

# CARBINIDAE OF CORNWALL



**Keith NA Alexander**

## Family CARABIDAE Ground Beetles

The county list presently stands at 238 species which appear to have been reliably recorded, but this includes 6 which appear to be extinct in the county, at least three casual vagrants/immigrants, two introductions, two synanthropic (and presumed long-term introductions) and one recent colonist. That makes 229 resident breeding species, of which about 63% (147) are RDB (8), Nationally Scarce (46) or rare in the county (93).

Where a species has been accorded “Nationally Scarce” or “British Red Data Book” status this is shown immediately following the scientific name.

The various categories are essentially as follows:

RDB - species which are only known in Britain from fewer than 16 of the 10km squares of the National Grid.

- Category 1 Endangered - taxa in danger of extinction
- Category 2 Vulnerable - taxa believed likely to move into the endangered category in the near future
- Category 3 Rare - taxa with small populations which are not at present endangered or Vulnerable, but are at risk

Notable Nationally Scarce - taxa which do not fall within RDB categories but which are none-the-less very uncommon in Britain and thought to occur in fewer than a hundred 10km squares of National Grid.

Local status, i.e. in Cornwall and the Isles of Scilly, is commented upon where sufficient information is believed to be available:

- County Rare- 1-3 sites known in the county since 1950;
- County Scarce - 10 or fewer sites known in county; or decline since 1950.

These statuses have not been applied precisely as the county has clearly been under-recorded, and especially in the case of “ordinary countryside”; some allowance is made for this in forming a judgement on the status that is most appropriate given current knowledge - they should be regarded as provisional

The **locally extinct** species and their main assemblage types are:

- Fine sand or shingle by water:
  - Asaphidion pallipes* (River Camel, VCH, but not found by recent surveys)
  - Bembidion bipunctatum* (Gannel Estuary, VCH)
- Grasslands on free-draining soils, presumably maintained by exposure or grazing
  - Harpalus honestus* (Whitsand Bay and Gerrans Bay 1897, also old records from Bude and Isles of Scilly);
- Sand dunes and heaths, probably where grazed
  - Anisodactylus nemorivagus* (Land's End, 1890)
  - Harpalus servus* (Lelant Towans, 1891);
- Open stony, sparsely-vegetated areas on free-draining soils, presumably maintained either by exposure or grazing:
  - Ophonus puncticollis* (Newquay area, 1880)

UK BAP species are:

- Semi-natural pasture on freely-draining soils:
  - Necklace Ground Beetle *Carabus monilis* (last report Carn Brea, 1959)
- Open heath vegetation, generally maintained by grazing:
  - Kugelann's Ground Beetle *Poecilus kugelanni* (current colony at Dannonchapel, but old records more widely)
- Ancient wood pasture and other grazed humid situations:
  - Blue Ground Beetle *Carabus intricatus* (substantial population in SE of county, centred on Lower Fowey Catchment)
- Dead twigs and branches on open-grown trees and shrubs:
  - Philorhizus quadrisignatus* (Porthgwarra, 1963 & Marazion, VCH)

The RDB species are:

- Grasslands on free-draining soils, presumably maintained either by exposure or grazing:
  - Harpalus honestus* – see extinct species above
- Open stony, sparsely-vegetated areas on free-draining soils presumably maintained either by exposure or grazing:
  - Ophonus puncticollis* – see extinct species above
- On dry sandy soils, usually on coast, presumably maintained by exposure or grazing:
  - Ophonus sabulicola* (Looe, VCH)
- Open heath vegetation, generally maintained by grazing:
  - Poecilus kugelanni* – see BAP species above
- Unimproved flushed grass pastures with Devil's-bit-scabious:
  - Lebia cruxminor* ('Bodmin Moor', 1972 & Treneglos, 1844)
- Damp areas within dry sandy heaths, probably maintained structurally by grazing:
  - Amara famelica* (Tucking Mill, 1943)
- Freshwater trickles over sand or shingle:
  - Lionychus quadrillum* (current populations on Loe Bar coast and Keveral Beach, Seaton; old reports from Swanpool, VCH; Looe area, 1919 & 1934; Donderry, 1915 & 1916)
- Salt marshes:
  - Anisodactylus poeciloides* (VCH, no details)
- Partly vegetated dry sand or shingle along coastal cliffs:
  - Philorhizus vectensis* (5 sites currently known, mostly south coast; also one old record)
- Open sandy areas within coastal sand dunes (currently confined in GB to north west England):
  - Cicindela hybrida* (Gwithian, 1958) probably just a casual immigrant
- Sand dunes, presumably where maintained by grazing:
  - Harpalus melancholicus* (Sennen Cove area, 1897 & 1964; Newquay area 1902)
- Ancient wood pasture and other grazed humid situations:
  - Carabus intricatus* – see BAP Species above
- Dead twigs and branches on open-grown trees and shrubs:
  - Philorhizus quadrisignatus* – see BAP species above

It is particularly striking that most of these species are associated with semi-natural vegetation maintained by traditional grazing systems, and where the more exposed sea-cliff situations may have provided the last refugia. The precise ecological requirements of most of these species are poorly understood, however, and it may be that the habitat categories overlap more than is indicated above.

Recorders	
Brewster, 1975	
Champion, 1897	Champion, G.C., 1897b. A preliminary list of Coleoptera and Hemiptera of the Scilly Islands. Entomologist's Monthly Magazine 33: 217-220.
Champion 1899	Champion, GC, 1899. Coleoptera of the Scilly Islands: a supplementary note. Entomologist's Monthly Magazine 35: 156-157.
Dibb, 1938	
Duff, 1992.	
Keys, 1918.	Keys, J.H., 1918. A list of the maritime, sub-maritime and coast-frequenting Coleoptera of south Devon and south Cornwall, with especial reference to the Plymouth district. Journal of the Marine Biological Association New Series 11 4: 497-513
Luff, 1998	
Townsend 1946.	
Walters, 2010	
Boyce & Walters 2000	
Boyce & Walters 2001	
Boyce & Walters, 1999	
Clark, 1906	Clark, J., 1906, Zoology. In: Page, W. ed. The Victoria County Histories of England: Cornwall. Constable, London. 1: 113-159; 307-352
Fowler & Donisthorpe, 1913	
Tomlin 1912.	
Turner, 2008	

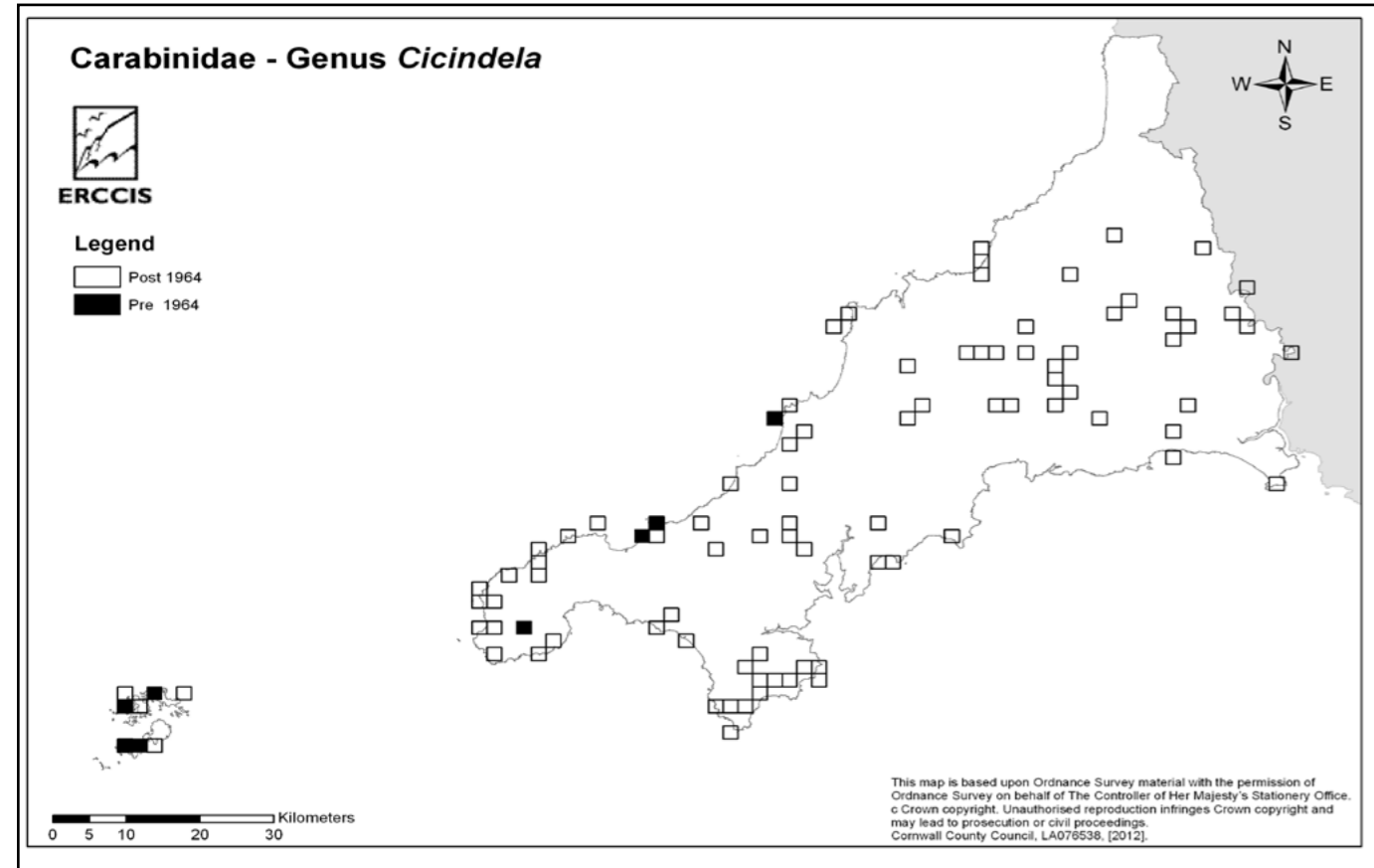
References	
AA Allen	
AJ Allen Invertebrate Site Register;	
APF	Andy P. Foster, a current recorder; resident in county in 1970s, now lives in Wiltshire
AP Fowles	
AS Lazenby	
AS/ A Spalding	Adrian Spalding, a current recorder; resident at Praze-an-Beeble, Camborne
B Edwards	
B Levey	
B Verdcourt ERICA	
CA Brind	
CC Murray	
CC Townsend	
CCW ERCCIS.	
CE Tottenham	
CFH	Christopher Frederick HINCKS Worked on Coleoptera and Strepsiptera when he lived in Penzance, Cornwall. FRES 1963
CMJ.	
CR Turner	
CW Dale	1851/2-1906, very active at the end of the 19th Century; resident of Glavilles Wootton in Dorset
D Collins	
D Hackett	
D Sharp	
DAS	Dave A. Sheppard, carried out a Lizard Invertebrate Survey 1980/81 for the England Field Unit of the Nature Conservancy Council.
Dawson	
DCB	
DIB Hoare	
DR Nash	
DT Bilton	
ECMH	
ED Marquand	Ernest D Marquand 1848-1918 of Alphington, Exeter; active in the Lands End district in mid to late 19th Century; resident in county for a period, died at Totnes
EE Lowe	
F Holme	
FA Turk	
FD Buck	
GCC	G.C. Champion 1851-1927, of Woking, Surrey, and primarily a Coleoptera specialist; visited Portscatho, Scilly, and Penzance between June 19 and July 15, 1897 Champion, 1897a & b.

GM Collins /GMC	
HC Fountain	
IC White	
IM	
IS Carter	
J Cooter	
J Isabell	
J Parry	
J Sadler	
JA Owen	
Jen Bousfield.	
JH Adams	
JH Flint	
JH Keys/ Keys	James H. Keys 1855-1941 of Plymouth; recorded the Whitsand Bay area VC2 very extensively over the period 1897-1921, also visited the Lizard regularly in 1919 and the 1920s; Boscastle, 1898; Rock sandhills, June 1919; Sennen Cove, July 1928. His "Plymouth" records include both Cornwall and Devon sites. He discovered thyme lace bug new to Britain on the Lizard in 1919.
JHK	
JJ Reading	
JJ Walker	1851-1952 was a regular visitor to Scilly during 1919-32 and also visited St Merryn, July 1925; based at British Museum Nat Hist in London
JMW	John M. WHITEHEAD, Gave and sold more than 1,800 beetles to Glasgow Museum in three lots between 1917 and 1926; 676 were described as foreign and the remainder as British and European
KC Side	
KG Blair	K.G. Blair 1882-1952 was a regular visitor to Scilly during 1919-32 and also visited St Merryn, July 1925; based at British Museum Nat. Hist. in London
KNAA	Keith N.A. Alexander, a current recorder; resident in Exeter.
L Christie	
M Lee	
MGT	
Miss M Harris ERICA	
ML Denton	
ML Luff.	
N Onslow	

NH Joy/NHJ	JOY, Norman Humbert 1874 – 20 January 1953 MRCS and LRCP and was in practice as a medical doctor for 30 years in Berkshire and Kilburn. Charles MacKech-nie Jarvis, who was a friend and wrote his obituary in EMM, 89, 1953, p. 213, remembered him as "a genial man of somewhat excitable character". In 1902 he was living at Bradfield; June 1920 at Theale; 1923–c.1932 at 78 Crescent Rd., Reading; and from 1932 at Kilburn
P & M Ashmole	
P de la Garde	
P Kirby	Peter Kirby, of Peterborough; has made a series of vis-its; 1985, north-east area inc. Coombe valley & Doz-mary Pool; 1987, Isles of Scilly & Sennen Cove; 1992, Lizard; 1999, south-east inc Whitesand Bay
P Mycock	
P Skidmore	
P Whitton	
PAG	Paul A Gainey, a current recorder, resident in Penryn.
PC Tinning	
Peter Mycock ERCCIS	
PJ Hodge/PJH	Peter J Hodge of Lewes, Sussex; many recent visits
R Murphy	
R Nash	
RE Hearle	
RE Stebbings	
RG Booth	
RL Mason	
RM Lyszkowski	
RS Key/RSK	
RTB	R.T. Bannister d. 1979: resident, primarily a coleopter-ist, based at Penzance for much of the 20th century
Rudd	
S Christmas	
S Chudleigh	
SA Jinks	
SBC	
SBC	
SF	
SJ Lambert	
T Harrison	
TV Wollaston	
W Wuertz	
WE Baily	
WFH Ansell	

The species accounts:

Cicindela



*Cicindela campestris* (Linnaeus) Green Tiger Beetle.

A speciality of open ground on dry freely-draining soils, particularly sandy heaths. Very widespread in Cornwall. Cornwall & Scilly (Clark, 1906).

*Cicindela hybrida* (Linnaeus)

**British Red Data Book (Vulnerable).** A speciality of the coastal sand dunes of north west England, with only old records from elsewhere. Not known to Clark (1906). No evidence for a resident population.

SW54 Gwithian, 1958, Miss M Harris – thought to have been identified by FA Turk (ERICA).

*Cicindela maritima* (Latreille & (Dejean))

**Nationally Scarce & County Rare.** Dune Tiger Beetle. A coastal species, inhabiting open sandy areas, including dunes as well as drift line and intertidal zone; mainly Bristol Channel and Cardigan Bay coasts. No evidence for a resident population.

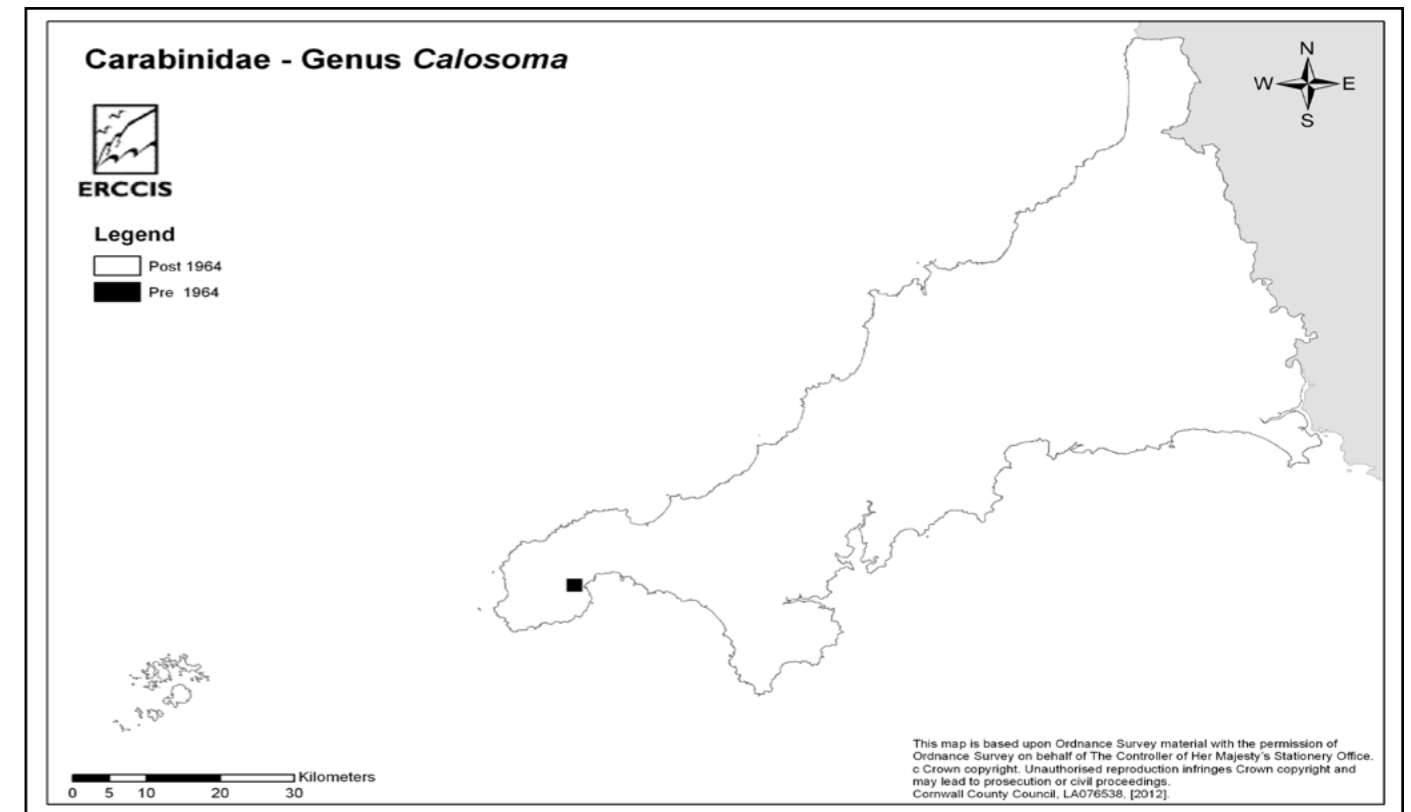
SW75 Holywell Bay (Clark, 1906).

**Brachinus**

*Brachinus crepitans* (Linnaeus)

Nationally Scarce & County Rare. Bombardier Beetle. In open, rather dry country, most often on chalk, limestone and boulder clay; coastal undercliffs and shingle; also inland on calcareous grassland and cereal field margins. Cornwall (Clark, 1906) but not reported since.

[Editor - no locaiton data supplied other than to place this record in VC1]



**Calosoma**

*Calosoma sycophanta* (Linnaeus)

**Casual immigrant.** An active hunter of moth larvae high in the tree canopy on the Continent, but only a vagrant or casual introduction in Britain. A strong flier.

SW42 Penzance, Rudd (Fowler & Donisthorpe, 1913); Paul, 1872, RE Hearle (ERICA).

SX15 Fowey, one on pavement, vi.1899 (Clark, 1906).

**Carabus**

*Carabus arvensis* (Herbst)

Mainly a species of heath and moor nationally, and commonest in areas of relatively high rainfall. Widespread in West Penwith and on the Lizard, but more localised elsewhere in the county.

*Carabus granulatus* (Linnaeus)

Favours permanently moist soils, in alluvial meadows, marshes and fens, as well as wet woodlands. "Apparently scarce" in the county (Clark, 1906) but now known to be relatively widespread; mainly known from the Lizard, West Penwith and along the central moors.

*Carabus monilis* (Fabricius)

**BAP Priority Species; Nationally Scarce & County Rare.** Necklace Ground Beetle. In open, often cultivated country, mainly on freely-draining soils.

SW64 Carn Brea, iv.1959, Miss M Harris (ERICA).

SW83 Portscatho (Clark, 1906).

SW94 Caerhays (Clark, 1906).

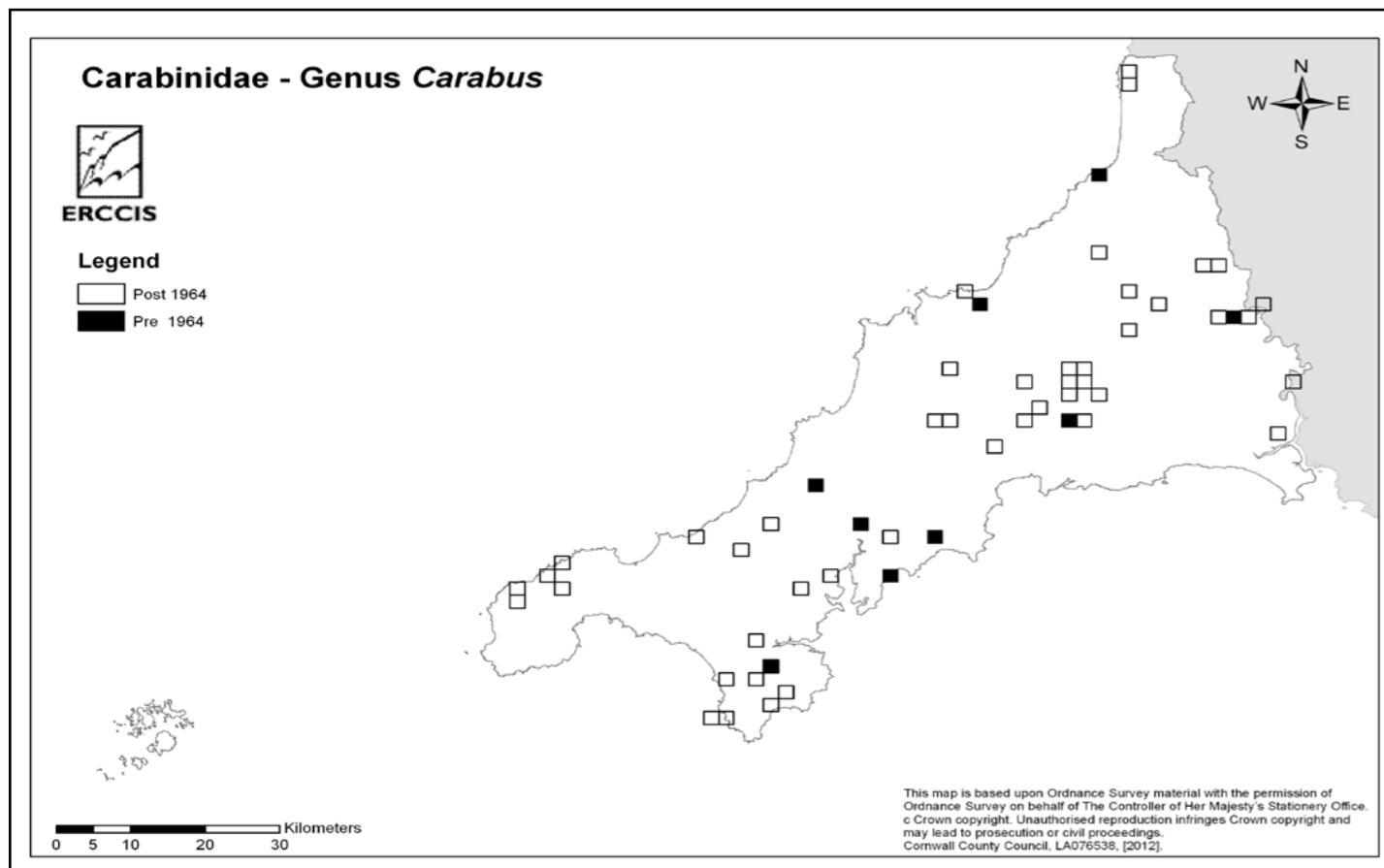
SW98 Near Port Isaac Station, dragging caterpillar, vi.1945, B Verdcourt (ERICA).

*Carabus nemoralis* (Muller, O.F.)

A widespread species nationally, occurring in a wide range of habitats, including gardens. Clark (1906) implies that it was then common in Cornwall, although it appears to have a more restricted distribution today. Most frequently reported from the Lizard Peninsula.

*Carabus problematicus* (Herbst)

Fairly ubiquitous in semi-natural vegetation types across Britain; appears to have declined across lowland England, but still strong across Cornwall. "*Carabus catenulatus*" (Clark, 1906).



*Carabus intricatus* (Linnaeus)

**BAP Priority Species; Red Data Book (Endangered).** Blue Ground Beetle. A central European species which only just extends into SW England; regarded as rare and threatened over much of its range; stronghold is France. Found in mature oak or beech, more or less closed canopy, pasture woodlands along south-facing river valley sides, where it is an active predator of slugs especially Tree Slug *Lehmanna marginatus*. Appears fairly widespread in SE of county, particularly in Fowey Catchment.

SX06 Red Moor, 1978, CA Brind.

SX16 Boconnoc Park, two, 1.iv.1972, KC Side & J Parry; two in hibernation cells in bottom south-west of Colliershill Wood, 14.xii.1997 (Boyce & Walters, 1999); Boconnoc SSSI, two under bark, 19.xi.1999, 18 by night search, 31.v.2000, Boyce & Walters (2000); 29.x.2002, PAG. Stockhouse Wood, Doublebois, two larvae, 1997, CR Turner (Boyce & Walters, 1999). Redrice & Cabilla Woods, one in pitfall trap, v.1997, S Christmas; 24.x.1999 (Boyce & Walters, 1999); 24.v.2000 & 18.xi.2000, Boyce & Walters (2000); Redrice Wood, 6.iv.2001, S Chudleigh; Cabilla Wood area, 29.v.2001, SC; 29.x.2002, PAG; 20.v. & 28.vi.2006 IM; 16.ix.2007 & 22.ix.2010, Jen Bousfield. Leball Wood, 18.xi.2000, Boyce & Walters (2000). Leball, Laneskin, Pinsla Woods, 2001, Boyce & Walters (2001).

SX19 Millook, 2 attracted to lepidopterist's sugar, 1905, G Lupton Allen (Clark, 1906).

SX25 West Looe, viii.1934, CC Murray (Dibb, 1938).

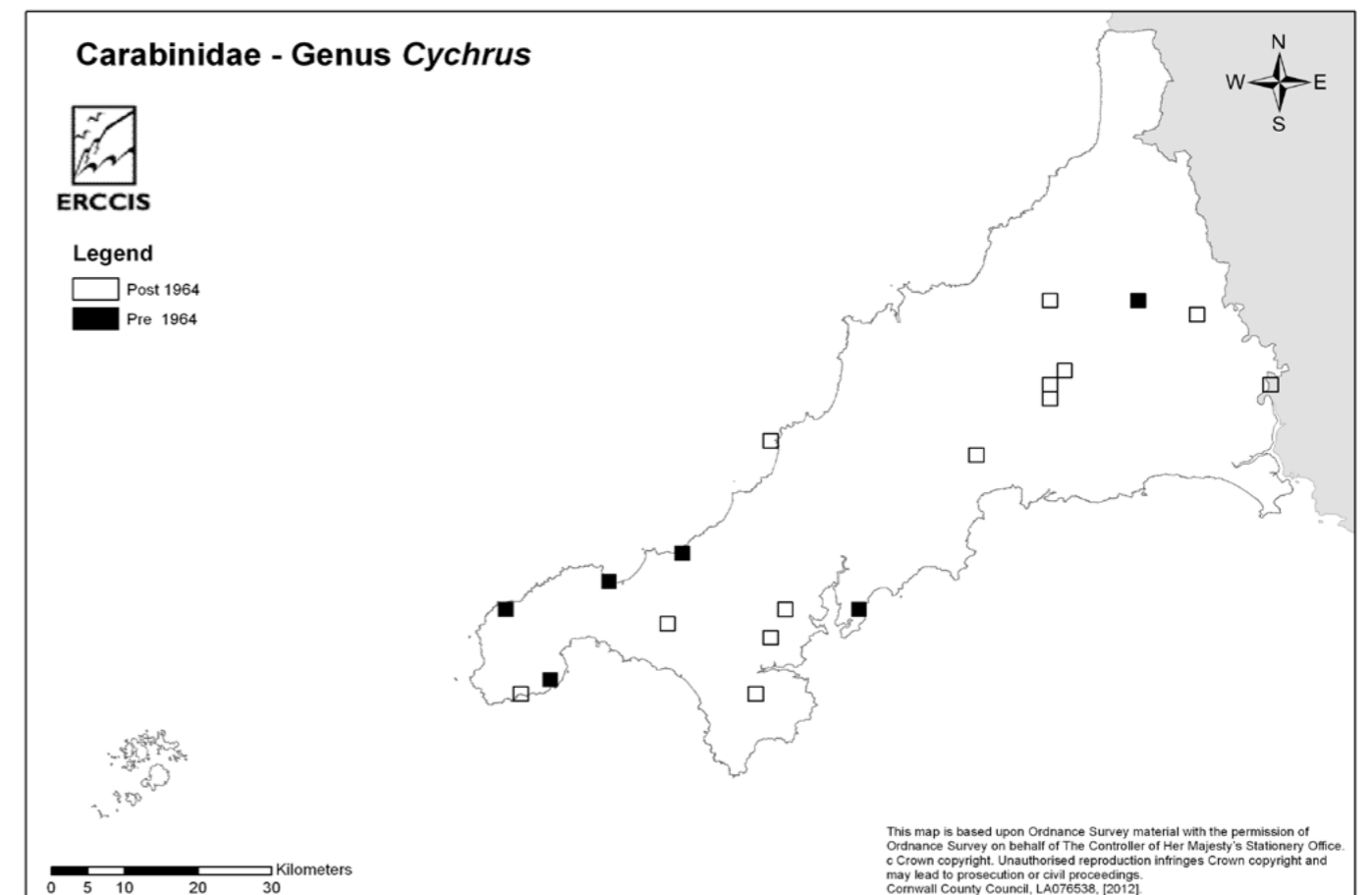
SX27 Newton, 19.viii.2006, IM.

SX35 Whitsand Bay, one pronotum on the cliffs, 1854-5, JJ Reading (Turner, 2008).

SX37 Carthamartha, under the bark of trees (Clark, 1906).

*Carabus violaceus* (Linnaeus)

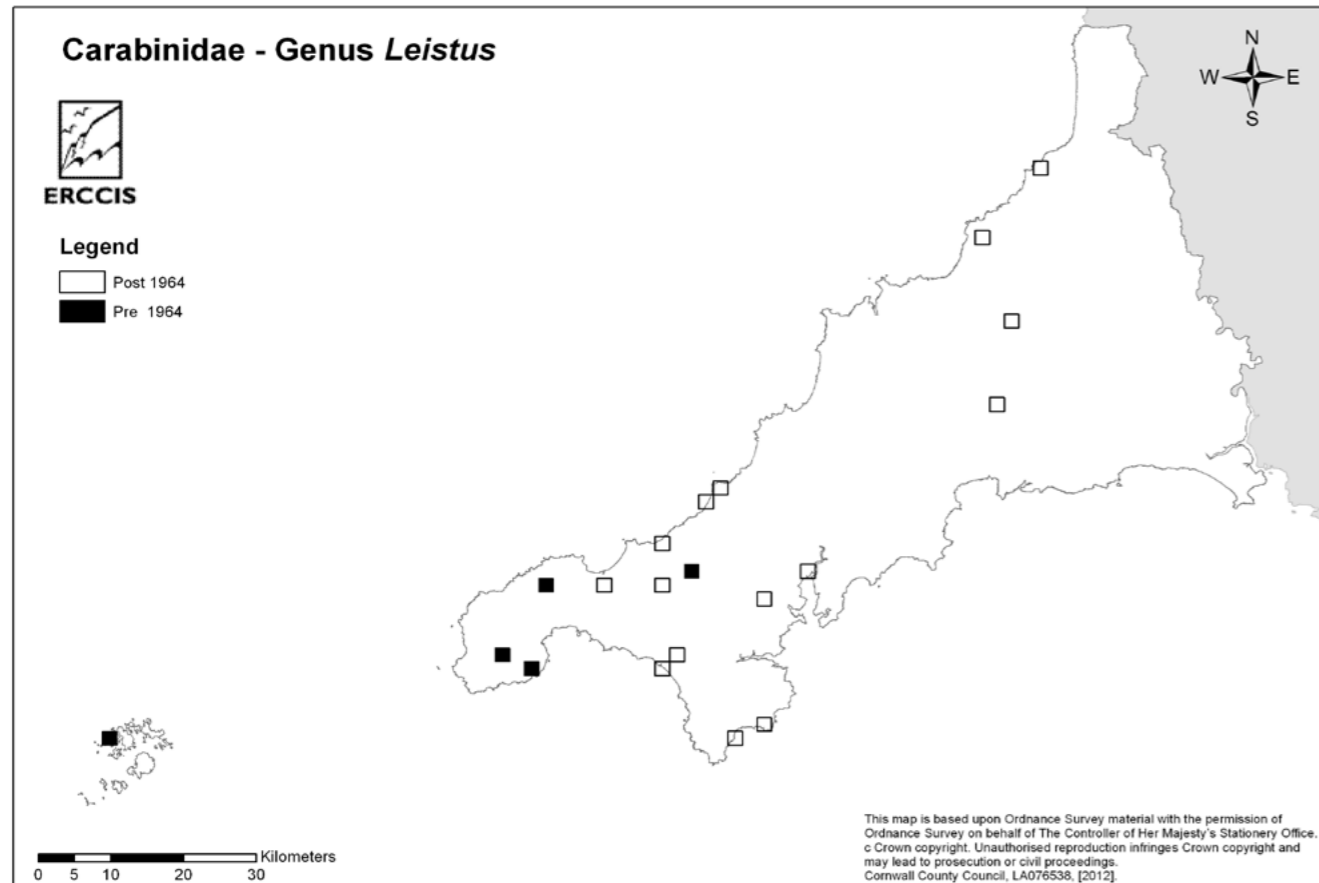
Generally regarded as the most widespread and abundant of the genus nationally in a wide range of habitats, but generally on neutral to base-rich soils. Cornwall (Clark, 1906) and widespread (ERICA).



**Cychrus**

*Cychrus caraboides* (Linnaeus)

Nationally widespread in humid semi-natural habitats where it feeds on molluscs: moorlands in north and west, and more widely in woodlands. Widespread in Cornwall, but mainly known from West Penwith, the Lizard and Bodmin Moor.



## Leistus

### *Leistus (Pogonophorus) spinibarbis* (Fabricius)

Most often found in open country and especially disturbed limey soils, but also present on sand dunes and open heaths in the moister north and west. Cornwall (Clark, 1906); fairly widespread in the county.

### *Leistus (Leistophorus) fulvibarbis* ((Dejean))

A widespread species nationally, favouring damp woodland, but also in more open country in the humid west. Cornwall & Scilly (Clark, 1906); widespread in the county.

### *Leistus ferrugineus* (Linnaeus)

**County Scarce.** Very much a lowland species, very widespread across eastern England but notably scarce across the wetter west; favours permanently dry, freely-draining soils. Clark (1906). Very few Cornish records.

SW53 Lelant, viii.1967, RM Lyszkowski.

SW63 Coswinsawsin Farm, 2004, P Mycock.

SW64 Tehidy, 25.vi.1999, SA Jinks.

SW71 Poltesco, 26.iii.2004, D Collins.

SX18 Davidstow, Lowertown, Moorgate, 10.vi.1965, FAT.

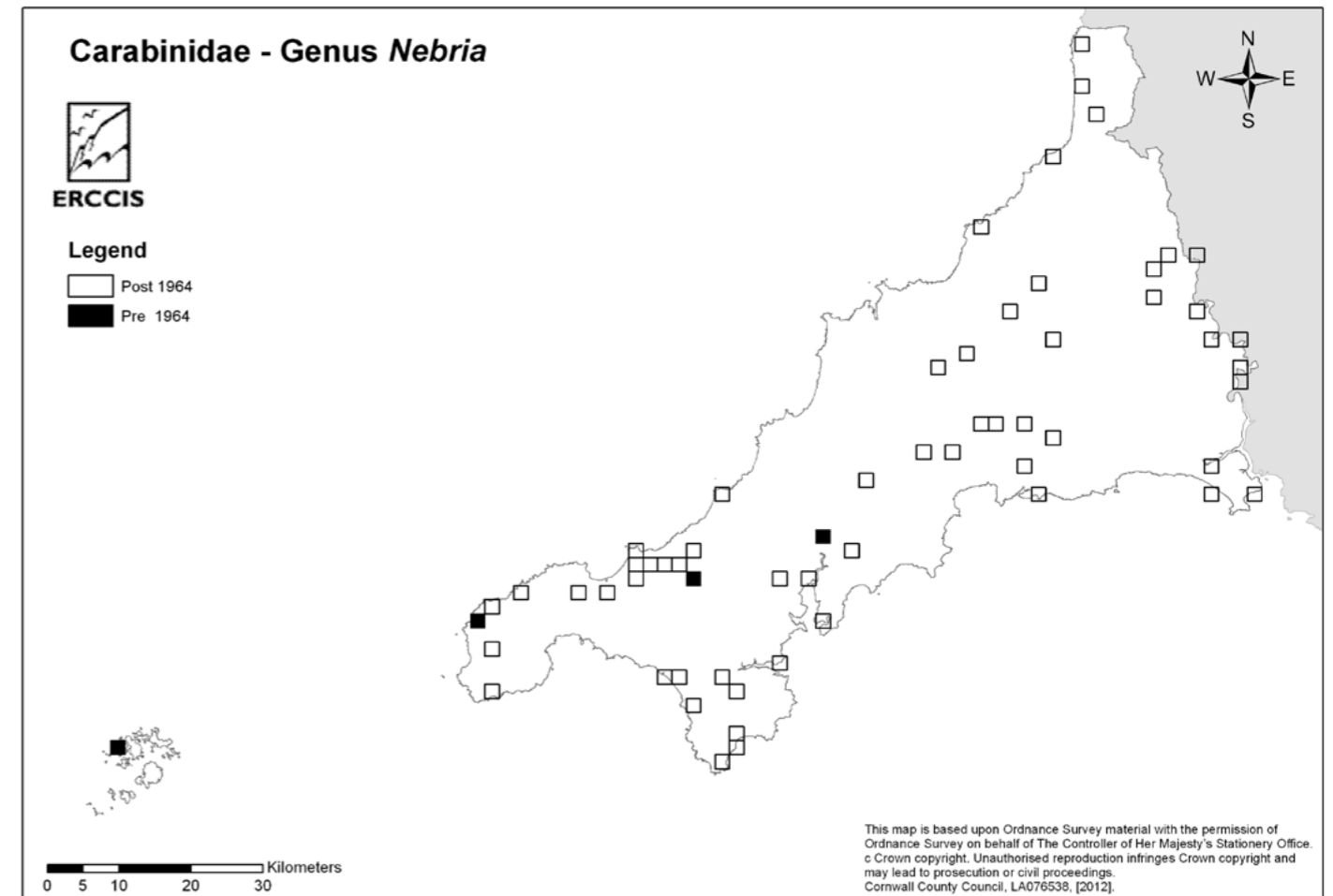
SX19 The Strangles, 10.vi.1965, FAT.

### *Leistus (Leistus) terminatus* (Hellwig) syn. *rufescens* (Fabricius)

**County Rare.** Widespread over much of Britain but very scarce in the south west. Mostly in moister habitats, eg in moist shady places, among decaying leaves, etc.

SW42 Mousehole, grass roots, iv.1923, RTB.

SX35 St Germans (Clark, 1906).



## Nebria

### *Nebria brevicollis* (Fabricius)

A common and widespread species of moist freely-draining soils, in woodlands and hedgerows, and even rank grasslands; avoiding only dry places and high ground. Cornwall (Clark, 1906).

### *Nebria salina* Fairmaire & Laboulbene

**County Scarce.** Widespread nationally in less productive habitats such as heaths, acid grassland and sand dunes. Most widespread in the uplands and increasingly scarce in the lowlands through habitat loss. In Cornwall known from Isles of Scilly, West Penwith, the Lizard and Bodmin Moor. Distinguished from *N. brevicollis* only in 1922 and therefore not listed by Clark (1906).

SV80 Wingletang, 13.x.1998; Periglis, 11.x.1998; Porth Killier, St Agnes, 15.x.1998, MGT.

SV91 Isles of Scilly, 1931 (Luff, 1998).

SW33 St Just, vii.1934, RTB.

SW43 Rosemergy Cliff, 17.v.1989, KNAA.

SW61 Clahar Bridge, 18.ix.1980, DAS. Kynance Cove, 10.viii.1988, DR Nash; 4.v.1998, MGT. Lizard, 1989, DR Nash.

SW62 Porthleven Cliffs, 20.iii.2005, PAG.

SW71 Gwendreath, vi.1981, DAS.

SW72 Goonhilly Downs, vi.1980, vi.vii.1981, DAS; 1981, N Onslow.

SX08 Glebe Cliff, Tintagel, 18.viii.1978, APF.

SX18 Rough Tor, 18.viii.1979, KNAA.

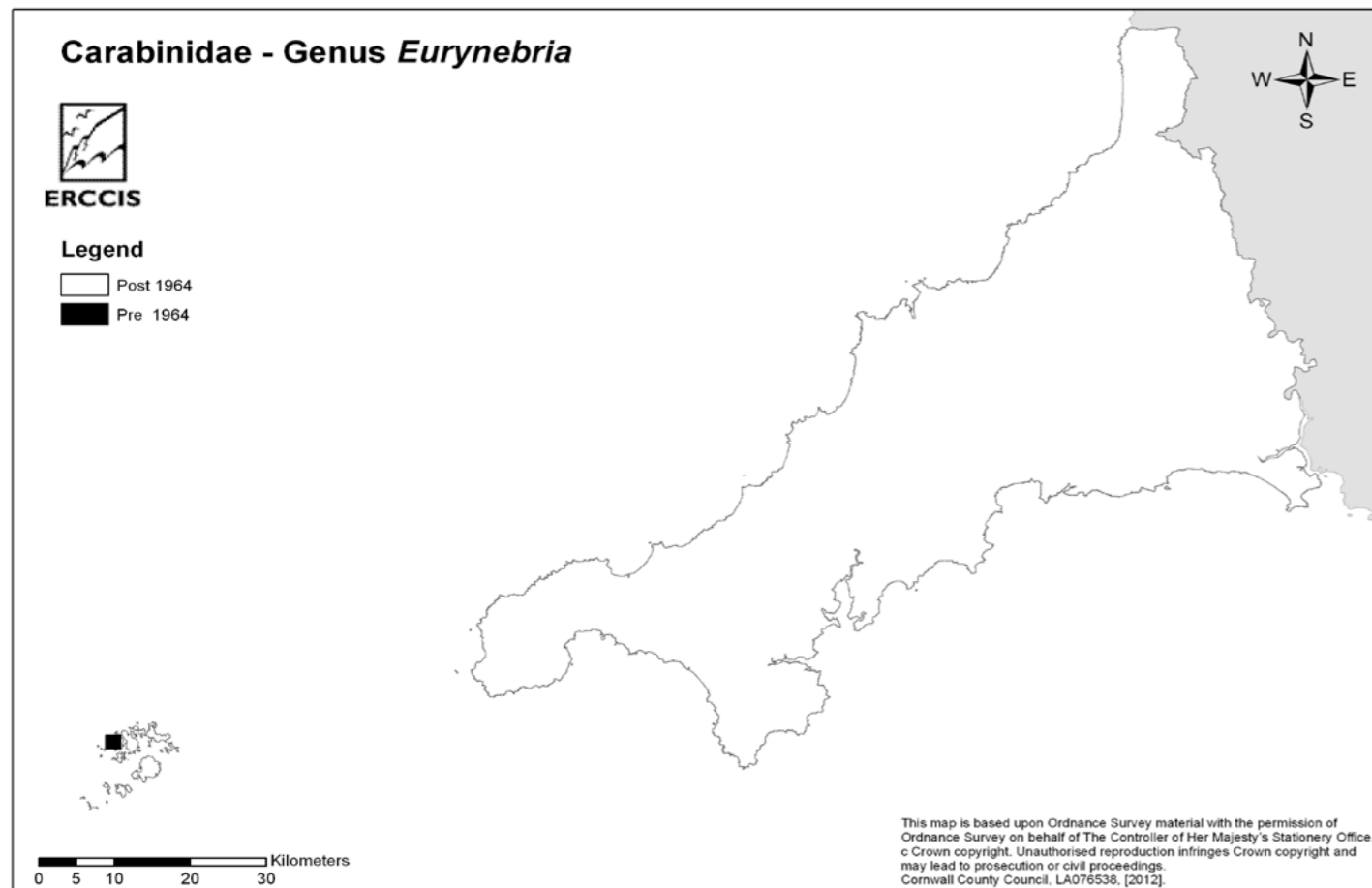
### *Nebria rufescens* (Ström) syn. (*Gyllenhal*)i (Schönherr)

**County Rare.** Primarily an upland species but occurs at lower altitudes along coastal moorland streams. Not known to Clark (1906) but discovered on the Lizard in 1980.

SW61 Clahar Bridge, 18.ix.1980, DAS.

SW71 Gwendreath, ix.1980; Lizard NNR, 1980 & 1981, DAS.

SW87 St Merryn, 30.x.1979, SBC – voucher required.



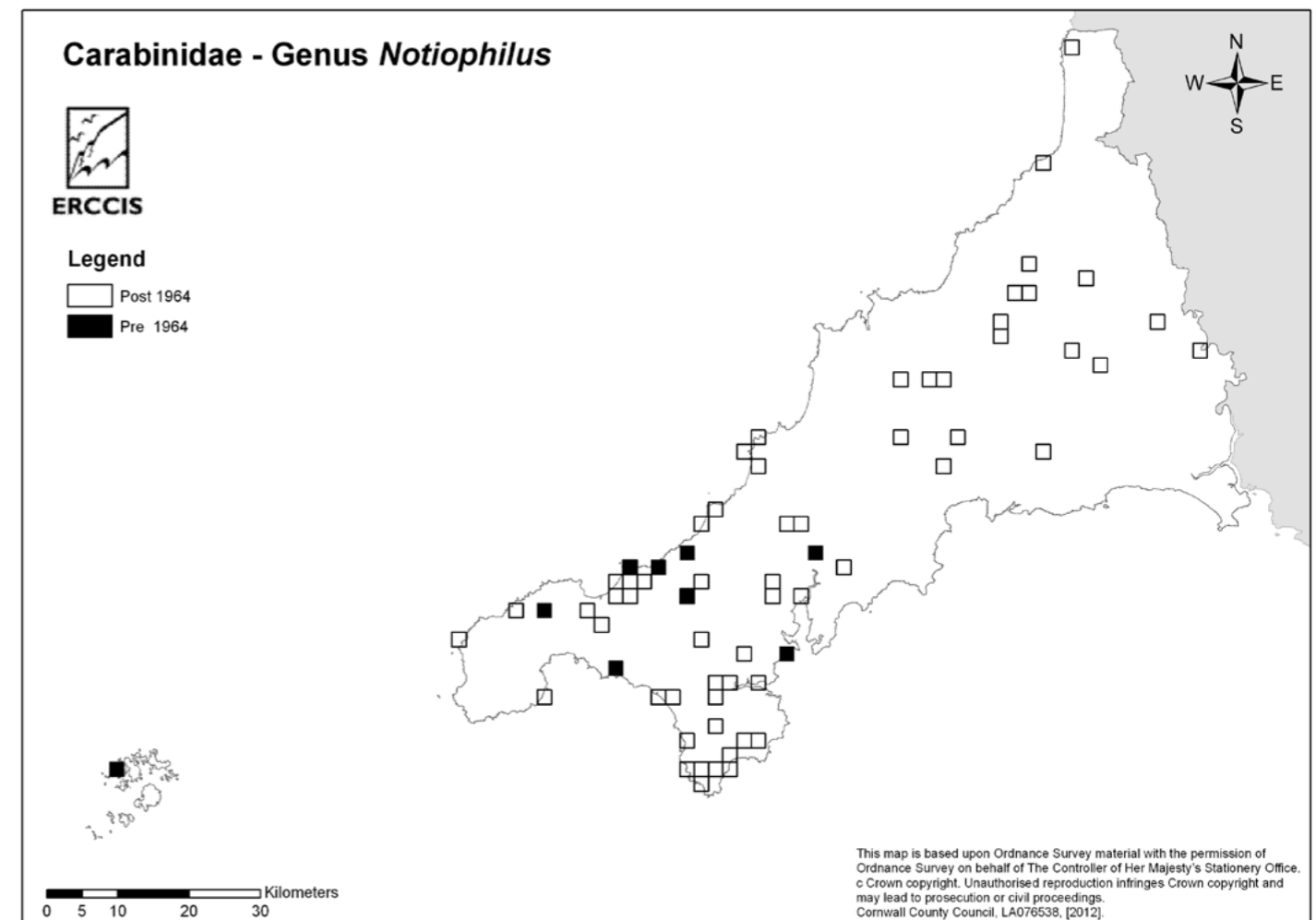
## Eurynebria

### *Eurynebria complanata* (Linnaeus)

**Nationally Scarce & Casual in county.** An example of a Lusitanian species (SW European) and a speciality of coastal sand on the Bristol Channel coasts; mainly south Wales; feeds on sandhoppers. The two isolated Cornish records suggest casuals, perhaps carried by storms but not established populations.

SV81 Tresco, two under fronds of *Asplenium marinum* at the foot of some rocks (Clark, 1906).

SS20 Bude, one (Clark, 1906); 1923, E Ansorge.



## Notiophilus

### *Notiophilus aquaticus* (Linnaeus)

In all kinds of open country. Common and widespread. Cornwall (Clark, 1906).

### *Notiophilus biguttatus* (Fabricius)

Common and widespread in dry places. Cornwall (Clark, 1906).

### *Notiophilus germinyi* (Fauvel)

**County Scarce.** Widespread in open country on freely-draining soils; heaths, moors and dry grasslands. Not known to Clark (1906) but it has proved to be widespread on the Lizard and scattered elsewhere.

SW33 St Just Amalgamated Mine, Cape Cornwall, 15.v.1989, KNAA.

SW61 Trenance Cliff, Polurrian Cove, 14.vi.1979; Men te heul, Lower Predannack Cliff, coastal heath, 21.vi.1979, KNAA. Mullion, 17.ix.1980; Lizard NNR, 1980 & 1981, DAS.

SW96 Goss Moor, 18.vi.2007, DCB.

SX19 High Cliff, 10.ix.1985, P Kirby (Luff, 1998).

SX37 Armstrong, 26.v.2006, IM.

### *Notiophilus palustris* ((Duftschmid))

Widespread on moist soils nationally, in open marshes and in woodlands; in more open situations in Cornwall, where also widespread. Cornwall (Clark, 1906).

### *Notiophilus quadripunctatus* (Dejean)

**Nationally Scarce & County Rare.** A lowland species of sandy heaths and sparsely-vegetated sand or gravel.

SX45 Saltash (Clark, 1906).

### *Notiophilus rufipes* Curtis

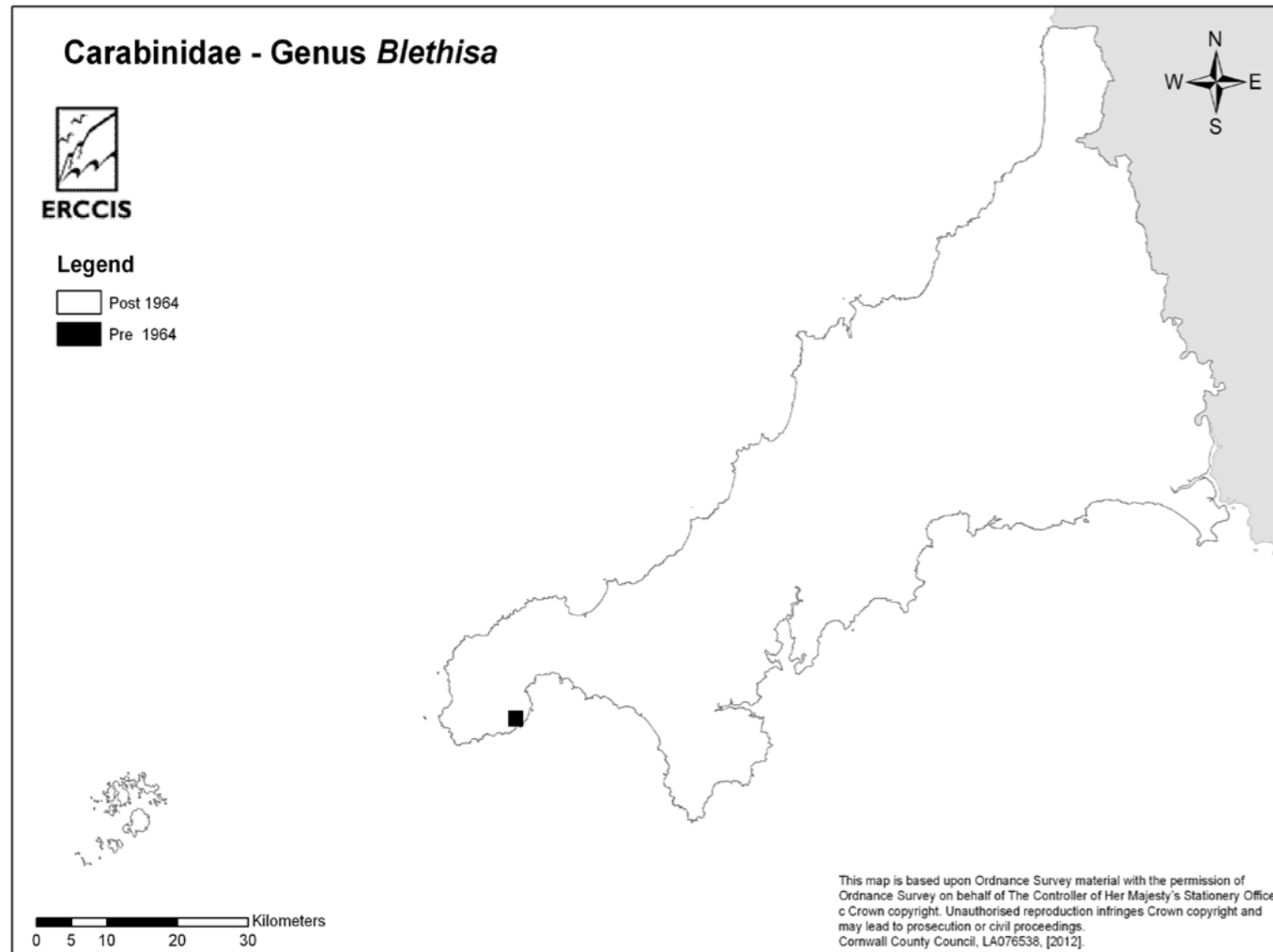
**County Scarce.** In moist shady situations on freely-draining soils. Not known to Clark (1906) but subsequently found in a number of the river valley ancient woodlands.



- SW71 Tremayne Woods, 8.vii.1983, KNAA.
- SW72 Bonallack Wood, 3.ix.2008, PAG.
- SW73 Devichoys Wood, 6.ix.2008, 19.iv.2009, PAG.
- SW84 Killagorden Wood, Truro, ix.1976, RGB. Idless Woods, Truro, 25.v.2008, 8.iv.2009, PAG.
- SW85 Mitchell, v.1979, W Wuertz.
- SX19 Dizzard Wood, 20.ix.2008, B Edwards.
- SX25 Kilminorth Wood, 10.vii.1977, KNAA.
- SX28 Egloskerry, 3.v.2009, IM.

*Notiophilus substriatus* Waterhouse, G.R.

Widespread on dry soils with sparse vegetation. Cornwall (Clark,1906).

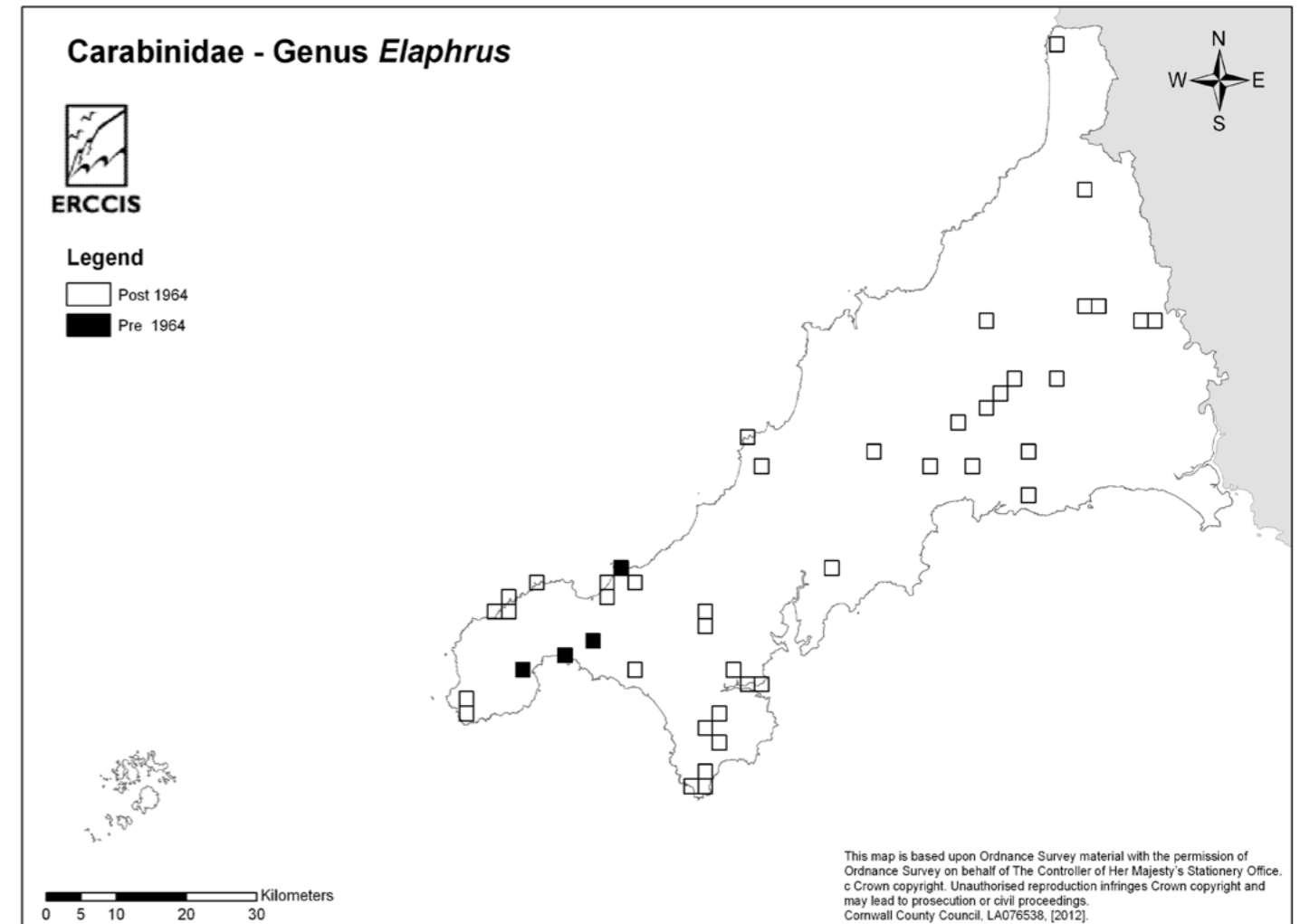


### Blethisa

*Blethisa multipunctata* (Linnaeus)

**Nationally Scarce & County Rare.** In fens, marshes and lakeshores, with mosses and sedges. Lost from much of central England during the 20th Century. Not known to Clark (1906).

SW42 Clodgy Moor, Paul, marsh, iv.1926, RTB.



### Elaphrus

*Elaphrus cupreus* ((Duftschmid))

Common and widespread in all types of moist boggy situations. Cornwall (Clark,1906).

*Elaphrus uliginosus* Fabricius

**Nationally Scarce & County Rare.** A local species of oligotrophic, mainly lowland fens and bogs; mainly in southern and western Britain.

SW53 Marazion, Baily (Clark, 1906).

SW54 Gwithian, reedbed inland of road, 18.vi.1981, APF.

SW72 Goonhilly Downs, 1.v.1981, APF.

SW84 Ruan Laniorne Marsh, vi.1966, RE Stebbings (1971).

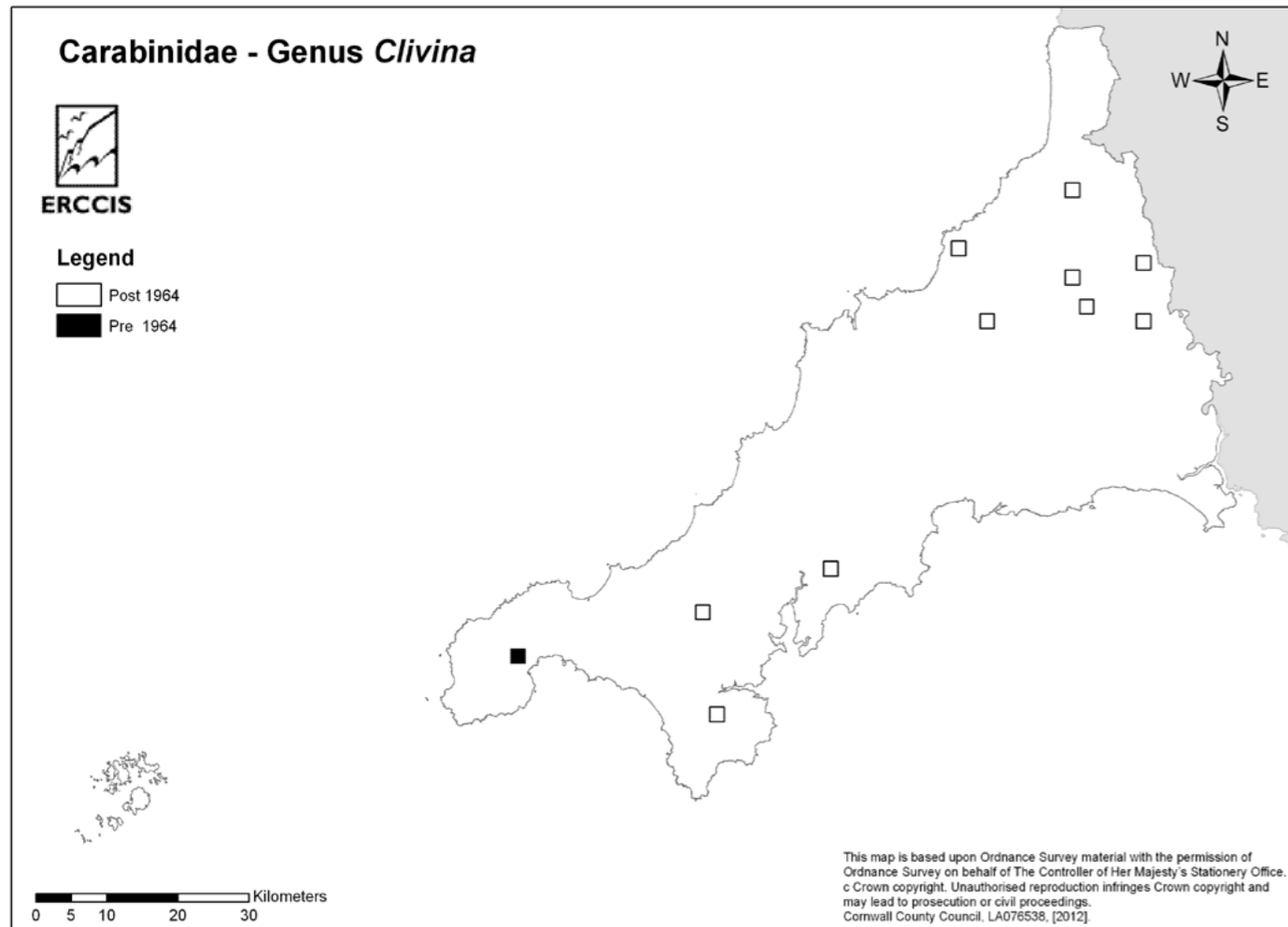
*Elaphrus (Trichelaphrus) riparius* (Linnaeus)

A common and widespread water margin species, although more restricted to barren sand or clay. Cornwall (Clark, 1906)

### Loricera

*Loricera pilicornis* (Fabricius)

On moist, more or less shaded ground, often near water. Widespread and common in the county. Cornwall & Scilly (Clark, 1906)



**Clivina**

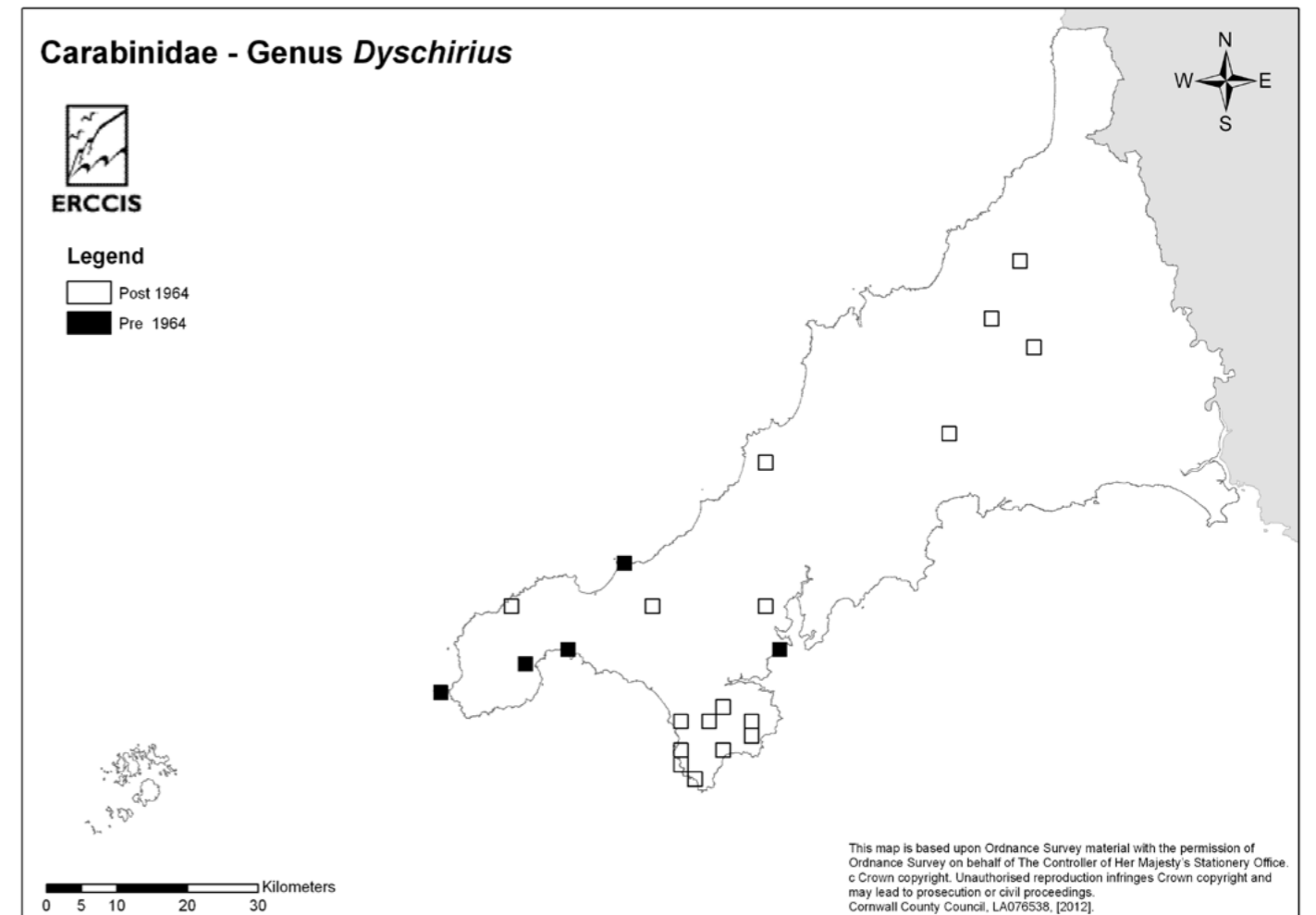
*Clivina collaris* (Herbst)

**County Rare.** In humus-rich soil, including gardens as well as sandy riverbanks. Listed by Clark (1906).

SX06 Camel River, 1990 onwards, J Sadler et al (2001).

*Clivina fossor* (Linnaeus)

In permanently moist and humus-rich soils in a variety of open situations. Widespread in the county, but most often found along river valleys or by ponds. Cornwall (Clark, 1906)



**Dyschirius**

*Dyschirius thoracicus* (Rossi)

**County Rare.** Bare damp coastal sand, associated with the burrows of *Bledius* spp rove beetles.

SW54 Gwithian, 1958, Miss M Harris.

SW72 Maenporth, two with *Bledius arenarius* (Clark, 1906) – now known as *B. fergussoni*.

*Dyschirius aeneus* ((Dejean))

**County Scarce.** Sparsely vegetated mud or sand near water; mostly in southern and eastern England.

SW32 Lands End, ED Marquand (1881).

SW53 Marazion, 1958, WE Baily (Clark, 1906).

SW54 Gwithian, Miss M Harris.

SW61 Clahar Bridge, iv.1981, & Predannack, 23.ix.1981, DAS.

SW71 Main Dale & Gwendreath, vii.1981, DAS.

*Dyschirius globosus* (Herbst)

Widespread on damp, bare or poorly vegetated ground, especially peat. Cornwall (Clark, 1906). Most widely on peat moors in Cornwall.

*Dyschirius impunctipennis* (Dawson)

**Nationally Scarce & County Rare.** In salt marshes, associated with the rove beetle *Bledius*, usually *B. arenarius*.

SW75 Perranporth to Newquay, with *Bledius arenarius* (Clark, 1906).

SW54 Gwithian, 1958, Miss M Harris.

*Dyschirius nitidus* ((Dejean))

**Nationally Scarce & County Rare.** Coastal saltmarshes with *Bledius* spp rove beetles. Not known to Clark (1906).

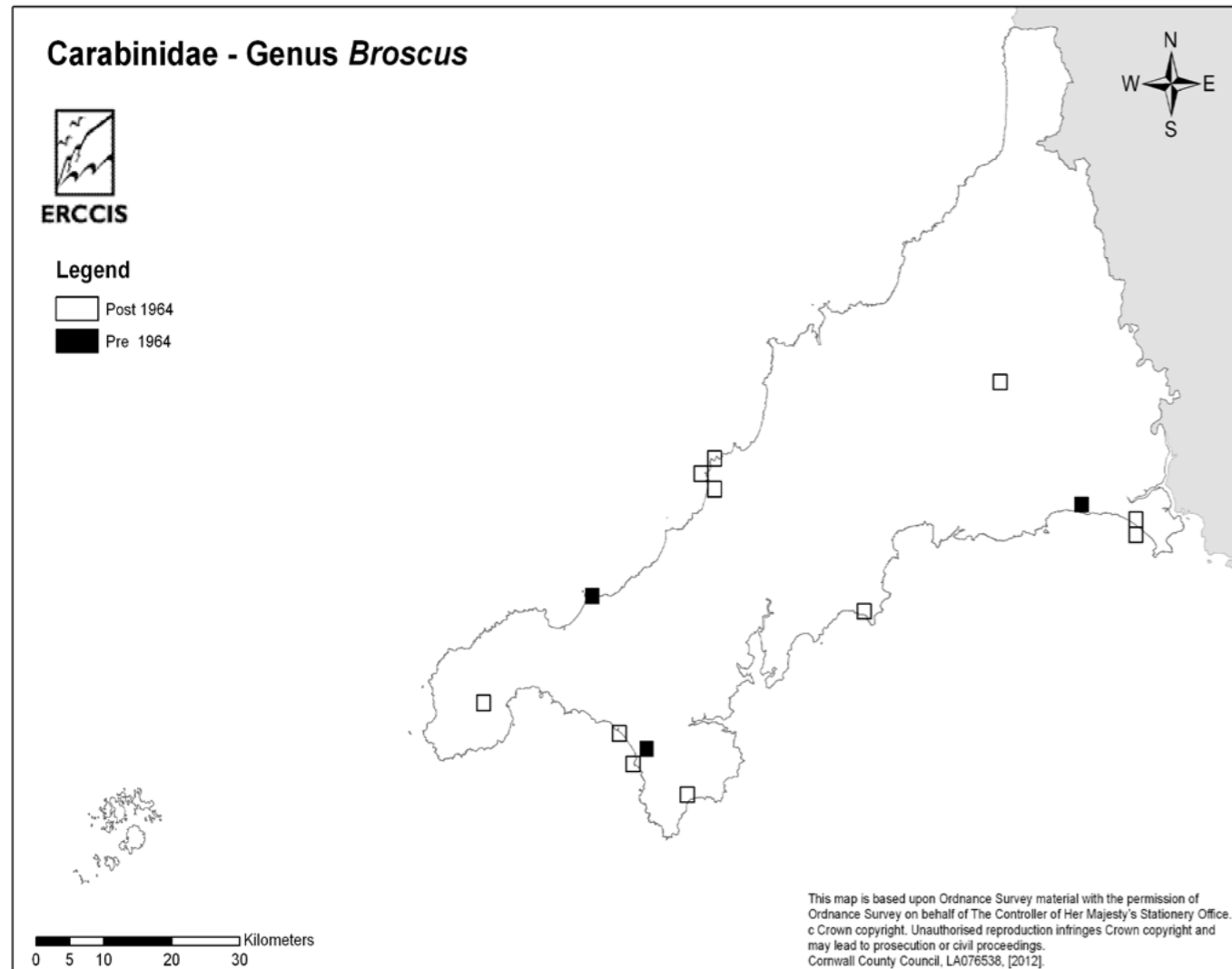
*Dyschirius salinus* (Schaum)

**County Rare.** In wet clayish places within saltmarsh.

SW53 St Erth (Clark, 1906).

SW54 Gwithian, 1958, Miss M Harris.

SX05 Par (Clark, 1906).



**Broscus**

*Broscus cephalotes* (Linnaeus)

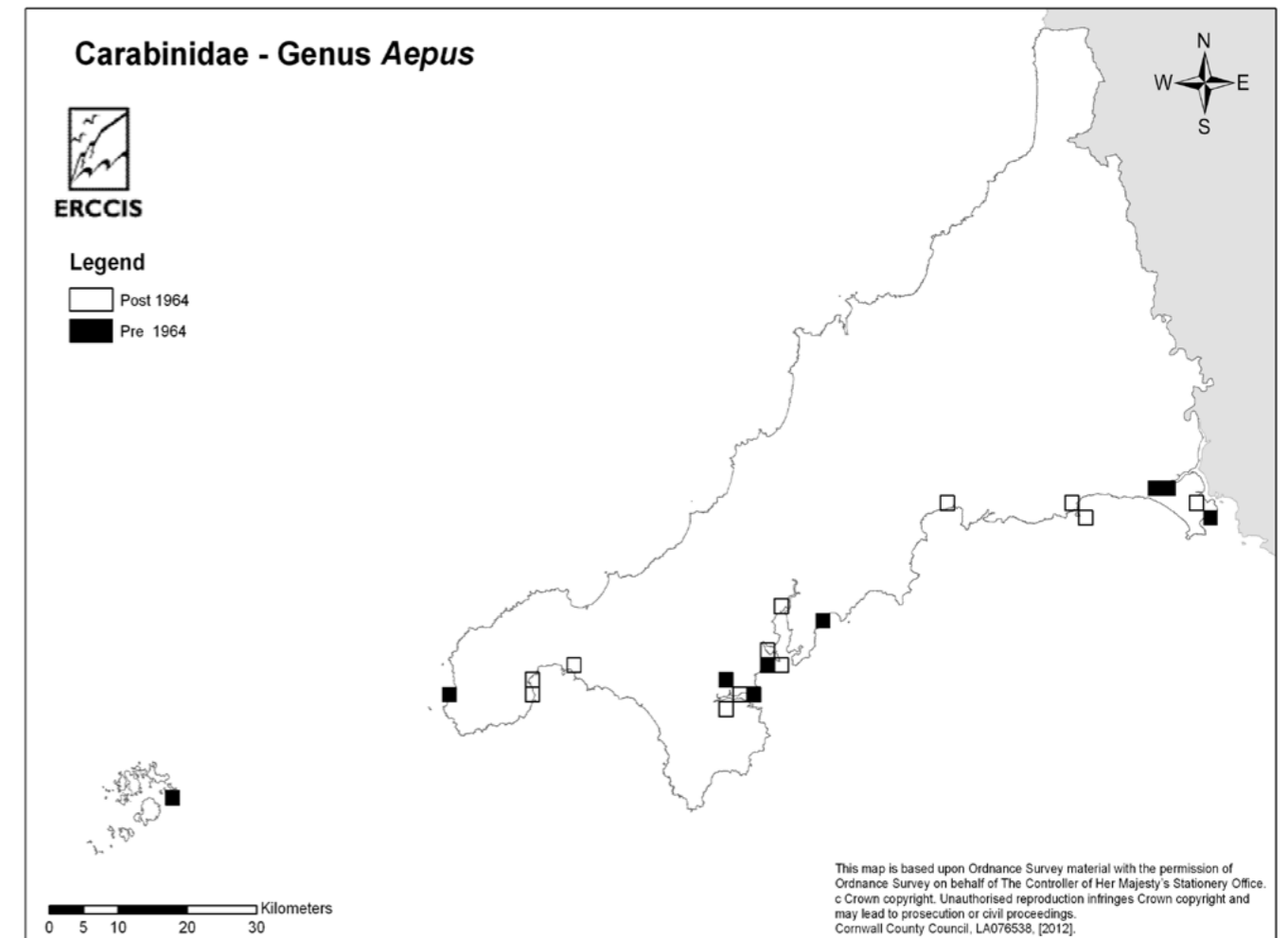
Burrows in dry sand or sandy soil, usually where un-vegetated. Widespread along sandy coastlines.

*Perileptus*

*Perileptus areolatus* (Creutzer)

**Nationally Scarce & County Rare.** Fine sand and shingle by fast rivers.

SX46 Landulph, five, 1904 (Clark, 1906).



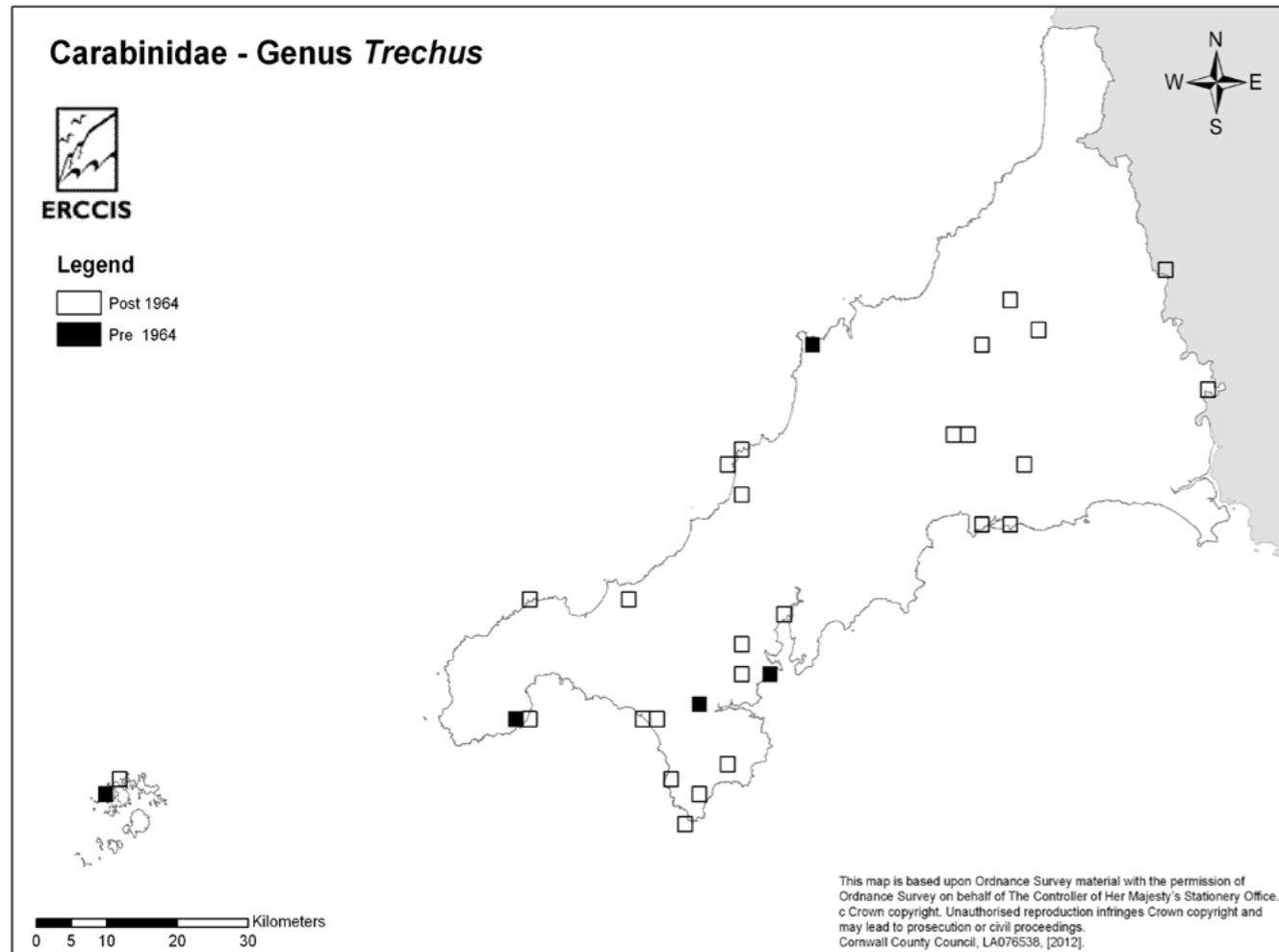
**Aepus**

*Aepus marinus* (Strom)

**Nationally Scarce.** Under stones closely fitting to the ground below HWM on clayey shores, mainly in estuaries. Widespread in Cornwall & Isles of Scilly.

*Aepus robini* (Laboulbene)

**Nationally Scarce.** Only on coast, not into estuaries. All along the coast of south Cornwall and south Devon (Keys, 1918).



## Trechus

*Trechus fulvus* (Dejean)

**Nationally Scarce & County Rare.** On sandy & rocky shorelines, near HW & freshwater seepages.

*Trechus lapidosus*

in Clark (1906); only one modern record.

SV81 Piper's Hole, Tresco, ix.1993, P & M Ashmole (1995).

SW32 Sennen District, J Isabell (1890). Land's End, evidently well established (Clark, 1906).

SW72 Gweek, ii.1934, RTB.

SW35 Whitsand Bay, in a rocky cove, Keys (Clark, 1906).

SW44 Rame Head, three on the beach, iv.1902, Keys (1918).

*Trechus (Trechus) obtusus* (Erichson)

Very widespread in open moorland country on freely-draining soils, with short vegetation.

*Trechus minutus var. obtusus*

Cornwall (Clark, 1906).

*Trechus (Trechus) quadristriatus* (Schrank)

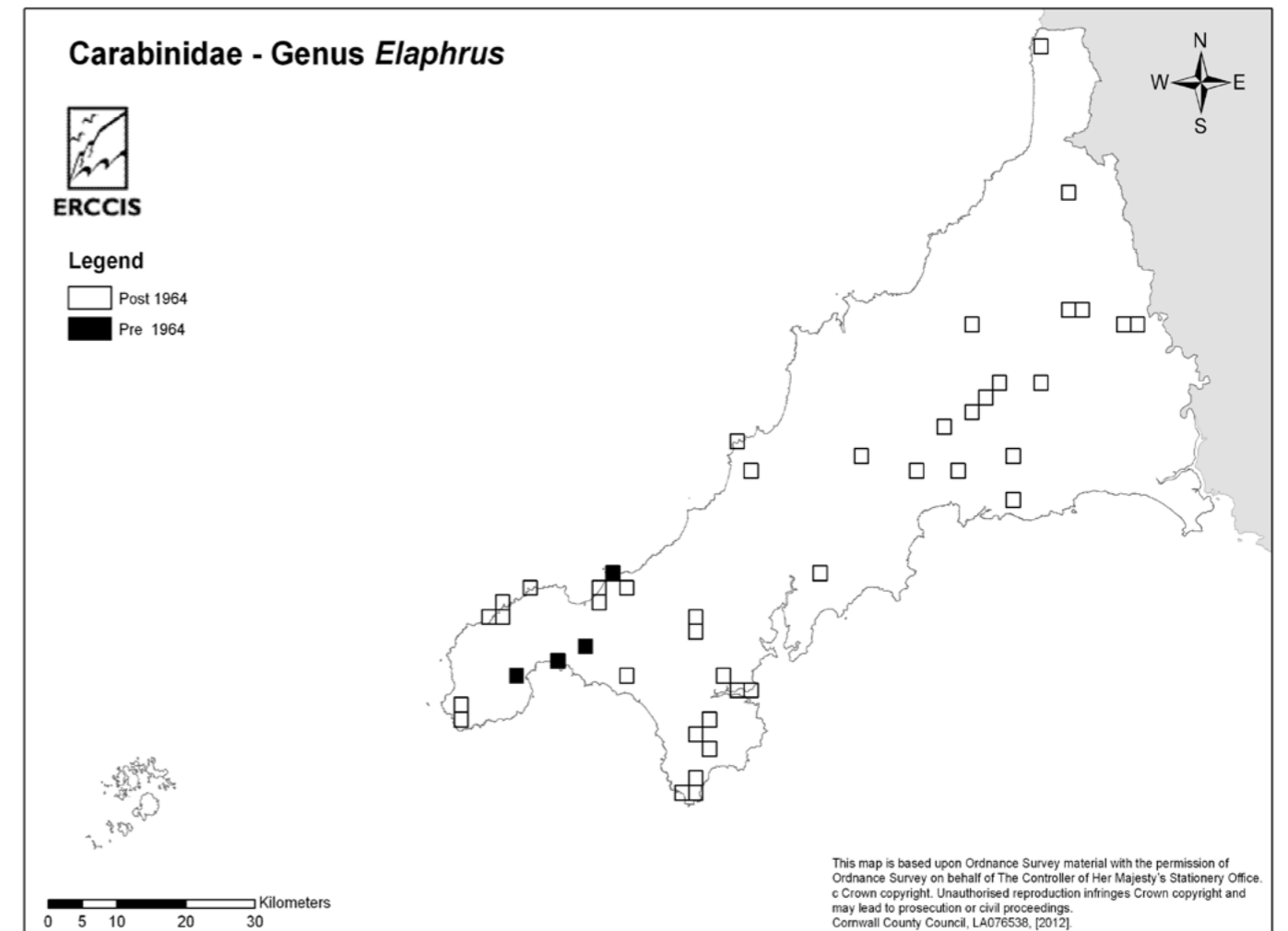
In open rather dry county with short vegetation. Not known to Clark (1906) and presumably confused with *T. obtusus* at that time. Now known to be widespread in county.

*Trechus (Trechus) rubens* (Fabricius)

**Nationally Scarce & County Rare.** More or less subterranean, but often flying after dark. Amongst leaves and debris in shaded habitats, often near water.

SW42 Penzance district, sparingly (Clark, 1906).

SX35 'East Cornwall', JH Keys (1940).



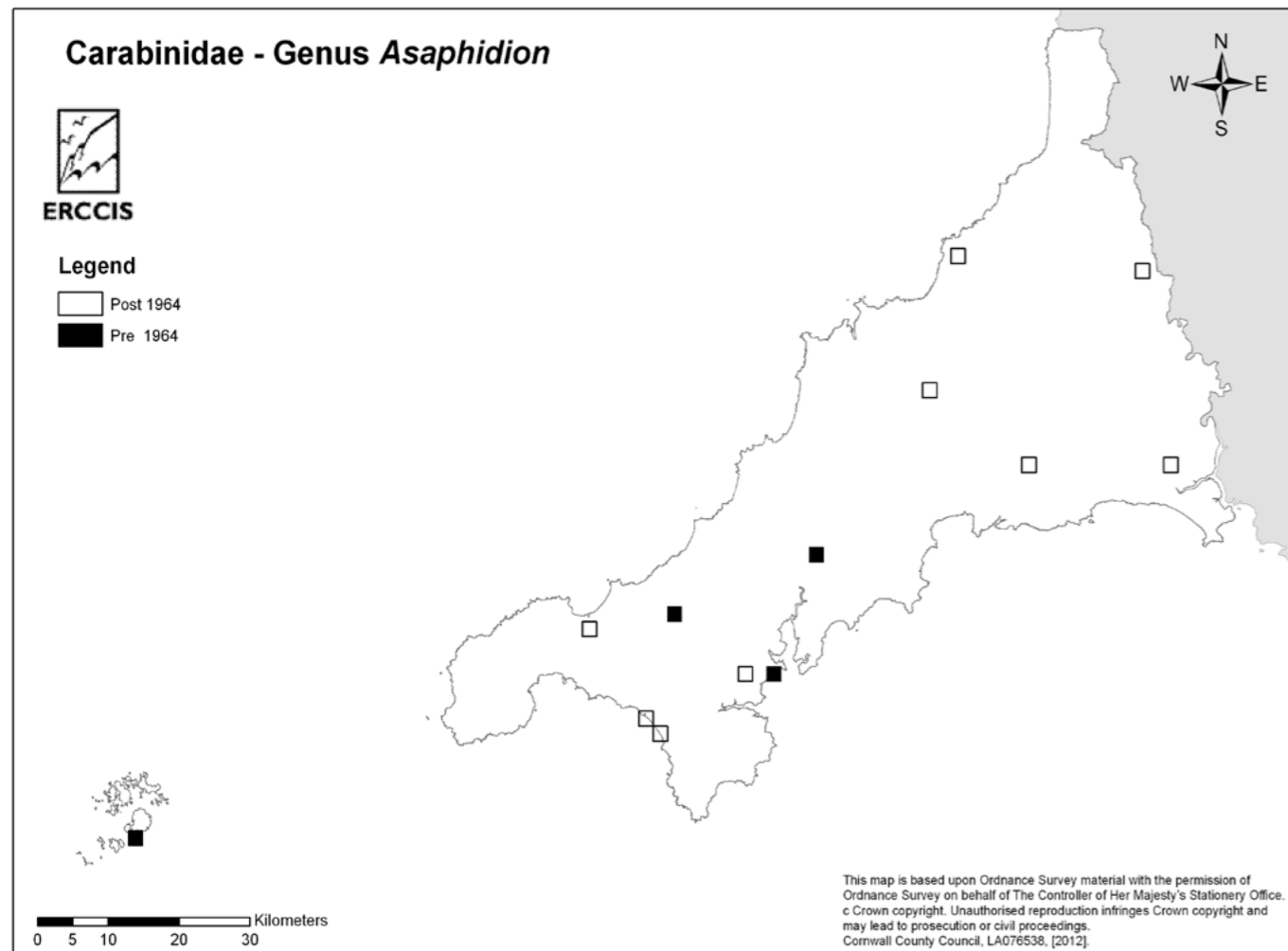
## Elaphropus

*Elaphropus parvulus* (Dejean)

**Nationally Scarce & County Rare.** In sandy and gravelly soils, in old walls and cracked paths, often associated with human constructions; scattered thinly across southern Britain.

SW83 Gerrans Bay, sparingly in three different localities, at the base of the cliffs, in sandy places kept moist by the percolation of freshwater from the high ground above, June/July, 1897, GCC (Champion, 1897). Pendower Beach, good numbers under stones, rock crevices, at base of wet cliff, 22.vii.2007, PAG.

SX28 Gimblett's Mill, 12.vii.2011, IM.



### Asaphidion

*Asaphidion flavipes* agg.

The following three species were formerly confused under the one name. The aggregate is very widespread in the county.

*Asaphidion curtum* (Heyden)

Typically on open ground on sand and fine silt near water.

SW62 Degibna Wood, Helston & Penrose Hill, Porthleven, 18.vi.1989, & Nanspean Valley, Gunwalloe 19.vi.1989, KNAA.

SW84 Truro, 1976, RGB.

SX06 River Camel, 1990, J Sadler et al (2001).

*Asaphidion flavipes* (Linnaeus)

Generally in open situations near water. No confirmed Cornish records.]

*Asaphidion stierlini* Heyden

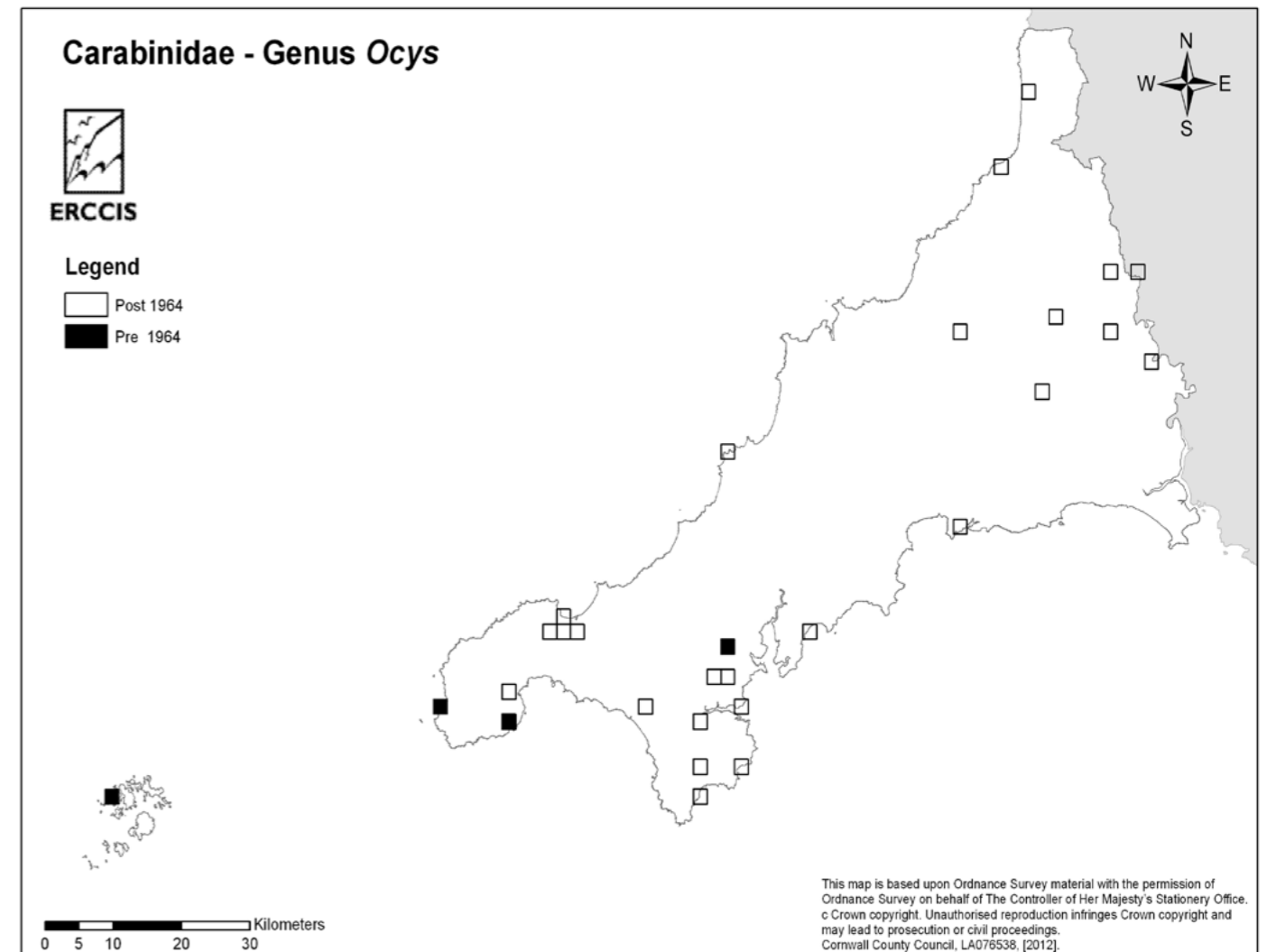
In open, dry places, such as sand pits; mainly eastern.

SS11 Morwenstow, 18.iv.2003, KNAA.

*Asaphidion pallipes* (Duftschmid)

**Nationally Scarce & Locally Extinct.** On fine bare sand or silt by streams and rivers.

SX18 Banks of River Camel (Clark, 1906) but not found here by Sadler et al (2001).



### Ocys

*Ocys harpaloides* (Serville)

Favours moist situations and shelters under bark on deadwood and beneath loose stones. Common & widespread. *Bembidion rufescens* Guer. In Cornwall (Clark, 1906).

*Ocys quinquestriatum* (Gyllenhal)

**Synanthropic.** Found in dark places, in and around buildings. Widely scattered through Britain.

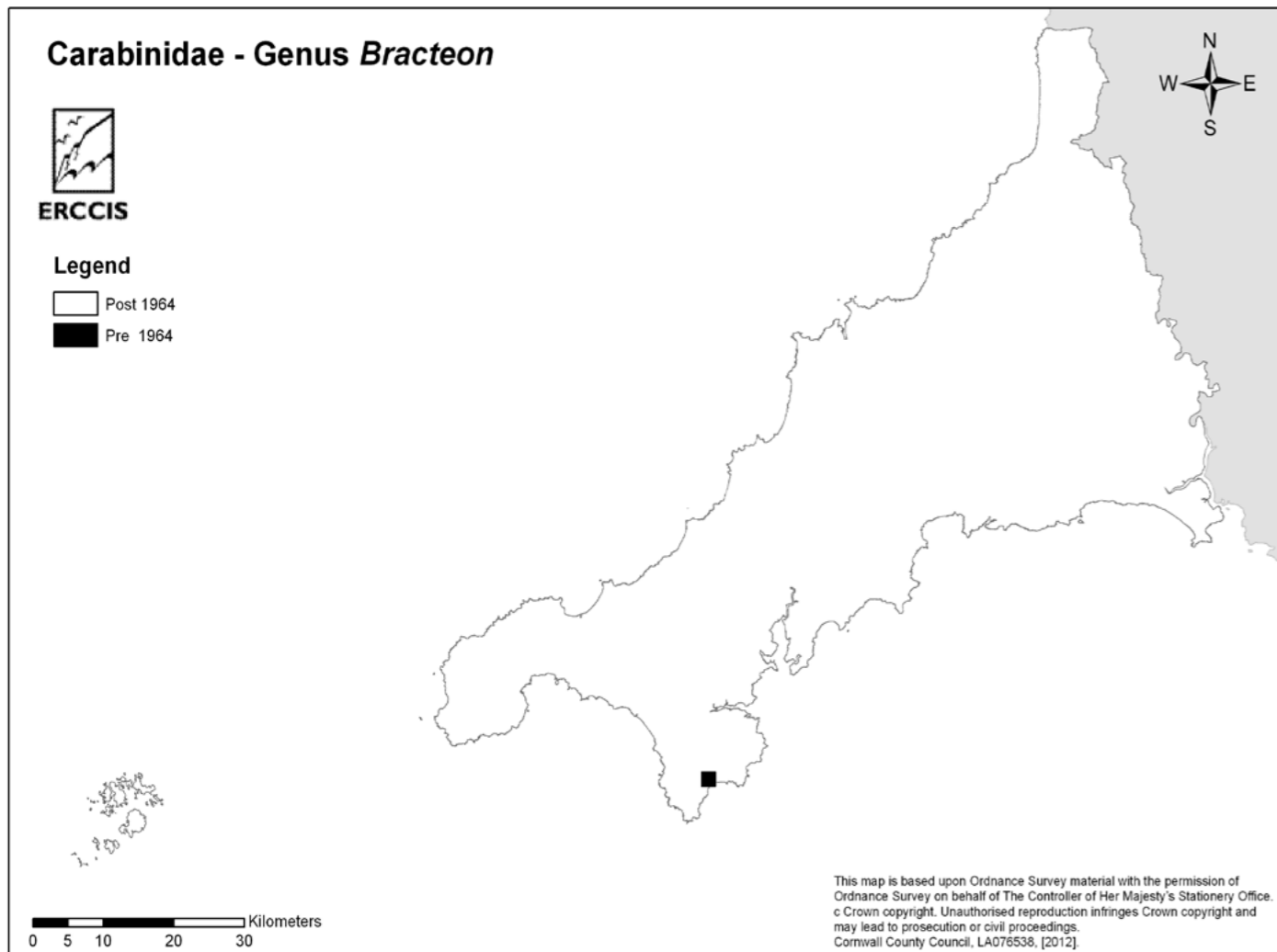
SW32 Sennen district, J Isabell (Clark, 1906).

SW64 post 1970 (Luff, 1998).

### Cillenus

*Cillenus lateralis* (Samouelle)

**Nationally Scarce.** In tidal saltmarshes, feeding on sandhoppers, etc. (Clark, 1906). Widespread in county.



## Bracteon

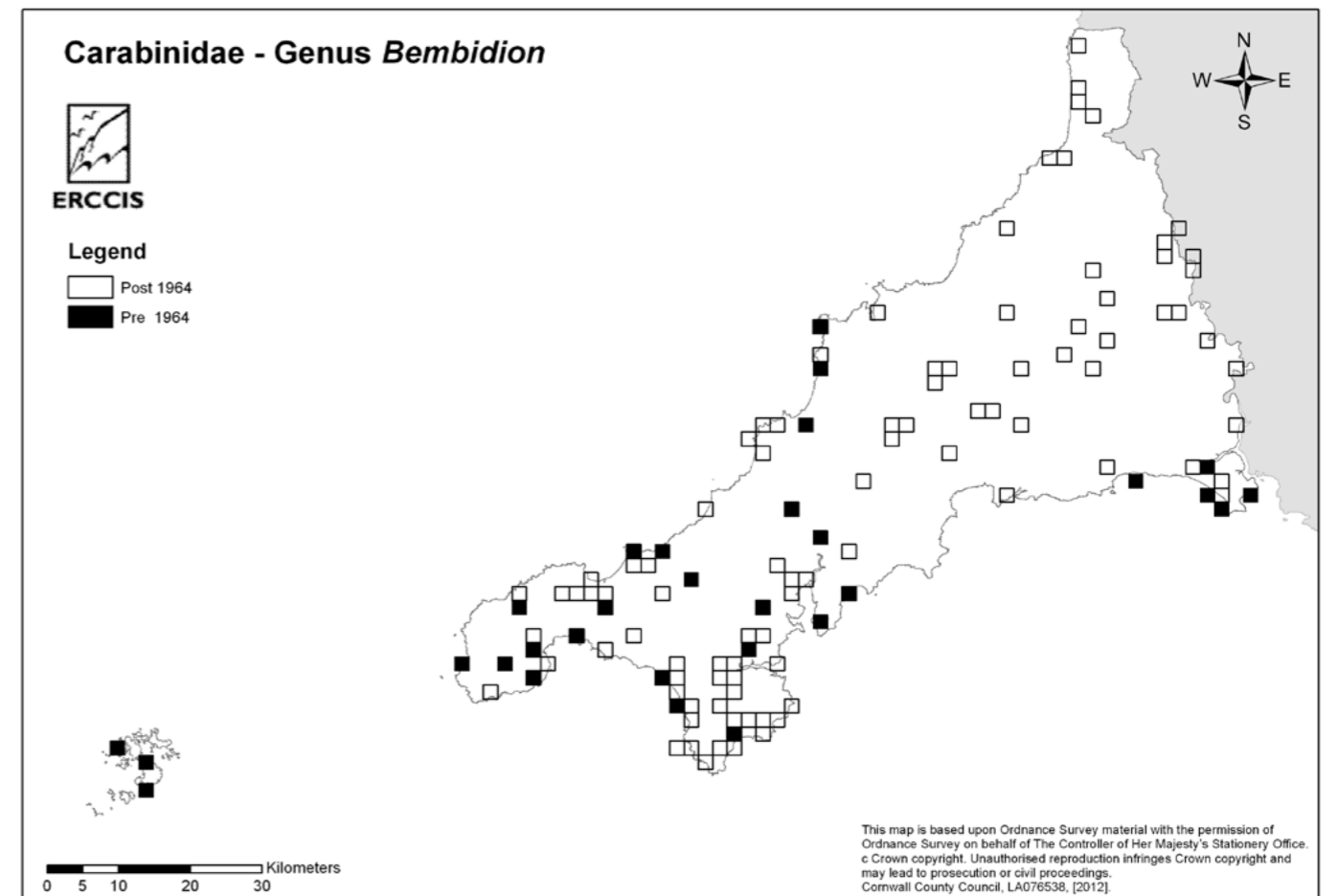
*Bracteon litorale* (Olivier)

**Nationally Scarce & County Rare.** A northern and western species of sand and fine shingle beds on river and stream margins. No Cornish records acknowledged in Luff (1998).

SW32 Sennen district, J Isabell (1890).

SW71 Poltesco, ii.1934, RTB.

SX Plymouth area, 1918, Keys.



## Bembidion

*Bembidion (Metallina) lampros* (Herbst)

On a wide variety of dry open soils; common and widespread. Cornwall (Clark, 1906).

*Bembidion (Metallina) properans* ((Stephens))

Usually on dryish clay soils, in open sunny situations. Not known to Clark (1906) but proving to be fairly widespread, presumably overlooked amongst the very similar *B. lampros*.

SW61 Teneriffe Farm, Mullion, 10.viii.2007, PAG.

SW74 Carnon Valley, 21.vi.2009, PAG.

SW75 Penhale Camp, 27.iv.2007, PAG.

SX19 Dizzard, 1989, RS Key.

*Bembidion (Principidium) punctulatum* (Drapiez)

**County Rare.** A northern and western species, found on fine shingle near rivers and streams. Not known to Clark (1906) but subsequently discovered along River Camel.

SX06 River Camel at Grogley Halt, shingle bank, 9.vii.1983, KNAA; River Camel, 1990, J Sadler et al (2001).

*Bembidion (Actedium) pallidipenne* (Illiger)

**Nationally Scarce & County Scarce.** On bare damp sand by coastal springs and flushes, and along shallow stream spreads.

SW32 Sennen Cove, vi.1934, RTB.

SW54 Gwithian, 1958, Miss M Harris.

SW61 Lizard, 1926, Newcastle University College. Poldhu, viii.1933, RTB.

SW75 Perranporth, 1921, Buckingham Museum (Luff, 1998).

SW83 Gerrans Bay, rarely, in damp sandy places, June/July, 1897, GCC (Champion, 1897).

SW86 Newquay, among sedges by the Gannel (Clark, 1906).

SW87 Constantine Bay, 6.ix.1919, via ML Denton; 1958, L Christie; vi. 1983, SBC; 3.vii.1983, IC White; 30.iv.2002, KNAA. NB the two oldest records are misattributed to Constantine village in Luff (1998).

SW97 Padstow, vi.1912, D Sharp; Harbour Cove, Padstow, 21.iv.2002, KNAA.

*Bembidion (Testedium) bipunctatum* (Linnaeus)  
**Nationally Scarce & Locally Extinct.** On fine sand or gravel by water; primarily northern in Britain.  
 SW85 Trevemper Bridge, by the Gannel (Clark, 1906).

*Bembidion (Eupetedomus) dentellum* (Thunberg)  
**County Scarce.** In marshes and on soft mud near water, in more or less shaded places, where the vegetation is dense. *B. flammulatum* Clairv. Cornwall (Clark, 1906).  
 SW83 Porthcurnick, 22.x.2007, PAG.  
 SW84 Ruan Laniorne, brackish mud, 9.vii.1983, KNAA.  
 SW86 Bedruthan Steps, v.1962, RTB.  
 SX06 River Camel, 1990, J Sadler et al (2001).

*Bembidion (Notaphus) varium* (Olivier)  
**County Rare.** On moist clay with patchy vegetation, chiefly in salt marshes.  
 SV91 St Mary's, 1931, KG Blair.  
 SX35 Downderry, in numbers on muddy edges of a pond at the mouth of the Seaton (Clark, 1906).  
 Downderry, viii.1900, JH Keys (1918).

*Bembidion (Notaphemphanes) ephippium* (Marsham)  
**Nationally Scarce & County Rare.** At the base of saltmarsh vegetation and in litter; coasts of southern and eastern Britain. Cornwall (Clark, 1906) but no records in Luff (1998).

*Bembidion (Bembidionetolitzkya) atrocoeruleum* (Stephens)  
**County Rare.** A northern and western species found along stream and river margins. Cornwall (Clark, 1906).  
 SX06 River Fowey, Lanhydrock, 7.viii.1979, KNAA. River Camel, 1990, J Sadler et al (2001).  
 SX19 Chipman Valley, 2.iv.1989, RS Key.

*Bembidion (Bembidionetolitzkya) tibiale* (Duftschmid)  
**County Scarce.** On riverside gravel and shingle banks; common in hill country of north & west, with a few populations in the lowland catchments of the south and east. Cornwall (Clark, 1906).  
 SW97 Wadebridge, ix.1965, RTB.  
 SX06 post 1970 (Luff, 1998).  
 SX07 River Camel, Colquite Wood, 24.vi.1989, KNAA.  
 SX08 Dannonchapel & Tregardock, 1995, AG Duff.  
 SX09 Boscastle, v.1990, KNAA.  
 SX16 River Fowey, Lanhydrock, 7.viii.1979, 27.vi.1989, KNAA.  
 SX19 Valency Valley, Boscastle, 16.v.1990, KNAA. Dizzard, 2.iv.1989, RS Key.  
 SX37 Armstrong, 10.v.2009, IM.  
 SX46 Cotehele Quay, 23 & 26.iv.1984, AS Lazenby.  
 SS21 Welcombe & Marsland Reserve, 5.vi.1988, RSK.

*Bembidion (Ocydromus) bruxellense* (Wesmael)  
**County Rare.** Associated with sparse vegetation, on sand and gravel, usually near water.  
 SW53 St Erth, iv.1938, RTB.  
 SW84 Bishop's Wood, Truro (Clark, 1906).

*Bembidion (Ocydromus) decorum* (Zenker)  
**County Rare.** A river gravel speciality, mainly in hill country of north and west of Britain. Cornwall (Clark, 1906).  
 SW98 Port Isaac, 1919, EJ Pearce.  
 SS21 Welcombe & Marsland Reserve, 5.vi.1988, AC Warne.

*Bembidion (Ocydromus) deletum* Audinet-(Serville) syn. *nitidulum* (Marsham)  
 On permanently moist clayey soil with trickling water, generally in shaded situations. Common and widespread nationally but apparently of more restricted occurrence locally and primarily in far east of county. Cornwall (Clark, 1906).

*Bembidion (Ocydromus) femoratum* (Sturm)  
**County Rare.** On open clayish or gravelly soils, often near water and in sand pits and other disturbed areas. Widespread nationally.

SW43 Penzance (Clark, 1906).

*Bembidion (Ocydromus) lunatum* (Duftschmid)  
**Nationally Scarce & County Rare.** On moist, usually clayey soils, especially along river banks and streams, but very localised in GB.  
 SS21 Near Morwenstow, four, 1904 (Clark, 1906).

*Bembidion (Ocydromus) maritimum* (Stephens)  
**County Rare.** Confined to the sea shore and estuaries, on mud, fine sand or gravel by moving water.  
*B. concinnum* Steph. (Clark, 1906).  
 SW43 Penzance (Clark, 1906).  
 SW84 Ruan Laniorne, brackish mudflats along river, 9.vii.1983, KNAA.  
 SX45 Plymouth area, 1918, JHK.

*Bembidion (Ocydromus) saxatile* (Gyllenhal)  
**Nationally Scarce & County Rare.** On sand and gravel by water, often at cliff base on coast. Cornwall (Clark, 1906).  
 SW64 Penlu, Tucking Mill, v.1943, HC Fountain.

*Bembidion (Ocydromus) Stephensi* (Crotch)  
**County Rare.** On bare moist clayey soils with trickling water, always with some shade, and especially near the coast. Rare inland. *B. affine* Steph. Cornwall (Clark, 1906).  
 SW54 Gwithian, v.1934, RTB.  
 SX35 Tregantle, 1900 (Lindroth, 1956).  
 SX37 Armstrong, 10.v.2009, IM.

*Bembidion (Ocydromus) tetracolum* (Say)  
 In open moderately moist situations with scattered vegetation; very catholic. *B. littorale* Ol. Cornwall & Scilly (Clark, 1906). Very widespread in county.

*Bembidion (Nepha) illigeri* Netolitzky syn. *B. genei* (Küster)  
 On sparsely vegetated open moist clay or sand, usually near water, often coastal. Widespread in the English lowlands. Not known to Clark (1906) and discovered in Cornwall only in 1961, but clearly fairly widespread.  
 SW43 Bosigran, 1989, SJG, det. KNAA.  
 SW53 Lelant, viii.1967, RM Lyszkowski.  
 SW61 Kynance, 1961, KC Side. Clahar Bridge, 18.ix.1980, 29.iv.1981, DAS. Windmill Farm, 5.iv.2007, PAG.  
 SW71 Kennack sands, 1961, KC Side. Lizard NNR, 1980 & 1981, DAS. Goonhilly, 18.vi.2001, PAG.  
 SW72 Trevassack Quarry, 6.vi.1981, DAS. Prisk Cove, 9.vii.2007, PAG.  
 SW73 Argal Reservoir, 9.viii.1988, R Nash (via ML Luff).  
 SW75 Penhale Camp, 29.vii.2007, PAG.  
 SX19 Widemouth Bay, swept from sand dunes, 29.vi.2009, IM.  
 SX28 Bodmin Moor, 13.viii.2004; Altarnum, 14.vi.2004, IM.

*Bembidion (Lymnaeum) nigropiceum* (Marsham)  
**Nationally Scarce & County Scarce.** Stony or sandy coastal localities. *Lymnaeum nigropiceum* (Clark, 1906).  
 SW42 Mousehole, iii.1923, RTB; 24.iv.2002, PAG; still in pebbly shingle just below HWST, 2003, JMW.  
 SW83 Portscatho, vi.1897, GC Champion.  
 SX16 Boconnoc Park, iv.1972, KC Side.  
 SW35 Whitsand Bay, once only under stones on rocky shore, 25.v.1902, RSK (Clark, 1906). Battern, one, xii.1888; one, viii.1889, one, viii.1890; two deep in the shingle, ix.1890, Keys (1918).  
 SX44 Rame Head, three, iv.1902, Keys (1918).  
 SX45 (414505), 13.vii.1998, P Whitton & JMW.

*Bembidion (Semicampa) gilvipes* (Sturm)  
**Nationally Scarce & County Rare.** On permanently moist clay soils in shaded marshy habitats, especially on floodplains; becoming rarer over much of the country. Cornwall (Clark, 1906).

SW76 Pentire, Newquay, vi.1968, RTB.

*Bembidion (Diplocampa) assimile* (Gyllenhal)

**County Rare.** In eutrophic wetland vegetation, inhabiting dense vegetation and reed beds, although mainly in upper saltmarsh in Wales.

SV81 Tresco (Clark, 1906).

SW53 Marazion Marsh (Clark, 1906).

*Bembidion (Diplocampa) clarkii* (Dawson)

**Nationally Scarce & County Rare.** Mainly in southern and eastern England, at the margins of shaded ponds and lakes. Not known to Clark (1906).

SW42 Penzance, seaweed, vi.1924, RTB.

*Bembidion (Diplocampa) fumigatum* (Duftschmid)

**Nationally Scarce & County Rare.** Well-vegetated, marshy areas, on clay soils, estuaries and saltmarshes. Mainly eastern Britain.

SW53 Hayle (Clark, 1906).

*Bembidion (Emphanes) minimum* (Fabricius)

**County Rare.** On moist clayey soil near the sea shore. Cornwall (Clark, 1906) but not acknowledged in Luff (1998).

*Bembidion (Emphanes) normannum* (Dejean)

**County Rare.** Saltmarshes. West Cornwall (Marquand, 1881) & Cornwall (Clark, 1906).

SX45 Wivelscombe Creek, six, vi.1915, Keys (1918).

*Bembidion (Bembidion) quadrimaculatum* (Linnaeus)

Very common, on open rather dry soil, sparsely-vegetated, including arable. Cornwall (Clark, 1906).

Fairly widespread in the county.

*Bembidion (Bembidion) quadripustulatum* (Audinet-Serville)

**Nationally Scarce & County Rare.** On damp bare clay or sandy mud at watersides, and a ready coloniser of newly exposed situations including modern farm reservoirs. Possibly mainly along river floodplains. *B. quadriguttatum* F. Cornwall (Clark, 1906) but no records in Luff (1998).

*Bembidion (Trepanes) articulatum* (Panzer)

**County Rare.** Unvegetated moist clay or sandy mud near freshwater, but rarely on coast; widespread in central, southern & eastern England. Cornwall (Clark, 1906) but no records in Luff (1998).

*Bembidion (Phyla) obtusum* (Audinet-Serville)

**County Rare.** Open clayey ground, often cultivated ground. Cornwall (Clark, 1906).

SW32 Sennen district, J Isabell (1890).

SW53 Lelant, iv.1972, RTB.

SW71 Kennack, xi.1932, RTB.

SW84 St Michael Penkevil, 1964, KC Side.

*Bembidion (Philochthus) aeneum* (Germar)

**County Rare.** On firm moist clay with short vegetation of grasses and sedges, especially near temporary water. Mainly along sea shores in the south, and penetrating up estuaries.

SV91 Isles of Scilly, 1931, KGB.

SW62 Loe Bar, v.1958, RTB.

SW64 Tehidy, 1945, CC Townsend.

SX05 Par (Clark, 1906).

*Bembidion (Philochthus) biguttatum* (Fabricius)

**County Rare.** On open ground near water or in damp grasslands. Common across lowland Britain but scarcer in north and west. Cornwall (Clark, 1906).

SW61 Kynance, 1973, RTB.

SW87 St Merryn, 1925, KG Blair.

SX38 Launceston, flood debris, 14.iii.2008, IM.

*Bembidion (Philochthus) guttula* (Fabricius)

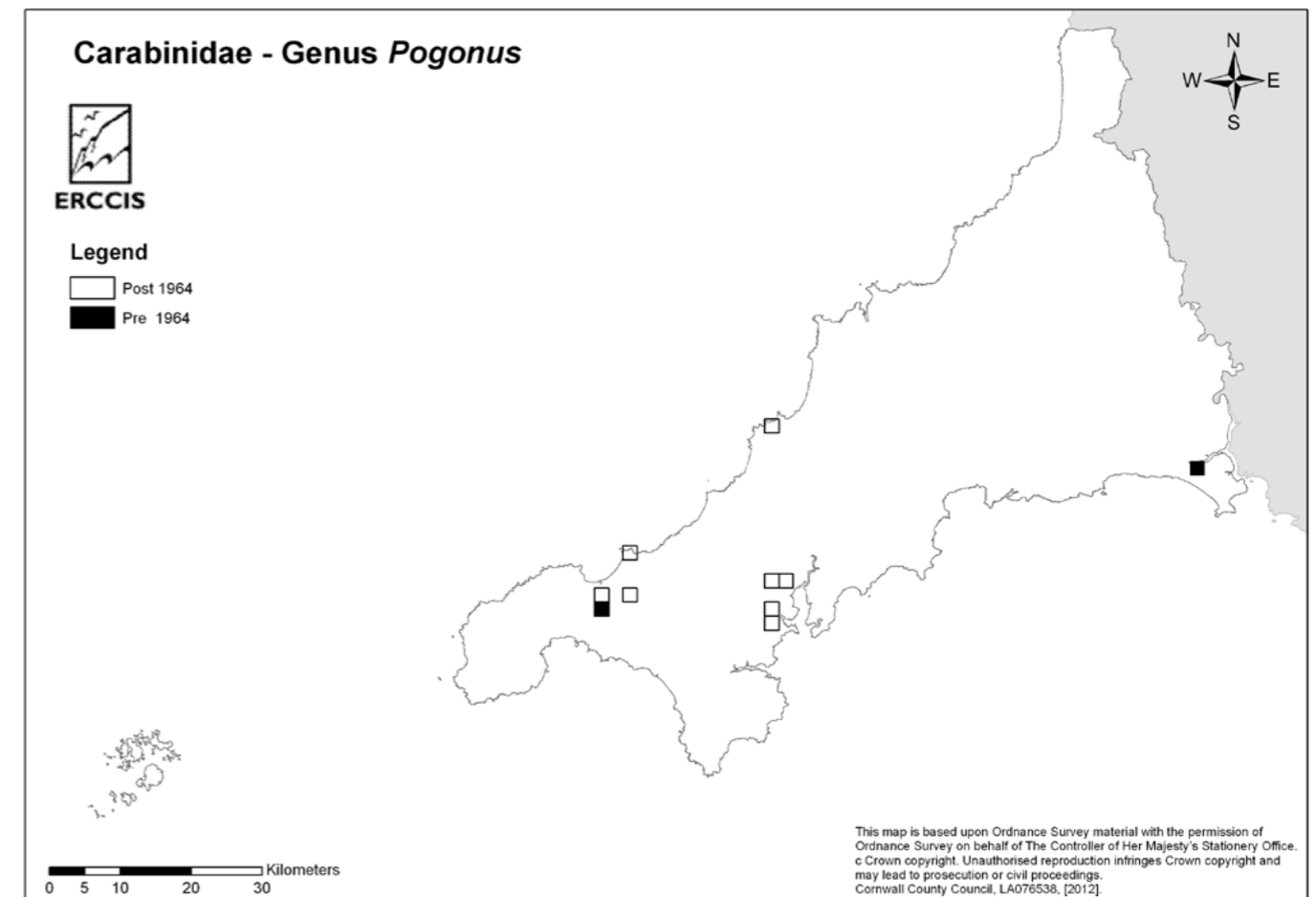
In rich vegetation in moist situations, usually on clay, near water; woods, grassland, etc. Cornwall (Clark, 1906). Fairly widespread in the county.

*Bembidion (Philochthus) lunulatum* (Geoffroy)

On permanently damp clayey soil with rich vegetation near water and on the coast. *B. riparium* Ol. Cornwall (Clark, 1906). Very widespread in the county.

*Bembidion (Philochthus) mannerheimii* (Sahlberg, R.F.) syn. *B. unicolor* (Chaudoir)

Among moss and leaves on moderately moist soils in broadleaved woodlands and fens. Cornwall (Clark, 1906). Very widespread in the county.



### Pogonus

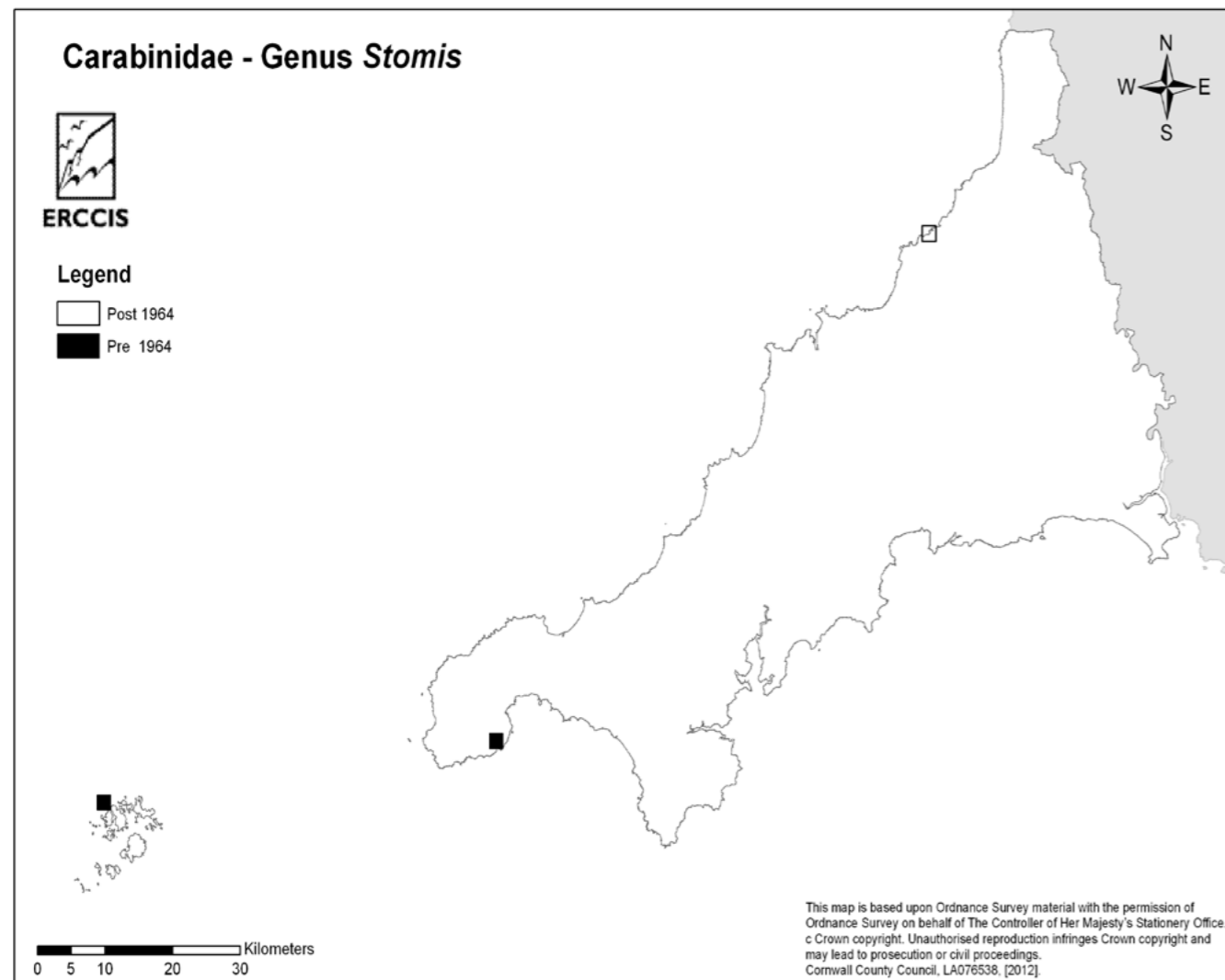
*Pogonus chalceus* (Marsham)

On clayey sea shores, usually in saltmarshes. Common in suitable situations all around the English coast, including Cornwall. Cornwall (Clark, 1906).

*Pogonus littoralis* (Duftschmid)

**Nationally Scarce & County Rare.** On clayey sea shores, usually in saltmarshes. Most frequent in Wash and Thames Estuary areas. Cornwall (Clark, 1906), but no records in Luff (1998).





### Stomis

*Stomis pumicatus* (Panzer)

**County Scarce.** Widespread in moist shady habitats along river alluvium, mostly in meadows and woodlands. Cornwall (Clark, 1906).

SW32 Sennen district, J. Isabell (1890).

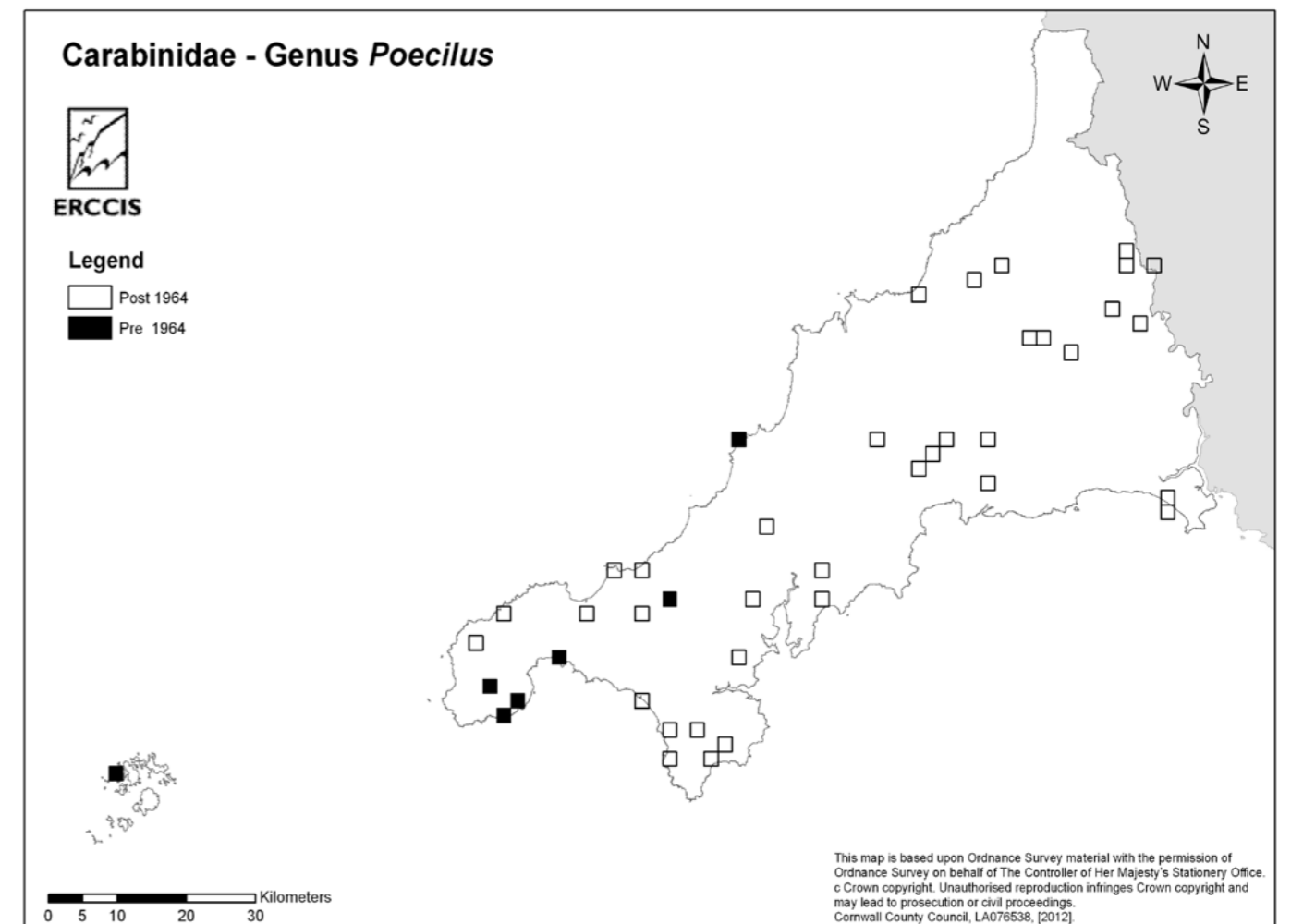
SW42 Mousehole, v.1923, RTB.

SW53 Hayle, vii.1962, FD Buck.

SW71 Gwendreath Valley, Kennack, 18.iv.1998, KNAA.

SX19 Millhook, 1919, via ML Luff. Peters Wood, v.1964, R Murphy (1979). Dizzard, 1972, KC Side.

SS21 Heatham, Kilkhampton, 24.v.1974, via ML Denton.



### Poecilus

*Poecilus cupreus* (Linnaeus)

In open, moderately dry and warm situations, often arable fields. Common and widespread in the county. Cornwall (Clark, 1906).

*Poecilus kugelanni* (Panzer)

**BAP Priority Species & Red Data Book (Endangered).** On warm, dry, sandy heaths and banks; formerly widely scattered across southern Britain but only recently seen in the New Forest, Devon & Cornwall. Not known to Clark (1906).

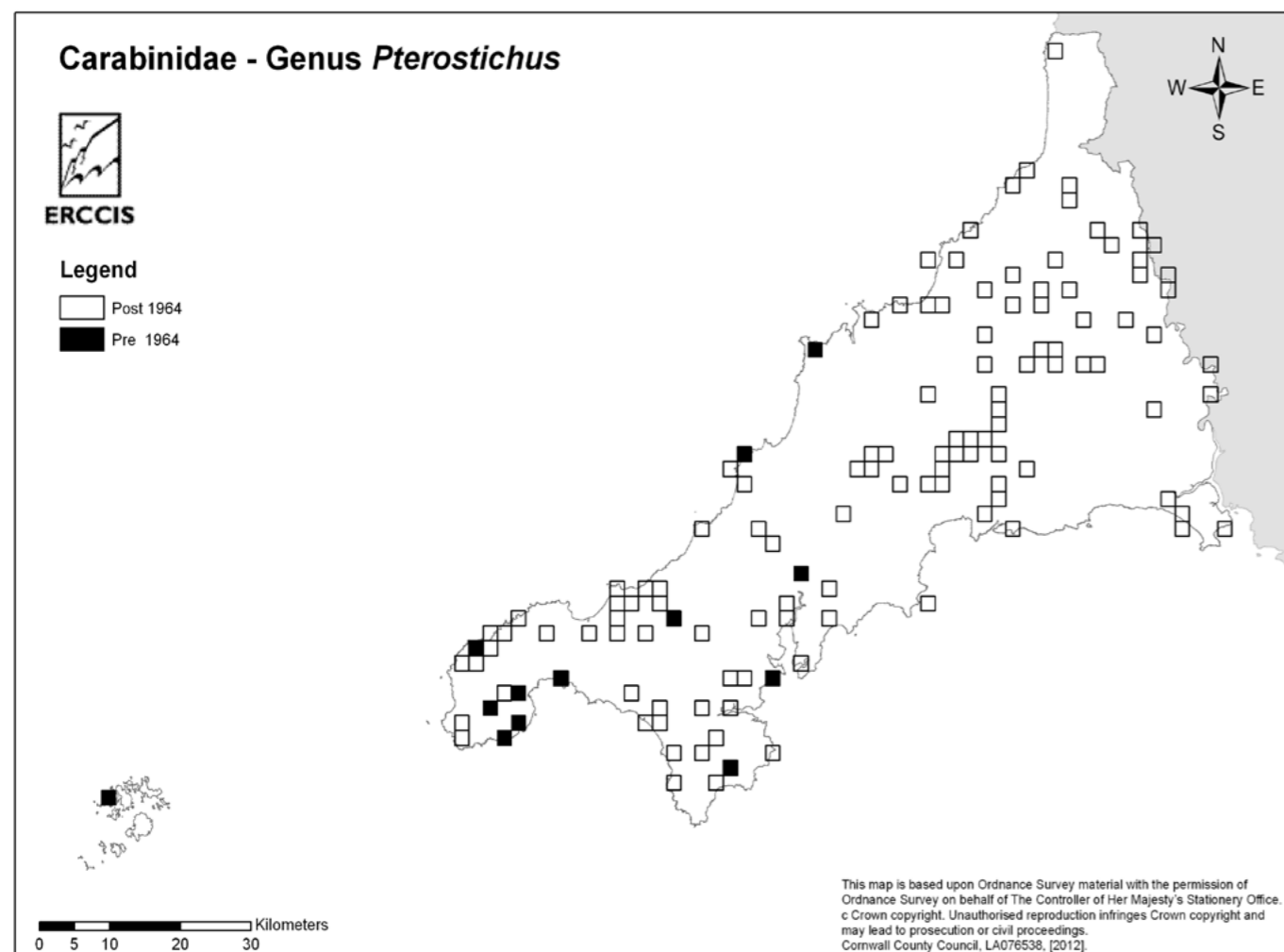
SW42 St Loy, vi.1936, RTB.

SW76 Cubert, 1911, AJ Allen (Invertebrate Site Register); Newquay, 1911 (Walters, 2010)

SX08 Dannonchapel, 22.vii.2005, DT Bilton & in pitfall, 5.vii.2010, M Lee.

*Poecilus versicolor* (Sturm)

Open dry habitats and arable land, especially where high rainfall or else close to water. Cornwall (Clark, 1906). Widespread in the county.



## **Pterostichus**

### *Pterostichus (Steropus) aethiops* (Panzer)

**Nationally Scarce & County Rare.** A moorland species, submontane, and most often found along the wooded fringes.

SX28 Altarnun (Clark, 1906). Brown Willy, summit, 1924 (Brewster, 1975).

### *Pterostichus (Steropus) madidus* (Fabricius)

Ubiquitous. Common and widespread.

### *Pterostichus (Pediulus) longicollis* (Duftschmid)

**Nationally Scarce & County Rare.** On bare ground near water, often where soils are calcareous. Not known to Clark (1906).

SV81 Tresco, 12.x.1981, ML Denton.

### *Pterostichus (Adelosia) macer* (Marsham)

**County Rare.** On rich moist soils in open country; from coastal saltmarshes to open grassland on clay soils. Not known to Clark (1906).

SW53 Hayle, v.1943, HC Fountain.

SX05 Porthpean, vii.1981, ML Denton.

### *Pterostichus (Platysma) niger* (Schaller)

A widespread species of permanently humid semi-natural habitats such as woods and moors.

Cornwall (Clark, 1906); widespread in the county.

### *Pterostichus (Bothriopterus) oblongopunctatus* (Fabricius)

**Nationally Scarce & County Rare.** An old forest species, where active amongst leaf litter on freely-draining soils.

SV91 St Mary's, 11.x.1981, ML Denton.

SW63 Coswinsawsin Farm, 2004, P Mycock.

SX16 Doublebois, under stones in wood (Clark, 1906).

### *Pterostichus (Omaseus) melanarius* (Illiger)

In open, moderately dry country, generally agricultural situations. Widespread in the county. *P. vulgaris* L. Cornwall (Clark, 1906).

### *Pterostichus (Pseudomaseus) anthracinus* (Panzer)

**Nationally Scarce & County Rare.** An alluvial woodland speciality, favouring damp shady situations near water, such as dense marshes with a good litter layer, water margins, fens and carrs. Scilly, F.Holmes (?) (Clark, 1906).

SV81 Tresco, 1931, KG Blair.

SV91 St Mary's, 1931, KG Blair.

SW43 Penzance, F Holme (1837).

SW64 Penlu, Tucking Mill, ix.1943, HC Fountain.

SW84 Ruan Laniorne Marsh, vi.1966, RE Stebbings (1971).

SX38 Lezant, leaf litter on Broomhill farm near pond, 7.iv.1983, IM.

### *Pterostichus (Pseudomaseus) gracilis* (Dejean)

**Nationally Scarce & County Rare.** A widespread but very localised species of wet well-vegetated habitats near water, usually on clay soils. Scattered thinly across southern Britain. Not known to Clark (1906). Added to Cornish List in April 1908 by Tomlin (details not known).

SW72 Goonhilly Downs, 3.vi.1982, PJ Hodge..

SW87 St Merryn, 1925, KG Blair.

SX38 Launceston, flood debris, 27.xi.2006, IM.

SX49 Roadford Lake, 20.viii.2006, IM.

### *Pterostichus (Pseudomaseus) minor* (Gyllenhal)

**County Scarce.** A marsh species, occurring on rich humic soils, near open water. Cornwall (Clark, 1906).

SV81 Bryher, viii.1982, D Hackett.

SW42 Paul, v.1923, RTB.

SW53 Godolphin Hill, 3.vi.1965, RTB. Lelant, 13.iv.2002, CFH.

SW62 Tregoning Hill, v.1965, SMT. Loe Bar, strandline, 19.vi.1979; 16.v.1996, KNAA.

SW64 Nancekuke Common, 1981, 1982, 1983, APF.

SW72 Maenporth, 8.ii.1981, DAS.

SW95 Goss & Tregoss Moors, viii.2007, DCB.

SX05 Bugle, 1981, APF.

SX06 Camel River, 1990, J Sadler et al (2001). Red Moor, iv.1974, RTB; 15.iv.2003, CFH.

SX16 Boconnoc, 29.x.2002, PAG.

### *Pterostichus (Pseudomaseus) nigrita* (Paykull) sensu str

A lowland marsh species, most frequent in the south of England. Has until relatively recently (Luff, 1990) been confused with *P. rhaeticus* (Heer). However, both species frequently co-exist. Older records should be shown as *Pterostichus nigrita* agg. Has proved to be widespread in county.

### *Pterostichus rhaeticus* (Heer)

**County Scarce?** Usually found in more open habitats than its sibling species *P. nigrita*, especially moorland; a species of damp open hill pasture grasslands, most frequent in the north and west. Added to GB List by Luff (1990).

SW95 Goss & Tregoss Moor, vii. & viii.2007, DCB.

SX08 Dannonchapel & Tregardock, f in wet flush, 13.iv.1995, AG Duff.

SX17 South Penquite Farm, 23.vi.2005, KNAA.

### *Pterostichus (Lagarus) vernalis* (Panzer)

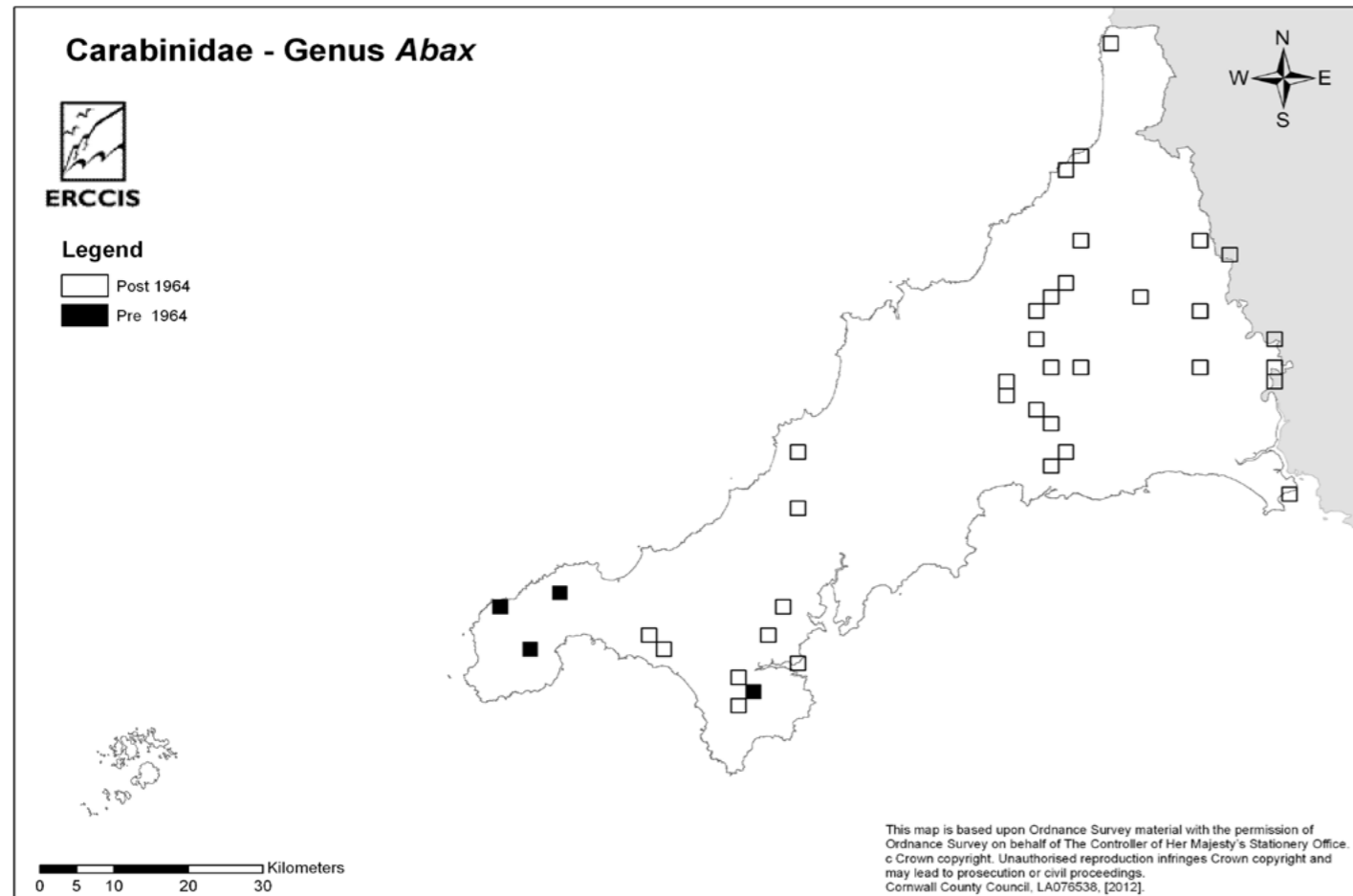
Damp grassland with some litter, often near water; lowlands, especially alluvial floodplain meadows with grasses and sedges. Cornwall (Clark, 1906). Fairly widespread in county.

### *Pterostichus (Argutor) diligens* (Sturm)

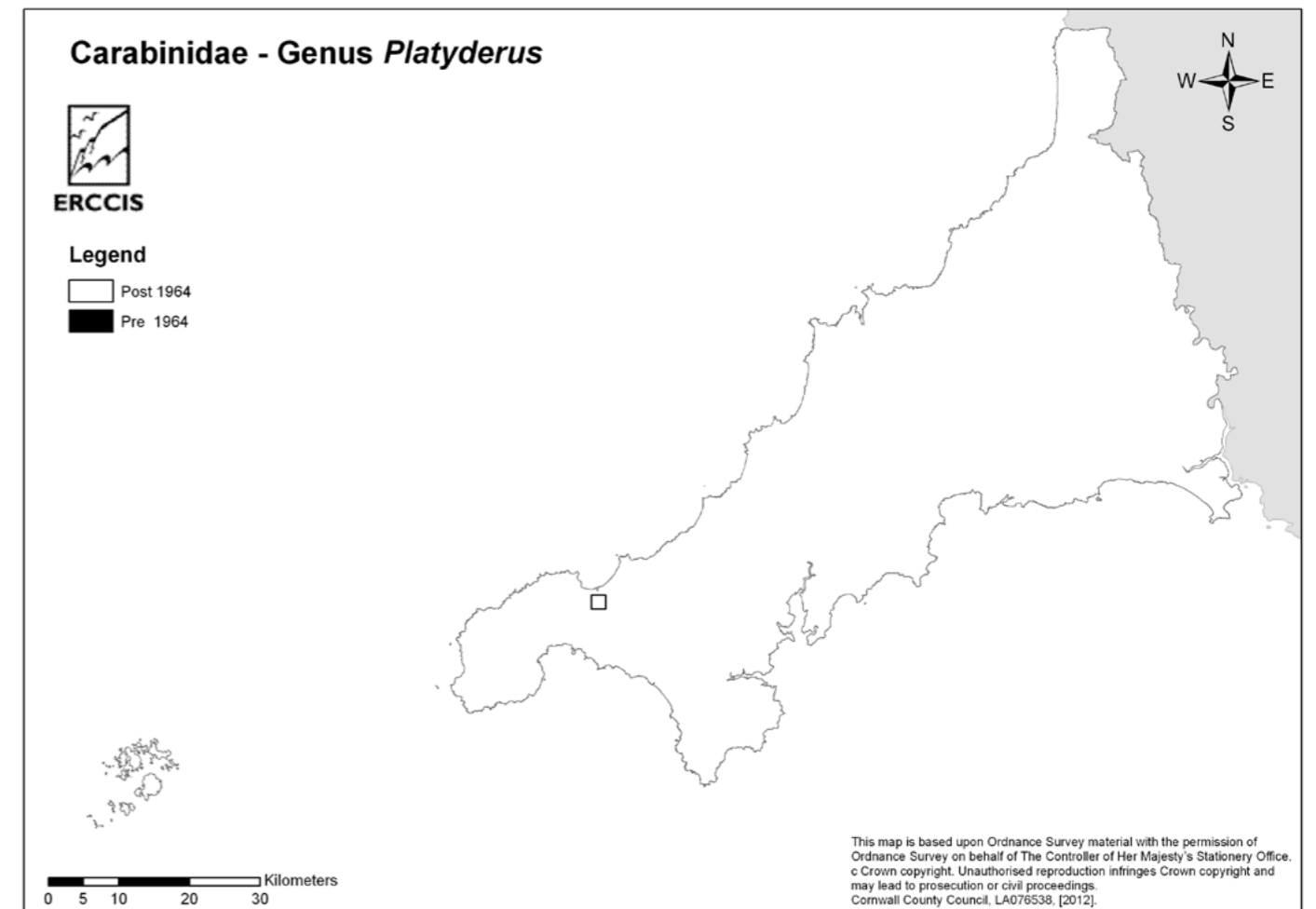
Widespread in damp grasslands, wet heaths and in marshes. Cornwall (Clark, 1906). Common and widespread in the county.

### *Pterostichus (Argutor) strenuus* (Panzer)

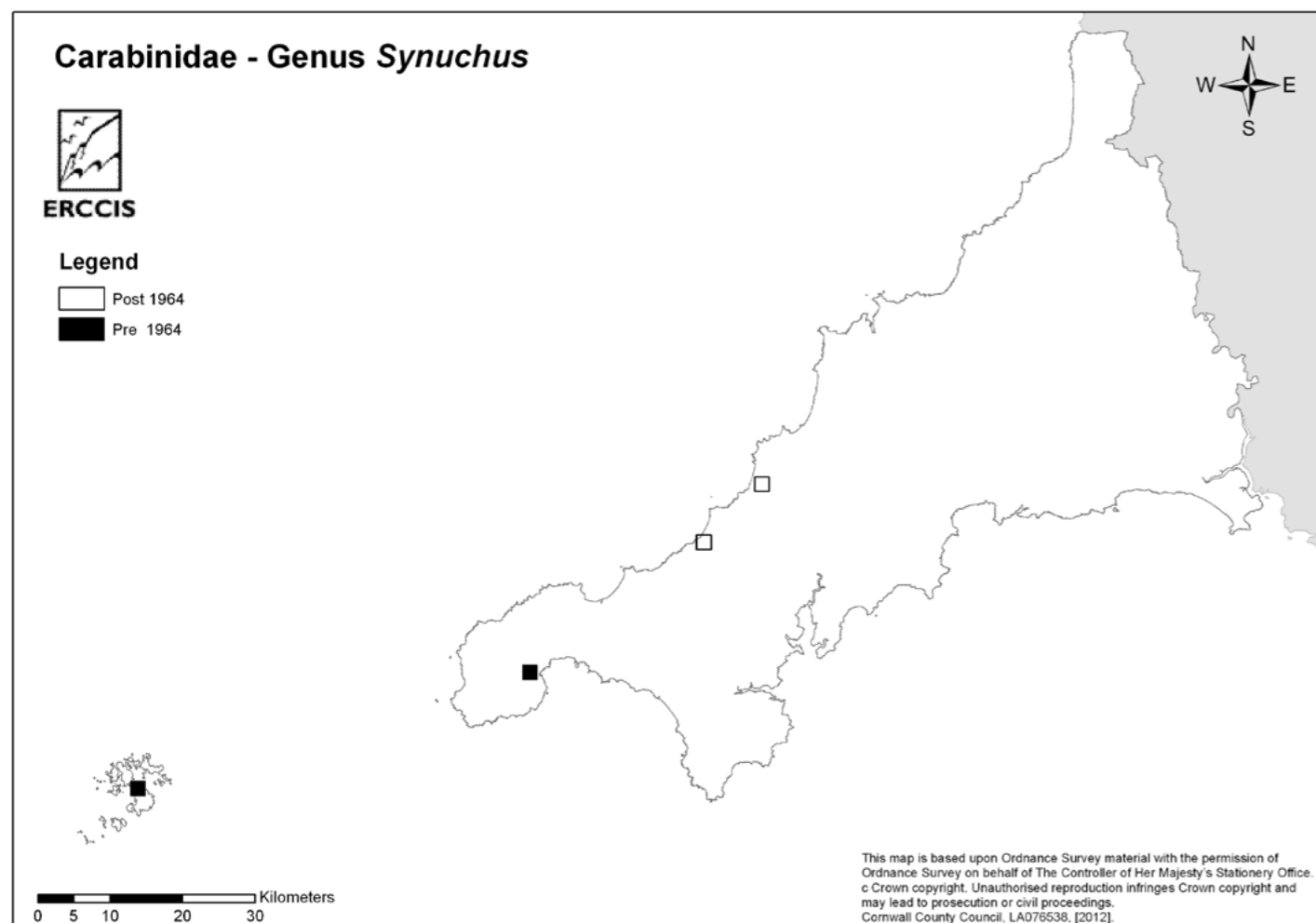
Widespread in damp habitats, in a wide variety of situations. Cornwall & Scilly (Clark, 1906).



**Abax**  
*Abax parallelepipedus* (Piller & Mitterpacher)  
 On damp open moorland with long vegetation and in woods. *Pterostichus striola* F. Cornwall (Clark, 1906). Common and widespread.



**Platyderus**  
*Platyderus depressus* (Audinet-Serville) syn. *ruficollis* (Marsham)  
**Nationally Scarce & County Rare.** In open country on freely-draining soils. Not known to Clark (1906).  
 SX36 St Ive, 24.ix.1927, via ML Denton.



## Synuchus

*Synuchus vivalis* (Illiger)

**County Scarce.** In open country on freely-draining soils, although where not too dry. *Taphria nivalis* (Clark, 1906). Known from a few seacliff sites.

SV91 St Mary's, incl Governor's Garden, Garrison, 1965, 1967 & 1969, via ML Luff.

SW32 Sennen, 1890, J Isabell; Land's End (Clark, 1906).

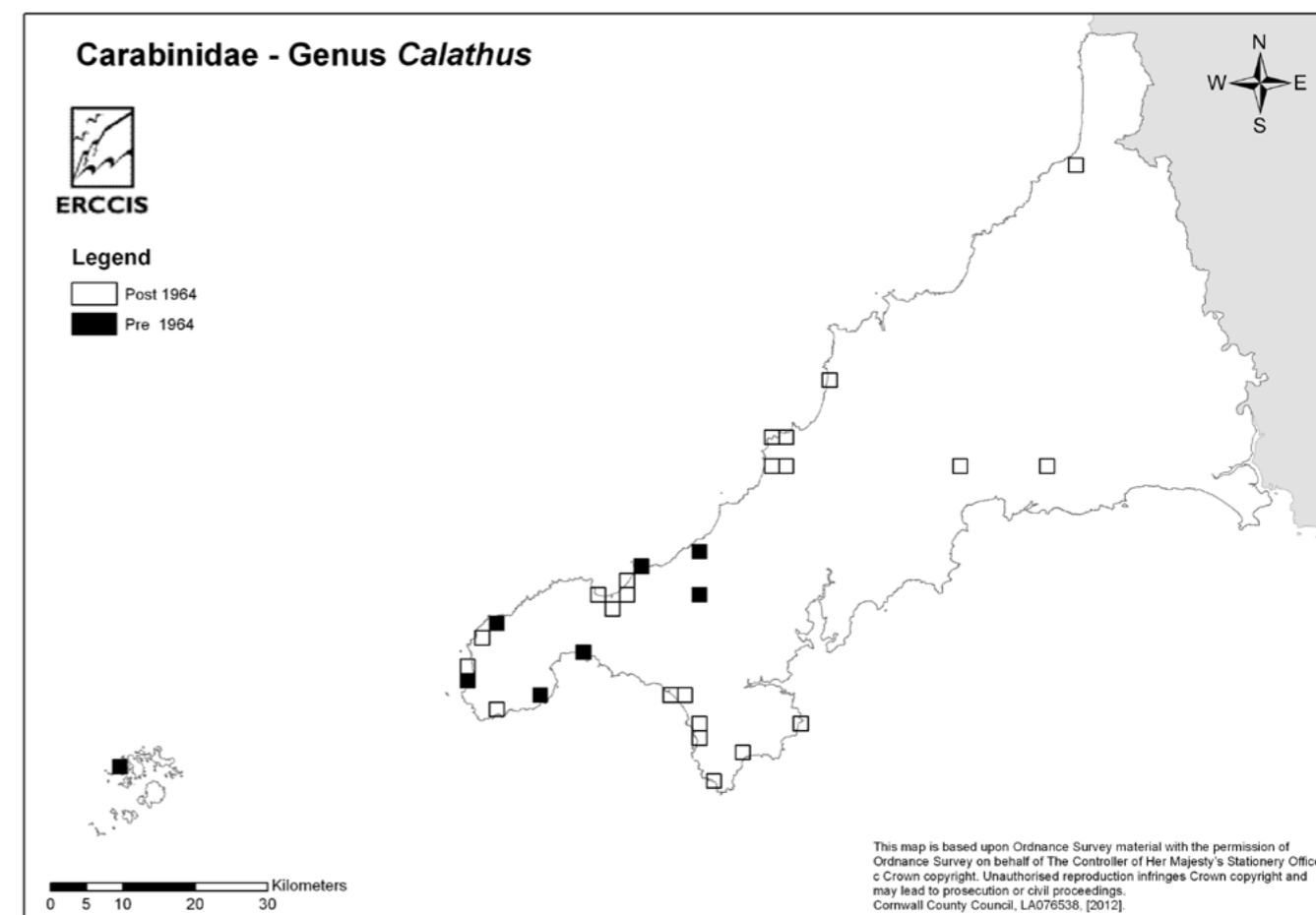
SW33 Boscawell Cliff, 21.viii.2002, KNAA.

SW42 Paul, vii.1924, RTB.

SW62 Loe Bar, 21.viii.2002, KNAA.

SW64 Nancekuke, 1981, APF; 1981, 1982, 1983, RL Mason.

SW75 Perranporth, v.1968, RTB.



## Calathus

*Calathus (Amphigynus) rotundicollis* (Dejean) syn. *piceus* (Marsham)

A speciality of broadleaved woodlands. Fairly widespread in the county. Cornwall (Clark, 1906).

*Calathus (Calathus) ambiguus* (Paykull)

**Nationally Scarce & County Rare.** Sparsely-vegetated sandy ground. Cornwall & Scilly (Clark, 1906).

SV91 St Mary's, 1931, KG Blair.

SW54 Gwithian, viii.1958, RTB.

*Calathus (Calathus) cinctus* Motschulsky

**County Rare.** Formerly included within *C. mollis* and not known to Clark (1906). Coastal sand dunes and heaths.

SW76 1903, via ML Luff.

*Calathus (Calathus) erratus* (Sahlberg, C.R.)

**County Scarce.** On dry usually sparse sandy soils: coastal dunes and lowland heaths. *C. flavipes* Fourc. (Clark, 1906).

SV81 Tresco, 1908, NH Joy; 1931, KG Blair.

SV91 St Mary's, 1931, KG Blair.

SW54 Gwithian, dunes, vi.1934, RTB; reedbed inland of road, vi.1981, APF.

SW71 Lizard, undated, RTB.

SW75 Perranporth, 12.viii.1988, R Nash. Penhale Dunes, vi.2002, AS.

SW86 post 1970 (Luff, 1998).

SX26 Liskeard (Clark, 1906).

*Calathus (Calathus) fuscipes* (Goeze)

In moderately dry grasslands on freely-draining soils, and on cultivated land. Common and widespread. *C. cisteloides* Panz. Cornwall & Scilly (Clark, 1906).

*Calathus (Calathus) melanocephalus* (Linnaeus)

In moderately dry grasslands on freely-draining soils and on cultivated land. Common and widespread. Cornwall & Scilly (Clark, 1906).

*Calathus (Calathus) micropterus* (Duftschmid)

**County Rare.** A northern and western species of shaded upland situations, such as dense heather or conifer plantations. Might be expected to be a Bodmin Moor speciality, but reported from a few other places.

- SV91 St Mary's, 1931, KG Blair.
- SW62 Loe Bar, 16.v.1996, KNAA.
- SX19 Widemouth Bay, 28.vi.2009, IM.
- SX27 above Trebartha, two (Clark, 1906).

*Calathus (Calathus) mollis* (Marsham) syn. *ochropterus* (Duftschmid)

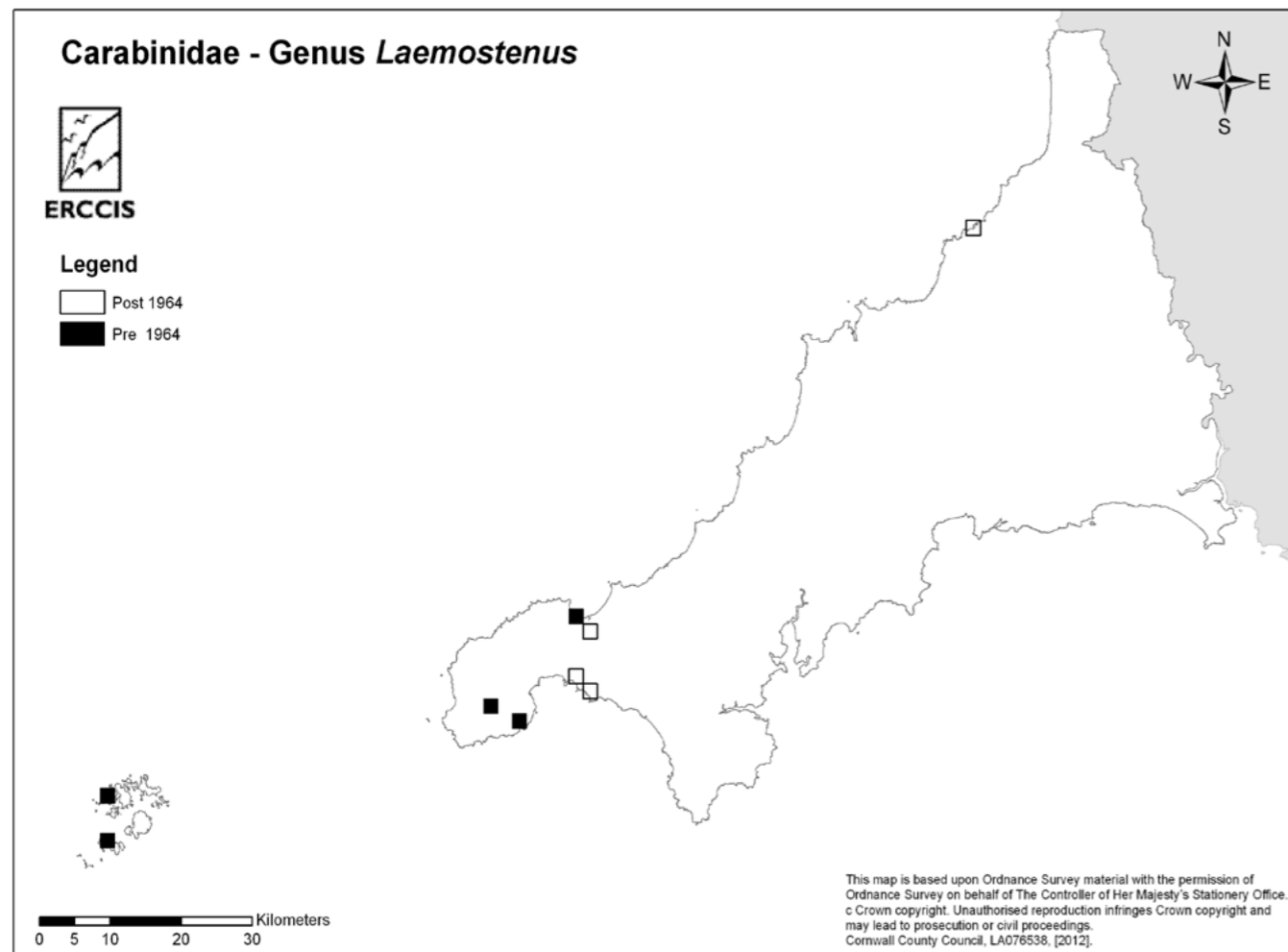
On dry sandy ground with sparse vegetation, especially near the coast, and abundant on sand dunes in the county. Cornwall & Scilly (Clark, 1906). Old records may include some *C. cinctus*.

**Sphodrus**

*Sphodrus leucophthalmus* (Linnaeus)

**Synanthropic.** Associated with cellars and outbuildings. Has become increasingly scarce nationally. E. Cornwall (Clark, 1906).

- SW87 St Merryn, in pitfall trap, 30.x.1979, SBC.



**Laemostenus**

*Laemostenus complanatus* (Dejean)

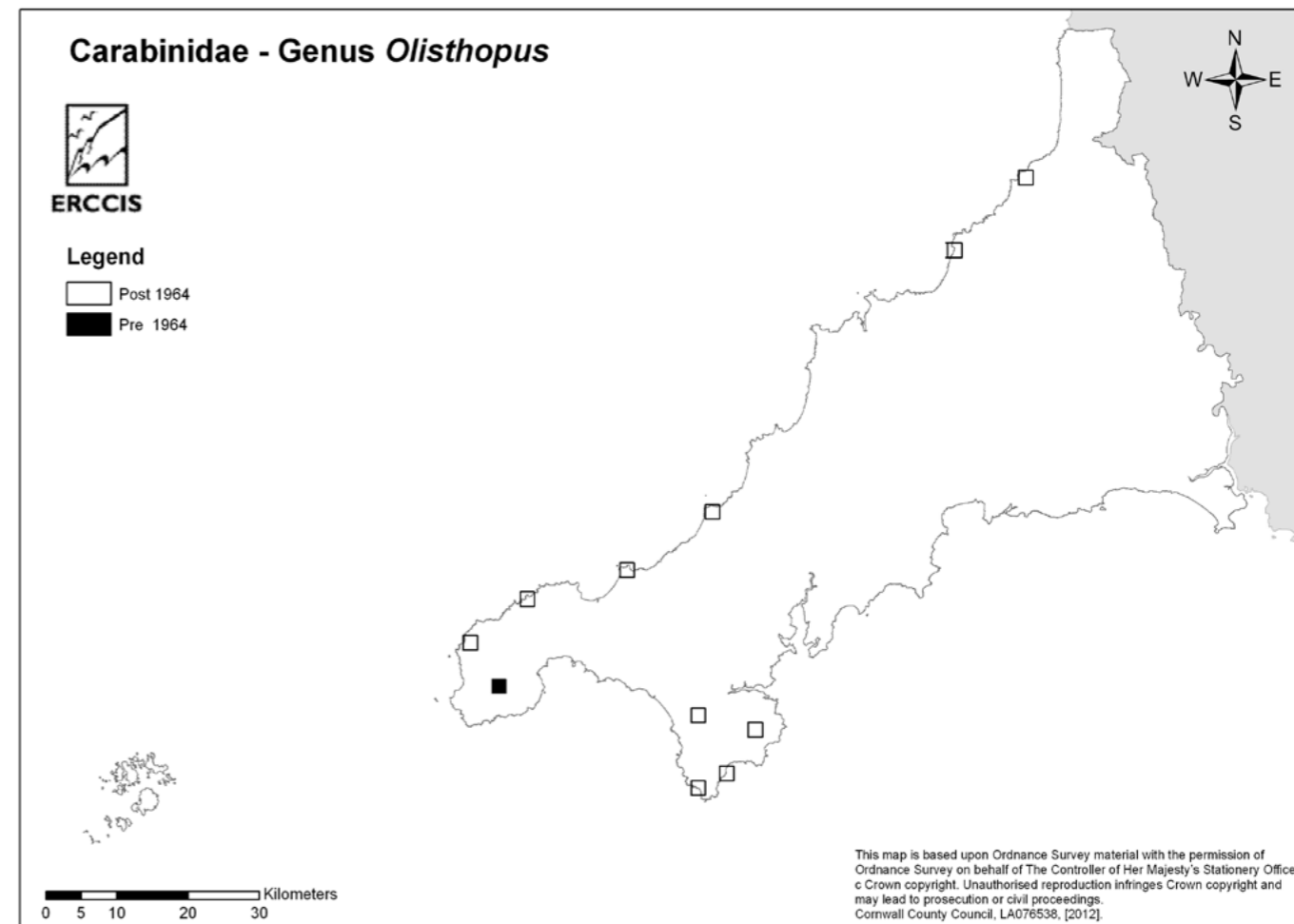
**Introduction.** Amongst shore litter. Not known to Clark (1906).

- SV81 Tresco, 1908, NH Joy; 1981, ML D'Enton.
- SV91 St Mary's, 1931, KGB; 14.ix.1997, J Cooter; 13.x.1992, MGT.
- SW42 Penzance, ix.1934, RTB.
- SW52 Boat Cove, Perranuthnoe, 13.vi.2008, PAG.
- SW53 Marazion, beach east side, 16.viii.2009, PAG. Lelant, 11.vi.2000, CFH.
- SX45 Plymouth area, 1899, JHK.

*Laemostenus terricola* (Herbst)

**County Scarce.** Lives within the solid constructions and excavations of warm-blooded vertebrates mammals and birds including their burrows and buildings. Lands End district, Marquand (1880); Cornwall (Clark, 1906).

- SV80 Annet, 1909, NHJ. Periglis, 11.x.1998, MGT.
- SV81 Garrison Camp area, St Mary's, 16.x.1992, MGT.
- SV82 pre 1970 (Luff, 1998).
- SW42 Mousehole, 13.iv.1923; St Buryan, ii.1926, RTB.
- SW53 Carbis Bay, x.1932, RTB.
- SW72 Mawnan Smith, 27.iii.1979, APF.
- SX19 Peters Wood, v.1964, R Murphy.
- SX45 Plymouth area, v.1954, via ML Luff.



**Olisthopus**

*Olisthopus rotundatus* (Paykull)

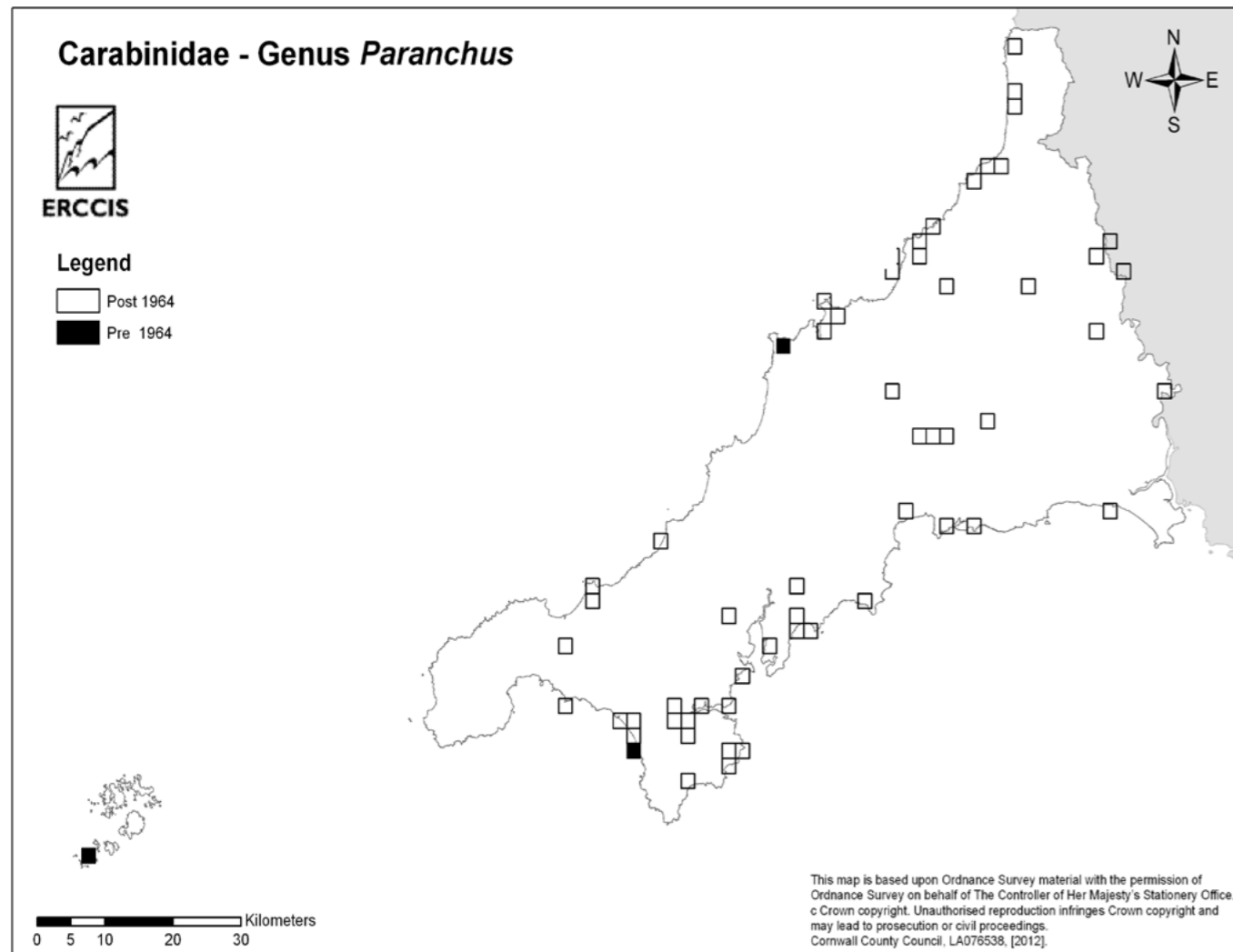
On dry open, often sandy, country; dry heaths with heather; also dry grasslands such as dunes. Cornwall & Scilly (Clark, 1906). Fairly widespread on semi-natural coastal grassland and heath.

**Oxypselaphus**

*Oxypselaphus obscurus* (Herbst)

**County Rare.** In damp shady situations, either broadleaved woodland or densely vegetated marshes. Widespread across lowland England. *A.oblongus* (Sturm), Cornwall (Clark, 1906).

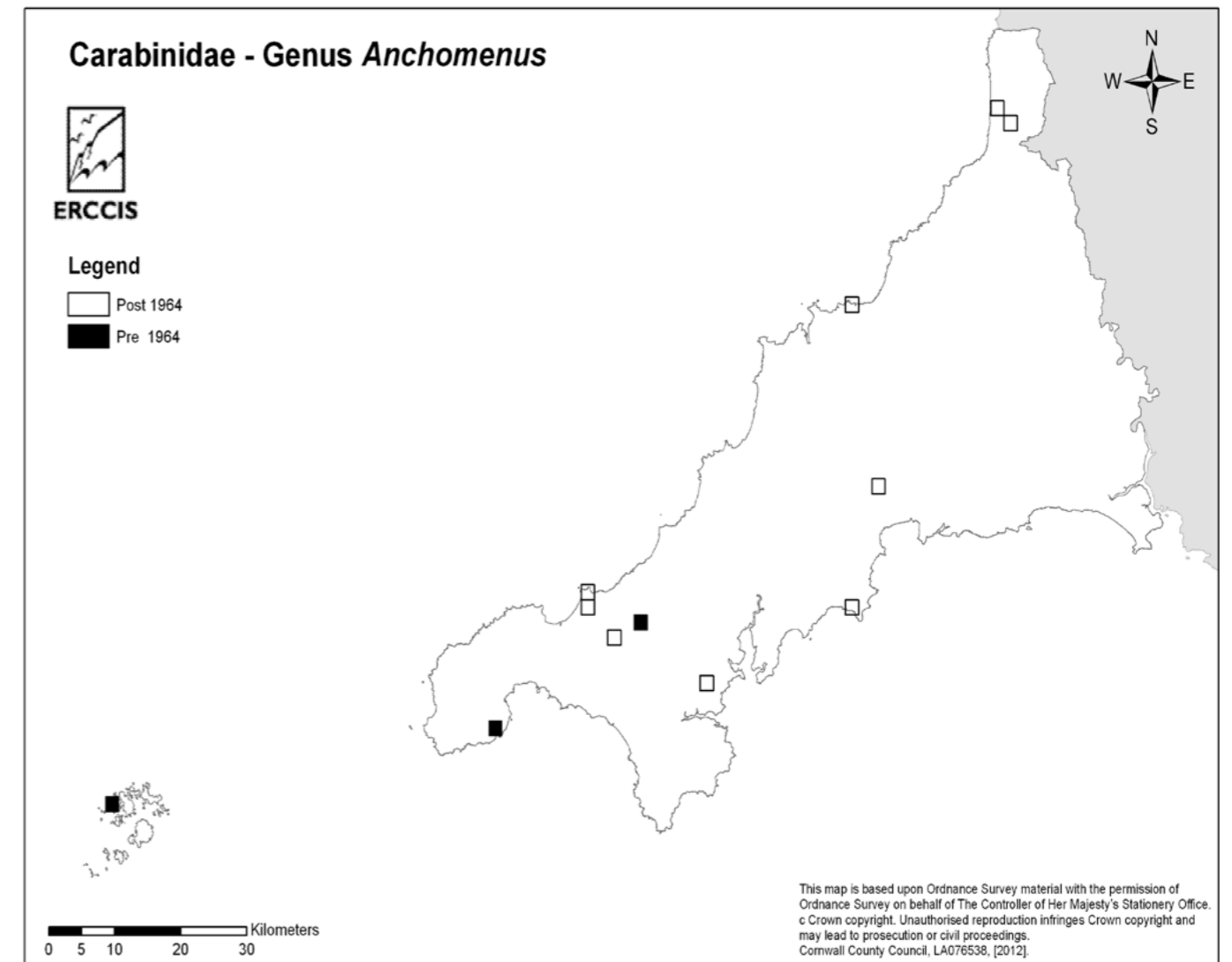
- SV90 Peninnis Head, St Mary's, 1969, Invertebrate Site Register.
- SV91 St Mary's, 1965, via ML Luff.
- SX06 River Camel, 1990, J Sadler et al (2001).
- SX45 Banks of River Tamar, iii.1934, RTB.



**Paranchus**

*Paranchus albipes* (Fabricius)

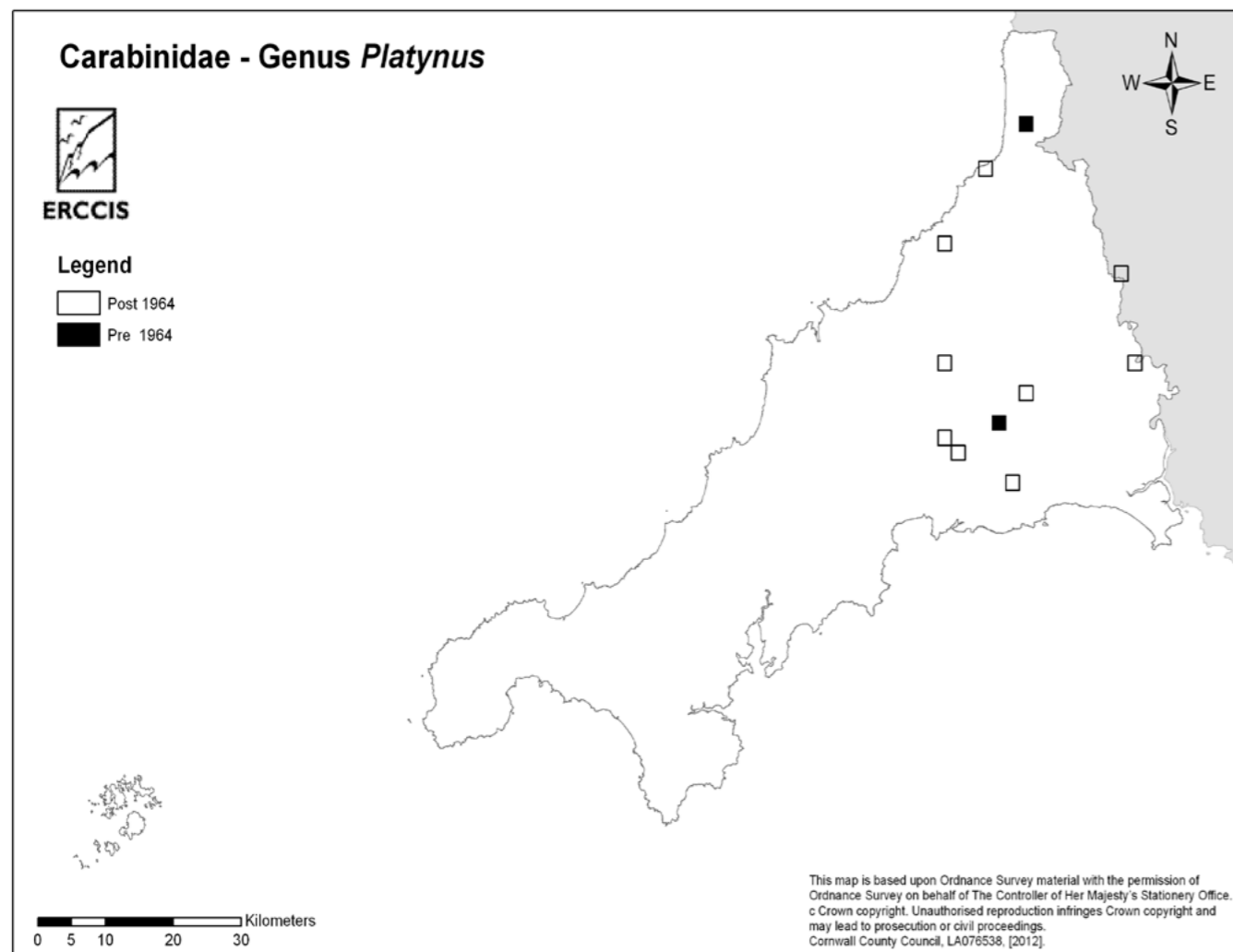
On open damp soils near water; at margins of running water, including coastal flushes. Cornwall & Scilly (Clark, 1906). Common and widespread in the county.



**Anchomenus**

*Anchomenus dorsalis* (Pontoppidan)

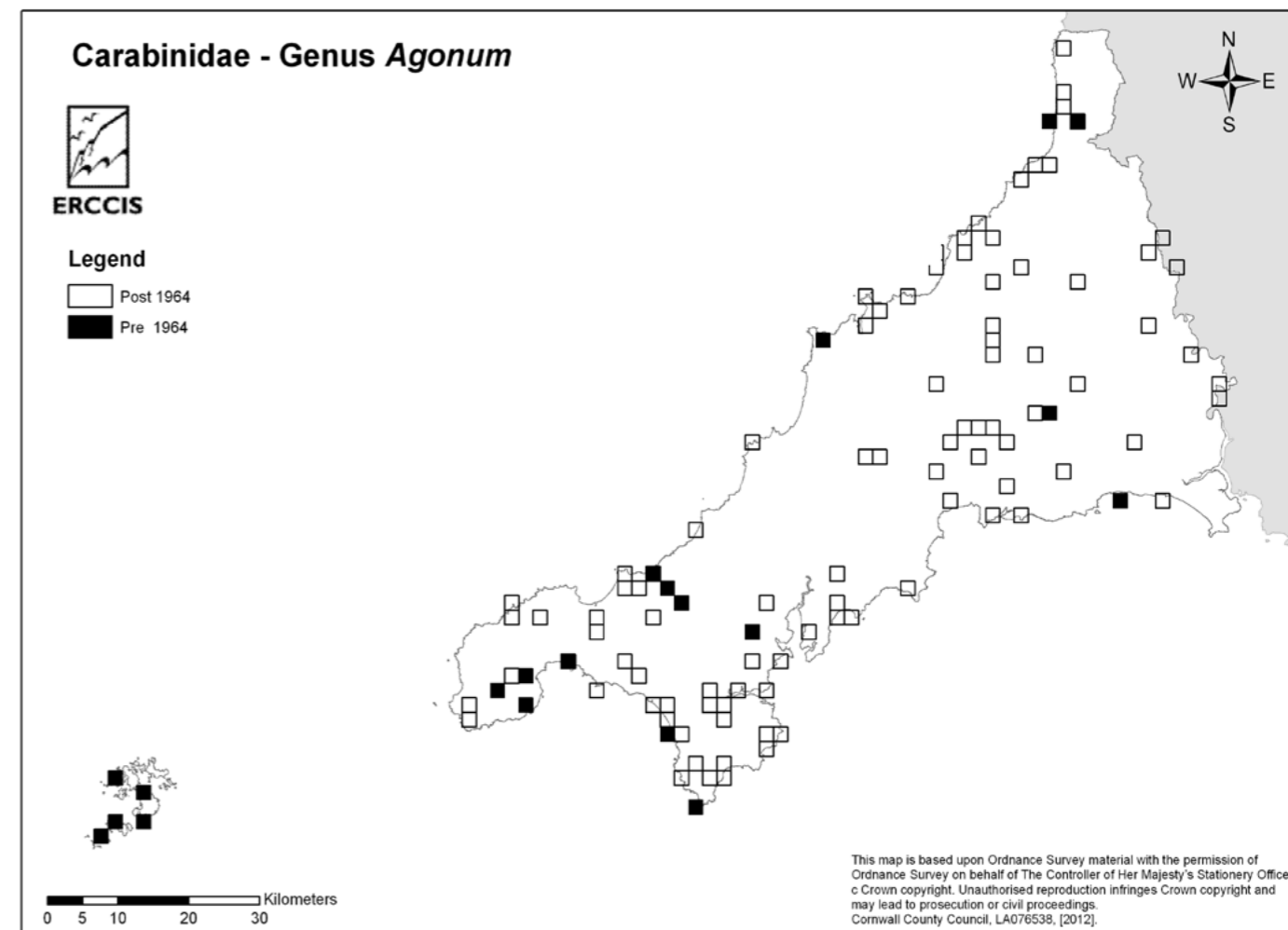
In dry open habitats, especially cultivated land. Cornwall (Clark, 1906). Very widespread.



## Platynus

*Platynus assimilis* (Paykull)

In damp shady habitats, usually broadleaved woodland. *Anchomenus angusticollis* F. (Clark, 1906). Only in east of county, where fairly widespread.



## Agonum

*Agonum (Europhilus) fuliginosum* (Panzer)

In moist shady places, especially alder woodland, but also dense marsh vegetation. Cornwall (Clark, 1906). Fairly widespread in county.

*Agonum (Europhilus) gracile* (Sturm)

In damp acid situations. Fairly widespread in county.

*Agonum (Europhilus) micans* (Nicolai)

**County Rare.** Muddy edges to ponds, lakes and rivers; also in carr woodland.

SW54 Nanterrow, 2004, SF.

SX35 banks of Lynher (Clark, 1906).

*Agonum (Europhilus) piceum* (Linnaeus)

**County Rare.** On clayish soils with rich vegetation close to water.

SW33 St Just, iv.1980, JA Owen.

SX35 Donderry, by the mouth of the Seaton, Keys (Clark, 1906).

*Agonum (Europhilus) thoreyi* (Dejean)

On damp clayey soils near water, usually lakes, with dense stands of reed, bulrush, etc. Not known to Clark (1906) but fairly widespread nowadays.

*Agonum (Agonum) emarginatum* (Gyllenhal) syn. *A. moestum* (Duftschmid)

In rich waterside vegetation on clayey soils; widespread nationally. Not known to Clark (1906) but fairly widespread in the county.

*Agonum (Agonum) marginatum* (Linnaeus)

Sparsely-vegetated damp ground on clay or sand, usually close to standing water. Cornwall (Clark, 1906). Widespread in county.

*Agonum (Agonum) muelleri* (Herbst)

In many open habitats that are neither wet nor dry; especially on dry clayey cultivated soils. Widespread. *Anchomenus parumpunctatus* F.S. Cornwall (Clark, 1906).

*Agonum (Agonum) nigrum* (Dejean)

**Nationally Scarce & County Scarce.** Among sedges and grasses in rich marshes, salt or freshwater, silty soils, mainly in coastal districts. *Anchomenus atratus* Duft. West Cornwall, ED Marquand (1881); Cornwall (Clark, 1906).

SV91 Isles of Scilly, 1931, KGB.

SW86 Newquay, 1915 & 1925, via ML Denton.

SX25 Penzephyr Farm, Trebrownebridge, 3.vii.1980, AS. East Looe, 1989, T Harrison

SS20 Bude Marshes, 1909, P de la Garde.

*Agonum (Agonum) sexpunctatum* (Linnaeus)

**Nationally Scarce & County Rare.** On open, moist, sparsely-vegetated peaty soils, with sedges or grasses, near water. Very few known sites remaining in central England. Not known to Clark (1906).

SW53 Hayle, 1957, Miss M Harris.

SW63 Coswinsawsin Farm, 2004, Peter Mycock (ERCCIS).

*Agonum (Agonum) viduum* (Panzer)

**County Scarce.** Widespread in waterside marshes where there is abundant rich vegetation, with *A. emarginatum (moestum)*, with which it was confused in earlier records.

SW42 Paul, iii.1923, RTB.

SW43 Sancreed Reservoir, vi.1975, RTB.

SW53 Penzance & Marazion Marsh (Clark, 1906).

SW84 Ruan Laniorne Marsh, vi.1966, RE Stebbings (1971).

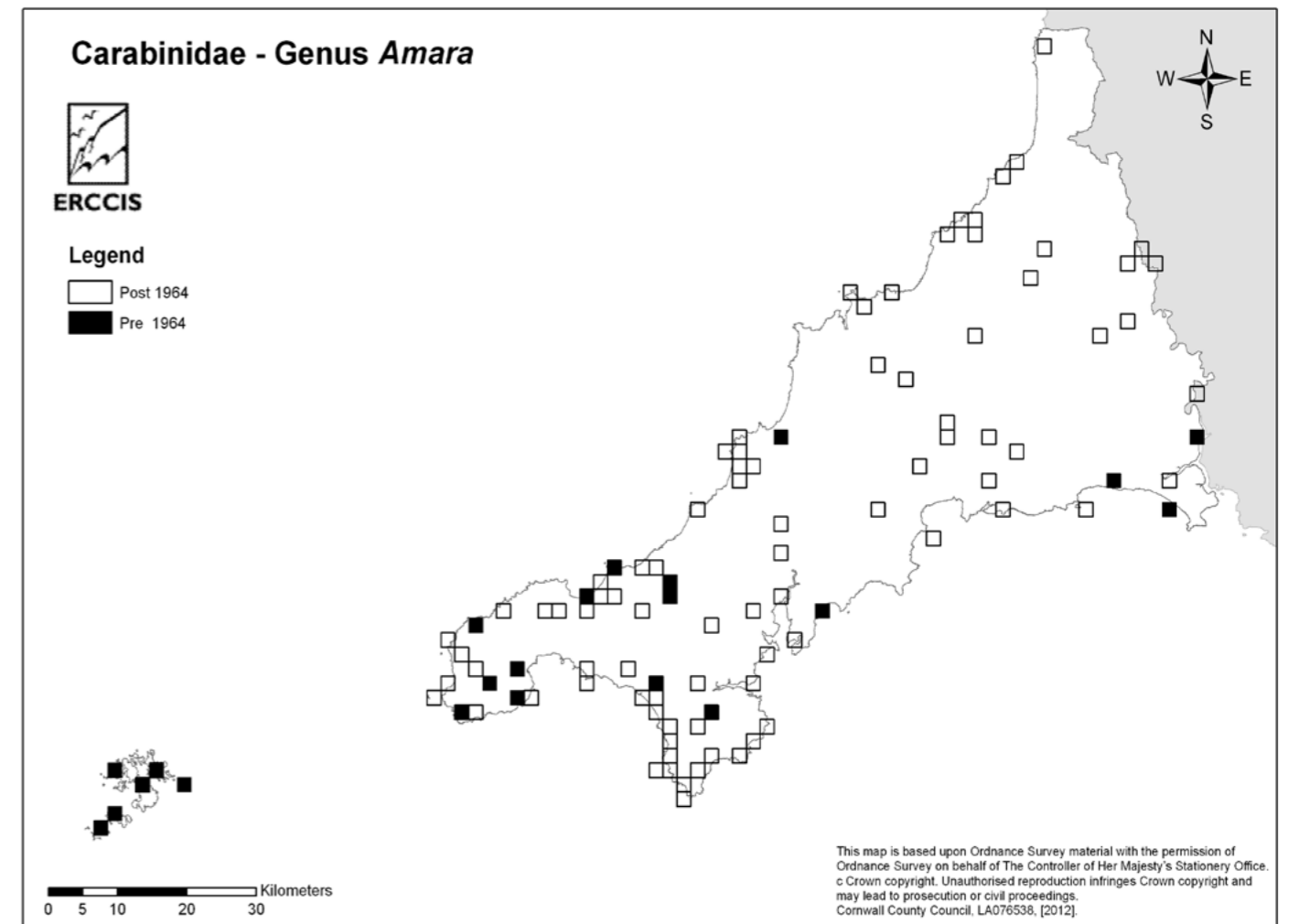
SW87 St Merryn, KG Blair (1931).

SX16 Boconnoc, 29.x.2002, PAG.

SX25 Looe, 29.iv.1919, JH Adams.

SS20 Bude Marshes, 27.xii.1909, P de la Garde.

SS21 Welcombe & Marsland Reserve, vi.1988, RSK.



**Amara**

*Amara (Zezea) plebeja* (Gyllenhal)

In moister situations than most *Amara*, preferring humid, vegetated soils; widespread. Very widespread in county.

*Amara (Amara) aenea* (Degeer)

Common and widespread in short or sparse grasslands on freely-draining soils. *A. trivialis* Gyll. Cornwall & Scilly (Clark, 1906). Very widespread in the county.

*Amara (Amara) communis* (Panzer)

Widespread in open habitats which are not too dry; tolerant of high rainfall unlike many of the genus. Cornwall (Clark, 1906). Widespread in the county.

*Amara (Amara) convexior* (Stephens)

**County Scarce.** Associated with open sunny sites on gravelly soils. *A. continua* Thoms. (Clark, 1906).

SV81 Tresco, 1965, via ML Luff.

SV91 St Mary's, 1931, KGB. Eastern Isles, 1969, Invertebrate Site Register. Great Ganilly, 1967, CMJ.

SW32 Lands End, vii.1969, RTB.

SW61 Mullion, 1980; Predannack, vi.1981; Lizard NNR, 1981, DAS. Caerthilian, 2.v.1999, MGT.

SW75 Holywell Bay, 10.iv.2009, PAG.

SW84 Truro (Clark, 1906).

SX19 Dizzard, 2.iv.1989, RS Key.

SX35 Tregantle (Clark, 1906).

*Amara (Amara) eurynota* (Panzer)

**County Rare.** On open, light, often cultivated ground, amongst weed vegetation. *A. acuminata* Payk. Cornwall (Clark, 1906).

SW53 Hayle Estuary, vii.1963, RTB.

SW64 Reskadinnick-Roscroggan, v.1943, HC Fountain.

SW76 Pentire West, vi.1975, RTB.



*Amara (Amara) famelica* (Zimmermann)  
**Red Data Book (Rare)**. Damp areas within dry sandy heaths; mainly in southeast England. Not known to Clark (1906).  
 SW64 Penlu, Tucking Mill, iv.1943, HC Fountain.

*Amara (Amara) familiaris* ((Duftschmid))  
 On all kinds of open dry ground. Widespread in the county. Cornwall & Scilly (Clark, 1906).

*Amara (Amara) lucida* (Duftschmid)  
**Nationally Scarce & County Scarce**. A dry grassland species, mostly on coastal sand dunes. Cornwall (Clark, 1906).  
 SV81 Tresco, iv.1908, NHJ; 1931, KGB.  
 SV91 St Mary's, 1931, KGB.  
 SW32 Sennen district, J Isabell (1890). Lands End, 19.vi.1897, GC Champion.  
 SW54 Gwithian, v.1934, RTB; 1981, APF.  
 SW62 Loe Bar, 15.vi.2007, PAG.  
 SW75 Perranporth, vi.1963, RTB; 12.viii.1988, R Nash. Holywell Bay, 19.iv.1985, IS Carter.  
 SW82 Treglowhan, 16.iv.2007, PAG.  
 SW87 St Merryn, 1931, KG Blair.  
 SW97 Trebetherick Point, 1985, P Kirby & SJ Lambert.  
 SX35 Whitsand Bay, frequent, Keys (1918).

*Amara (Amara) lunicollis* (Schiödte)  
 Fairly widespread on rather dry sandy or peaty ground, on moorland, in grassland, etc. Cornwall (Clark, 1906).

*Amara (Amara) montivaga* (Sturm)  
**Recent Immigrant**. An early successional species, associated with weed vegetation on dry, freely-draining soil, and usually near human habitation. A relatively recent arrival in Britain, first found at Newquay in 1934, although now better known in the south-east of England.  
 SW86 Newquay, 1934 (Duff, 1992).  
 SX08 Tintagel, 10.vii.1952, P Skidmore.

*Amara (Amara) nitida* (Sturm)  
**Nationally Scarce & County Scarce**. Known from a variety of dry situations, on freely-draining soils, including heaths, dunes, gravel pits and calcareous grasslands. Not known to Clark (1906).  
 SV81 Isles of Scilly, ix.1845, F Holme.

*Amara (Amara) ovata* (Fabricius)  
 Sparsely vegetated open ground on freely-draining soils. Cornwall & Scilly (Clark, 1906). One of the commonest species in maritime grasslands.

*Amara (Amara) similata* (Gyllenhal)  
 An early successional species, favouring freely-draining soils with crucifers and other weed vegetation. Cornwall (Clark, 1906); relatively widespread.

*Amara (Amara) tibialis* (Paykull)  
 Widespread on open sandy areas of grass and heath. Cornwall (Clark, 1906).

*Amara (Celia) bifrons* (Gyllenhal)  
**County Scarce**. On sandy soils with little vegetation; more frequent in eastern Britain.  
 SV90 St Mary's, 1931, KGB.  
 SV91 St Mary's, not rare, vii.1897, GCC (Champion, 1897).  
 SW32 Whitesand Bay, 1897, GC Champion. Boscregan Farm, 30.v.2007, PAG. St Leven, 20.iv.2011, KNAA.  
 SW53 Lelant, 2.vii.2000, CFH.  
 SW54 Gwithian, vii.1935, RTB; 1981, APF.  
 SW75 Holywell, 1975, JA Owen. Reen Sands, 1.vi.1982, PJ Hodge. Perranporth, 12.viii.1988, R Nash.  
 SW76 West Pentire, 3.vii.1997, MGT.  
 SX35 Donderry, one, Keys (Clark, 1906).

*Amara (Celia) praetermissa* (Sahlberg, C.R.)  
**Nationally Scarce & County Rare**. Dry localities including dunes, and often associated with artificial

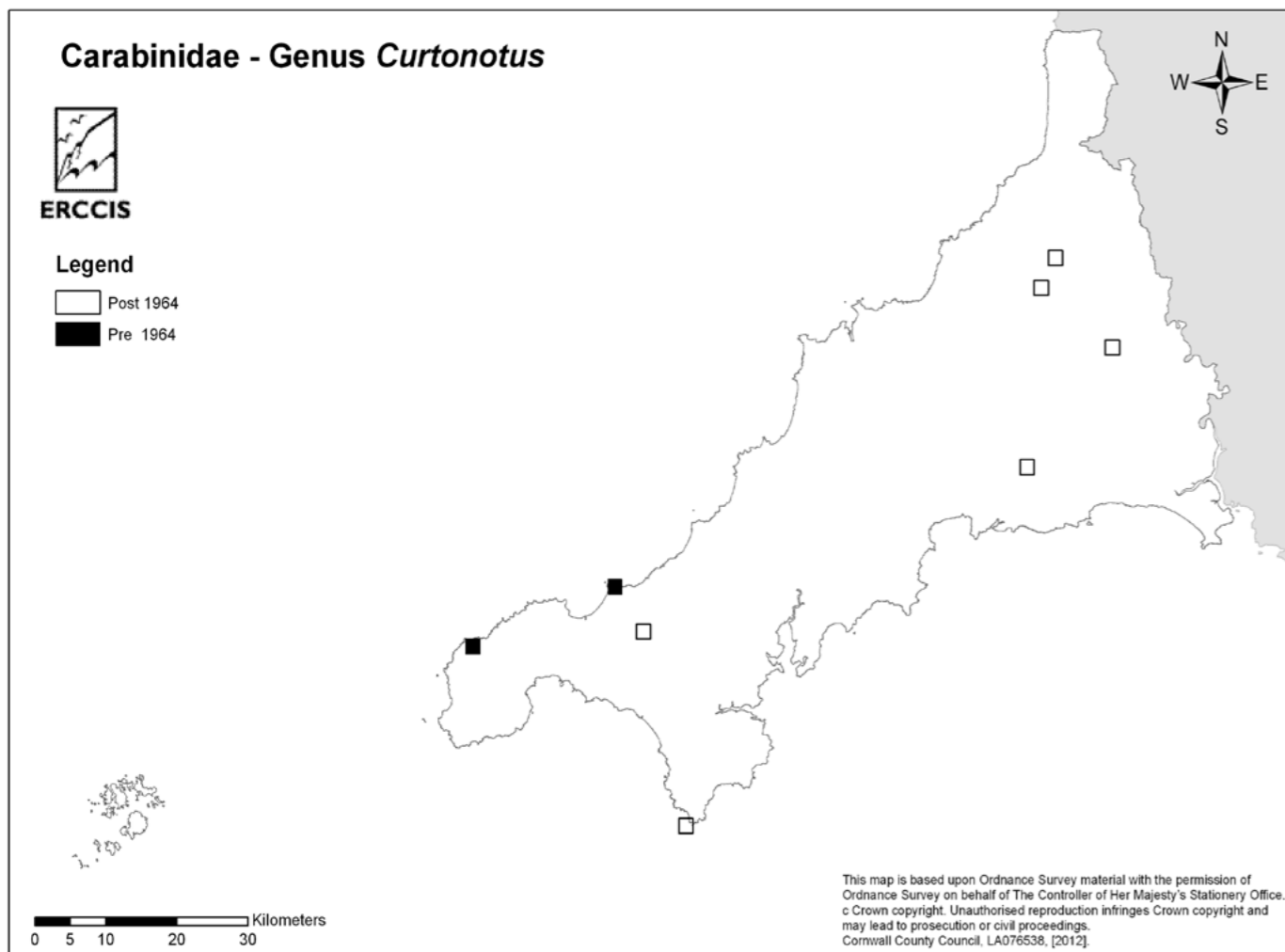
constructed gravel substrates such as old railway tracks and spoil heaps. Not known to Clark (1906).  
 SV91 Isles of Scilly, 1932, CW Dale.

*Amara (Bradytus) apricaria* (Paykull)  
**County Scarce**. Associated with weedy vegetation on disturbed dry sandy ground; a primary succession species; most frequent in eastern Britain. Cornwall & Scilly (Clark, 1906).  
 SV91 St Mary's, vii.1897, GCC (Champion, 1897).  
 SW32 Sennen district, J Isabell (1890).  
 SW53 Angarrack, 1991, ECMH.  
 SW54 Gwithian, 1981, APF.  
 SW62 Loe Bar, 20.vii.2008, PAG.  
 SW64 Carvannel Downs, Portreath, 17.viii.2007; Chapel Porth, 24.viii.2007, KNAA.  
 SW76 Porth Joke, 1954, ML Luff. West Pentire Farm, Cubert, 9.vii.1979, KNAA; 3.vii.1997, MGT; 31.viii.2006, KNAA.  
 SW83 Killigerran Head, Gerrans, 3.vii.1979, KNAA.

*Amara (Bradytus) consularis* (Duftschmid)  
**Nationally Scarce & County Rare**. In open, often humus-rich sandy or gravelly soils; mainly eastern in GB. Clark (1906).  
 SW42 Penzance, viii.1947, RTB.  
 SW64 Penlu, Tucking Mill, 25.vi.1944, HC Fountain.

*Amara (Bradytus) fulva* (Muller, O.F.)  
**Nationally Scarce & County Rare**. Open dry sandy or gravelly situations. Cornwall (Clark, 1906).  
 SW54 Gwithian, vi.1934, RTB; reedbed inland of road, vi.1981, APF.

*Amara (Percosia) equestris* (Duftschmid)  
**Nationally Scarce & County Scarce**. On light, freely-draining soils, amongst grassy vegetation or amongst vegetable debris. *A.patricia* Duft. (Clark, 1906).  
 SV91 St Mary's, 1931, KGB; Peninnis Head, St Mary's, 1967, CMJ.  
 SW32 St Levan, vi.1946, RTB.  
 SW61 Clahar Bridge, vii.1980; Lizard, 1980, DAS.  
 SW71 Lizard NNR, 1980 & 1981, DAS.  
 SW86 Newquay, 2 in a tiny brackish marsh by the Gannel (Clark, 1906).  
 SX46 Banks of River Tamar, iii.1934, RTB.



## Curtonotus

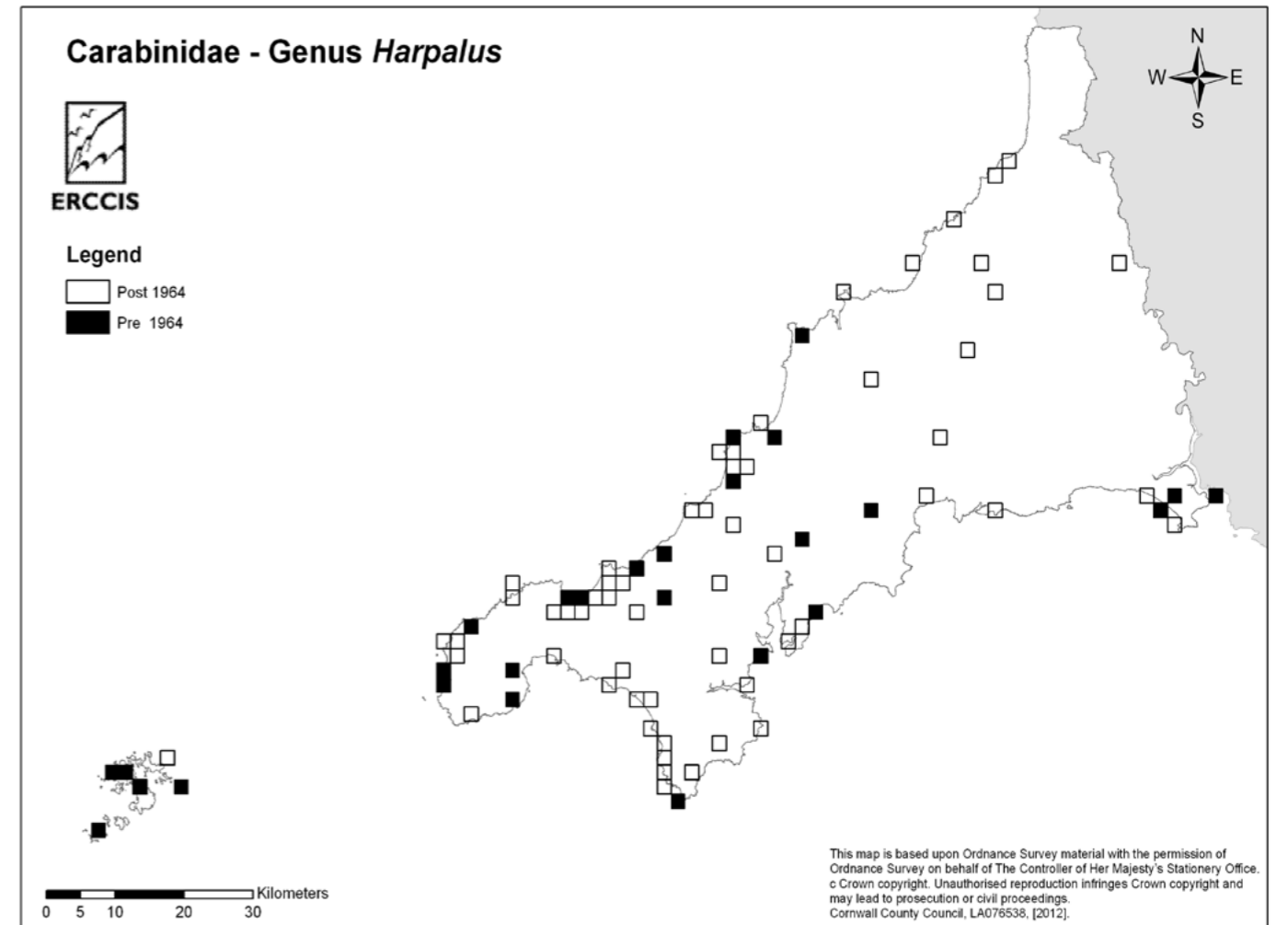
### *Curtonotus aulicus* (Panzer)

In dry well vegetated places, where the adults climb the plants at night to feed on the seed heads. Widespread in Britain, but commoner in east. *A. spinipes* auct. Cornwall (Clark, 1906). Fairly widespread in county.

### *Curtonotus convexiusculus* (Marsham)

**County Rare.** Mainly a sea shore species, living in sparsely-vegetated areas with *Atriplex* and *Chenopodium*, even amongst seaweed on the high water strand. Also known very locally inland on dry open sites. Mainly an eastern species in England. Cornwall (Clark, 1906).

SS21 Marsland Mouth, 1982, JH Flint.



## Harpalus

### *Harpalus (Pseudophonus) rufipes* (Degeer)

Ubiquitous in open farmland and waste places; favoured by early successional vegetation following disturbances such as ploughing. "*H. ruficornis* Cornwall & Scilly" (Clark, 1906).

### *Harpalus (Harpalus) affinis* (Schrank)

Very common in all kinds of open dry country. "*H. aeneus*" Cornwall & Scilly (Clark, 1906).

### *Harpalus anxius* (Duftschmid)

**County Rare.** Coastal sand dunes. Cornwall (Clark, 1906) but very few records and all old.

SV91 St Mary's, Scilly, new to list, July 1911, KG Blair (1912).

SW53 Hayle, viii.1932, RTB.

SW75 Perranporth, v.1968, RTB.

### *Harpalus attenuatus* (Stephens)

A southern species of coastal dunes and dry sandy places inland. *H. consentaneus* (Clark, 1906); fairly widespread in county.

### *Harpalus (Harpalus) honestus* (Duftschmid)

**Red Data Book (Endangered) & Locally Extinct.** Grasslands on dry free-draining soils. This is the true *Harpalus ignavus* (Duftschmid) but old records are perhaps more likely to refer to *H. rufitarsis* than this species? Extinct across the SW where not seen since 1905.

SV91 Scilly, *H. honestus*, Tomlin (1912).

SW83 Gerrans Bay, vi.1897, GC Champion (Luff, 1998).

SX45 Whitsand Bay, east end, *H. ignotus*, vi.1897, GC Champion; *H. honestus*, Clark (1906).

SS20 Bude, *H. honestus*, Clark (1906).

### *Harpalus (Harpalus) latus* (Linnaeus)

On all kinds of open ground on freely-draining soils. Cornwall & Scilly (Clark, 1906). Widespread in county.

*Harpalus neglectus* (Serville)

**County Rare.** Coastal sand dunes; most widespread in Wales and northwest England.

SW83 Swanpool, one running over edge of quarry debris (Clark, 1906).

*Harpalus (Harpalus) rubripes* (Duftschmid)

An early successional species favouring sparsely-vegetated weedy situations on freely-draining soils.

Fairly widespread in county.

*Harpalus (Harpalus) rufipalpis* (Sturm) syn. *H. rufitarsis* (Duftschmid)

On sandy soils, on heaths, dunes and in sand pits. Southern Britain. Previously incorrectly referred to as *H. ignavus* Duft. in Britain, as in Clark (1906). Fairly widespread in county.

*Harpalus (Harpalus) serripes* (Quensel)

**Nationally Scarce & County Rare.** On dunes, in shingle, on sea walls and cliffs.

SW32 Carn Polptry, Land's End, 20.iv.1984, KNAA. Boscregan, 22.v.1989, SJG det KNAA.

SW71 Lizard, vi.1919, JH Keys.

SX25 above Liskeard (Clark, 1906).

*Harpalus (Harpalus) servus* (Duftschmid)

**Nationally Scarce & Locally Extinct.** Sand dunes and sandy heaths; modern GB records all from east coast.

SW53 Lelant Towans, 8. vii.1891, on a sandy patch by the path (Clark, 1906).

*Harpalus (Harpalus) tardus* (Panzer)

On dry soils, freely-draining and usually sandy; fields and gardens. Widespread in county.

*Harpalus (Cryptophonus) melancholicus* (Dejean)

**Red Data Book (Endangered).** Coastal sand dunes.

SW32 Whitesand Bay, 19.vi.1897, GC Champion. Sennen Beach, vii.1964, RTB.

SW76 Newquay, near the Fern-pits, 1902 (Clark, 1906).

*Harpalus (Cryptophonus) tenebrosus* (Dejean)

**Nationally Scarce & County Scarce.** On open rather dry, freely-draining soils, usually coastal. Very few inland records nationally, with most records from southern coasts in southwest.

SW52 Rinsey Beach, 16.viii.2007, PAG.

SW61 Angrouse Cliff, 27.vi.1979, KNAA. Holestrow, Kynance Cove, xi.1979 & 3.vi.1982, PJH; 18.iv.1983, IS Carter; 28.v.1990, CCW (ERCCIS).

SW62 Loe Bar, 10.viii.1978, APF.

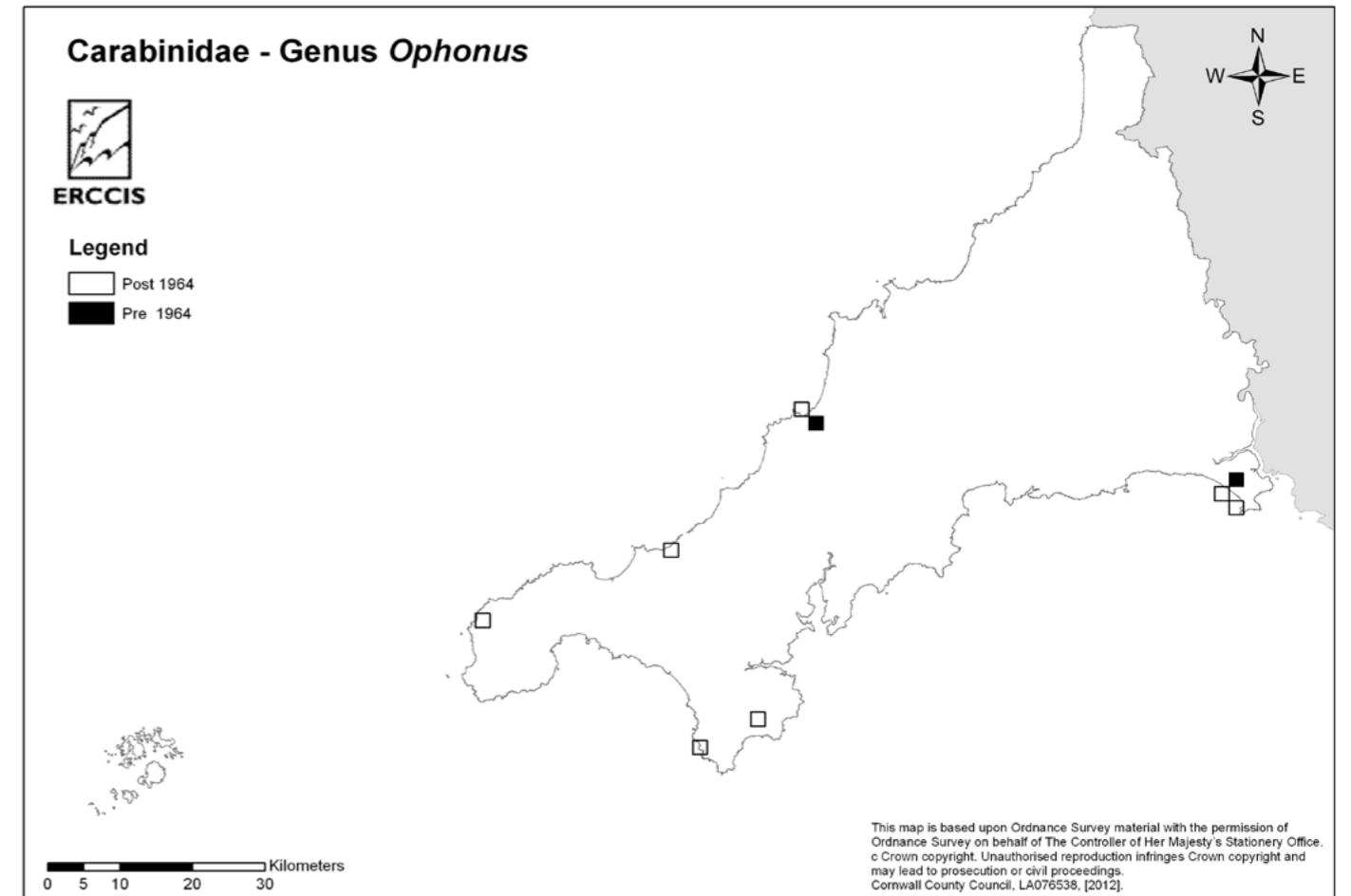
SW71 Lizard, vi.1919, JHK; ix.1975, JA Owen. Kennack Sands, viii.1988, R Nash.

SW82 Godrevy Cove, 27.vii.2007, PAG.

SW83 Gerrans Bay, rarely, June/July, 1897, GCC (Champion, 1897). post 1970 (Luff, 1998). Falmouth Cliff, 9.viii.1988, R Nash.

SX15 Lantic Bay, shore, 8.viii.1979, KNAA.

SX35 Whitsand Bay, common in 1875-76, JJ Walker, but not findable in 1885; frequently recently, Keys (Clark, 1906); 1894, Keys; may still be obtained in spring and autumn, Keys (1918). Batten, one male, iv.1904, Keys (1918). Tregantle, ix.1977, JA Owen.



**Ophonus**

*Ophonus (Ophonus) ardosiacus* (Lutschnik)

**Nationally Scarce & County Scarce.** In open fields on calcareous soils, whether clayey or free draining; often coastal.

SW52 Perran Beach, about 10 under stones all along beach at base of periglacial head cliffs, 12.ix.2007, PAG.

SW64 Carvannel Downs, Portreath, feeding at Daucus flowerhead in dense coastal herb-rich grassland, 17.viii.2007, KNAA.

SW76 Towan Head, Fistral, 1945, CC Townsend (Townsend 1946).

SW82 Lizard Godrevy Cove, 27.vii.2007, PAG.

SW87 Treyarnon, male on cliff-top path, 10.vii.1995, DIB Hoare.

SX05 Par, *Harpalus rotundicollis*, brackish marsh (Clark, 1906).

SX45 Whitsand Bay, 19.vii.1998, P Whitton.

*Ophonus (Ophonus) azureus* (Fabricius)

**Nationally Scarce & County Rare.** In open, quite dry country with short vegetation, mainly in calcareous districts, but also coastal clays. Lost from much of central England.

SX35 Lower Tregantle, once only, Keys (Clark, 1906).

SS21 Steeple Point, 30.v.1998, RS Key.

*Ophonus (Ophonus) sabulicola* (Panzer)

**Red Data Book (Rare).** On dry sandy or chalky soils, usually on coast.

SX25 Looe (Clark, 1906).

*Ophonus (Metophonus) laticollis* Mannerheim syn. *punctatulus* (Duftschmid)

**Nationally Scarce & County Rare.** On dry often slightly shaded ground with some humus and moderate vegetation, usually calcareous soils. Lost from much of central England.

SW33 Botallack, 14.viii.2002, GM Collins.

SW87 Newquay, one top of cliffs (Clark, 1906).

*Ophonus (Metophonus) melletii* (Heer)

**Nationally Scarce & County Scarce.** Open ground or grass on calcareous or alluvial soils. Lost from much of its British range. Not known to Clark (1906).

SW42 St Buryan, *Ophonus rectangularis* Th. under stone, viii.1927, RTB.

SW61 Predannack, vi.-vii.1980; The Lizard, 1981, DAS.

SW71 Poltesco, viii.1933, RTB. Lizard NNR, 1980 & 1981, DAS.

SW87 St Merryn, 1925, *Ophonus brevicollis*, under stone, KG Blair (1931)

SX35 Whitsand Bay, 1940, RTB; Tregantle, 1977, JA Owen.

SS20 Bude, 1940, RTB.

*Ophonus (Metophonus) puncticeps* (Stephens)

An early successional species, amongst weeds and open vegetation generally; the larvae feed on the seeds of *Apiaceae*. Not known to Clark (1906); fairly widespread in county.

*Ophonus (Metophonus) puncticollis* (Paykull)

**Red Data Book (Rare) & Locally Extinct.** On dry chalk or gravel soils, occurring in open stony, sparsely-vegetated areas. Cornwall (Clark, 1906).

SW87 Newquay, 1880, ED Marquand.

*Ophonus (Metophonus) rufibarbis* (Fabricius)

**County Scarce.** In open or somewhat shaded places with humus-mixed clay soil, often in gardens or agricultural land. Appears to favour dense mattresses of ungrazed maritime grassland where rich in sea-carrot – the dense grasses provide humidity and shade.

SV91 St Mary's, 1931, KGB.

SW33 Boscawell Cliff, 21.viii.2002, KNAA.

SW62 Highburrow Tip, Porthleven, quarry waste, 18.vi.1979, KNAA.

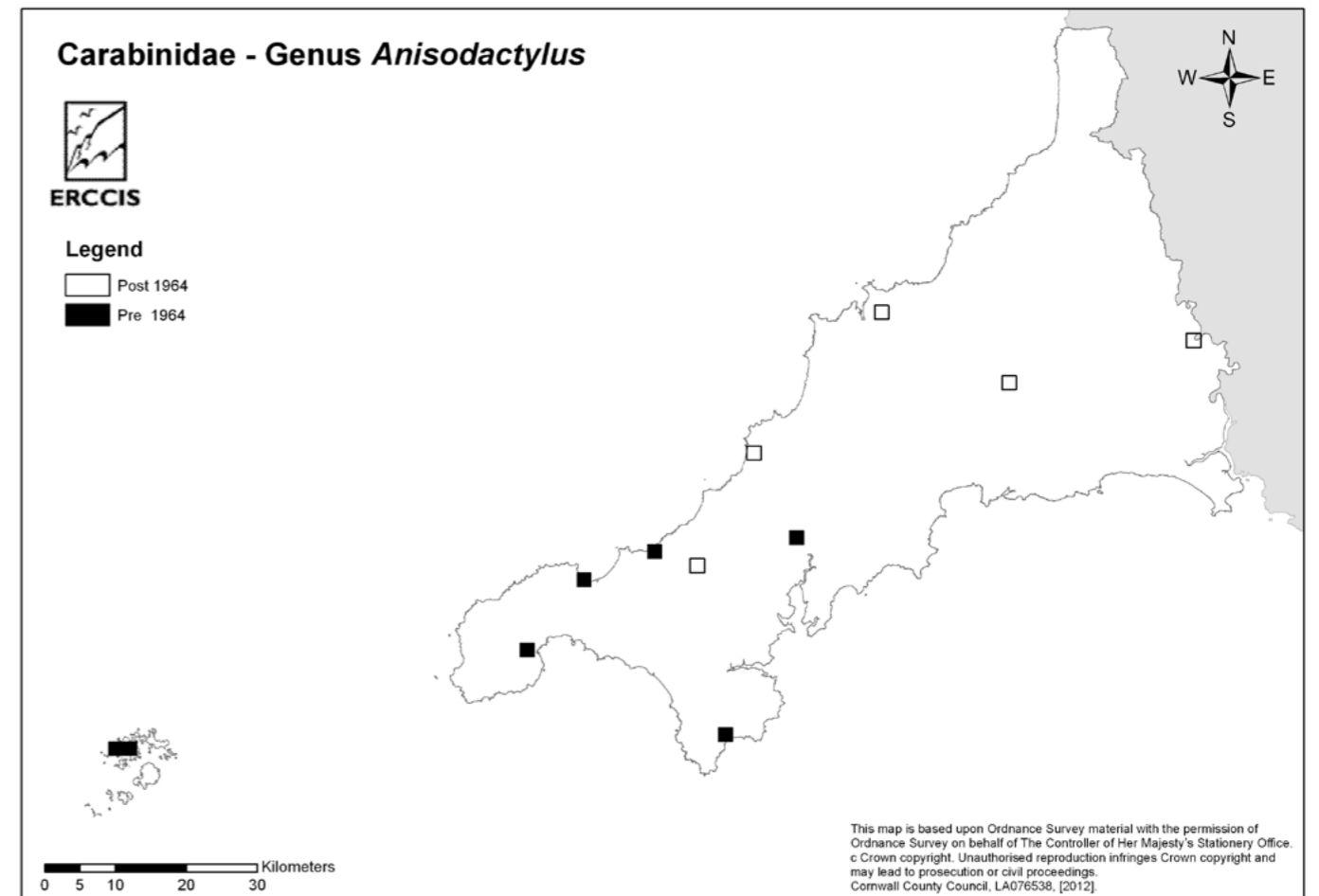
SW64 Carvannel Downs, Portreath, one on path through dense maritime grassland, Western Hill, Portreath; 1 feeding at *Daucus* flowerhead and another swept from dense maritime grassland, 17.viii.2007, KNAA

SW71 Poltesco, viii.1933, RTB.

SW72 Kestle Wartha, Manaccan, 1 under stone by dense grasses of roadside verge, 25.vi.1979, KNAA.

SX08 Glebe Cliff, Tintagel, 18.viii.1978, APF.

SX26 Liskeard (Clark, 1906).



### Anisodactylus

*Anisodactylus binotatus* (Fabricius)

*County Scarce.* In damp open habitats, including clayish arable, grassland near water, and some marshes. *A. binotatus* var. *spurcaticornis* Dej. (Clark, 1906). Fairly widespread in the county.

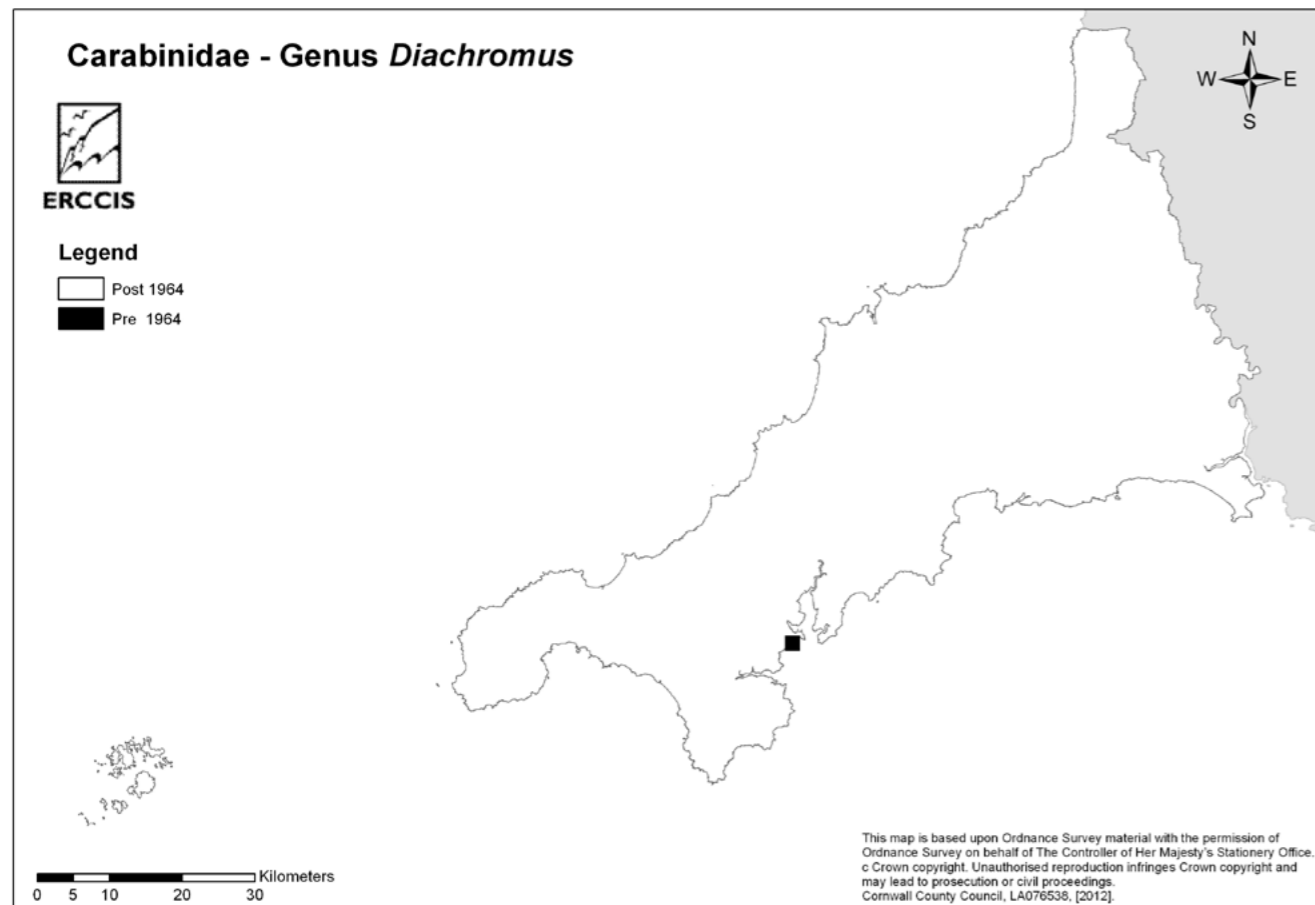
*Anisodactylus nemorivagus* (Duftschmid)

*Nationally Scarce & Locally Extinct.* Restricted to sandy heaths. Not recognised as occurring in Cornwall in Luff (1998). *A. binotatus* var. *atricornis* Steph. (Clark, 1906).

SW32 Land's End, J. Isabell (1890).

*Anisodactylus poeciloides* (Stephens)

*Red Data Book (Rare).* In coastal saltmarshes on south and east coasts of England. Cornwall (Clark, 1906) and included in Moore (1957) although no records in Luff (1998).

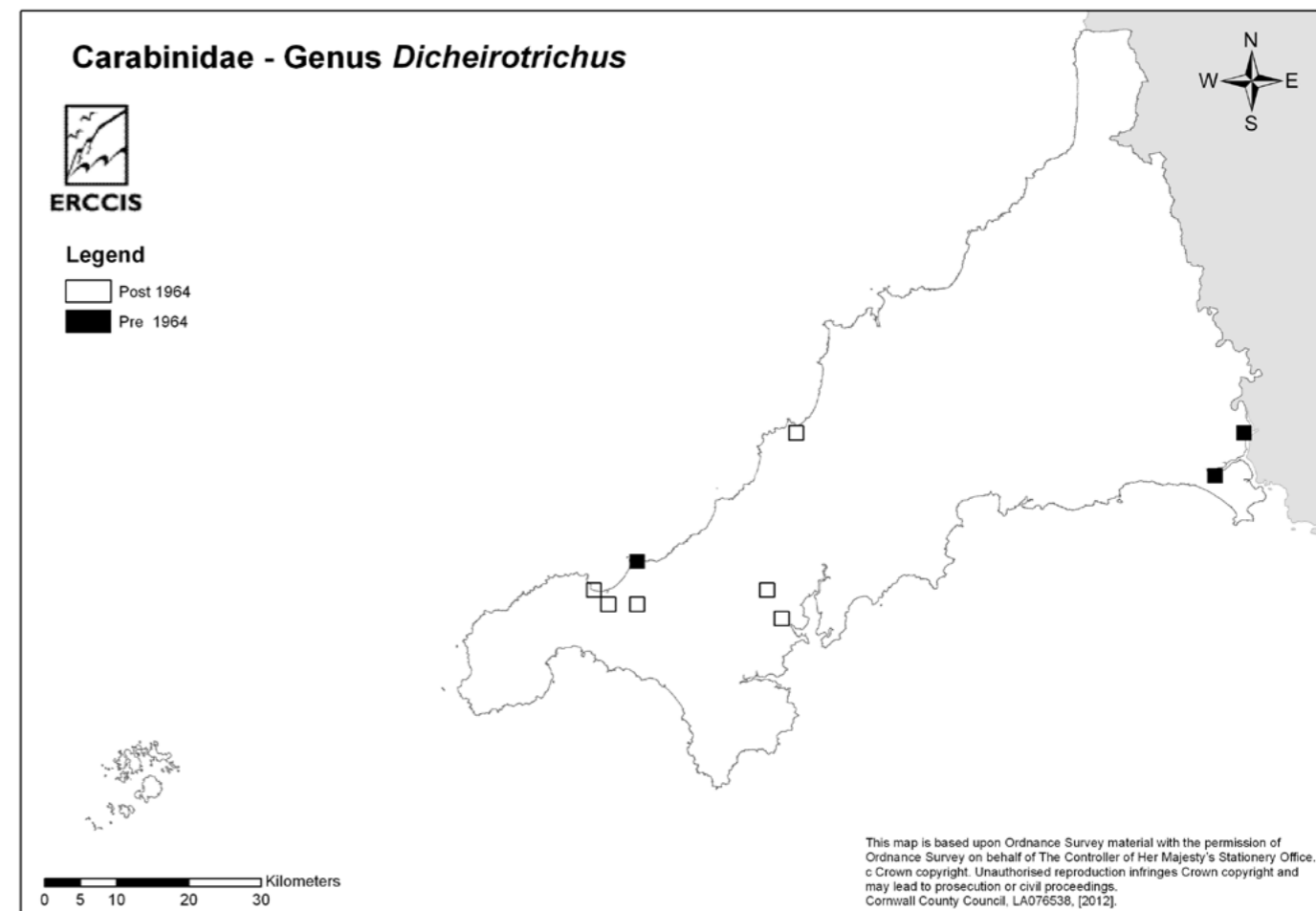


**Diachromus**

*Diachromus germanus* (Linnaeus)

*Casual introduction.* The only 20th C British record.

SW83 Falmouth Station, on pathway, vi.1904 (Clark, 1906)



**Dicheirotrichus**

*Dicheirotrichus gustavi* (Crotch)

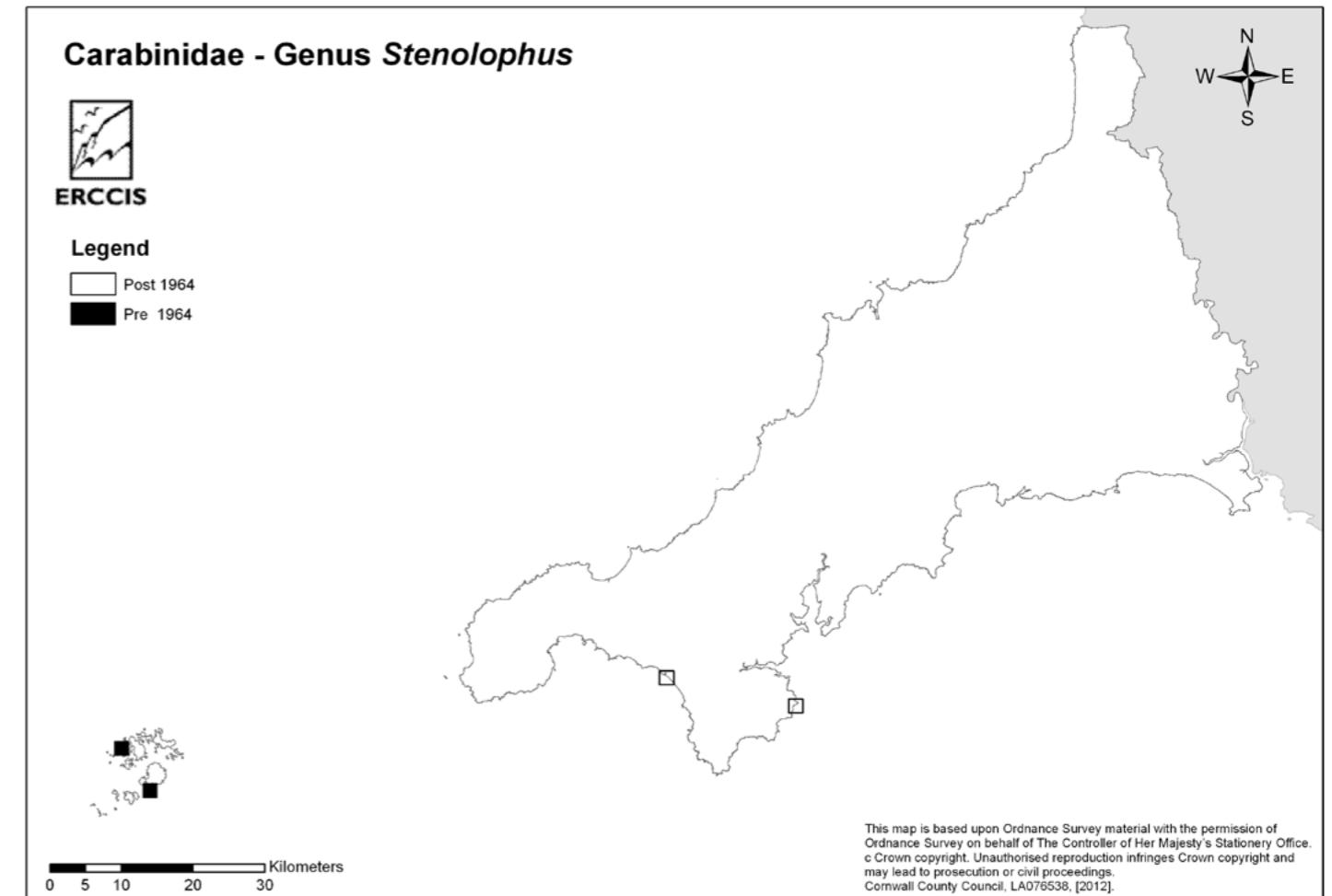
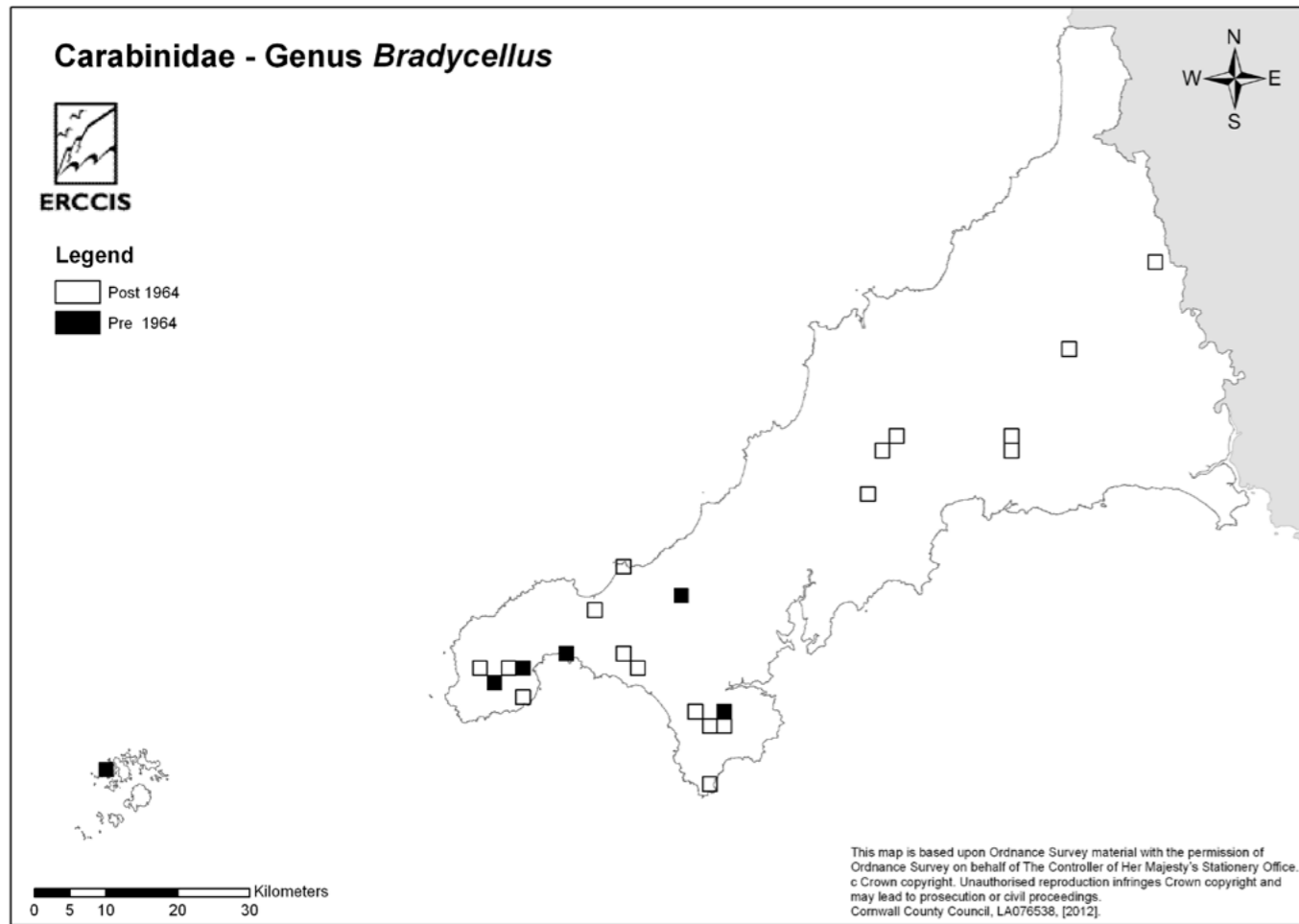
Widespread in saltmarshes. *D. pubescens* Payk. Cornwall (Clark, 1906).

*Dicheirotrichus obsoletus* ((Dejean))

*Nationally Scarce & County Rare.* Saltmarshes. Cornwall (Clark, 1906).

SW73 Perranworthal, River Kennal, 2.vi.1990, CCW (ERCCIS).

SX46 Cargreen, three in rejectamenta on the shore, x.1912, Keys (1918).



## Bradycellus

### *Bradycellus distinctus* (Dejean)

*Nationally Scarce & County Rare.* Sandy coastal situations in south-east England. Old records may refer to *B. sharpi* which was distinguished from *B. distinctus* only relatively recently. Cornwall (Clark, 1906).

SW42 Paul, vii.1924, RTB.

### *Bradycellus harpalinus* (Serville)

A common species, in open country, usually on sandy or peaty soils, heaths and grasslands. Cornwall (Clark, 1906)

### *Bradycellus ruficollis* (Stephens)

Under heather on sand, gravel or peat. *B. similis* Cornwall (Clark, 1906). Widespread in the county.

### *Bradycellus sharpi* Joy

*County Scarce.* Amongst leaves and moss in damp shady situations, usually on sandy soils; rank tussocky grassland and woodland. Not known to Clark (1906).

SW42 Mousehole, moss on rocks in Lamorna river, 19.xi.1994, IM.

SW53 Marazion Marsh, i.1934, RTB.

SW64 Penlu, Tucking Mill, x.1943, HC Fountain.

SW95 Goss & Tregoss Moors, 28.vi.2007, DCB.

SW96 Goss & Tregoss Moors, 18.vii. & 21.viii.2007, DCB.

SX26 Herodsfoot, Deerpark Wood, iv.1987, N Onslow.

### *Bradycellus verbasci* (Duftschmid)

In open situations on sandy or gravelly soils, especially cultivated land. Cornwall (Clark, 1906). Widespread in county.

## Stenolophus

### *Stenolophus mixtus* (Herbst)

*County Rare.* In moist situations such as winter-flooded woodland, marshes or watersides, usually on clay; mainly south-eastern in GB. In Cornwall only known from Isles of Scilly. Not known to Clark (1906).

SV81 Tresco, iv.1908, NHJ.

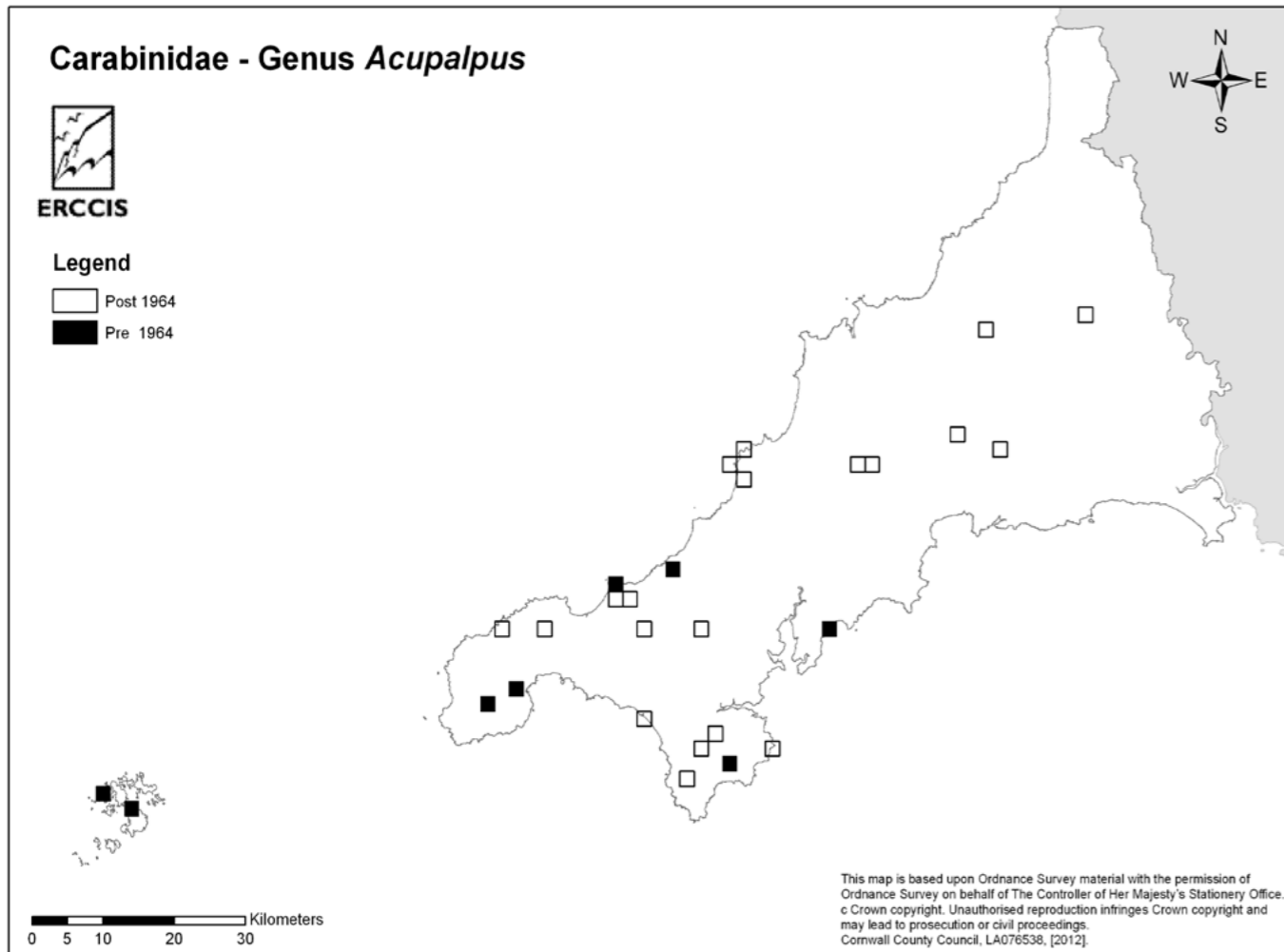
SV91 Great Pool & Higher Moors, St Mary's, 1967, CMJ.

### *Stenolophus skrimshiranus* (Stephens)

**Nationally Scarce & County Rare.** In fens, marshes and well-vegetated lakesides across south-eastern England.

SW43 Penzance (Clark, 1906).

SW83 Pencalenick, at roots of grass (Clark, 1906).



### Acupalpus

#### *Acupalpus dubius* (Schilsky)

In moist shady places, especially among leaves and moss in marshes and by woodland ponds. Not known to Clark (1906) but now known to be widespread in the county.

#### *Acupalpus exiguus* (Dejean)

**Nationally Scarce & County Rare.** In shady marshy situations, usually on clay soils; amongst leaf litter and also in strandline debris and saltmarshes.

SV81 Tresco, iv.1908, NHJ.

SV91 St Mary's, 1931, KGB.

SW42 St Buryan, iv.1958, RTB.

SW53 Marazion, v.1973, RTB.

SW83 Portscatho (Clark, 1906).

SW97 Wadebridge (Clark, 1906).

SX35 Whitsand Bay, under stones on grass (Clark, 1906).

#### *Acupalpus flavicollis* (Sturm)

**Nationally Scarce & County Rare.** On river banks and in gravel pits in fine silt-covered sand with sparse vegetation and some mosses; also in bogs. Lost from much of its central England range.

SV81 Tresco, 1931, KGB. Hell Bay, Bryher, small pool, viii.1988, D Hackett.

SV91 St Mary's, 1931, KGB.

SW42 Paul, iii.1923, RTB.

SW54 Godrevy & Gwithian Towans, 1945, CC Townsend.

SW64 Portreath, 1945, CC Townsend.

SW71 Croft Pascoe Pool, 1962, WFH Ansell.

SW83 Portscatho (Clark, 1906)

SX45 Whitsand Bay (Clark, 1906)

#### *Acupalpus meridianus* (Linnaeus)

**County Scarce.** In open country, often cultivated, on clayish or peaty soils. Cornwall (Clark, 1906).

SW43 Bakers Pit, 13.ix.2005, CFH.

SW61 Lizard, 1931, KG Blair.

SW63 Coswinsawsin Farm, 2004, Peter Mycock (ERCCIS).

SW72 St Anthony in Meneage, vi.1969, RTB.

SW84 Truro, vi.1932, RTB.

SX45 Plymouth area, v.1954, via ML Luff.

#### *Acupalpus parvulus* (Sturm) syn. *A. dorsalis* (Fabricius)

**County Scarce.** In exposed but damp lowland situations, on acid peaty soils, usually with abundant vegetation nearby. Not known to Clark (1906).

SV81 Tresco, 1931, KGB.

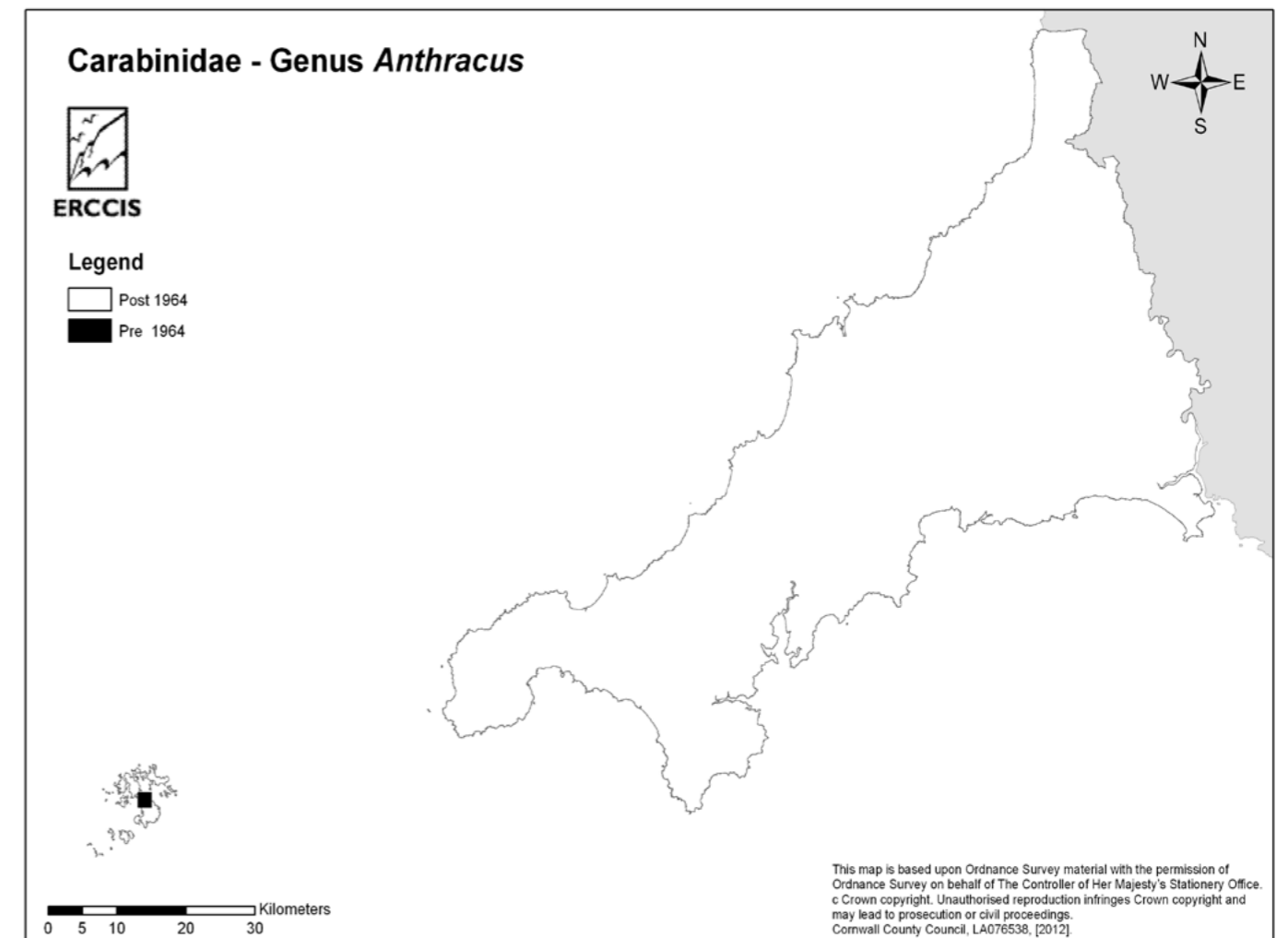
SV91 Pelistry Bay, St Mary's, 1967, CMJ.

SW42 Paul, marsh, iii.1923, RTB (1968)

SW62 Penrose Carr, 14.v.1996, APF.

SW71 Gwendreath Valley, Kennack, 18.iv.1998, KNAA.

SW75 Holywell Dunes, sandy streamside, 10.vii.1979, KNAA.



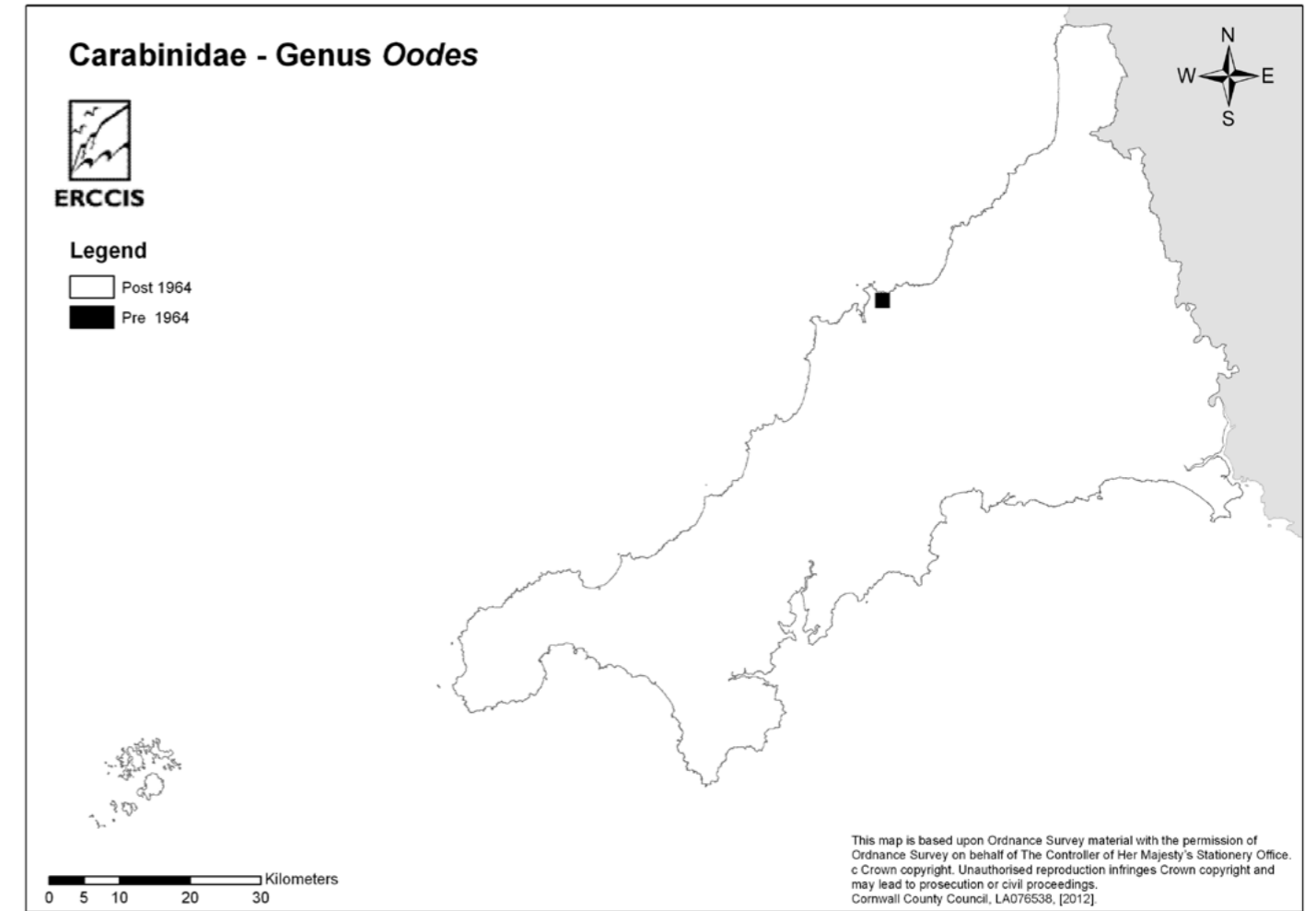
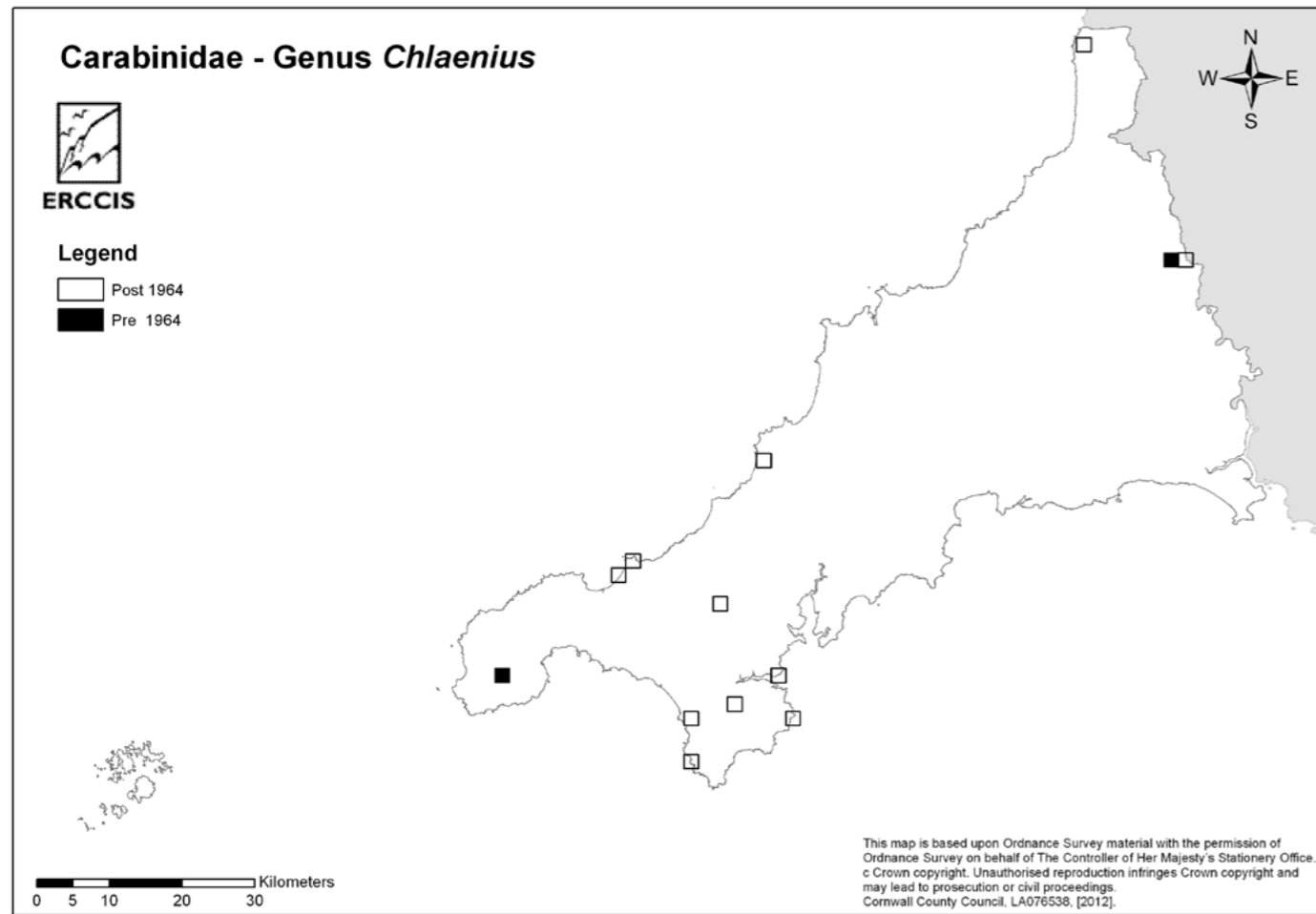
### Anthracus

#### *Anthracus consputus* (Duftschmid)

**Nationally Scarce & County Rare.** In shaded situations on the edge of standing, usually stagnant, water, especially where seasonal; also on coast in debris.

SV81 Great Pool, Tresco, 1967 & 1969, CMJ.

SW32 Land's End district, pools (Clark, 1906).



**Chlaenius**

*Chlaenius nigricornis* (Fabricius)

**Nationally Scarce & County Scarce.** In marshes, wet grassland, moorland, mires and in coastal debris. Lands End area, ED Marquand (1881); Cornwall (Clark, 1906).

- SW32 Lands End, 1880, Marquand.
- SW54 Gwithian, reedbed inland of road, vi.1981, APF.
- SW61 Kynance Cove, v.1959, RTB. Clahar Bridge, iv.1981; The Lizard, 1981, DAS.
- SW71 Lizard NNR, 1980 & 1981, DAS.
- SW72 Goonhilly Downs, vii.1980 & 1981, DAS; 1981, N Onslow.
- SW73 Stithians Reservoir, 29.vii.2005, CFH.
- SW74 Allet Bog, 9.vii.2010, KNAA.
- SW75 Penhale Dunes, 14.vi.1978, PC Tinning.
- SX38 Launceston, TV Wollaston (1843).
- SS21 Welcombe & Marsland Reserve, 5.vi.1988, RSK.

*Chlaenius vestitus* (Paykull)

**County Scarce.** On clay or mud at the edges of ponds, lakes and river.

- SW42 St Buryan, xi.1926, RTB.
- SW72 Prisk Cove, Rosemullion, 12.x.2002, JMW; 9.vii.2007, PAG.
- SW87 Trevone, 1922, CE Tottenham.
- SW97 Padstow, 1899, National Museum of Wales coll.
- SX05 Porthpean, vii.1981, ML Denton.
- SX15 Lostwithiel, under damp moss by the side of the Fowey (Clark, 1906).
- SX25 Talland Bay, 24.iv.1984, AS Lazenby.
- SX38 Launceston, 7.ix.2003, IM.
- SX45 Millbrook, several once only in wet ground, Keys (Clark, 1906).

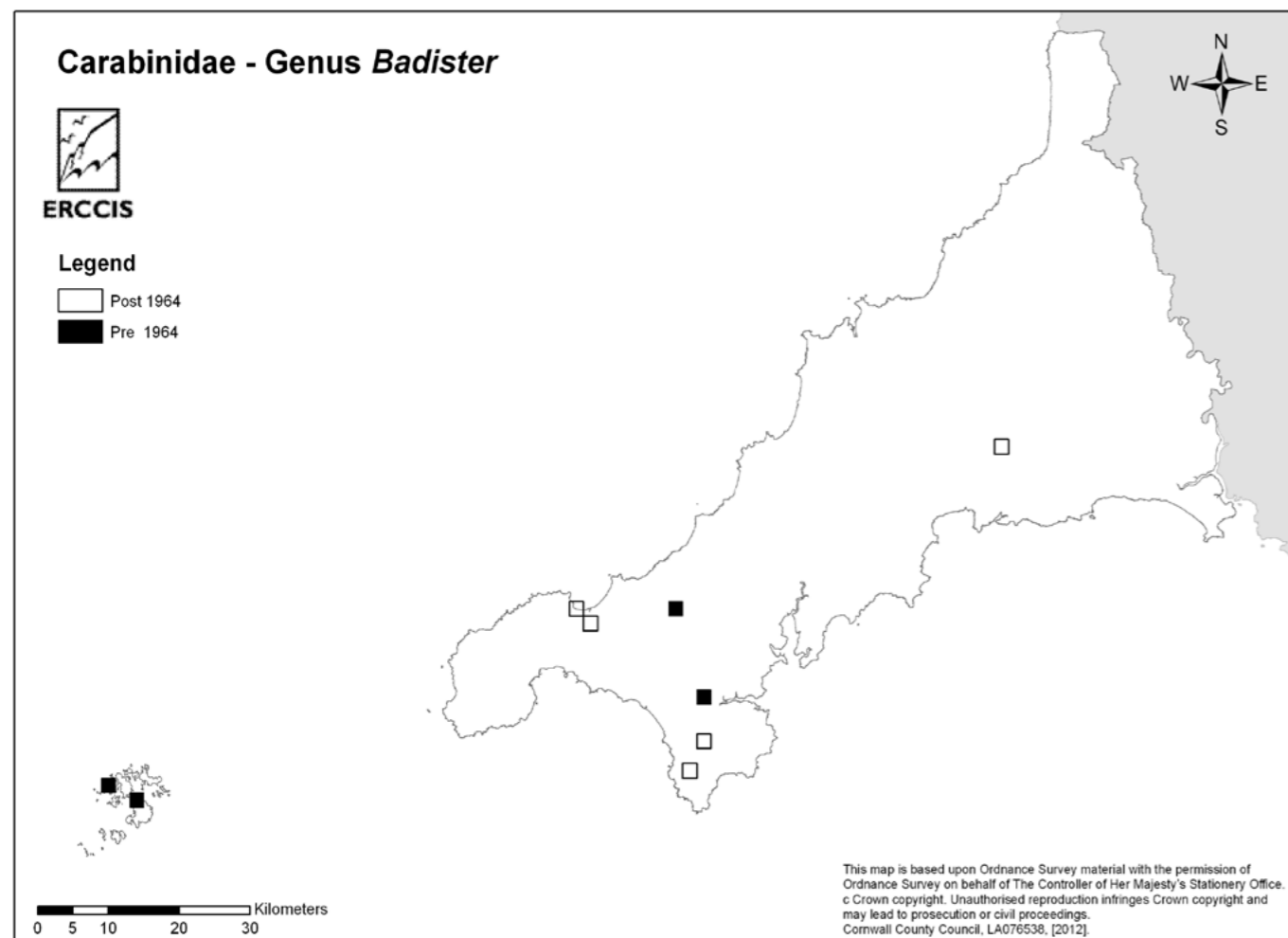
**Oodes**

*Oodes helopioides* (Fabricius)

**Nationally Scarce & County Rare.** A speciality of rich wetland vegetation developed over soft waterlogged soils. Lost from much of central England in last 100 years or more. Not known to Clark (1906).

- SW97 Lundy Bay, 17.vi.1945, B Verdcourt.





**Badister**

*Badister (Badister) bullatus* (Schrank) syn. *bipustulatus* (Fabricius)

Fairly catholic in its habitat requirements, although most frequent on open dry and often sandy soils.

*Badister bipustulatus* (Fabricius)

Cornwall (Clark, 1906). Fairly widespread in county.

*Badister (Badister) unipustulatus* (Bonelli)

**Nationally Scarce & County Rare.** Among leaves and moss in moist shaded situations, such as fens and wet marshy woods. Widespread across the English lowlands. Not known to Clark (1906).

SW64 Portreath Cliffs, 19.iv.1984, APF.

*Badister (Trimorphus) sodalis* (Duftschmid)

**County Scarce.** Among leaves and moss in moist shaded places on clay soils. Cornwall (Clark, 1906).

SV91 Isles of Scilly, 1931, KGB.

SW53 Lelant, 1969, RTB.

SW64 Tucking Mill (old gasworks), v.1943, HC Fountain.

SW72 Gweek, iii.1958, RTB.

SX15 Pont Pill, 2000, GMC & A Spalding.

SX16 Boconnoc Park, 1972, KC Side; 29.x.2002, PAG.

*Badister (Baudia) dilatatus* (Chaudoir)

**Nationally Scarce & County Rare.** On mud or in lush vegetation by standing freshwater. Not known to Clark (1906).

SV81 Tresco, iv.1908, NHJ & vi.1968, R Mack. Hell Bay, Bryher, small pool, viii.1998, D Hackett.

SW71 Goonhilly Downs, 30.v.1982, PJ Hodge.

*Badister (Baudia) peltatus* (Panzer)

**Nationally Scarce & County Rare.** On mud or in lush vegetation by standing freshwater. Not known to Clark (1906).

SV81 Tresco, iv.1908, NHJ.

**Panagaeus**

*Panagaeus bipustulatus* (Fabricius) syn *P. quadripustulatus* (Sturm)

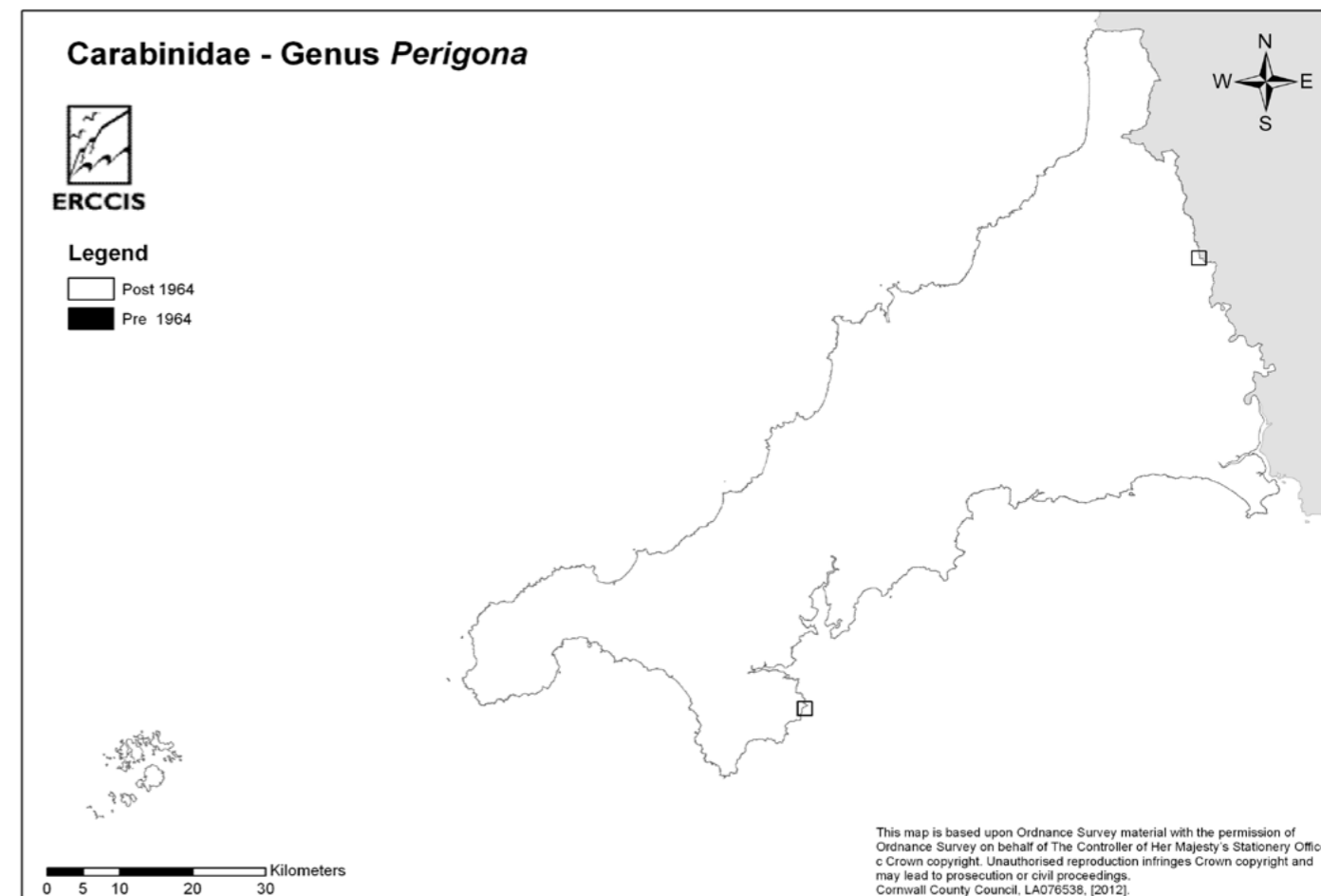
**Nationally Scarce & County Rare.** In open, sparsely-vegetated situations on freely-draining soils, especially calcareous soils.

SV91 Isles of Scilly, 1931, KGB.

SX25 Looe, 1901, H Thomas (Clark, 1906).

SX35 Whitsand Bay, one under stone on the slopes, v.1890, JHK; iv.1907, TH Beare. Tregantle, one, iii.1905, Keys (1918).

SX44 Penlee Point, on pathway, v.1902, EE Lowe (Keys, 1918).

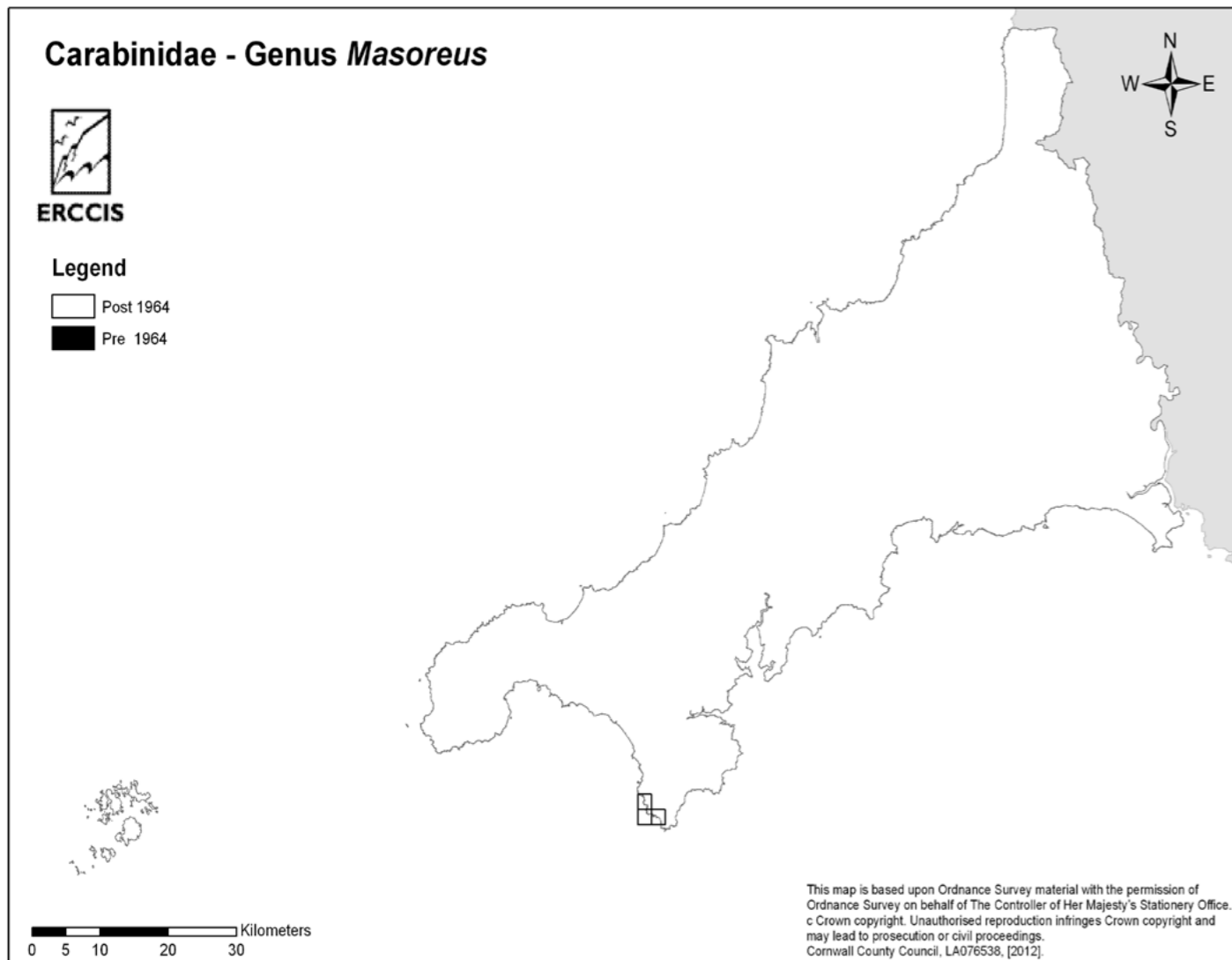


**Perigona**

*Perigona nigriceps* (Dejean)

**Established Introduction.** A cosmopolitan species originating from south Asia, but known in Europe since 1902. Found in compost and vegetable refuse heaps generally.

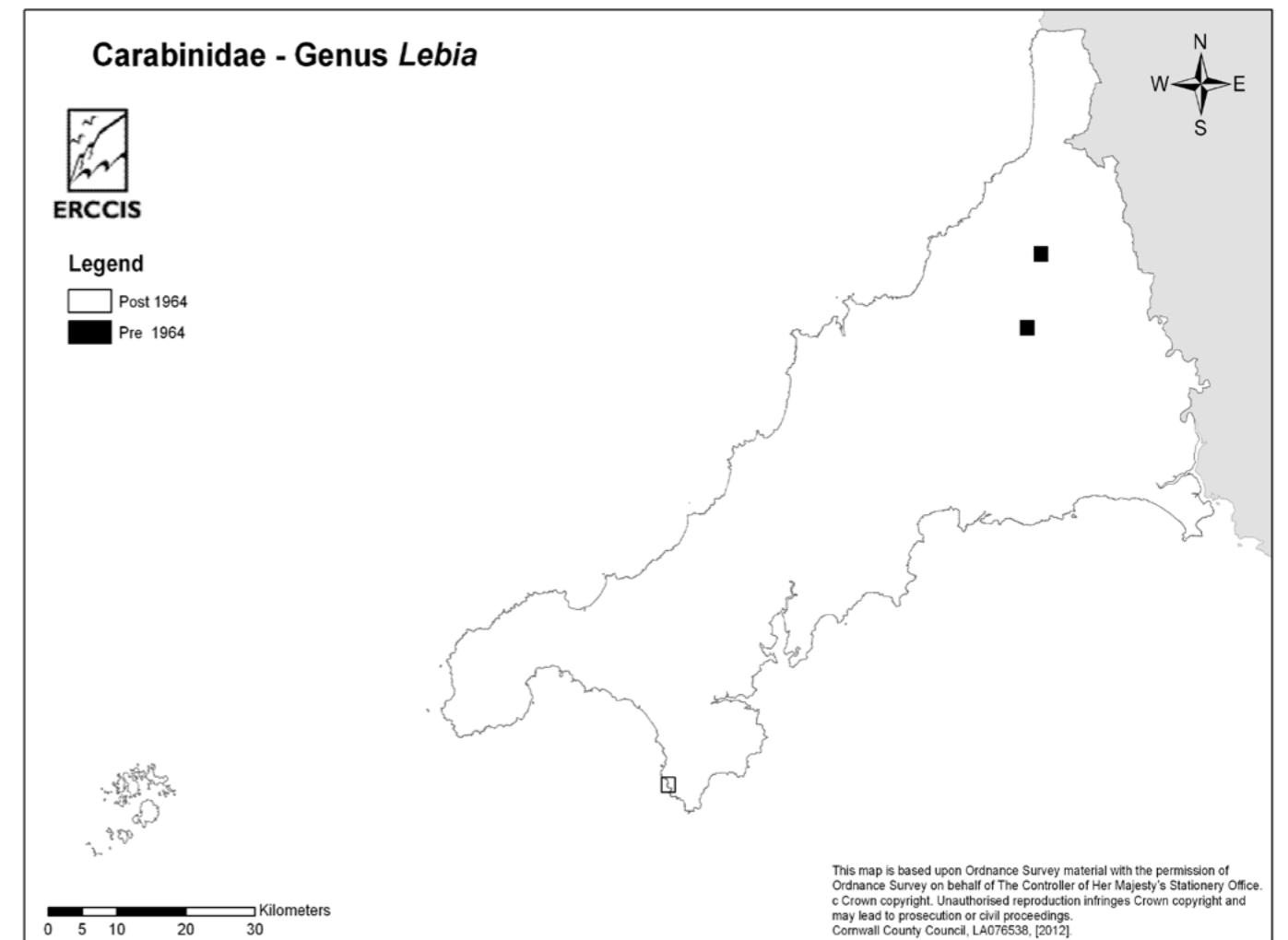
SX38 Ridgegrove Farm, Launceston, on dung heap, 17.viii.2005, IM.



## Masoreus

*Masoreus wetterhalli* (Gyllenhal)

**Nationally Scarce & County Rare.** Sandy or gravelly sites along coast. Not known to Clark (1906).  
 SW32 Whitesand Bay, 1951, AA Allen.  
 SW61 Lizard, vii.1917, N Micklewood; 1920, JHK. Kynance Cove, 21.vi.1979, KNAA; 11.xi.1979, PJH; 28.v.1990, AP Fowles.



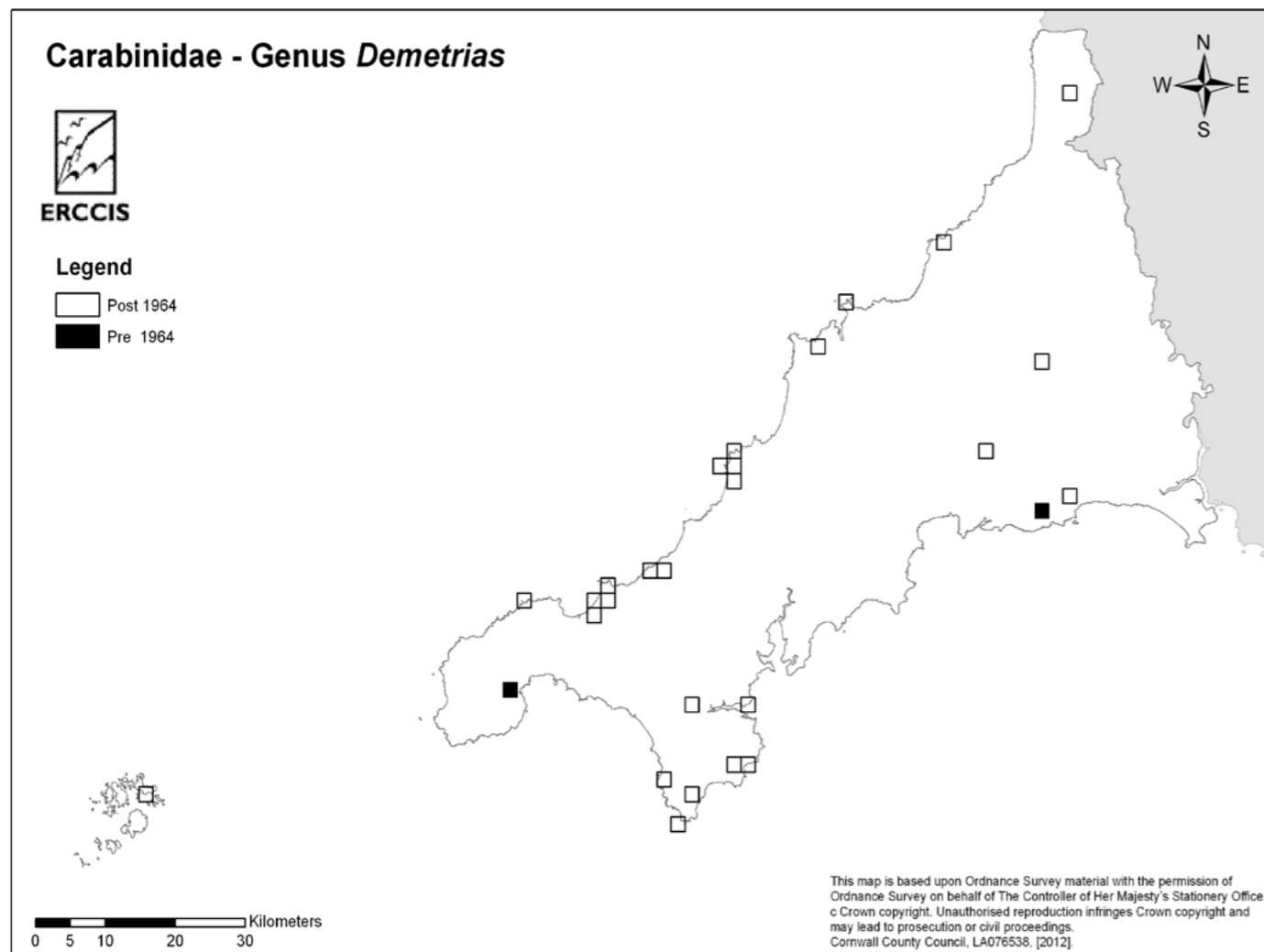
## Lebia

*Lebia (Lamprias) chlorocephala* (Hoffmann, J.)

**Nationally Scarce & County Rare.** Larvae are ectoparasitic on pupae of *Chrysolina* and possibly other Chrysomelid beetles, and the species is found in places where these beetles occur in relatively large numbers, especially rough base-rich grasslands. Cornwall (Clark, 1906).  
 SW61 Kynance, 1951, AA Allen; vi.1968, RTB.

*Lebia (Lebia) cruxminor* (Linnaeus)

**Red Data Book Category 1.** The larva feeds ectoparasitically on the pupae of certain large leaf beetles, probably on *Galeruca tanacetii* which favours devil's-bit scabious; the adults are found in unimproved meadows and rough pastures. Currently only known nationally from Bodmin Moor and North and South Downs.  
 SX17/27 Bodmin Moor, 1972, KC Side.  
 SX28 Treneglos, 11.ix.1844, TV Wollaston (ERICA); (Dawson) (Clark, 1906).



### Demetrias

*Demetrias atricapillus* (Linnaeus)

Amongst tall grasses and herbs, incl. nettlebeds, sedgebeds, etc. Cornwall & Scilly (Clark, 1906).

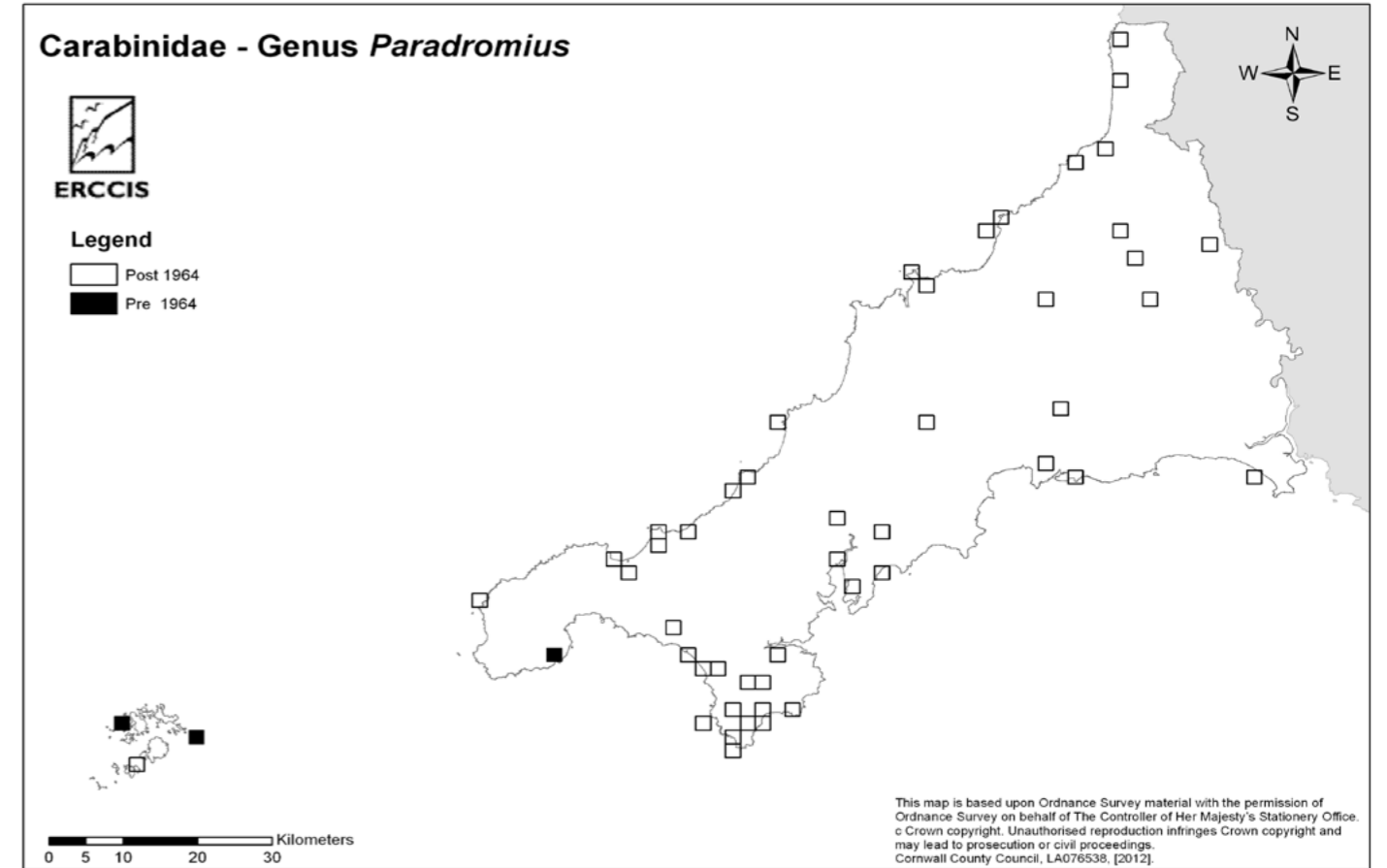
Widespread in county.

*Demetrias monostigma* (Samouelle)

**Nationally Scarce & County Rare.** Amongst plant debris, on dunes and in fens. *D.unipunctatus* Germ. (Clark, 1906).

SW53 Hayle Towans, at the bottom (Clark, 1906).

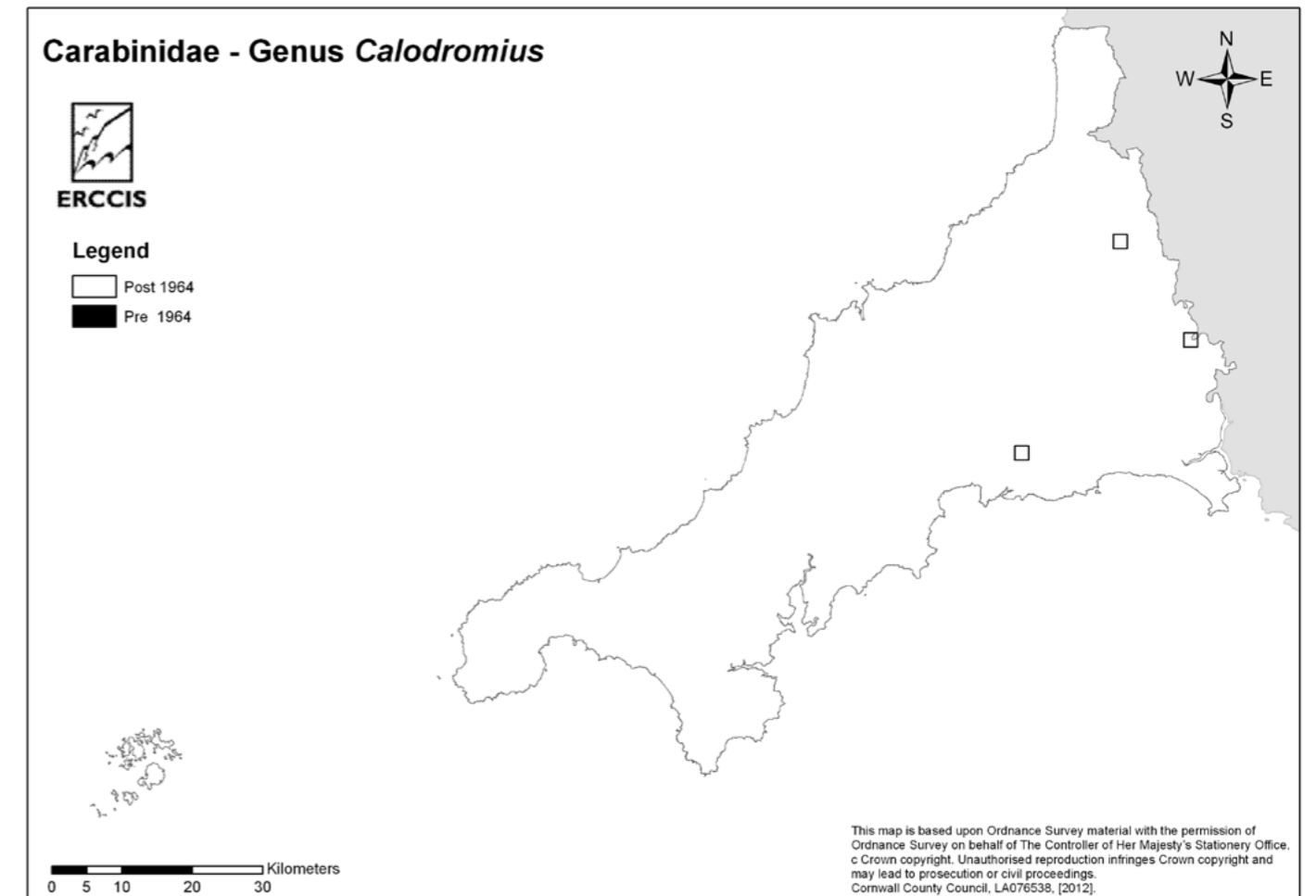
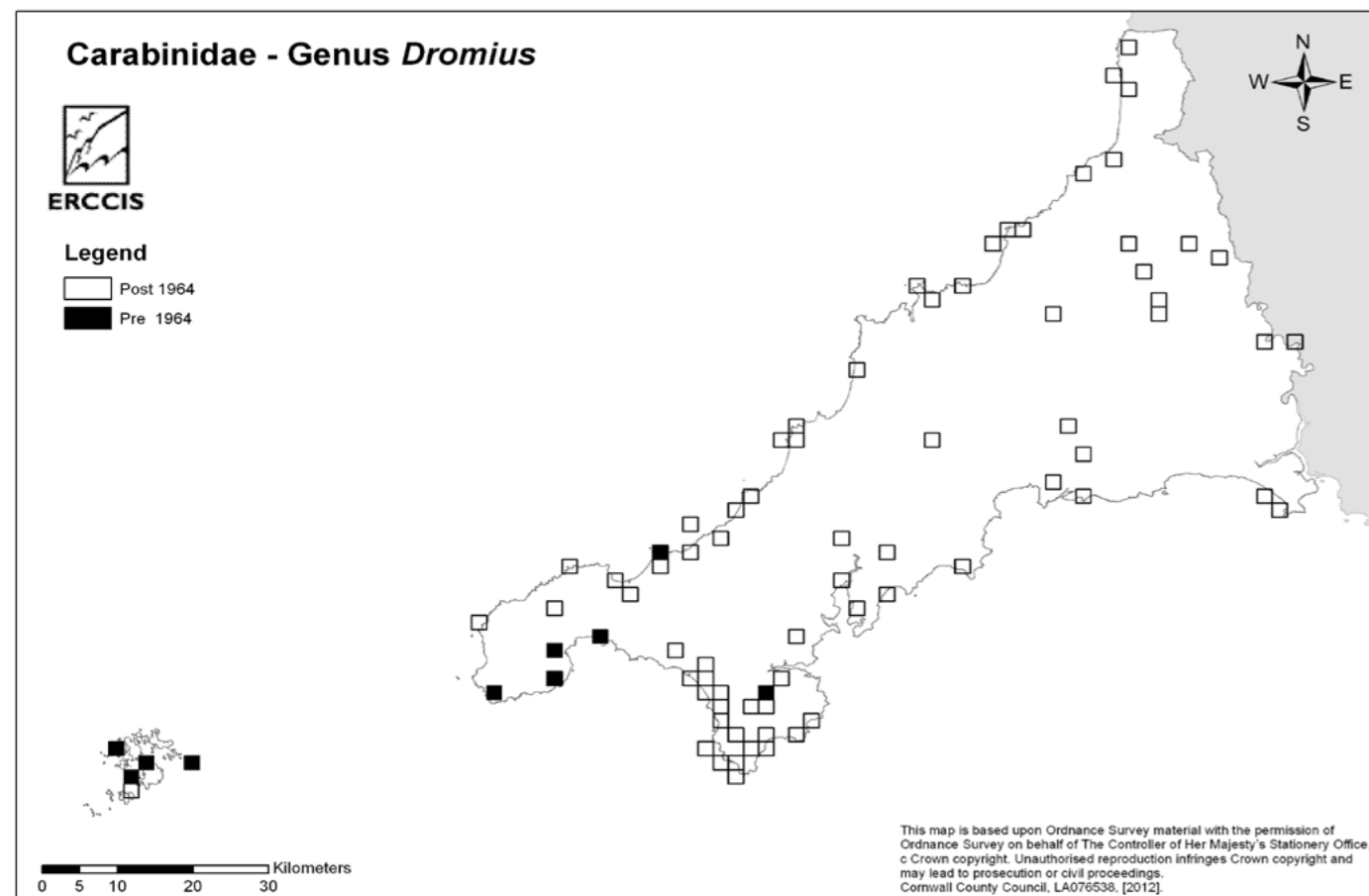
SW64 Portreath, 19.iv.1986, APF.



### Paradromius

*Paradromius linearis* (Olivier)

Amongst the vegetation on dry open, often sandy soils; in dry tussocky grasslands and on coastal dunes; also in gorse scrub. Cornwall (Clark, 1906). Very widespread in the county.



## Dromius

### *Dromius agilis* (Fabricius)

**County Scarce.** On the bark of all kinds of trees. Cornwall (Clark, 1906).

SW62 Helston, v.1945, RTB.

SW72 St Martin, v.1935, RTB.

SW73 Penwarne, 30.xi.2008, PAG.

SS21 Welcombe & Marsland Reserve, 5.vi.1988, RSK.

### *Dromius meridionalis* (Dejean)

**County Scarce.** Mostly on the bark of broadleaved trees. Cornwall (Clark, 1906).

SV81 The Garrison, 1967, CMJ.

SV91 St Mary's, 1965, via ML Luff.

SW54 Gwithian, vii.1934, RTB.

SW61 Lizard Down, 12.vi.1989, JA Owen.

SW62 Loe Valley, 11.ix.2008, PAG.

SW63 Godolphin Gardens, 27.v.2008, KNAA.

SW74 Chapel Coombe, 21.viii.2007, KNAA.

SX06 Cutmadoc Field, Lanhydrock, 29.v.2008, KNAA.

SX17 South Penquite, 15.x.2005, KNAA.

SX38 Launceston, 7.x.2005, IM.

### *Dromius quadrimaculatus* (Linnaeus)

**County Scarce.** Common on the bark of trees, nationally but scarce in the county. Cornwall (Clark, 1906).

SW42 Paul, vi.1934, RTB.

SW43 Newmill, Madron, vi.1969, RTB.

SW61 Windmill Farm, Landewednack, 3.viii.2009, KNAA.

SW62 Loe Valley, 11.ix.2008, PAG.

SW83 Trelissick South Wood, off oak, 14.iii.1993, KNAA.

SX06 Lanhydrock Park, 30.ix.2008, KNAA.

SX47 Clitters Wood, Gunnislake, 29.ix.2004, KNAA.

## Calodromius

### *Calodromius spilotus* (Illiger) syn. *Dromius quadrinotatus* (Zenker)

**County Scarce.** Common on the bark of trees nationally but scarce in county. Cornwall (Clark, 1906).

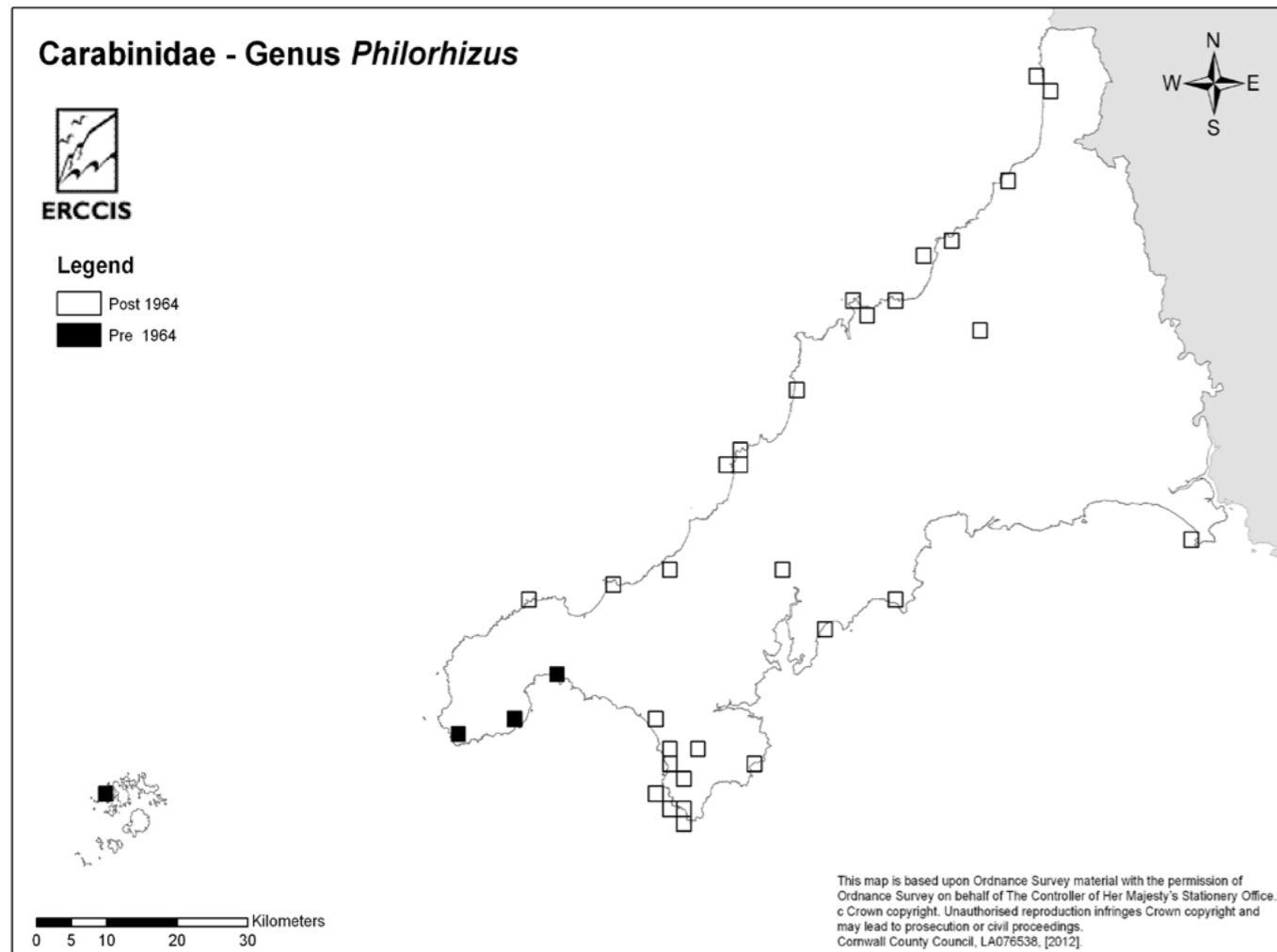
SW83 Trelissick Park, 24.vi.2009, KNAA.

SW84 Namphillows Valley, Trelissick, 24.vi.2009, KNAA.

SW96 St Columb Major, v.1989, W Wuertz.

SX15 Ethy Park, 30.v.2000, KNAA. Trevollard Farm, Lostwithiel, 26.iv.2011, IM.

SX28 Egloskerry, 22.viii.2005, IM.



### Philorhizus

*Philorhizus melanocephalus* (Dejean)

In dry grasslands. Cornwall (Clark, 1906). Widespread in the county.

*Philorhizus notatus* (Stephens) syn *D. nigriventris* Thoms

**County Scarce.** In moderately dense vegetation, on dry sandy or gravelly soils; mostly coastal. Clark (1906).

SV81 Tresco, iv.1908, NHJ.

SV91 St Mary's, 1931, KGB.

SW61 Angrouse Cliff, 27.vi.1979, KNAA. Kynance Cove, 30.v.1982, PJH; 28.v.1990, AP Fowles.

SW75 Perranporth (Clark, 1906).

*Philorhizus quadrisignatus* (Dejean)

**BAP Priority Species; Red Data Book (Endangered).** Lives amongst dead branches and twigs, and has been found under loose bark on broadleaved trees. Very few modern records nationally.

SW32 Porthgwarra, ix.1963, RTB.

SW53 Marazion (Clark, 1906).

*Philorhizus vectensis* (Rye)

**Red Data Book (Rare) & County Scarce.** On partly vegetated dry sand or shingle. Not known to Clark (1906).

SW42 Lamorna, on cliff, vi.1924, RTB (Bannister 1968).

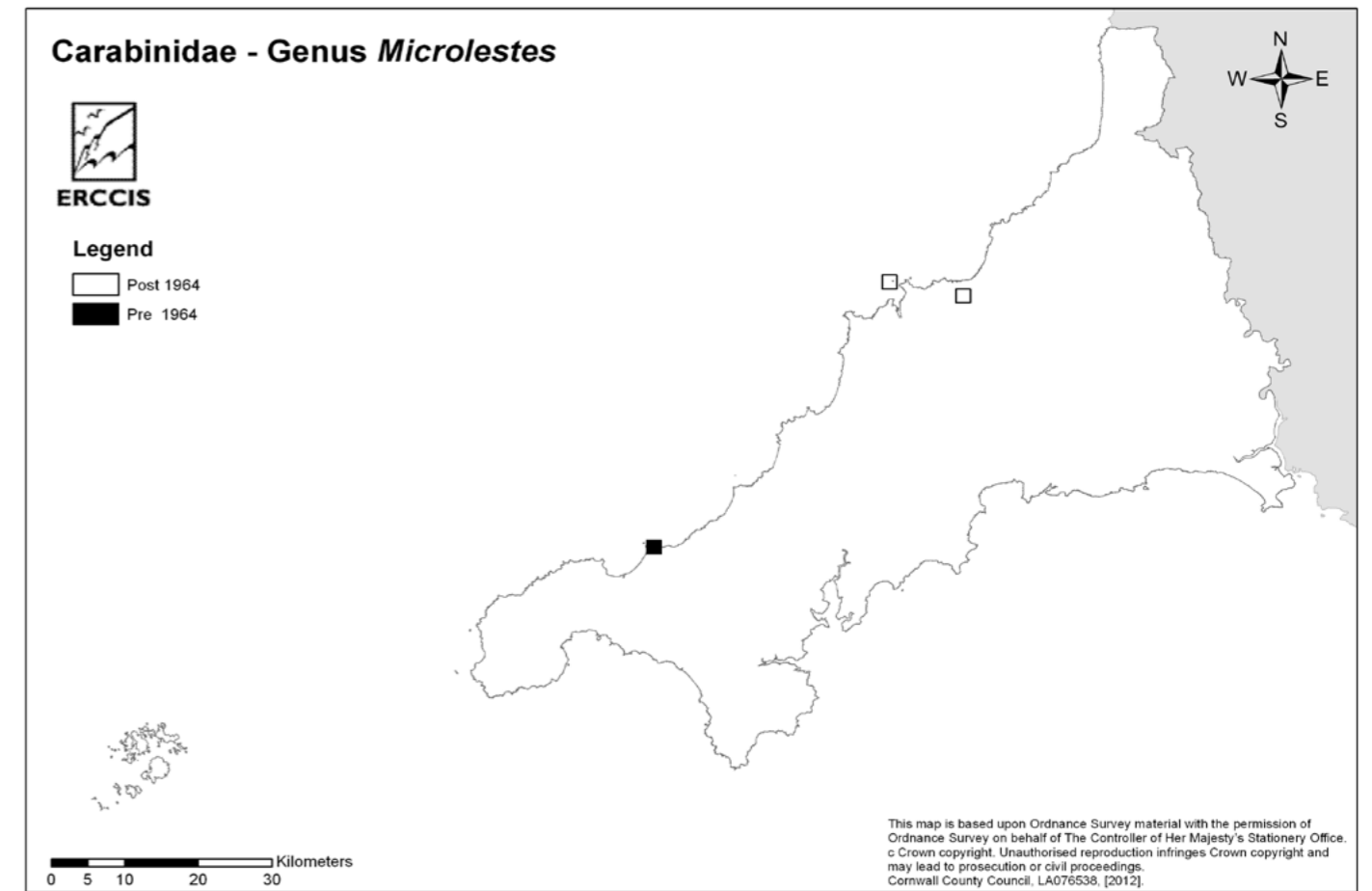
SW62 Porthleven Cliffs, 14.vii.2009, PAG.

SW86 Trerathick Point, a male by grubbing at the base of *Plantago* on a poorly vegetated cliff top, 31.vii.1998, RG Booth (2000); 28.x.2002, JMW. Mawgan Porth, x.2002, JMW.

SX08 Tregardock, 13.iv.1995, AG Duff (Duff & Booth, 2000).

SX44 Rame Head, 12.iv.2008, CR Turner.

SS11 Steeple Point, 25.v.2006, DCB.



### Microlestes

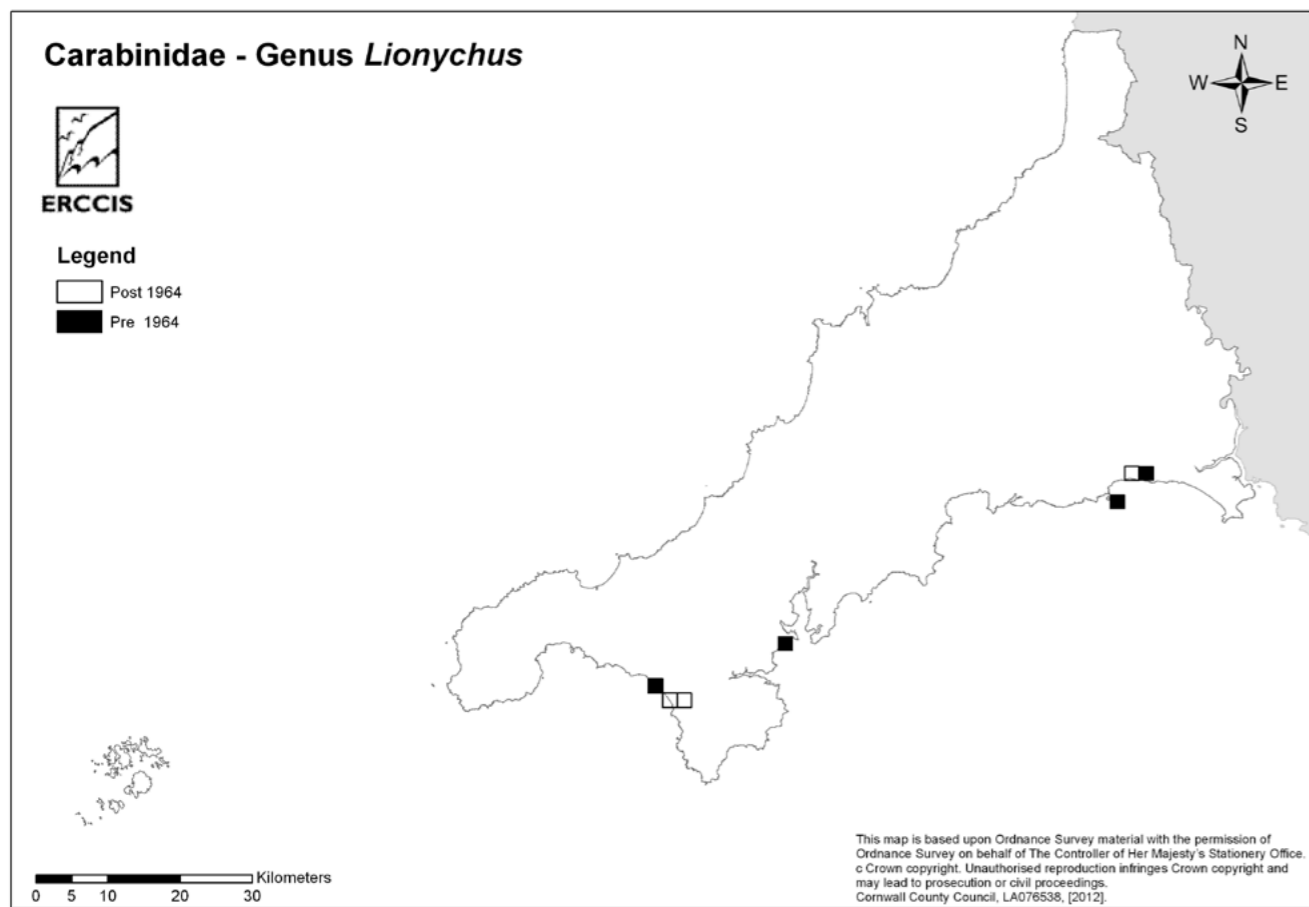
*Microlestes maurus* (Sturm) syn *Blechrus maurus*

Associated with sparsely-vegetated, usually dry sandy situations, with some litter and often with shade from vegetation. Cornwall (Clark, 1906). Widespread in the county.

*Microlestes minutulus* (Goeze)

**Recent arrival?**

SW98 Pentire Head, Polzeath, 9.vi.2008, PAG.



## Lionychus

*Lionychus quadrillum* (Duftschmid)

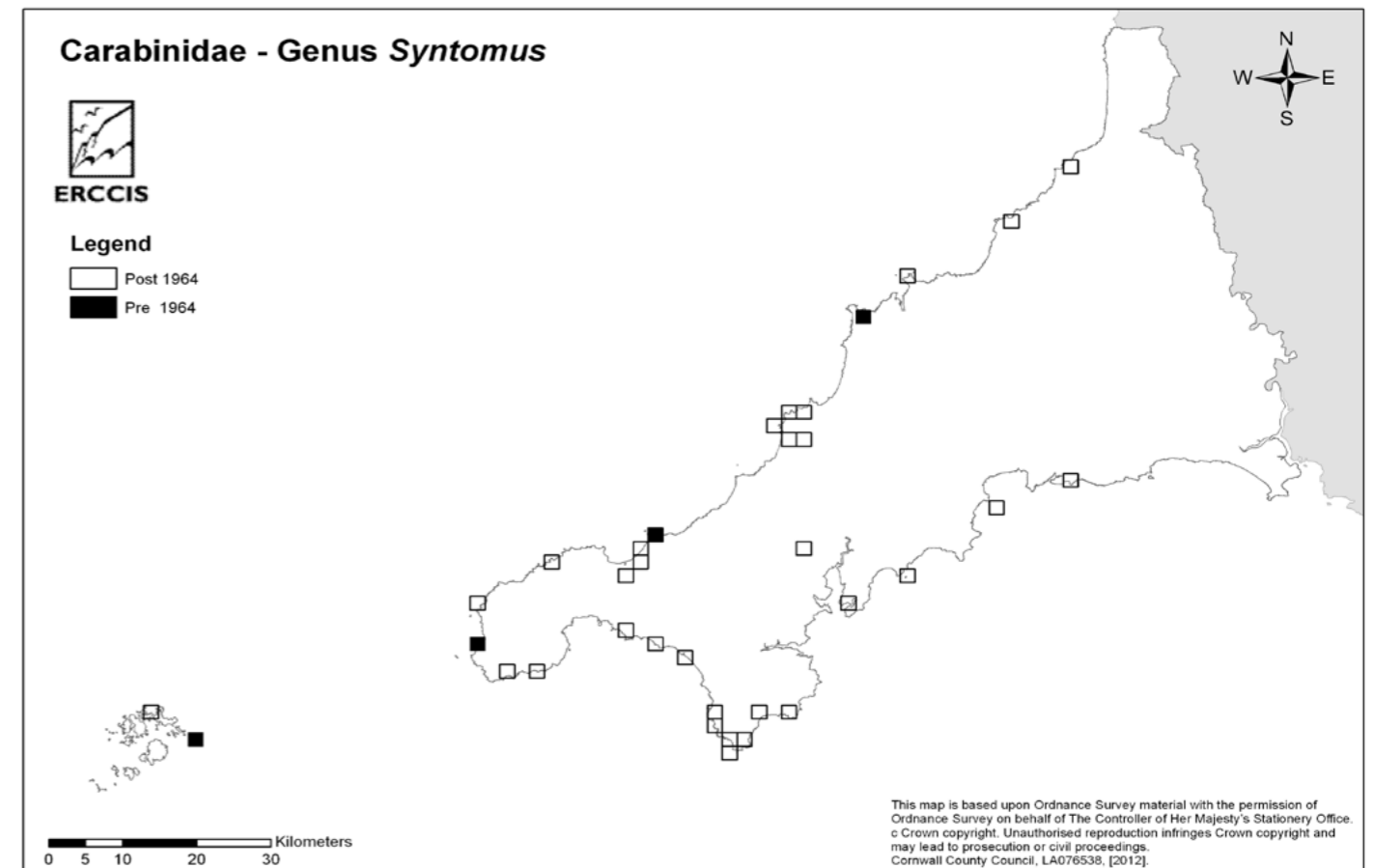
**Red Data Book (Rare).** Lives in shingle and sand near freshwater seepages.

SW62 Loe Bar, shingle, 10.vi.1921, JHK; v.1934, RTB (Bannister, 1970). Between Loe Bar & Gunwalloe Fishing Cove, under stones at base of cliff with freshwater seepages, vi. & 10-15 on wet sand below cliff with rainwater seeping through, 19.vi.2008, PAG.

SW83 Swanpool, occurs very sparingly (Clark, 1906).

SX25 Looe, 7.ii.1919, JH Adams. West Looe, viii.1934, CC Murray (Dibb, 1938). Keveral Beach, Seaton, several under stones and gravel at base of cliff, 22.viii.1999, RG Booth (2000); in coarse shaley sand near seepage at base of cliff, 28.vii.2001, B Levey (2003).

SX35 Donderry, darting about amongst the shingle at the foot of the sloping slaty rocks at high-tide mark, v.1915; within lamellae of the slate rock below high-tide mark, viii.1916, Keys (1918).



## Syntomus

*Syntomus foveatus* (Fourcroy) syn *Metabletus foveola* (Gyllenhal)

Associated with sparsely-vegetated, usually dry sandy situations; heaths and grassland, coastal dunes & arable land. Cornwall (Clark, 1906). Very widespread in the county.

*Syntomus obscuroguttatus* ((Duftschmid))

**County Rare.** Amongst vegetable debris in moist situations on heavy soils. Cornwall (Clark, 1906) but no records in Luff (1998).

*Syntomus truncatellus* (Linnaeus)

**County Rare.** Associated with sparsely-vegetated, usually dry sandy situations; in fields, open woodland and grassland. Cornwall (Clark, 1906).

SW53 Hayle, vii.1962, FD Buck.

SW54 Gwithan, ix.1935, RTB.

## Odacantha

*Odacantha melanura* (Linnaeus)

**Nationally Scarce & County Rare.** Reed beds.

SW53 Hayle to St Erth, three, ix.1900 (Clark, 1906).



