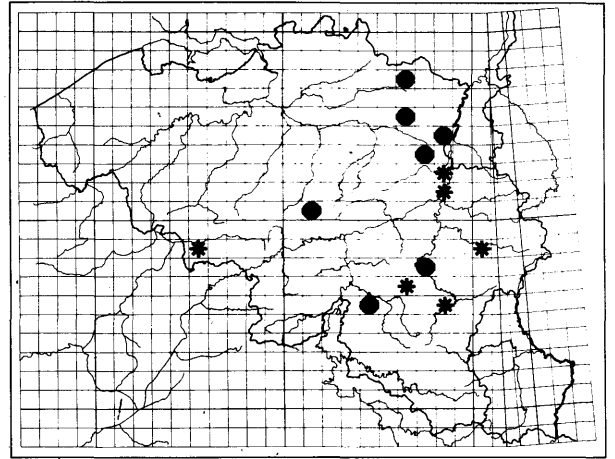
1573 — *Aporus (Aporus) unicolor* SPINOLA



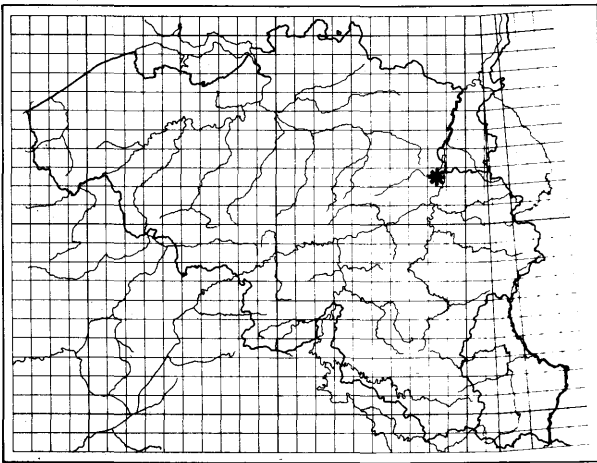
1574 — *Agenioideus (Agenioideus) usurarius* (TOURNIER)



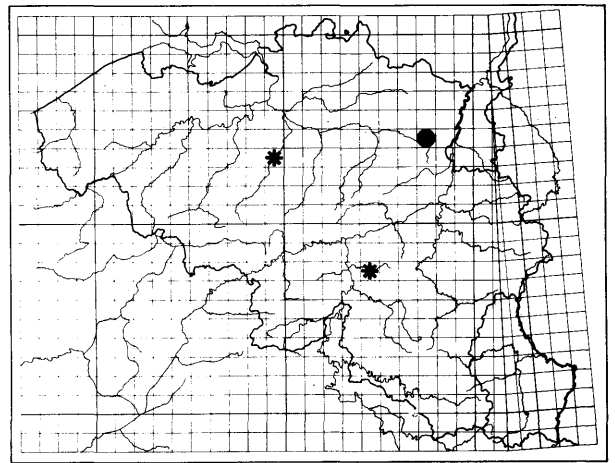
1575 — *Gasterophilus haemorrhoidalis* LINNE



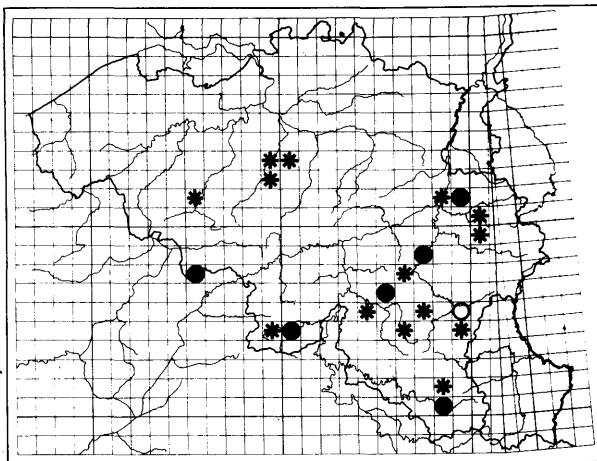
1576 — *Gasterophilus intestinalis* De GEER



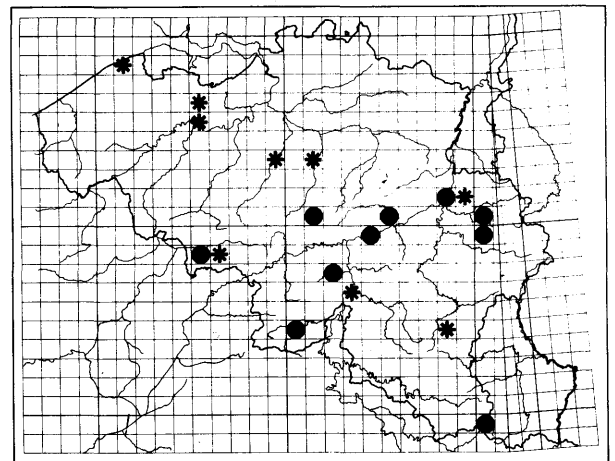
1577 — *Gasterophilus pecorum* FABRICIUS



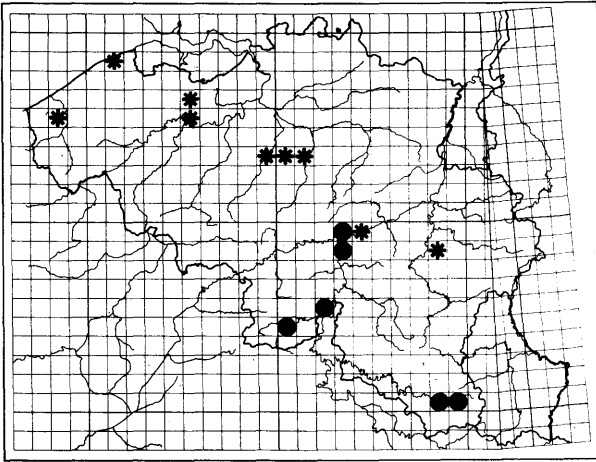
1578 — *Hippobosca equina* LINNE



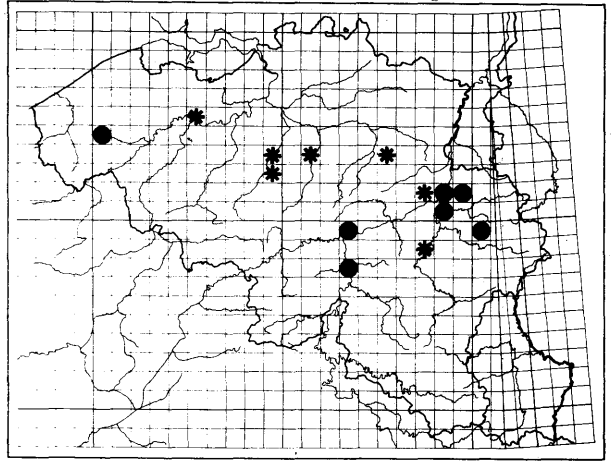
1579 — *Lipoptena cervi* LINNE



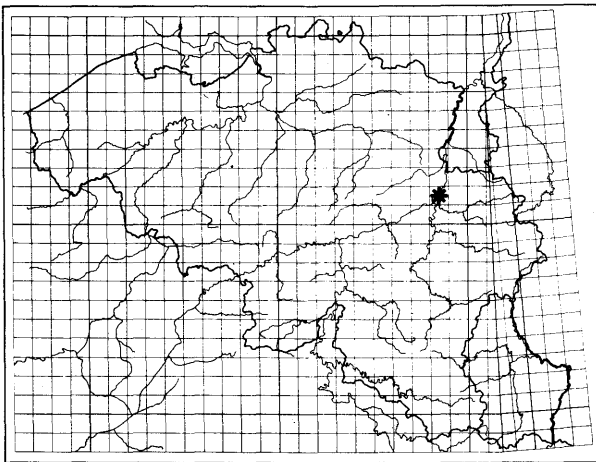
1580 — *Melophagus ovinus* LINNE



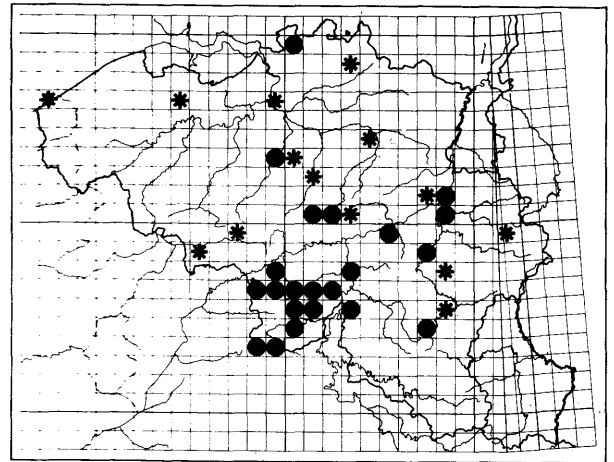
1581 — *Crataerina (Stenepteryx) hirundinis* LINNE



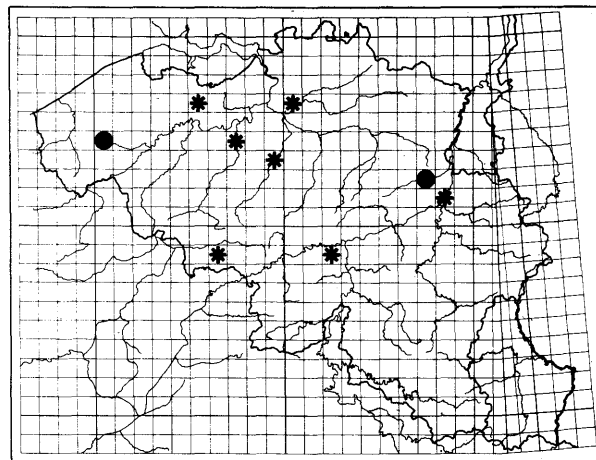
1582 — *Crataerina (Crataerina) pallida* LATREILLE



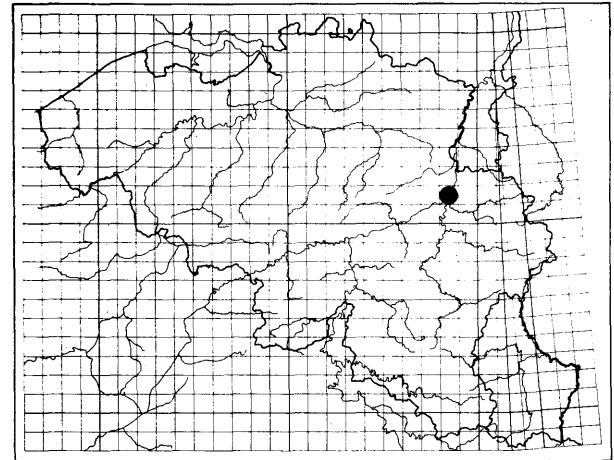
1583 — *Ornithoica turdi* LATREILLE



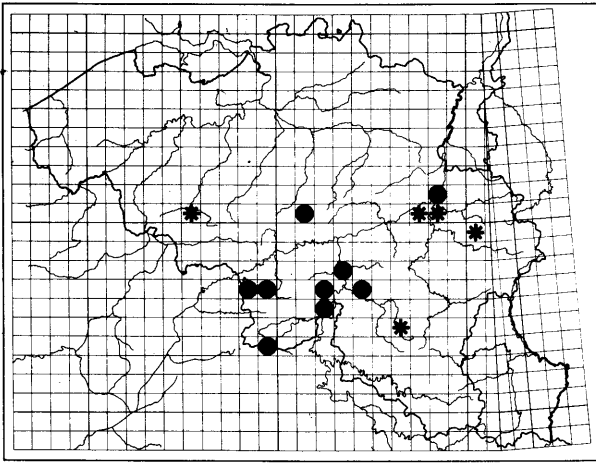
1584 — *Ornithomya avicularia* LINNE



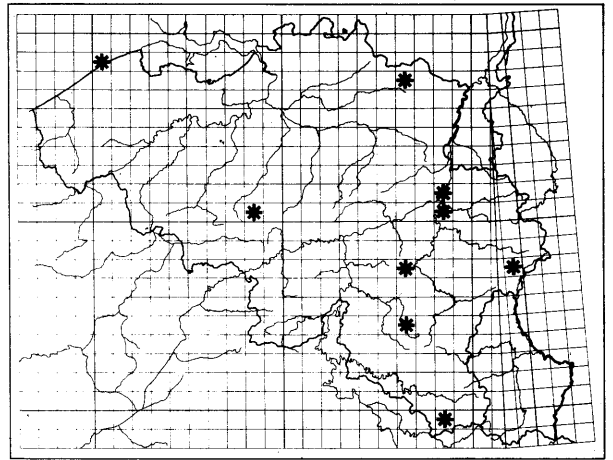
1585 — *Ornithomya biloba* DUFOR



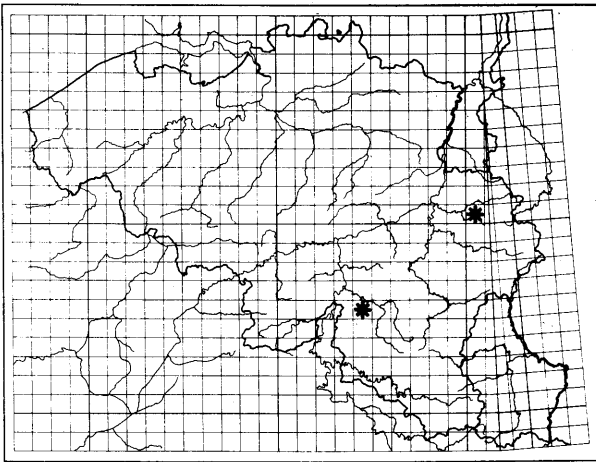
1586 — *Ornithomya chloropus* BERGROTH



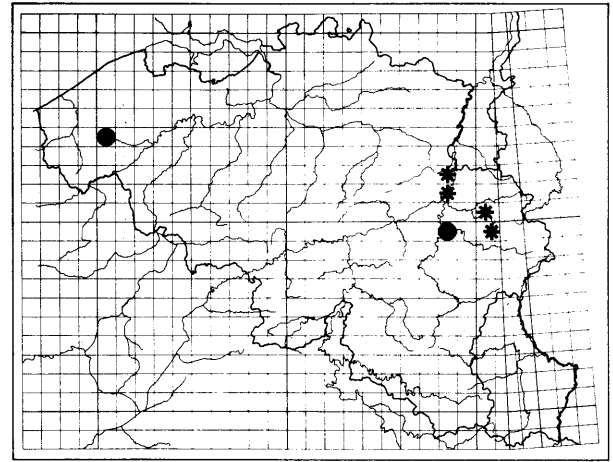
1587 — *Ornithomya fringillina* CURTIS



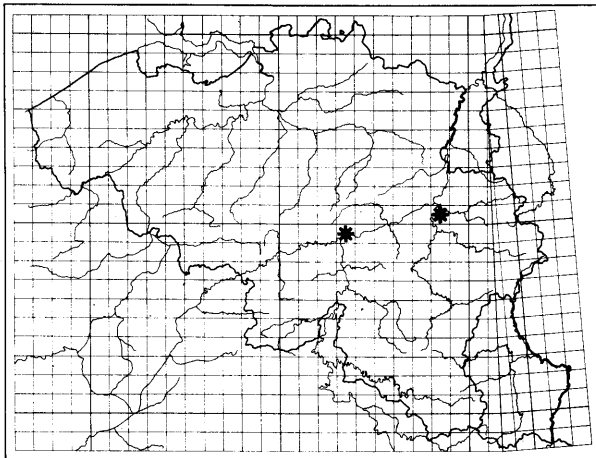
1588 — *Hypoderma bovis* LINNE



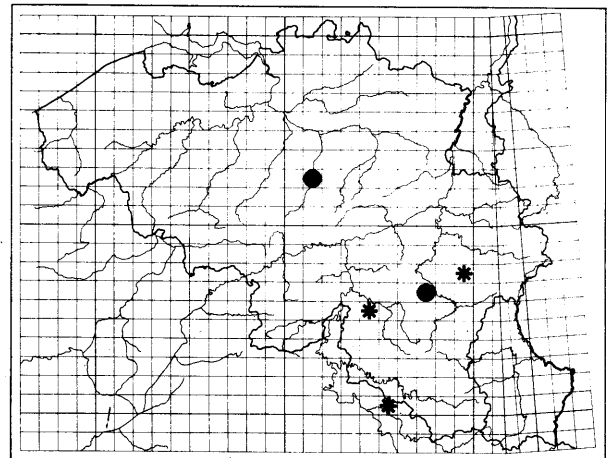
1589 — *Hypoderma diana* BRAUER



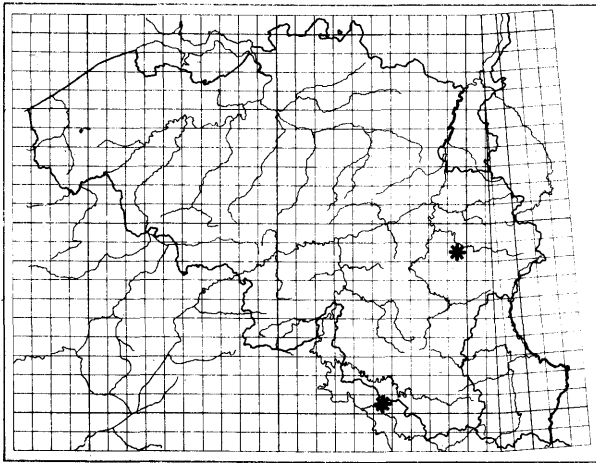
1590 — *Hypoderma lineatum* de VILLERS



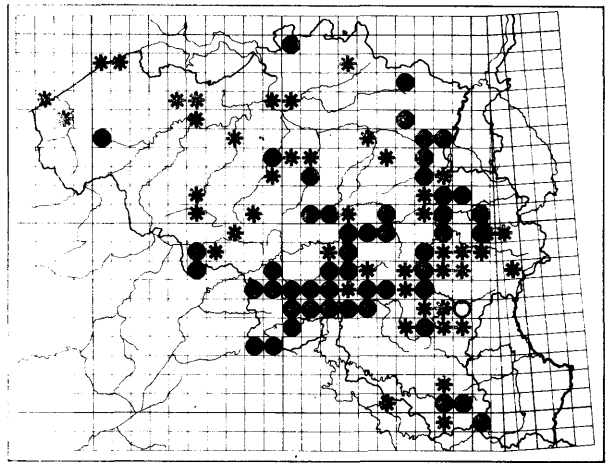
1591 — *Oestrus ovis* LINNE



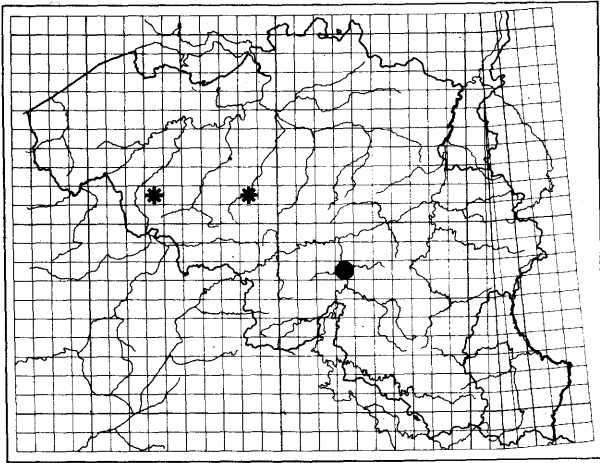
1592 — *Cephemyia stimulator* CLARK



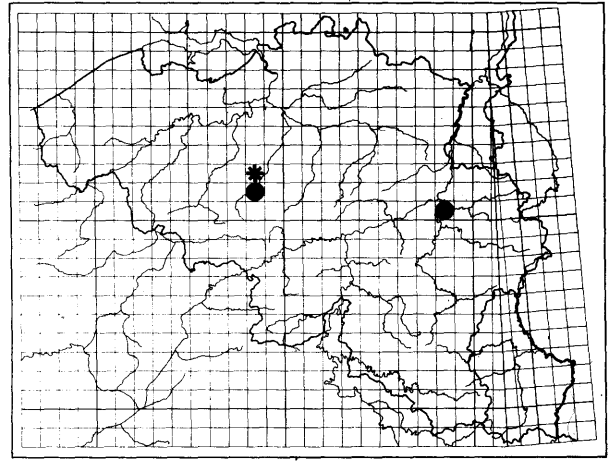
1593 — *Pharyngomyia picta* MEIGEN



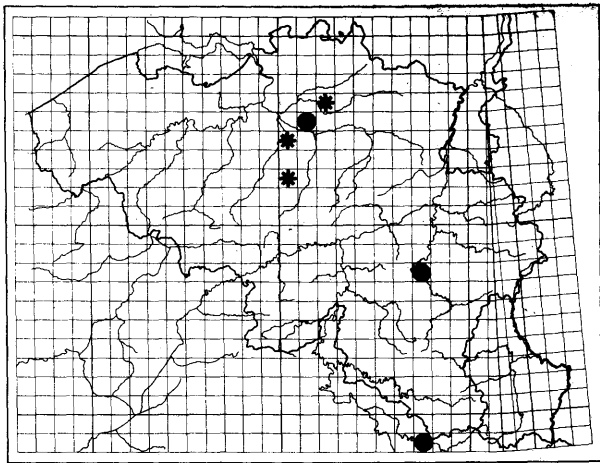
1594 — Somme des données concernant les Diptères Gasterophilidae,
Hippoboscidae et Oestridae (CARTES 1575 à 1593)



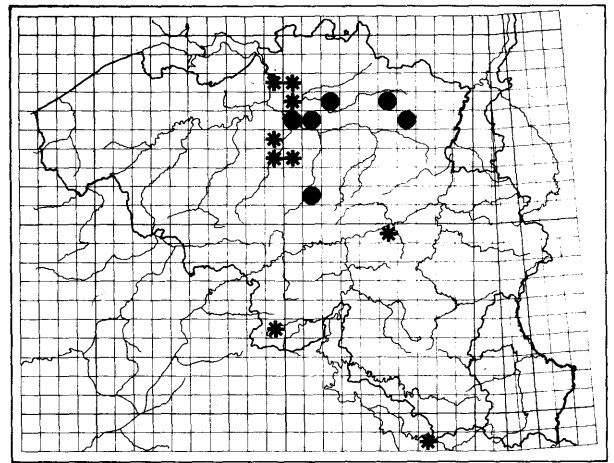
1595 — *Amauronyx maerkeli* (AUBE)



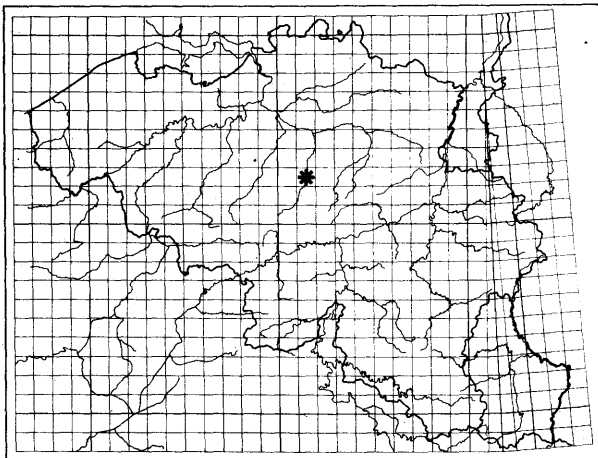
1596 — *Batrisodes oculus* (AUBE)



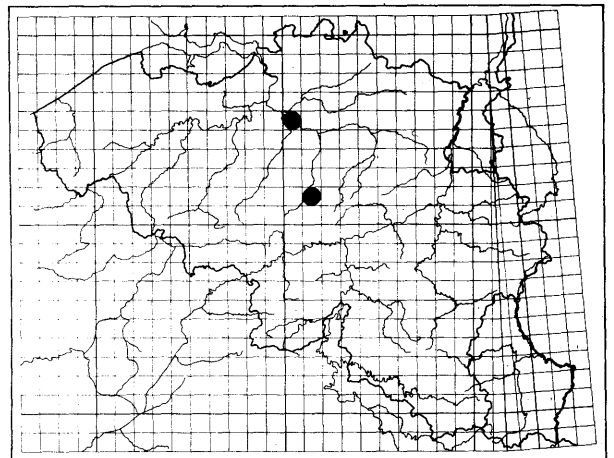
1597 — *Rybaxis longicornis* (LEACH)



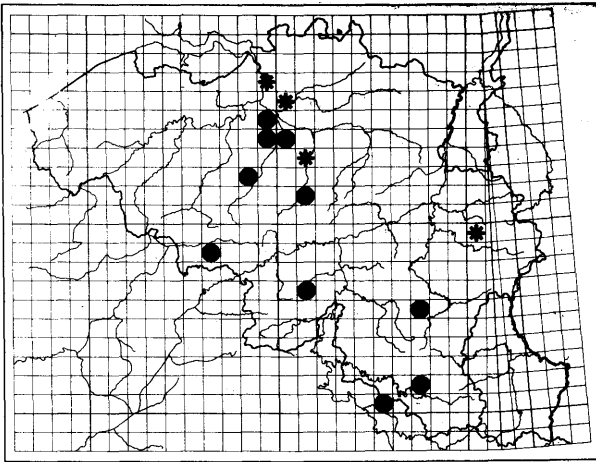
1598 — *Biblopectus ambiguus* (REICHENBACH)



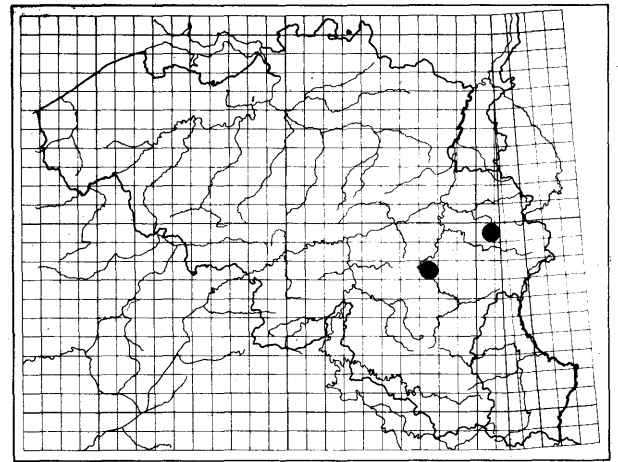
1599 — *Biblopectus minutissimus* (AUBE)



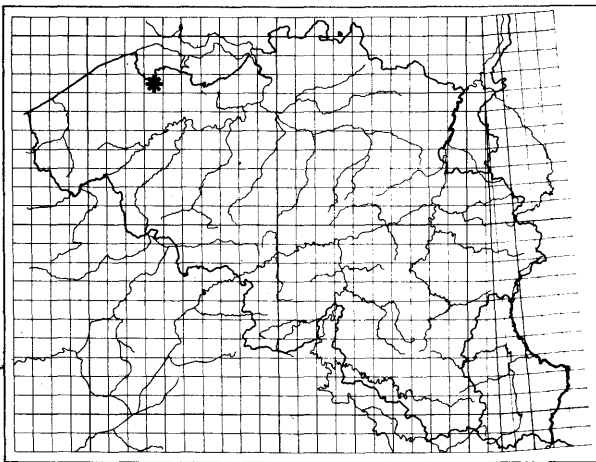
1600 — *Biblopectus tenebrosus* (REITTER)



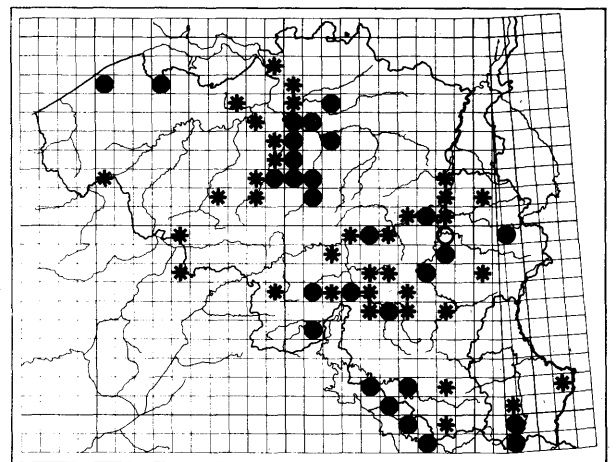
1601 — *Bibloporus bicolor* (DENNY)



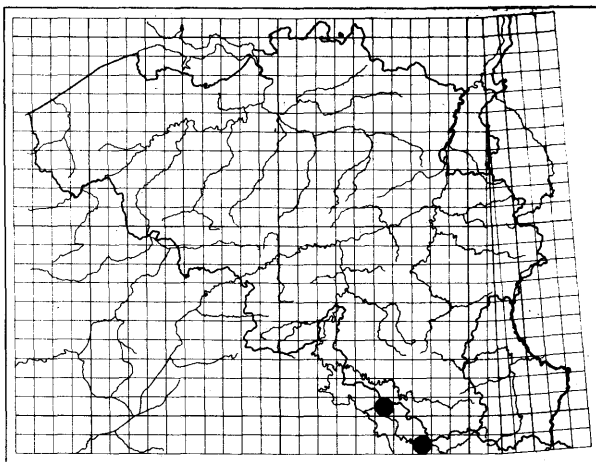
1602 — *Bibloporus minutus* RAFFAY



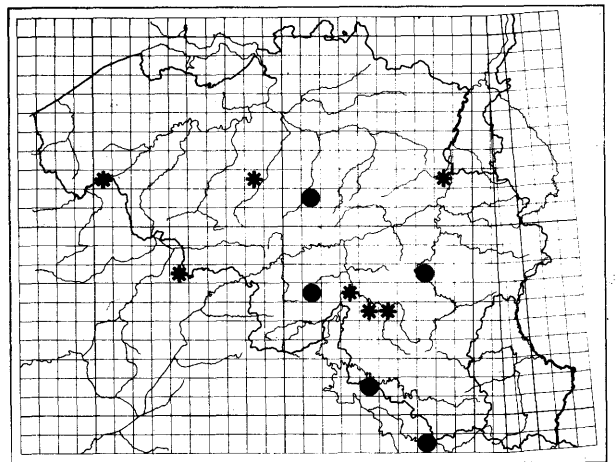
1603 — *Brachygluta simplex* (WATERHOUSE)



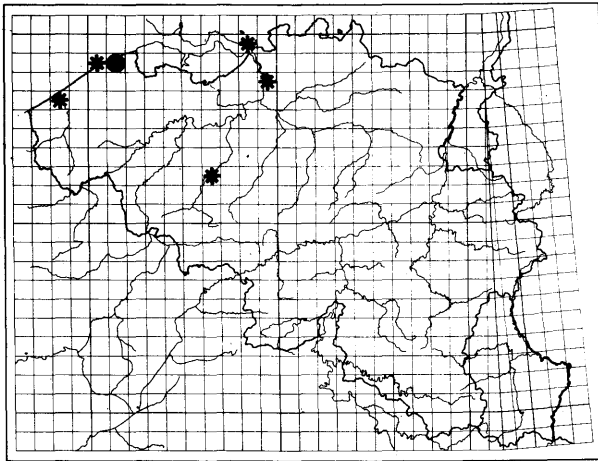
1604 — *Brachygluta fossulata* (REICHENBACH)



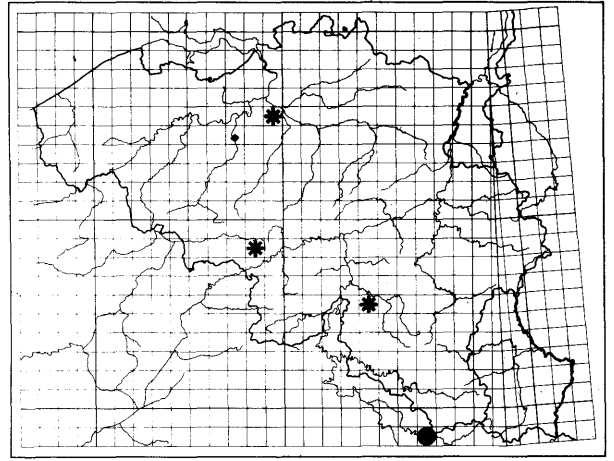
1605 — *Brachygluta guillemardi* (SAULCY)



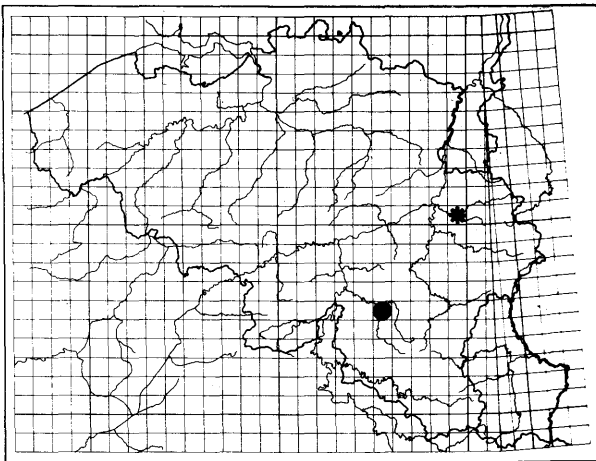
1606 — *Brachygluta haematica* (REICHENBACH)



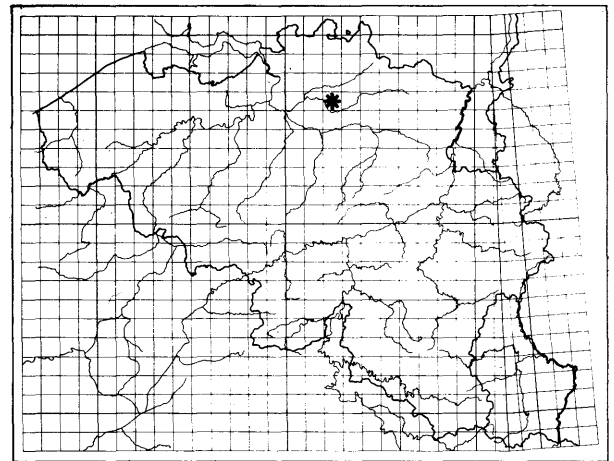
1607 — *Brachygluta helferi* (SCHMIDT-GOEBEL)



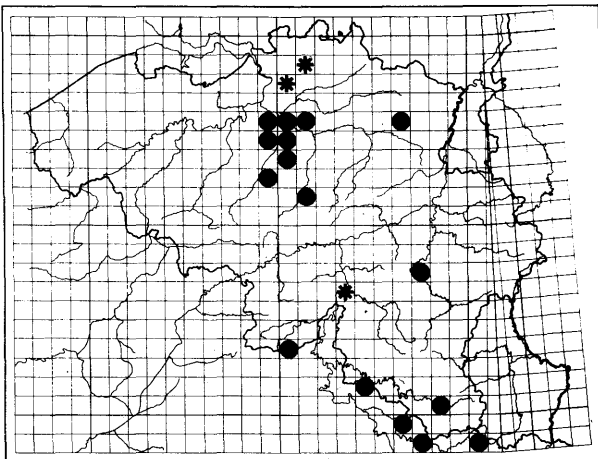
1608 — *Brachygluta perforata* (AUBE)



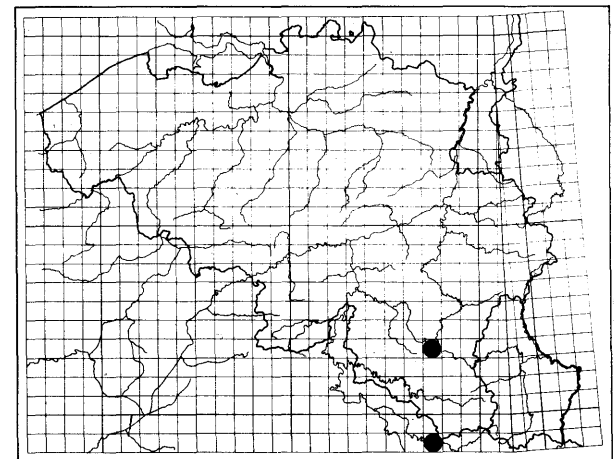
1609 — *Brachygluta xanthoptera* (REICHENBACH)



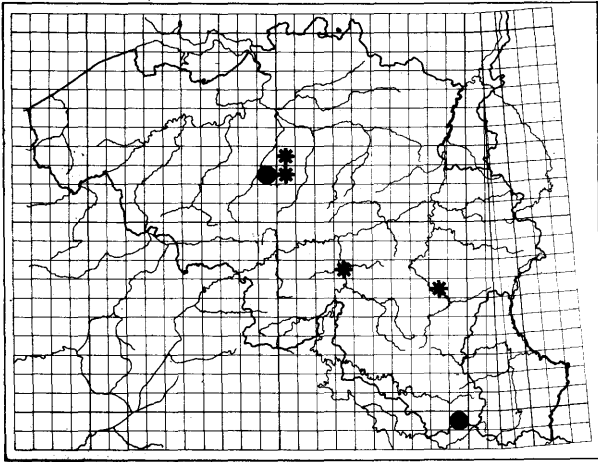
1610 — *Bryaxis laminata* (MOTSCHOULSKY)



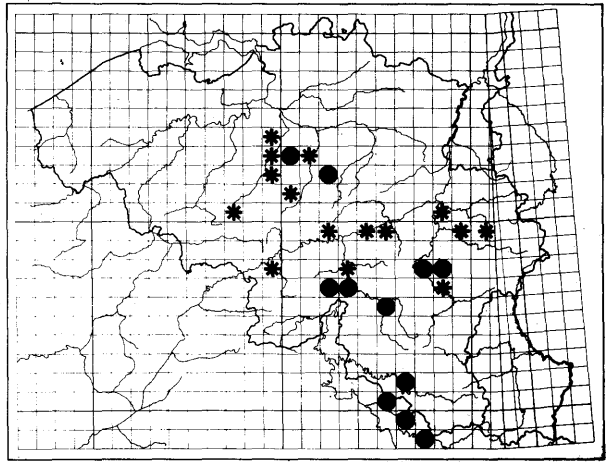
1611 — *Bryaxis bulbifer* (REICHENBACH)



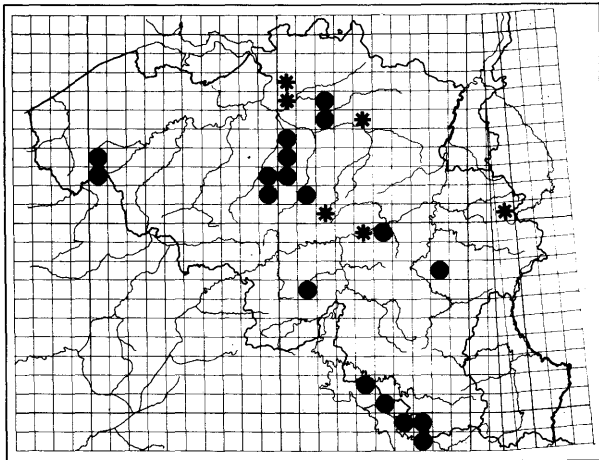
1612 — *Bryaxis carinula* (REY)



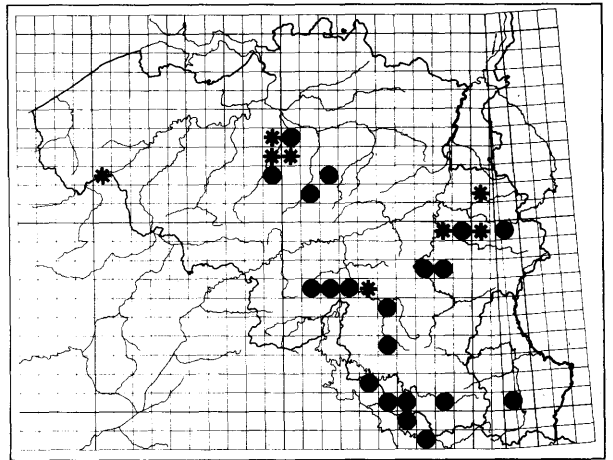
1613 — *Bryaxis clavicornis* (PANZER)



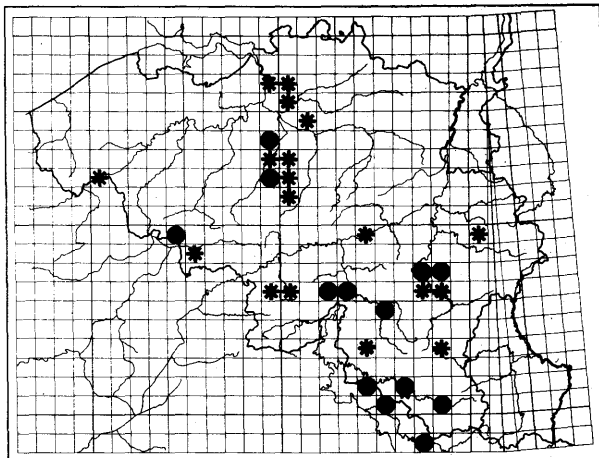
1614 — *Bryaxis curtisi* (LEACH)



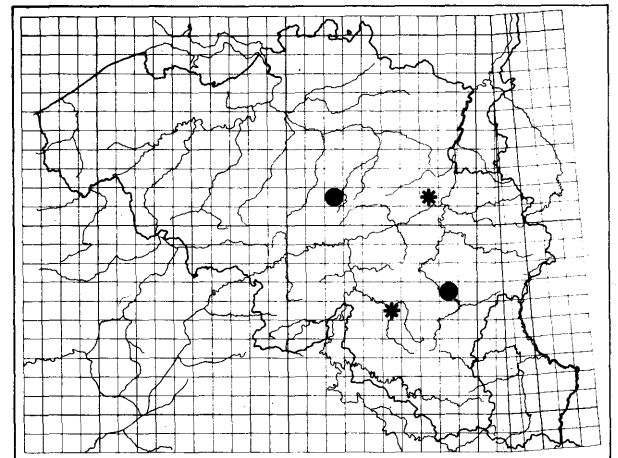
1615 — *Bryaxis puncticollis* (DENNY)



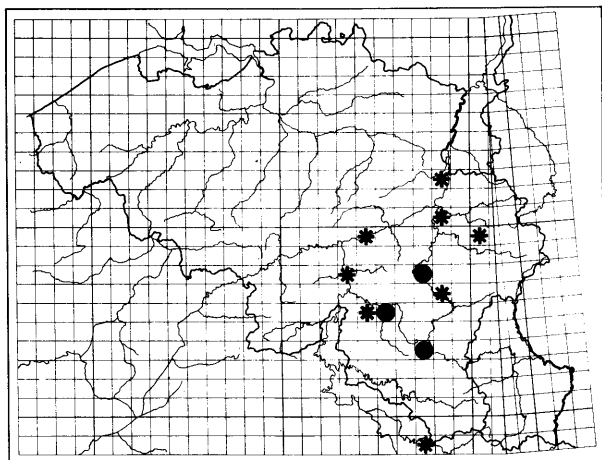
1616 — *Bythinus burelli* DENNY



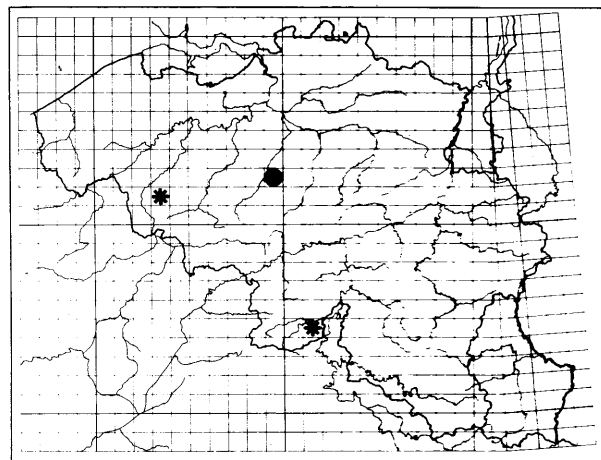
1617 — *Bythinus macropalpus* AUBE



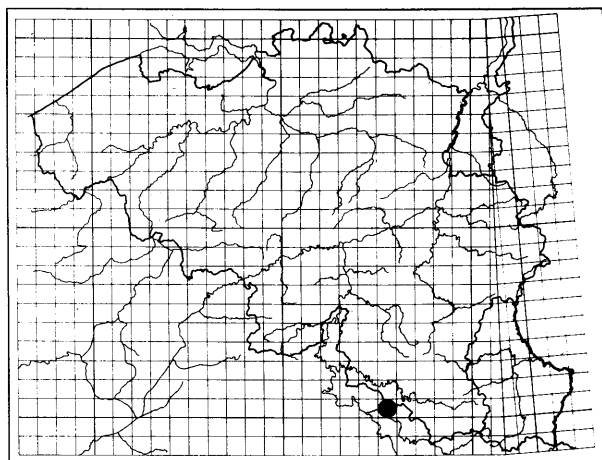
1618 — *Claviger longicornis* MULLER



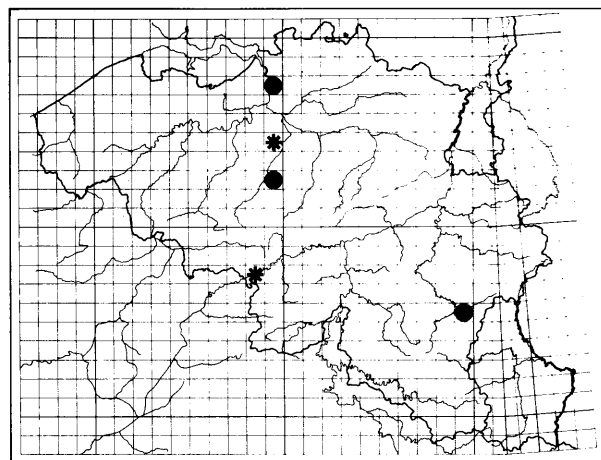
1619 — *Claviger testaceus* PREYSSLER



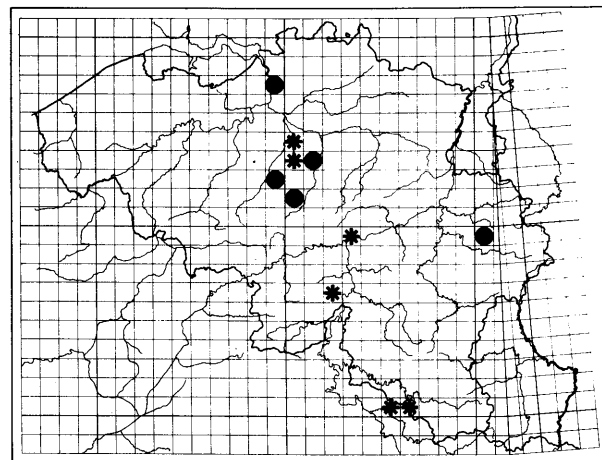
1620 — *Euplectus brunneus* GRIMMER



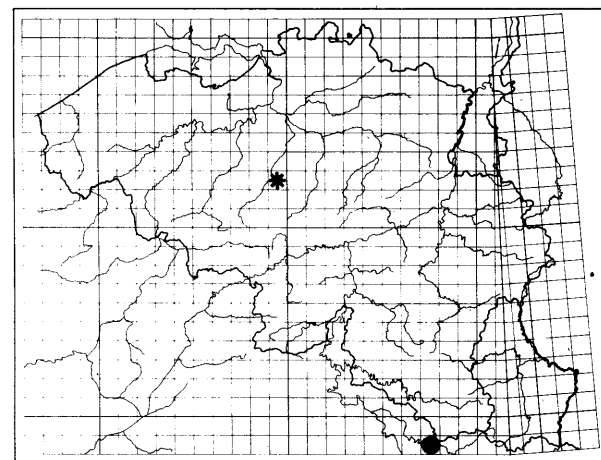
1621 — *Euplectus decipiens* RAFFRAY



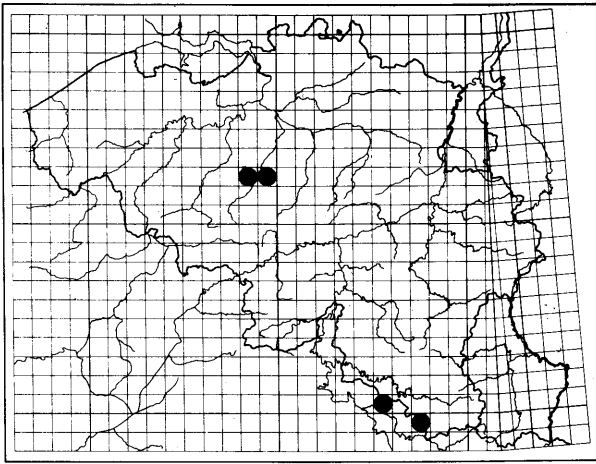
1622 — *Euplectus falsus* BEDEL



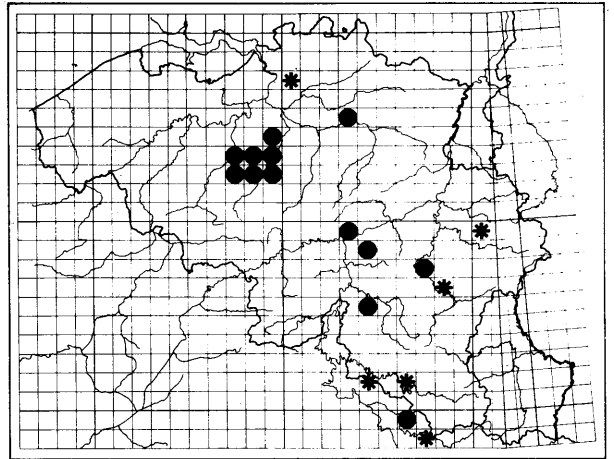
1623 — *Euplectus karsteni* (REICHENBACH)



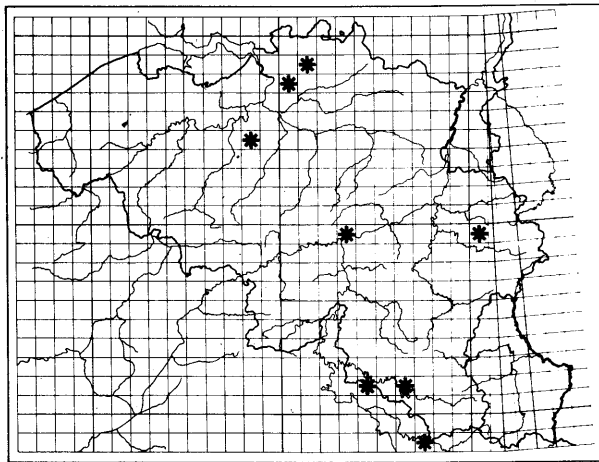
1624 — *Euplectus nanus* (REICHENBACH)



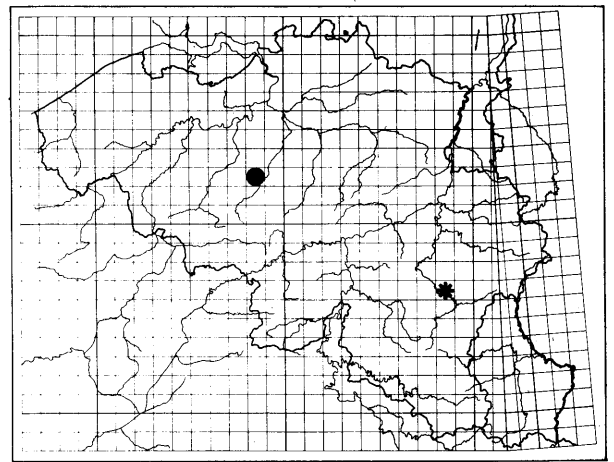
1625 — *Euplectus piceus* MOTSCHOUJSKY



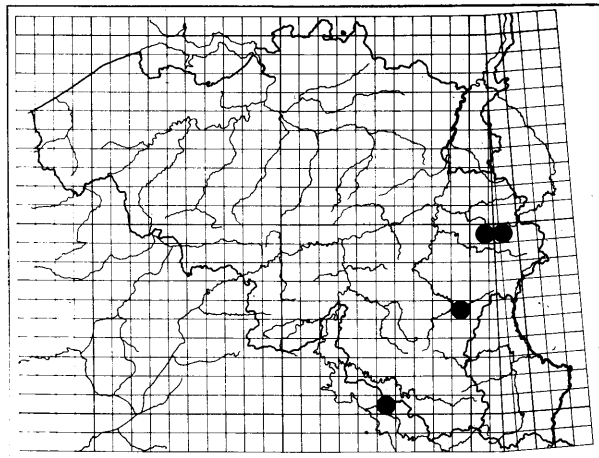
1626 — *Euplectus sanguineus* DENNY



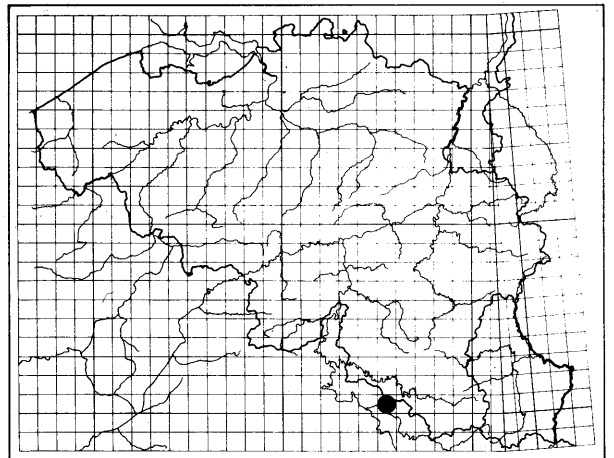
1627 — *Euplectus signatus* (REICHENBACH)



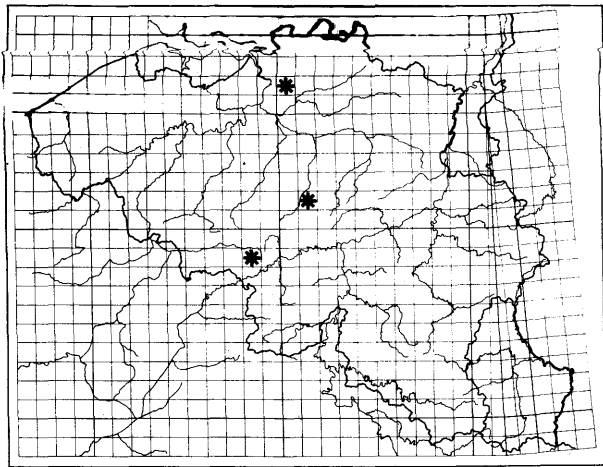
1628 — *Plectophloeus erichsoni* (AUBE)



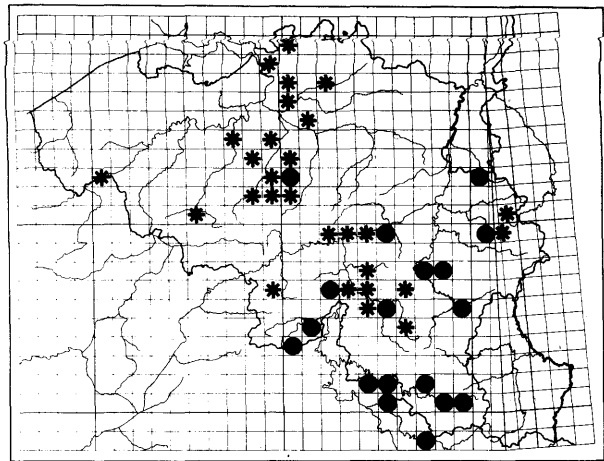
1629 — *Plectophloeus fischeri* (AUBE)



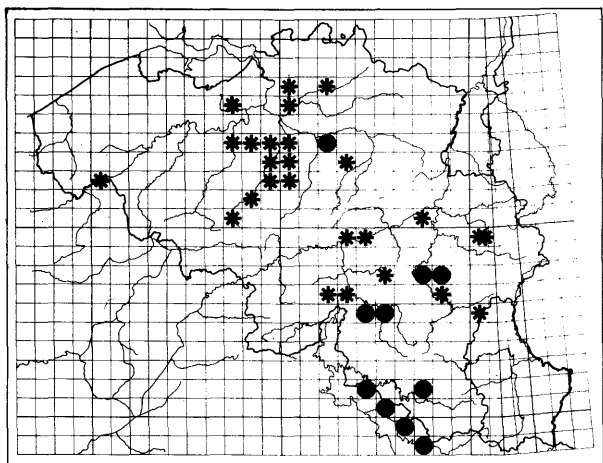
1630 — *Plectophloeus nubigena* (REITTER)



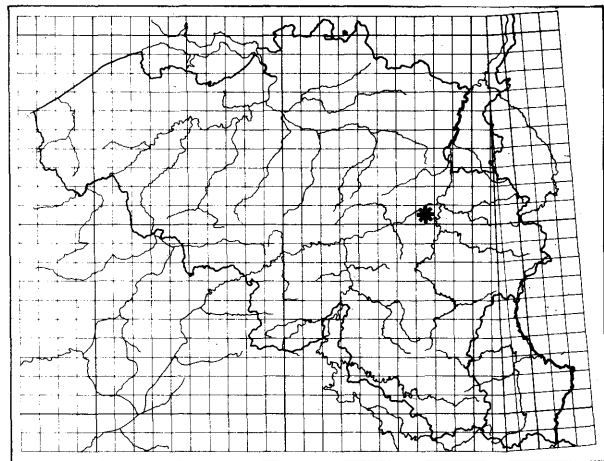
1631 — *Pselaphaulax dresdensis* (HERBST)



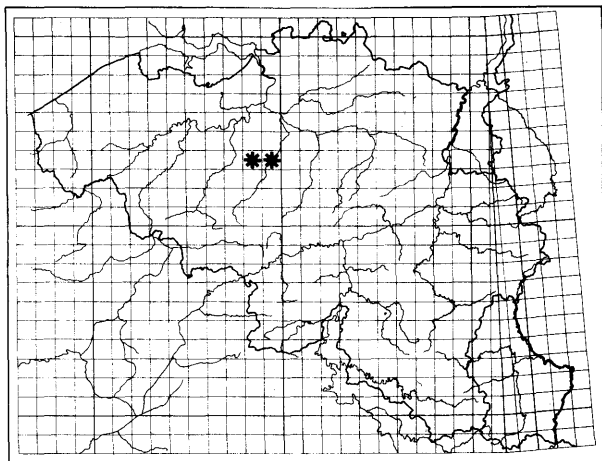
1632 — *Pselaphus heisei* HERBST



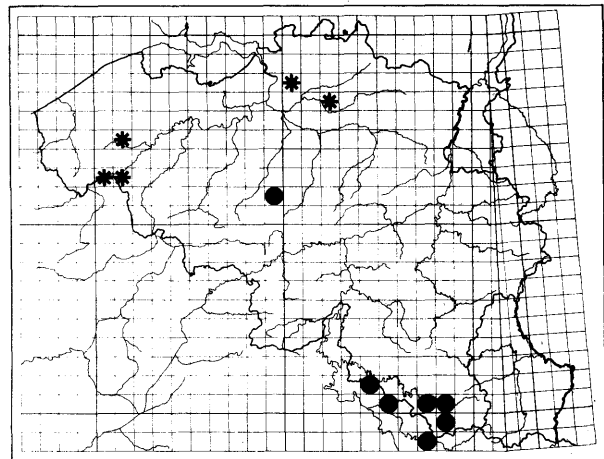
1633 — *Reichenbachia juncorum* LEACH



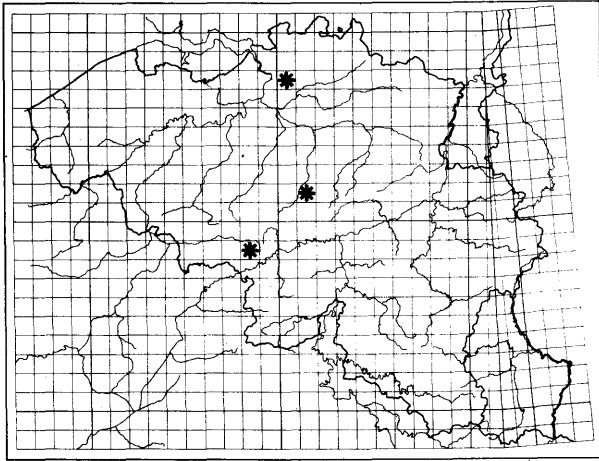
1634 — *Tychobythinus belgicus* (JEANNEL)



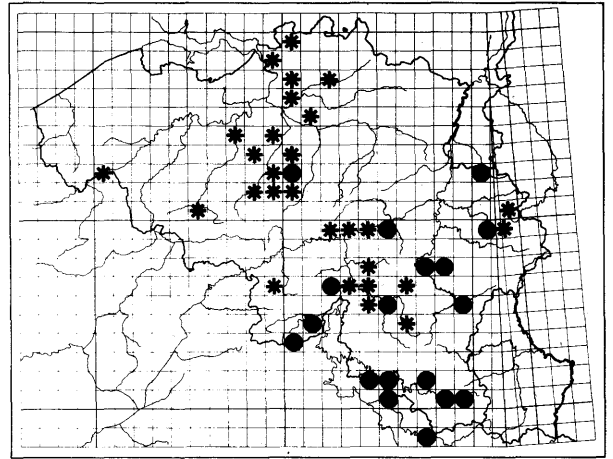
1635 — *Trichonyx sulcicollis* (REICHENBACH)



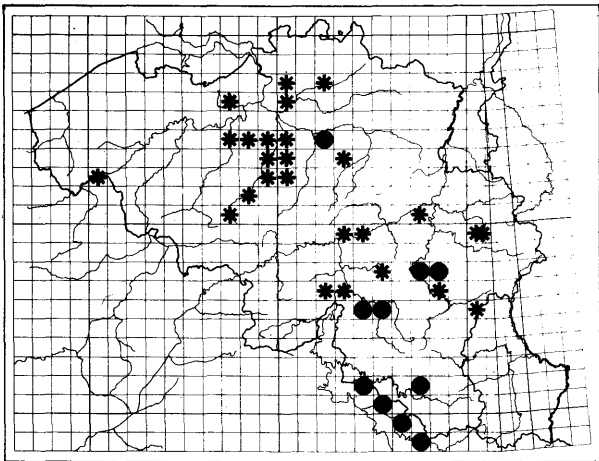
1636 — *Trimium brevicorne* (REICHENBACH)



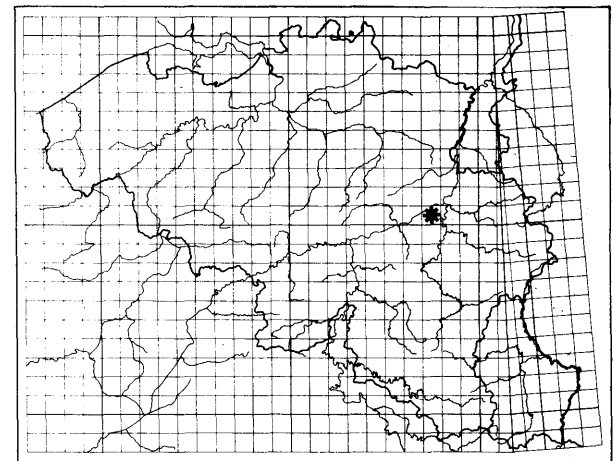
1631 — *Pselaphaulax dresdensis* (HERBST)



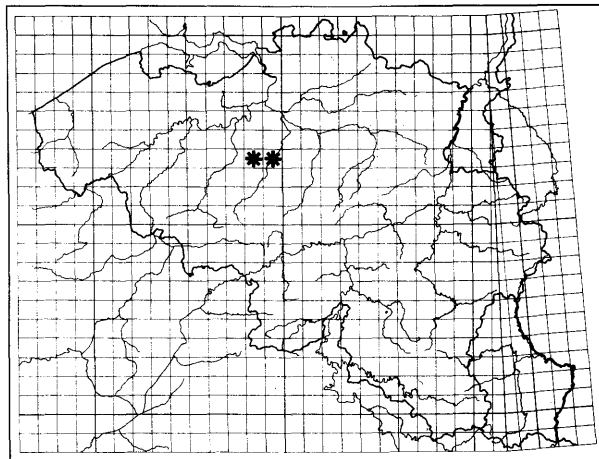
1632 — *Pselaphus heisei* HERBST



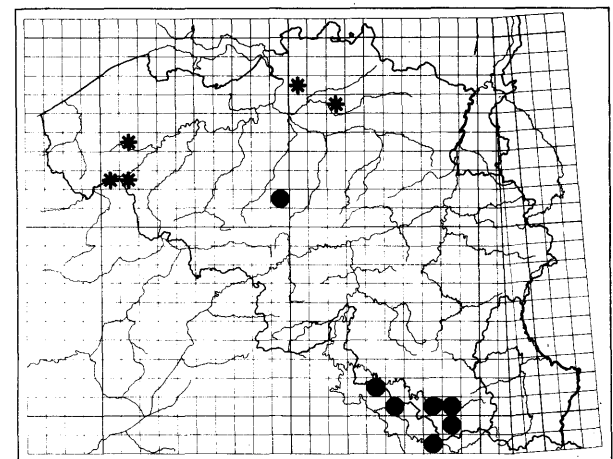
1633 — *Reichenbachia juncorum* LEACH



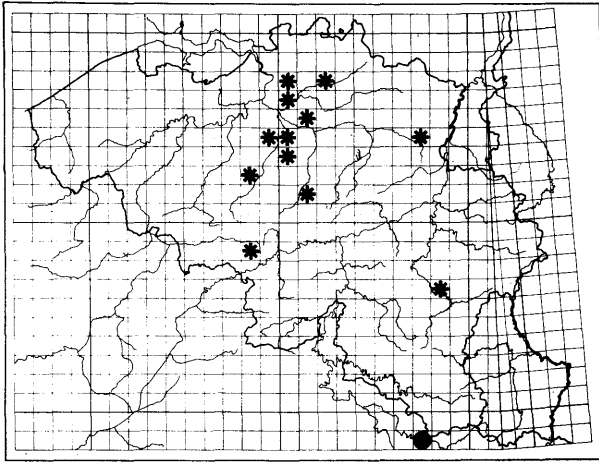
1634 — *Tychobythinus belgicus* (JEANNEL)



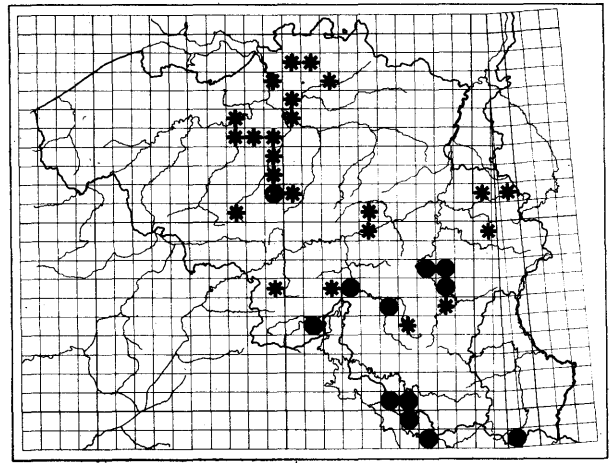
1635 — *Trichonyx sulcicollis* (REICHENBACH)



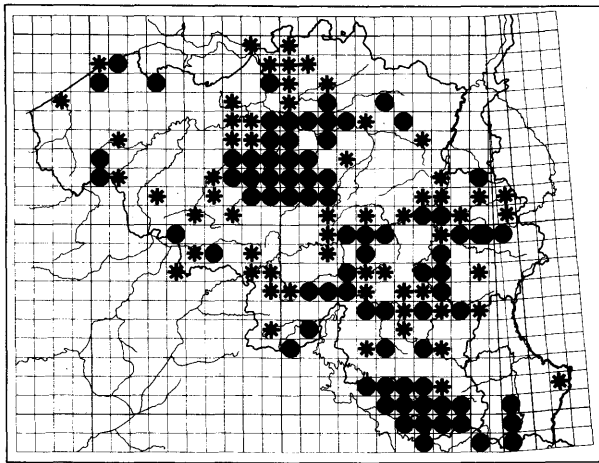
1636 — *Trimium brevicorne* (REICHENBACH)



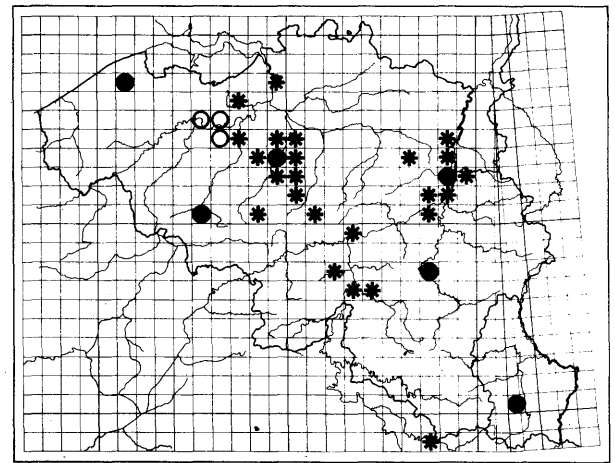
1637 — *Trissemus impressus* (PANZER)



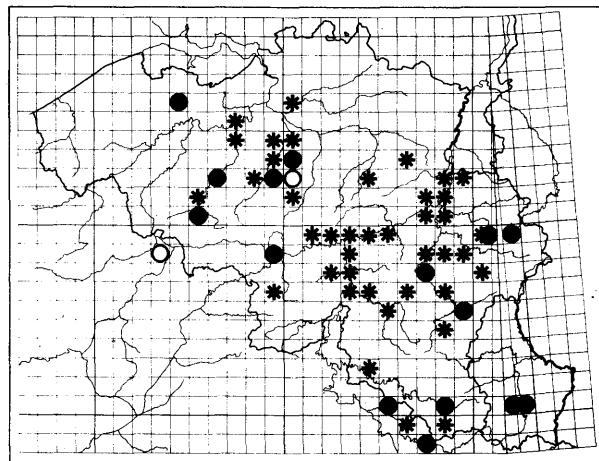
1638 — *Tychus niger* (PAYKULL)



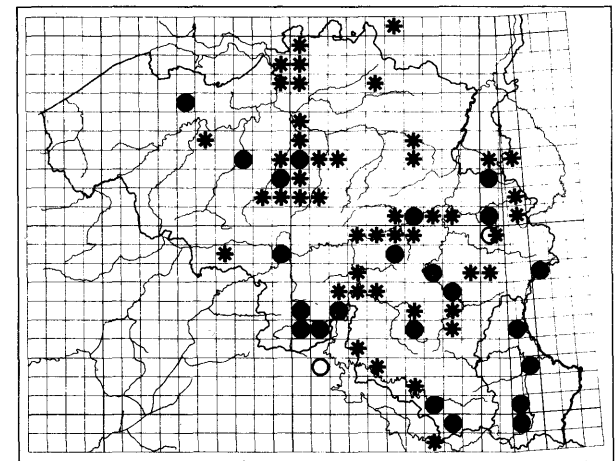
1639 — Somme des données concernant les Coléoptères
Pselaphidae (Cartes 1595 à 1638)



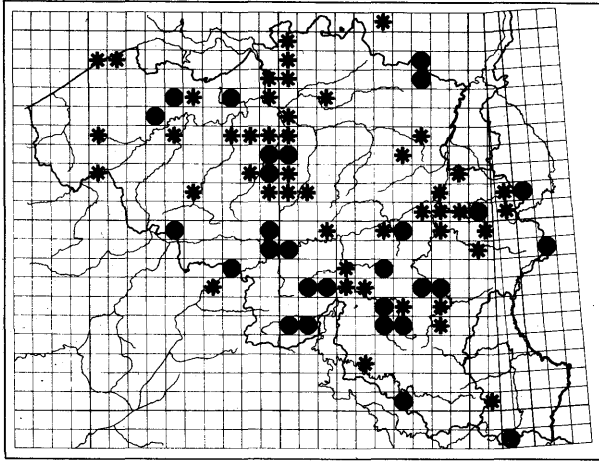
1640 — *Otiorrhynchus raucus* (F.)



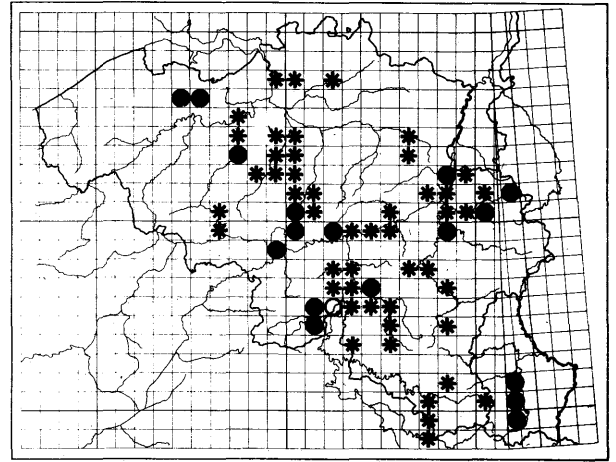
1641 — *Otiorrhynchus porcatus* (HERBST)



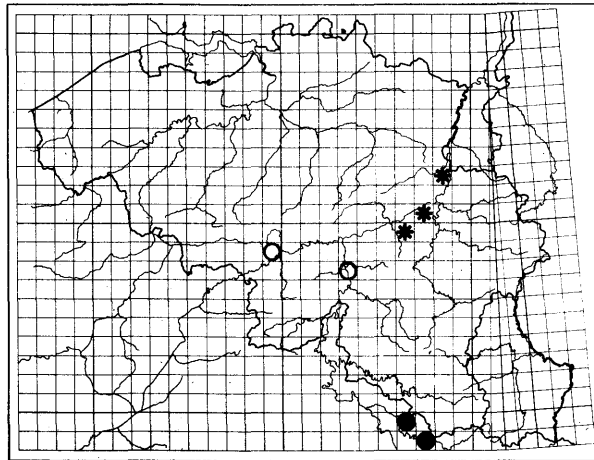
1642 — *Phyllobius argentatus* (L.)



1643 — *Phyllobius calcaratus* (F.)



1644 — *Sciaphilus asperatus* (BONSDORFF)



1645 — *Mecaspis alternans* (HERBST)