

THE IMMIGRATION OF LEPIDOPTERA INTO THE BRITISH ISLES IN 1989

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(concluded from p. 159)

ANNEXE I

Names of recorders

This contains the names of those who have sent their own records to us and, as far as possible, those of others which they have transmitted; also a few already published elsewhere. Names of recorders from Ireland have not been fully included.

Adams, Mrs C., Adams, E., Allen, D. (Ireland), Agassiz, D.J.L., Austin, R. (Guernsey), Baker, B.R., Baker, Mrs M.A., Baldock, D.W., Banner, M., Bell, R.A., Belringer, S.M., Botwright, G., Booth, C.J., Bourgoise, J. (Guernsey), Bowerman, Mrs E., Boyd, T. (Ireland), Branson, B., Bretherton, M.F., Bretherton, R.F., Brooks, Miss M., Brown, D.C.G., Brown, E.P., Brown, M.R., Brower, Mrs W. de, Bryan, M.D., Burton, J.F., Butcher, S., Cade, M., Catt, M. & A., Campbell, J.L., Chalmers-Hunt, J.M., Chainey, J., Champkin, W., Chambers, D.A., Chatelain, R.G., Clancy, S.P., Clarke, Dr J., Clarke, K.R., Cleere, D., Cobbing, P., Collins, C.B., Cooper, K., Corley, M.H.V., Costen, Dr P.M., Cox, B., Craine, D.G., Cribb, P.W., Creasey, G., Crump, F.D., Curzon, S., Davey, P., Dempsey, Mrs S., Derbyshire Ent. Soc., Dewick, A.J., Dewick, S., Dey, D., Dobson, A.H., Dowling, D. (Ireland), Durlston Country Park, Eastwick-Field, G.G., Else, G.R., Emmet, A.M., Evans, M., Ezard, A.S., Farwell, P., Fenn, J., Firmin, J., Foster, A.P., Fradgley, J., Freeborn, G. (Ireland), Goater, B., Goodey, B., Gowlett, W., Graveley, B., Gray, M., Green, J.E., Greenwood, J.A.C., Grove, R.W., Hall, N.M., Halsey, J. & M., Halpen, Mrs S., Harlen, S., Harmer, A.S., Hardman, R., Harrison, B., Harwood, N.W., Haynes, R.F. (Ireland & Man), Heckford, R., Henwood, B.P., Higgs, G.E. (Guernsey), Hobbs, R., Hodge, R.J., Hopsen, Mr & Mrs, Inch, D., Jacobs, S.N.A., Jenkins, A.J., Jewess, P.J., Johnstone, D.L., Kittle, W.G., Kneen, Mr & Mrs, Knill-Jones, S.A., Lane, R.E. & C.G., Langmaid, Dr J.R., Lempke, B.J., Lidgate, J.C., Long, R., Lorimer, R.I., McCormick, R.F., McKee, C. (Ireland), MacNamara, D., MacNulty, B.J., Macworth-Praed, H., Madge, S.C., Marples, F., Mitchell, B.R., Moore, B.W., Morgan, I.K., Morris, R.K.A., Musselle, R., Myers, Dr A. (Ireland), Nash, S., O'Heffernan, H., O'Keeffe, D., Owen, John, Owen, Prof D.F., Palmer, Mr & Mrs S.M., Parsons, M., Payne, J.H., Peet, T.N.D. (Guernsey), Penney, C.C., Penhallurick, R., Pittis, S.C., Phillips, J., Plant, C.W., Potts, P.M., Pratt, C.R., Radford, A.P., Radford, J.T., Ratley, D., Reid, J., Rich, Mrs E., Rippey, I. (Ireland), Robinson, R., Rogers, M., Rollin, C.C.M., Rouse, T., Rutherford, C.I., Salmon, Dr M.A., Scott, I. & K., Semmens, M.P., Skinner, B., Slade, D.J. & A.M., Softly, R.A., Spalding, A., Spence, B., Sterling, Col. D.H., Sterling, P.H., Stokes, Mrs S., Summers, G., Sutcliffe, S.J., Swanson, S., Symons, W. (Guernsey), Tremewan, M.A., Tubbs, R.S., Tucker, V.R., Walker, D., Wallace, Mrs C., Walters, J., Waring, P., West, B.K., Weston, B., Wild, E.H., Williams, E.H., Williams, K., Williams, M., Wincot, P.R., Winter, P.Q., Wright, Dr S., Young, D., Young, Dr M.

	<i>Palpita unionalis</i>	<i>Rhodometra sacraia</i>	<i>Orthonama obstipata</i>	<i>Agrius convolvuli</i>	<i>Mythimna albipuncta</i>	<i>Mythimna vitellina</i>	<i>Mythimna unipuncta</i>	<i>Mythimna loreyi</i>	<i>Spodoptera exigua</i>	<i>Heliothis armigera</i>
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	1	3	0	0	0
April	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	1	0	0	0	0	0
June	0	0	1	0	3	1	0	0	1	0
July	0	37	2	0	2	1	0	0	16	0
August	1	26	2	13	11	4	0	0	5	0
September	3	160	0	19	14	4	153	0	3	13
October	51	59	2	5	116	7	344	21	12	9
November	2	5	0	0	1	0	15	0	1	0
December	0	0	0	0	0	0	1	0	0	0
Totals 1989	57	287	7	37	c.149	18	c.520	21	38	22
<i>(Totals 1988)</i>	<i>40</i>	<i>94</i>	<i>63</i>	<i>17</i>	<i>6</i>	<i>24</i>	<i>12</i>	<i>9</i>	<i>182</i>	<i>81</i>

TABLE II. Scarcer immigrants in 1989 (All records, British Isles).

ANNEXE II

Records of scarcer immigrant species in 1989: adults only.

Suspected immigrants of resident species are marked *. Records of nocturnal species are of those found in traps or otherwise at light unless otherwise stated, with dates as far as possible for the beginning of each night. Initials are used for some recorders in long lists, but others are given in full.

PYRALOIDEA

Euchromius ocella Guen. (2) KENT W. East Malling, 26.9 (D.A. Chambers). YORKS v.c. 61 Spurn Bird Observatory, 21.9 (B. Spence).

***Evergestis extimalis** Hb. DORSET Portland Bird Observatory, 20.8 (M. Rogers per N.M. Hall).

Hellula undalis Fabr. (5). DORSET Studland, 24.10 (DCGB) HANTS ISLE OF WIGHT Freshwater 26.10 (SAK-J). SUSSEX W. Littlehampton, 30.10, two (B.S.) Sussex E. Eastbourne, 23.10 (BS).

***Margaritia sticticalis** L. (2) ESSEX S. Bradwell-on-Sea, 11.7 (S. Dewick). YORKS v.c. 61 Spurn B.O., 9.7 (B. Spence).

Udea polygonalis D. & S. ESSEX S. Bradwell-on-Sea, 21.9 (A.J. Dewick).

***Sitochroa palealis** D. & S. (14 plus larvae). CORNWALL W. Scilly, St Mary's, 24 & 29.8, larvae on *Daucus*, presumably from immigrant parent (R.J. Heckford). SUSSEX W. Thorney Island, 4/14.7, fourteen in all. Possible resident there (C.B. Collins).

***Ostrinia nubilalis** Hb. (15) HANTS S. Widley, Portsdown, 14.6 (P. Potts). 11.6, 14.6, 17.6, 19.6, 6.7, 20.8, 18.9, two, 24.9 (J.T. Radford per CRP). SUSSEX E. 18.9, 21.9, two, 23.9, 24.9 (M. Parsons). GUERNSEY Petit Bot, 8.9, first island record (R. Austin).

***Phlyctaenia perlucidalis** Hb. (3), HANTS N. Leckford, 13.6, 2.7 (D.H. & P.H. Sterling). YORKS v.c. 61 Spurn B.O., 7.7 (B. Spence).

Antigastra catalaunalis Dup. SUSSEX W. Walberton, 26.10 (JTR per BS).

Maruca testulalis Geyer KENT W. Dartford, 6.8. Probably only fourth known wild example, probably immigrant (B.K. West, *Ent. Rec.* 102: 44).

Diasemiopsis ramburialis Dup. DORSET Studland, 25.10 (D.C.G. Brown).

Palpita unionalis Hb. (57). CORNWALL W. Cusgarne, 30.10, two (A. Spalding); Penzance, 17.11 (M.P. Semmens). DORSET Durlston Country Park, 23.10; Portland B.O., 18.10 (M. Rogers); Durlston Head, 21.10, two, 25.10, 27.10, three (P. Davey), 22.10, two, 23.10, six, 24.10, 25.10, four (DCGB); Durlston, 27.10 (A. Gardner). HANTS ISLE OF WIGHT Freshwater, 19.10 (SAK-J). KENT E. Dungeness 25.10 (S.P. Clancy). NORFOLK W. Hockwold, 16.9 (J. Fenn). SUSSEX W. Walberton, 25.10, 30.10 (J.T. Radford); Littlehampton, 26.10, 30.10 (BS); Rogate, 30.10 (J.A.C. Greenwood). SUSSEX E. Eastbourne, 23.10, four (B.S. & M. Parsons), 26.10 (M. Parsons), 30.10, twelve males, 31.10, one male (A.P. Foster & M. Parsons); Pevensey Levels 24.10 (A.P. Foster); Ninfield, 24.10, 11.11 (M. Parsons). GUERNSEY Old Marais, Vale, 9.8 (R. Austen); Forest, 12.9, two (T.N.D. Peet).

***Dioryctria abietella** D. & S. ESSEX S. Bradwell-on-Sea, 8.7, four (A.J. Dewick), KENT E. Greatstone, 8.7, one large (SPC). YORKS v.c. 61 Spurn B.O., 25.9, "a giant" (B. Spence). Immigrants are usually larger than the native form.

RHOPALOCERA

Papilio machaon bigeneratus Vty. SUSSEX E. Beachy Head, 17.8, noted flying off the sea (P. Farwell per C.W. Plant). GUERNSEY St Peter, 8.11, one seen (per R. Austin).

Colias alfacariensis Berger. BUCKS Dancer's End, 17.9, male (Dr P.A. Salmon, at BENHS exhibition, identity *teste* JMC-H). The first confirmed British specimen for many years.

Pontia daplidice L. CORNWALL E. Mount Edgecumbe, near Torpoint, 29.7 (E. Adams per S.C. Madge, who believed it to be correctly identified).

Lampides boeticus L. SURREY Alford, 3.7, one caught in a field and set (R. Hardman per P.W. Cribb). [One seen at Prawle, south Devon is believed to have come from a nature breeding site.]

Nymphalis antiopa L. (3) MIDDLESEX Sunbury, 25.7, feeding on fallen plums in garden (P.W. Cribb). SURREY Esher Common, watched flying round a pear tree and feeding on rotting fruit, 22.7 (Steven Brown per I. Rippey). Dates agree with the general immigration of late July. CORNWALL E. Maker, 12.7, seen and described (P. Cobbing per SCM).

Dryas julia Fabr. ESSEX N. Colchester, one found, caught and photographed between mid July and August; a shop selling bananas was 1½ miles away (per B. Goodey). It was probably imported like its British predecessor at Rotherhithe in 1936.

Danaus plexippus L. (3) DORSET Abbotsbury, watched by R.W. Grove (per Martin Cade), 22.9. SUSSEX E. Jevington, Eastbourne, 15.8, closely seen on buddleia, then flew off (by Mr Witten, per D. Rushen of "Living World", reported by D. Dey and CRP). HANTS S. Havant, uncertain date, watched at rest and flying by Mrs M.A. Collins (C.B. Collins).

BOMBYCOIDEA

***Euproctis chrysorrhoea** L. (5). YORKS v.c. 61 Spurn B.O., 7.7, four, 9.9 (B. Spence); Flamborough, 8.7, Muston 10.7 (P.Q. Winter). Probably migrants.

LASIOCAMPIDAE

Dendrolimus pini L. GUERNSEY Le Chene, Forest, 9.7, at light. Possibly from imported conifers, as no other immigrants were seen that night. Only second British record (T.N.D. Peet, pers. comm. and *Ent. Rec.* 101: 248).

GEOMETROIDEA

Cyclophora pupillaria Hb. GUERNSEY Forest, 26.9 (T.N.D. Peet).

***Scopula rubiginata** Hufn. KENT E. Greatstone, 17.8 male (B. Branson per S.P. Clancy).

Rhodometra sacraria L. (223) BERKS Fernham, 22.7, two, 24.7, 6.9, 16.9,

20.9, 24.9, three, 25.10, two, 27.10, 30.10; Long Wittenham, 23.9 (D. Owan); Wash Common, Newbury, 29.10 (N. Cleere per G.G. Eastwick-Field). CHESHIRE Combermere, 27.10 (R. Robinson per C.I. Rutherford). CORNWALL W. Scilly, Tresco, end September (C.I. Rutherford). Cusgarne (two places) 4.9, red stripe, 5.9, red stripe, 6.9, two red stripe, 8.9, red stripe, 10.9, red stripe, 11.9, two red stripe, 21.9, red stripe, 22.9, two red, one brown stripe, 23.9, 1 red, 1 brown stripe, 26.9, red stripe, 29.9, red stripe, 30.10, red stripe, 2.11, red stripe (A. Spalding); Penzance, 22.7, 30.7, 8.9, 9.9, 18.9, 21.9, 25.9, 26.9, two, 28.9, 1.10, 5.10, 17.10, 22.10; Drift Reservoir, 3.9 (M.P. Semmens); Rosewarne, 12.9 (A.H. Dobson); Housel Bay, 26.9 (C.L. Rutherford); Coverack, Lizard, 25.8, 27.8 (DCGB); Cury, Lizard, 22.7, two, 26.7, 2.8 (A. Gardner). CORNWALL E. Sheviok, 1.8; East Looe 19.9 (S.C. Madge). DEVON S. East Prawle, 8.7, 4.8, both by day (M. & A. Catt); Abbotskerswell, 5.9, 7.10 (D.P. Henwood); Chardstock, 7.9 (A. Jenkins). DORSET Portland B.O., 21.7, 22.7, 23.7, three, 3.9, 4.9, 6.9, two, 8.9, 11.9, two, 12.9, two, 9.10; Durlston Head, 22.10, two, 25.10, three (DCGB), 27.10 (A. Gardner); Durlston C.P. 22.7, 4.9, 23.10; Swanage, 20.9, 21.9 (P.R. Wincot); 9.10 (BS); Durlston Head, 18.10, 22.10, 24.10, 25.10 (P. Davey); Studland, 21.7 (P. Davey), 24.10, 25.10, (DCGB), 27.10 (A. Gardner); Poole, 21.7, two females (GGE-F); Gaunt's Common, Wimborne, 6.9, five, 19.9, four, 21.9, two, 23.9, three (P. Davey). Wimborne, 25.8, 2.9, 9.9, 24.9, three, 23.10 (J. Fradgley). ESSEX S. Bradwell-on-Sea, 24.7, 21.9, 22.9, 24.9, 25.9, 29.9, 24.10, 25.10, 6.10, 28.10, two, 1.11 (S. Dewick). ESSEX N. Friday Wood, Colchester, July (B. Goodey). HANTS ISLE OF WIGHT Freshwater, 19.10 (SAK-J). HANTS S. Lymington, 31.8, 6.9, 13.9, two, 23.9, 26.9, 23.10, 24.10, 26.10, two, 27.10 (A.S. Harmer); Widley, Portsdown, 21.7, brown stripe, 4.9, red stripe (P. Potts); Ringwood, 23.7, three (J. Clarke); Sparsholt, 28.7, 11.9, 27.9 (A.H. Dobson). HANTS N. Burghclere, 30.10 (GGE-F); Crawley, 31.10 (R.A. Bell). KENT E. Hamstreet 29.8 (S. Butcher per SPC), 18.9 (SPC), 30.10 (N. Davies per SPC); Newington, near Sittingbourne, 24.9, 26.9 (P.J. Jewess); Greatstone, 25.10, 1.11, female (SPC); Dungeness, 31.10, two, 3.11, two (D. Walker per SPC). MIDDLESEX Friern Barnet, 27.10, male (APF). NORTHANTS Deanhanger, 12.9 (DCGB). NOTTS Wollaton Park, Nottingham, 21.9 (Dr Sheila Wright). SURREY Bramley, 14.9 faded male, 27.10, female (RFB). SUSSEX W. Rogate, 25.7, three, 26.7, 31.7, 6.8, 7.8, 12.8, 14.8, seven, 15.7, five, 25.8, 31.8, 2.9, six, 4.9, two, 5.9, 6.9, 8.9, three, 9.9, two, 12.9, two, 15.9, two, 16.9, 17.9, 18.9, 19.9, 20.9, 23.9, 24.9, 25.9, four, 30.9, 31.9, two (JACG); Church Norton, 23.8 (JTR per CRP); Walberton, 29.8, 30.8, two, 1.9, 2.9, 5.9, 6.9, 7.9, 8.9, two, 10.9, 14.9, red stripe, 16.9, two, 18.9, 19.9, 21.9, two, 23.9, 22.10, two, 25.10, 26.10, 29.10 (JTR); Littlehampton, 3.9, 24.9 (Mrs R. Pratt); Hassocks, at post office light (D. Dey). SUSSEX E. Peacehaven, 23.7, 25.7, 4.9, 5.9,

(CRP); Brighton, 3.9, 20.9 (S. Curzon), 31.10 (R. Leverton per CRP). Ninfield, 6.9, 22.9, two, 24.10 (M. Parsons per CRP); Ashdown Forest, 24.9 (CRP & G. Botwright); Eastbourne, 23.10 (BS); Newhaven, 31.10 (G. Botwright per CRP). WARWICK Charlecote, 12.9, 25.9 (A. Gardner), 15.9 (DCGB). WILTS S. Dinton, 21.8, 2.9, 11.9 (S.M. Palmer). CO DOWN Helen's Bay, 27.10 (T. Boyd per I. Rippey). CO KERRY Killarney, 28.9 (R.F. Haynes). GUERNSEY Old Marais, Vale, 18.8, 4.9, 8.9; Forest, 4.9, 8.9, 9.9, 12.9, 11.10 (TNDP); Pleinmont, 13.9 (per R. Austin).

Orthonama obstipata Fabr. (7) BERKS Fernham, 16.6 (S. Nash). DORSET Studland Heath, 30.10 (P. Davey). SUSSEX W. Church Norton 23.7 (JTR per CRP). KENT E. Greatstone, 22.8, male (B. Branson per SPC), Dungeness, 18.10 (SPC). CO FERMANAGH Castle Caldwell, 28.7 (D. Allen). GUERNSEY Old Marais, Vale, 16.8 (R. Austin).

***Thera cupressata** Geyer. Now clearly well established in parts of the Channel Islands and a number of specimens reported in October from one locality in Dorset strongly indicates the possibility of a mainland resident colony. Elsewhere single examples were recorded from CORNWALL E. Shevioc, 1.10 (SCM); SUSSEX W. Walberton, 22.10 (JTR per CRP).

SPHINGOIDEA

Agrius convolvuli L. (37 plus larvae). CORNWALL W. Scilly, 27.9, by day (per Adrian Spalding); St Columb Minor, 24.9, in a garden (per A. Spalding); Coverack 17.8 (DCGB); Lizard, 30.9 (B.R. Baker); CORNWALL E. St Austell, 4.9, male (W.G. Kittle, *Ent. Rec.* 101: 281); Shevioc, 3.10, full grown larva (SCM). DORSET Portland B.O., 20.8, 21.8, 22.8, 9.9 (M. Rogers); Durlston C.P., 28.8, two, 31.8, 6.9, 21.9, 22.9, 25.9, two, 1.10, 8.10; Swanage 21.9, battered male (PQW); Studland, 10.10, on a road (BS). HANTS ISLE OF WIGHT Bonchurch, 26.8 (J. Halsey). ESSEX S. Bradwell-on-Sea, 2.8, 29.8, 2.9, 4.9; Althorne, c.20.9, dead in a greenhouse (A.J. Dewick), 28.8, 2.9 (S. Dewick). KENT E. Hamstreet, 15.9, female; Wye, 22.9, male; Lenham 6.10, male (T. Rouse per SPC). SOMERSET N. Ashcott, 21.8 (J.C. Lidgate per SPC). SUSSEX E. Brighton, 18.9 (R. Leverton per CRP); Eastbourne, 5.10, male (M. Parsons & APF). ORKNEY Stromness, 13.9 (A. Gray per R.I. Lorimer). CO DOWN John's Island, Copelands, one August, photographed (N. McKee per I. Rippey). GUERNSEY Forest, 12.10, one full grown larva (TNDP).

Acherontia atropos L. (2 plus larvae). CORNWALL W. Lizard lighthouse, end July (keeper per A. Gardner). KENT E. Appledore, 8.9, c.50 larvae and pupae in potato fields (T. Rouse per SPC); Romney Marsh, end 8 and early 9, many larvae and three pupae (M.R. Brown). SUSSEX E. Brighton, 4.8, flying at 5.45 p.m. (J.V. Banner per CRP).

Hyles gallii Rott. (5 plus many larvae). DERBYSHIRE Butterley reservoir,

18.8 & 25.8, several larvae, which pupated (K.R. Clarke per BS). DORSET Portland B.O., 11.7 (M. Rogers per NMH). ESSEX S. Bradwell-on-Sea, 30.7, female (A.J. Dewick). ESSEX N. West Mersea Island, 25.8, full grown larva on fuchsia (per J. Firmin). KENT E. Dungeness, one larva (D. O'Keefe); Greatstone Dunes 2.8 (W. Champkin per SPC). WARWICKS Ryton Wood, 5.7 (per DCGB); Moseley Bog, 18.7, full grown larva (D. Harrison per DCGB). YORKS v.c. 61. Muston, 7.7, in trap (PQW). YORKS v.c. 62 Eston Hills, Cleveland, 20.8, three full grown larvae (N.W. Harwood).

Hyles lineata livornica Esp. HANTS S. Hayling Island, late September or early October, one caught by J. Walters (J. Chainey per G. Else).

Hippotion celerio L. DORSET Swanage, 26.9 (BS).

NOTODONTOIDEA

Thaumetopoea processionea L. JERSEY Gorey, 22.7 (R. Burrow per R. Long, *Ent. Rec.* 102: 84).

NOCTUOIDEA

***Meganola albula** D. & S. ESSEX S. Fingringhoe N.N.R., 7.7 (B. Goodey). Possible immigrant, or spread from East Kent, where it is fairly frequent but of uncertain status. GUERNSEY St Saviour, 7.7 (R. Austin).

NOCTUIDAE

Agrotis crassa Hb. DORSET Portland B.O., 6.8 (M. Rogers per N.M. Hall). Probably only the third British mainland specimen, but frequent and apparently established in Guernsey,

Eurois occulta L. (2). KENT W. Hawkhurst, 23.7 (G. Creasey per SPC); Dartford, 27.7 (B.K. West).

Mythimna albipuncta D. & S. (c.150). CORNWALL W. Lizard, 5.10, female (B.R. Baker). DORSET Portland B.O., 12.6, 13.6, 19.6, 22.7, 25.8, 8.10, two, 9.10, 10.10, 13.10 (R. Rogers per N.M. Hall). Durlston Head, 30.8, two, 5.10, 7.10, two, 22.10, four, 23.10. three, 24.10, six, 25.10, five, 27.10 (DCGB); Durlston Head, 16.10, 18.10, 27.10 (P. Davey); Swanage, 26.9, 9.10, two, 10.10, 16.10, two, 17.10, two (R. Chatelain & BS); Poole, 9.10, female (GCE-F); Studland, 24.10, 25.10, five, 26.10 (DCGB); 20.9, 21.9, fertile female (P.Q. Winter); Wimborne, 27.10 (J. Fradgley). ESSEX S. Bradwell-on-Sea, 22.9, 23.10, one male, one female, 24.10, female, 27.10, male, 28.10, two females, 30.10, female (A.J. & S. Dewick). HANTS S. Lymington, 22.9, 29.9, 26.10 (A.S. Harmer); Highcliffe, 25.10 (EHW). HANTS N. Crawley, 31.10 (R.A. Bell). KENT E. Dungeness, 19.8, three (BS); 25.8 (D. Walker per SPC), 23.10 (SPC); Greatstone, 23.8, 22.10, two, 23.10, 25.10 (B. Branson per SPC). HANTS ISLE OF WIGHT Freshwater, 4.9, 23.9, three (SAK-J), SUSSEX W. Walberton, 21.10,

22.10, five, 23.10, three, 26.10, 1.11 (JTR per CRP); Hassocks, 23.10, 24.10 (D. Dey); Littlehampton, 30.10 (BS). SUSSEX E. Eastbourne, Holywell Cliffs, 26.9 (D. Dey), 30.10 (APF), 23.10, four (CRP), ten (BS & M. Parsons); Ninfield, 24.10 (M. Parsons per CRP). CO. CORK MID. Fountainstown, 3.8 (A.A. Myers); Kinsale, 20.7 (BS). GUERNSEY La Carriere, 29.5, 8/13.10, max. 6 on 10.10; Old Marais, Vale, 12.8, 13.8; Petit Bot, 21.9, 8.10, c. fifteen, 12.10; St John, 10.10, 11.10 (R. Austin).

Mythimna vitellina Hb. (18). CORNWALL W. Scilly, c.1.10 (C.I. Rutherford). DEVON S. Brixham, 29.7 (R. Heckford); Bigbury, 3.10 (M.D. Bryan); East Prawle, 9.10 (P. Davey). DORSET Portland, 28.3 (N.M. Hall); Portland B.O., 29.6, 1.8, 3.8, 7.8, 21.9, 27.9 (M. Rogers per N.M. Hall); Durlston C.P., 22.8, 25.9, 30.10; Swanage, 20.9, fertile female (PQW); Durlston Head, 24.10, 25.10 (DCGB), 28.10 (A. Gardner).

***Mythimna l-album** L. (c. 22). CORNWALL W. Cusgarne, 26.9, 3.10 (A. Spalding). CORNWALL E. Sheviock, 24.9, 27.9 (SCM); Portwrinkle, 4.10, eight (A. Spalding). HANTS N. Crawley, 22.9 (R. Bell). KENT E. Dungeness, 23.9 (D. Young), 24.9 (Julian Clarke); Greatstone, 23.10 (B. Branson, per SPC); Folkestone Warren, 24.9 (D. O'Keeffe per BS). SUSSEX E. Eastbourne, 5.10 (APF). GUERNSEY Noted at five sites from 31.5 to 16.10, mostly singly (R. Austin, TNDP).

Mythimna unipuncta Haw. (520). CORNWALL W. Scilly, Tresco, 28.9/3.10, two (C.I. Rutherford). Penzance, 12.9/30.9, forty, 1.10/31.10, sixty-four, 1.11/19.11, three (M.P. Semmens); Cusgarne, 21.9/30.9, twenty-five, 1.10/31.10, fifty-two, 5.11/22.11, five (A. Spalding); Kynance, 24.9, seventeen, 25.9, two; Lizard, 30.9/6.10, eighteen (J. Baker); Lizard, Housel Bay, 26 & 27.9, five (C.I. Rutherford); Rosewarne, 4.10, 11.10 (A.H. Dobson); Lizard, 14.10, five, 15.10, two females (Julian Clarke). CORNWALL E. Sheviock, Torpoint, 24.9, 25.9, 27.9, two, 29.9, 30.9, two, 1.10, 2.10, two, 5.10, two; Portwrinkle, 4.10, two (A. Spalding). DEVON S. Bigbury, 1.10/7.10, eleven (M.N. Bryan); East Prawle, 7.10/11.10, twenty (P. Davey); Plymouth, 14.10, five, 15.10, two (J. Clarke). ESSEX S. Bradwell-on-Sea, 25.9, 24.10, 26.10, 2.12 (A.J. Dewick). DORSET Portland B.O., 28.3 (N.M. Hall), 20.9/29.9, twenty-eight, 1.10/18.10, twenty; Portland, 22.7, 23.7 (R.A. Bell); 21.9, two (J. & M. Halsey); Durlston, 7.10, two, 22.10, six, 23.10, eight, 24.10, two, 25.10, two, 26.10, four (DCGB), 16.10, 18.10, five, 21.10, four, 25.10, three, 26.10 (P. Davey), 30.9, 27.10, two, 28.10 (A. Gardner); Durlston C.P., 23.9, 24.9, three, 25.9, four, 26.9, three, 30.9, two, 9.10/23.10, twenty, 19.11; Studland, 11.9 (D. Young), 27.10 (A. Gardner); Swanage, 9.10, two, 17.10, six, 18.10 (BS & R. Chatelain); Gaunt's Green, Wimborne, 26.10 (P. Davey). HANTS ISLE OF WIGHT Freshwater, 25.9, two, 27.9, 29.9, 6.10, 11.10, two, 12.10, two, 13.10, two (SAK-J). HANTS S. Highcliffe, 28.9, 4.10 (EHW). HANTS N. Crawley, 11.11, male (R.A.

Bell). KENT E. Dungeness, 25.9, 18.10, 23.10, 24.10, 7.11 (SPC), 11.10 (Julian Clarke), 13.10, two, 17.10, two, 30.10 (D. Walker per SPC); Greatstone, 18.10, 30.10 (SPC), 22.10, 25.10 (B. Branson per SPC). NORFOLK W. Hockwold, 23.10 (J. Fenn). SUSSEX W. Walberton, 26.9, 10.10, 11.10, 18.10, 23.10, 24.10, 29.10, 1.11 (JTR per CRP), Littlehampton, 24.10, 26.10 (BS), 2.11, two (Mrs R. Pratt). Total SUSSEX W. 13. SUSSEX E. Eastbourne, 5.10 (APF & M. Parsons), 23.10 (CRP), four (BS & M. Parsons), 30.10, two (APF & M. Parsons); Findon, 9.10 (S. Odell); Peacehaven, 21.10, 1.11 (CRP); Ninfield, 26.10, 31.10 (M. Parsons); Pevensey Levels, two at ivy (APF & M. Parsons). WARWICKS Bidford-on-Avon, 14.10 (R. Cox per DCGB). WILTS S. Dinton, 10.10 (S.M. Palmer). YORKS v.c.61. Muston, 21.9 (PQW). CO CORK MID Fountainstown, 2.10, twelve (A.A. Myers). GUERNSEY Forest, 12.9, 25.9, 24.10, 25.10 (TNDP); La Carriere, 9.10, 12.10, two, 13.10 (R. Austin). ISLE OF SKYE, 10.10 (Simon Dix per DCGB).

Mythimna loreyi Dup (21). DEVON S. Brixham, no date (R. Heckford). DORSET Swanage, 10.10 (BS & R. Chatelain); Durlston Head, 25.10, two (DCGB), 27.10 (A. Gardner), 25.10 (P. Davey); Durlston C.P., 30.10, KENT E. Dungeness, 30.10, female (D. Walker per SPC); SUSSEX W. Walberton, 26.10 (JTR per CRP), Littlehampton, 30.10, five (BS). SUSSEX E. Eastbourne, 30.10, five, 31.10, two (APF & M. Parsons).

***Senta flammea** Curtis. DORSET Gaunt's Common, Wimborne, 24.5 (P. Davey). Probably immigrant or now establishing itself locally.

***Xylena exsoleta** L. (2). BERKS Fernham 29.3 (S. Nash). Probably immigrant, agreeing in date with *M. vitellina* and *M. unipuncta*; DORSET Durlston Head, 21.10 (P. Davey).

Trigonophora flammea Esp. (3). DORSET Studland, 25.10, male (DCGB), 27.10 (A. Gardner); SUSSEX W. Walberton, 20.10 (JTR per CRP).

Polyphaenis sericata Esp. (2). GUERNSEY: Forest, 24.7 (TNDP). JERSEY Gorey, 23.7 (R. Long, *Ent. Rec.* 102: 84).

Spodoptera exigua Hb. (86). BERKS Fernham, 25.7 (S. Nash). CORNWALL W. Penzance, 22.7, two, 23.7, two (MPS); Cusgarne, 26.7, 18.9, 30.10, two, 31.10, 2.11 (A. Spalding); Rosewarne, 30.7, 14.8 (A.H. Dobson). DORSET Studland Heath, 21.7, 30.10 (P. Davey); Portland B.O., 21.7 (M. Rogers per N.M. Hall), Portland, 21.9 (J. & M. Halsey), Durlston, 23.10 (DCGB). ESSEX S. Bradwell-on-Sea, 27.7, 28.7 (A.J. Dewick), 22.9 (S. Dewick). KENT E. Dungeness, 19.8, two (D. O'Keeffe); 30.10, male (SPC). HANTS N. Crawley, 26.8, two (R.A. Bell). SUSSEX W. Thorney Island, 16.6 (C.B. Collins); Walberton, 21.7, 23.7, two (JTR per CRP); Littlehampton, 30.10, six (BS). SUSSEX E. Peacehaven, 25.7 (CRP). CO CORK MID Kinsale, 20.7 (BS).

Enargia paleacea Esp. HERTS Broxbourne Woods, 24.7, female (B.S. & R. Chatelain).

Heliothis armigera Hb. (21 & larva). DEVON S. Bigbury, 3.10 (M.D. Bryan, *Ent. Rec.* 102: 36). DORSET Gaunt's Common, Wimborne, 20.9 (P. Davey); Durlston C.P., 24.9, 27.9, 28.9; Durlston Head, 5.10, 24.10, two (DCGB), 26.9, fertile female (B.S. & R. Chatelain); Portland, 26.9 (A. Jenkins). ESSEX S. Bradwell-on-Sea, 23.9 (A.J. Dewick); HANTS ISLE OF WIGHT. Freshwater, 25.9 (SAK-J); HANTS S. Sparsholt, 21.9 (AHD per BS), HANTS N. Crawley 29.9 (R.A. Bell); KENT E. Greatstone, 25.9, 26.9 (SPC), Dungeness, 23.10, male (SPC). SUSSEX W. Littlehampton, 26.10, one of extreme ab. *ochracea* Cockerell, 30.10 (BS), Walberton, 29.10, 30.10 (JTR per CRP). SUSSEX E. Ninfield, 23.9 (M. Parsons per CRP); Horsham, one larva found in pea-pods imported from Guatemala (M. Roberts), pupated 16.6, emerged 7.7 (CRP).

Heliothis peltigera D. & S. (9). CORNWALL W. Coverack, Lizard, 16.8, 27.8 (DCGB); Penzance, 4.8 (MPS). DORSET Portland B.O. 2.8 (M. Rogers per N.M. Hall); Studland, 27.10 (A. Gardner). KENT E. Dungeness, 20.8 (D.O'Keeffe); Greatstone 31.8 (B. Branson per SPC). SUSSEX E. Peacehaven, 21.9 (CRP). ISLE OF MAN Castletown, 14.6 (M. Kneen per D.G. Craine).

Eublemma parva Hb. DORSET (2). Portland B.O., 7.9 (M. Rogers per N.M. Hall). HANTS S. Widley, Portsdown, 24.7 (P.M. Potts).

***Deltote bankiana** Fabr. (5). KENT E. Folkestone Warren, 16.6 (A. Butcher per SPC); Greatstone, 7.7, male (B. Branson per SPC). ESSEX S. Bradwell-on-Sea, 8.7 (S. Dewick), 15.7 (A.J. Dewick), 18.7 (S. Dewick). Probably immigrants.

Chrysodeixis acuta Walker (6). SUSSEX W. Littlehampton, 21.10, 23.10, 24.10 (Mrs R. Pratt), 30.10, male (BS); Walberton, 25.10, 30.10 (JTR per CRP).

Trichoplusia ni Hb. SUSSEX W. Littlehampton, 30.10, male (BS).

Diachrysia orichalcea Fabr. (2). SUSSEX W. Walberton, 29.10 (JTR per CRP). SUSSEX E. Eastbourne. 30.10, one almost certainly seen (APF & M. Parsons).

Hypena obsitalis Hb. DEVON S. Brixham, 29.7, shown at BENHS exhibition, identity *teste* JMC-H (B. Henwood).

Early butterflies in 1990

Whilst walking through the Chiddingfold Wood complex, in West Sussex, on 17th June 1990, in the company of Dr J. Clarke and Mr J. Phillips, we were surprised to see several examples of the Silver-washed Fritillary, *Argynnis paphia* L. together with the White Admiral, *Lagoda camilla* L., an early date for both these species.— R.R. COOK, 11 Greensome Drive, Ferndown, Dorset.



Bretherton, Russell Frederick. 1990. "The immigration of Lepidoptera into the British Isles in 1989." *The entomologist's record and journal of variation* 102, 215–224.

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