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A systematic list of the Moths of Sandwich Bay

(Updated to 31st December 2024)

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(to 31 December 2024)

Introduction

This list was first prepared by Peter and Pauline Heathcote in 2003, detailing records of 436 macros and 292 micros up to the end of 2002. They updated the list to include records to the end of 2008 and the list was augmented with records for 2009. It was subsequently reviewed by Francis Solly in November/December 2009 and some records for which confirmatory details were required, or which clearly resulted from misidentification, were removed. Details of these species can be found in the appendix at the back of this report. From 2010 to 2015 it was compiled by Ian Hodgson and between 2016 and 2022 by Sally Hunter with much help and support from Ian Hunter and Steffan Walton. In 2018 it was updated by Ian Hunter, Macro Moth recorder for Kent, with advice from Dave Shenton, Micro Moth recorder for Kent, in the light of the specific evidence requirements of the National Moth Recording Scheme published in 2016. The national status for each macro species was updated in 2021 according to Fox, R et al 2019. In 2022 records from the Sandwich Bay Bird Observatory Recording Area held in the Butterfly Conservation National Moth Recording Scheme database were added including some interesting or important earlier records.

A Brief History of Moth Recording at the Bay

Interest in moths at Sandwich Bay has waxed and waned in proportion to the level of interest and expertise of local observers and the developing standard and accessibility of identification material. The influences of Bernard Skinner's 1984 guide and the more recent guides by Paul Waring and Martin Townsend, illustrated by Richard Lewington first published in 2003 and the *Field Guide to the Micro-moths of Great Britain and Ireland* by Phil Sterling and Mark Parsons, illustrated by Richard Lewington first published in 2012 have been major factors in expanding interest in moths together with more recent publications noted in the reference section.

227 moth species (excluding the *pyrales*) were listed in a *Checklist of the Lepidoptera of Sandwich Bay* in the 1970 report and in 1985 the late Dennis Batchelor published his landmark *SBBO Butterflies and Moths Report*, containing updates on the status of some 420 species of moth (both micros and macros) recorded at the Bay. 1984 had brought a major leap forward with the publication of Bernard Skinner's *Colour Identification Guide to Moths of the British Isles*. Although the illustrations were of pinned specimens it made the identification of moths accessible to a growing band of amateur naturalists and by 1993 the total of moth species recorded at the Bay had reached 420 macros and 245 micros. The micro total included 112 species that were added in 1993 alone through the expertise of the late Eric Bradford.

260-270 macros were recorded in 1993 and 1994 and a record 308 in 1995; the highest annual total achieved in the Observatory's history to that date. Trapping in that year was carried out on 254 nights, mainly by means of a mercury vapour (MV) trap at the Observatory, supplemented by the use of a portable actinic trap in The Elms, the Whitehouse and the Haven. However, in 1996 trapping sessions were limited to the operation of the MV trap at the Observatory and the number of species recorded began to decline, although a portable actinic trap was again used frequently during August and September at many sites around the Bay in 1998. 1999 was another quiet year with records of only 176 species of macro moth from the MV trap and only 183 species were recorded in 2000.

Recording in 2009 involved the operation of two MV traps at the Observatory and two actinic traps at several sites around the Estate. The recently published photographic guide by Chris Manley and the UK Moths website <http://ukmoths.org.uk/> were of great help, particularly in the identification of micro moths, and a record 346 species of macro moth were recorded in 2009, bringing the total of macro species recorded to date to 466, while the number of micro moth species reliably recorded at the Bay was 407.

Recording in 2010 reached an unprecedented level, with the operation of up to five MV traps at the Observatory and at several sites around the Estate. 370 macro species were recorded during the year, including 11 new to the Recording Area, increasing the Bay's list of macro moth species to 477. More significantly, perhaps, 52 new species of micro were added, bringing the number of micro moth species so far recorded at the Bay to 459. 12 new macro species were added in 2011 and seven species were added in 2012. At the end of 2012, following review of some records (such as a record of Scarce Arches from 1867 that pertained to Deal, not Sandwich), the Bay's macro list stood at 493 and the number of micros satisfactorily described at 483.

2013 was a record year, in which 375 macros species were recorded, seven of which were new, bringing the Bay macro list to 500 species (however, see the notes preceding the macro moths later in this summary). This record was broken again in 2014 when 389 macro species were trapped and nine new species brought the Bay macro list to 509 species. Sadly, it also included the passing of John 'Badger' Beugg, who had been pivotal to this return of interest in moths at the Bay.

Ian Hunter (Macro Moth recorder for Kent) returned to the task of trapping in 2015 since when a regular MV trap has been run in the car park by Ian with help from Steffan Walton, since his appointment as warden in 2018, and Sally Hunter and, from her appointment in 2020 until the end of 2021, our Assistant Warden, Becky Downey. Various other traps have been run occasionally in other areas of the Recording Area by Steffan and by several visiting moth enthusiasts. In 2018 the total of macro species reached 533 and for micros 591. In 2019 Greg Lee, interning with us, trawled through old records to find evidence to bring some species back from the appendix and altogether 23 new micro species were added bringing the total to 614 and five new macros bringing the total to 540. Despite the main season in 2020 being disrupted twice by a reduction

of effort as a result of the lockdowns due to the Coronavirus pandemic there were many new species recorded. Steffan Walton conducted another thorough review of the appendix micro species and there was a visit in June 2020 from Mark Sterling and a group from the Natural History Museum and as a result of these efforts the number of micros in particular have been increased in the main systematic list. Our Assistant Warden, Becky Downey, from her appointment in January 2020 to December 2021 helped significantly, especially during the lockdown periods. Also, in 2020 we had confirmation of a first for UK – leaf-mines of *Phyllonorycter medicaginella* actually recorded in October 2018. By the end of 2020 the number of reliably confirmed micro species was 663 and macros was 547 and at the end of 2021 the number of reliably confirmed micro species was 679 and macros was 550. The list was updated in 2022 in the light of historic data received from Butterfly Conservation moth records. In 2022 micros had risen to 699 and macros to 559, by 2023 it was micros 706 and macros 561 and by 2024 723 species of micro moth and 564 species of macro moth had been recorded. In May 2024 the number of species with larvae identified in the Recording Area was boosted by Rebecca Levey, Phil Sterling and Barry Henwood who led a sweep of early stages as part of an activity linked to Butterfly Conservation's Heritage Lottery funded Kent's Magnificent Moths project.

The specific name changes made in January 2022 are included here. And from the 2024 report the vernacular names for micros have been added (Sterling, P., Parsons, M. & Lewington, R., 2023 Field Guide to the Micro Moths of Great Britain and Ireland 2nd edition).

Francis Solly, Tony Davis and Dave Shenton (Micro Moth recorder for Kent) have increased the number of particularly leaf-mining species reliably recorded at Sandwich Bay through their regular observations of leaf-mines in the field. Tony Davis and Dave Shenton have also helped by carrying out Determination by Genitalia Examination (gen det) on a variety of species.

Specimens are only taken when absolutely necessary for identification purposes.

In the lists below the **RES number in red** indicates new for the Bay this year – including species brought into the main list from the appendix.

A Systematic List of Micro-moths at the Bay

The flight period for each micro species is in accordance with data taken from Langmaid et al 2018 updated 2023 from Sterling et al 2023.

The systematic list follows Agassiz, Beavan & Heckford (2024) and the numbering system used in this summary follows the numbering system introduced by Agassiz *et al.* The numbers applied by Bradley (2000) are shown in brackets. The status shown follows A Review of the Status of Microlepidoptera in Britain. Butterfly Conservation Report No. S12-02 by Tony Davis 2012. All Red Data Book statuses given are provisional:

pRDB1	Occurs in 5 or less 10km squares
pRDB2	Occurs in 6 - 10 10km squares
pRDB3	Occurs in 11 - 15 10km squares
Nat S A	Nationally Scarce A
Nat S B	Nationally Scarce B
Local	Occurs in 101 – 300 10km squares
Common	Occurs in more than 300 10km squares
Migrant	Occurs naturally in Britain but only as a result of immigration
Adventive	Only found in Britain as a result of deliberate or accidental importation

MICROPTERYGOIDAE

1.004 (4)	White-line Pollen-moth <i>Micropteryx aruncella</i> (Linnaeus). Recorded by day in the Whitehouse on 11 (3M + 1F) & 18 (8M 1F) June 2016 (FS) and on 10 June 2022 (5M + 1F, IDH).	Common	May-Jun
1.005 (5)	Plain Pollen-moth <i>Micropteryx calthella</i> (Linnaeus). One in the Whitehouse on 07 June 2014 (FS).	Common	May-Jun

ERIOCRANIIDAE

2.001 (6)	Common Spring Jewel <i>Dyseriocrania subpurpurella</i> (Haworth) Singles at HQ light on 07 & 14 April 2011 (FS) and 07 (Elms) and 21 (Whitehouse gen det TD) April 2017 (SZW). A leaf-mine observed in The Elms on 13 May 2024 (SZW).	Common	Apr-May
2.003 (8)	White-spotted Spring Jewel <i>Eriocrania unimaculella</i> (Zetterstedt), Observation of five tenanted mines in The Elms on 22 April 2017 (DS), larva and mine on Birch in Waldershare Gully on 21 May 2021 (SZW) and a larva in the Gullies on 02 May 2022 (DS) and in Waldershare Gully (2) on 09 May 2024 (SZW).	Local	Mar-Apr

- 2.006 (11) **Small Spring Jewel** *Eriocrania cicatricella* (Zetterstedt), Local Apr
Occupied mines found in the Oasis on 15 May 2009 (FS), ten tenanted leaf-mines in The Elms 22 April 2017 (DS) and a larva in the Gullies on 02 May 2022 (DS).
- 2.007 (13) **Large Spring Jewel** *Eriocrania semipurpurella* (Stephens), Common Mar-Apr
15 tenanted leaf-mines recorded in The Elms on 22 April 2017 (DS) and a larva in the Gullies on 02 May 2022 (DS).
- 2.008 (12) **Purple Spring Jewel** *Eriocrania sangii* (Wood) Local Mar-Apr
An adult recorded at light on 30 March (gen det TD) and three tenanted leaf-mines recorded in The Elms on 22 April (DS) 2017 and a larva in the Gullies on 02 May 2022 (DS).

HEPIALIDAE

- 3.001 (15) **Orange Swift** *Triodia sylvina* (Linnaeus) 19 July – 15 September F
Small numbers recorded at light. Frequent from 1998 to 2024, e.g., 38 in August 2017 including ten in the Whitehouse on 21 August. A dark form was recorded at HQ light on 24 August 2020 (SH/IDH).
- 3.002 (17) **Common Swift** *Korscheltellus lupulinus* (Linnaeus) 23 April – 12 August F
Common at light (up to 52 in June 2010). Recorded annually up to 2024. In 2020, for example, 61 individuals were recorded over 38 dates between 07 May and 17 June with a maximum of four on 21 May at Sandown Road. Very late individuals were recorded to light at HQ on 13 September 2015 and 18 September 2021 (IDH).
- 3.005 (14) **Ghost Moth** *Hepialus humuli* (Linnaeus) 12 May – 24 August O
Fairly regular at light in small numbers from 1990. None recorded at light in 2016. Singles recorded at light on four dates in June 2017 plus a single on 06 June and six on 05 July were recorded in the field. Singles to light on the Estate on 15 and 29 June 2018, at HQ on 04 (ME) and 11 July 2019 (RoW) and on the Beach on 13 and in the Oasis on 25 June 2020 (both AM/DS). None were recorded in 2021. Singles were attracted to light at HQ on 22 June and in Middle Field on 06 July 2022, in Jubilee Field on 13 June 2023 (ASy) and at HQ on 28 June and 03 July 2023.

NEPTICULIDAE

- 4.002 (116) **Grey Birch Dot** *Stigmella lapponica* (Wocke) Common May
Leaf-mine on 27 July 2016 (DS).
- 4.006 (113) **Glossy Birch Dot** *Stigmella sakhalinella* (Puplesis), Local May-Jun
Leaf-mines in Birch on 12 October 1994 (EB) and on 20 October 2017 near the Field Centre (DS).
- 4.008 (114) **White-barred Alder Dot** *Stigmella glutinosae* (Stainton) Local Aug
Tenanted leaf-mine recorded in the Whitehouse on 20 October 2017 (DS).
- 4.009 (115) **Silver-barred Alder Dot** *Stigmella alnetella* (Stainton) Local Aug
Vacated leaf-mine recorded on 20 September 2012 (TD) and tenanted leaf-mine recorded in the Whitehouse on 20 October 2017 (DS).
- 4.010 (111) **Nut-tree Dot** *Stigmella microtheriella* (Stainton) Common May and Aug
Leaf-mines found by FS on Hazel in Elms 22 October 2008, near Field Centre on 20 October 2017 (DS), on Hazel in Middle Field on 17 November 2020 (SZW confirmed DS) and in The Elms on 25 September 2021 (MS/PS/DL).
- 4.012 (102) **Maple Dot** *Stigmella aceris* (Frey) Local May, Jul-Aug
Two leaf-mines found in The Elms on 27 November 2015 (DS) and in Middle Field on 20 October 2017 (DS).
- 4.013 (97) **Apple Dot** *Stigmella malella* (Stainton) Local
A leaf-mine was observed on the Green Wall on 12 September 2024 (SZW).
- 4.014 (98) **Buckthorn Dot** *Stigmella catharticella* (Stainton), Local May/June and July/Aug
A vacated leaf-mine found on Purging Buckthorn in Middle Field on 11 December 2015 (DS), in Middle Field on 20 October 2017 (DS) and 15 leaf-mines on Purging and Alder Buckthorn in Middle Field on 11 November 2020 (SZW confirmed DS).
- 4.015 (92) **Rose Dot** *Stigmella anomalella* (Goeze), Common May and Aug
One trapped at Observatory on 25 July 2009. Leaf-mines found on Dog Rose (FS) and in The Elms and at the Tollgate on 27 November 2015 (DS) and in Middle Field on 20 October 2017 (DS).
- 4.018 (80) **Barred Elm Dot** *Stigmella ulmivora* (Fologne), Local Jun
Leaf-mines taken on 14 September 1993 (EB) and in The Elms on 27 November 2015 (DS) and 20 October 2017 (DS).

4.019 (95)	Plain Elm Dot <i>Stigmella viscerella</i> (Stainton) Leaf-mines in Elm on 12 October 1994 (EB), in The Elms on 27 November 2015 (DS) and 20 October 2017 (DS) and in the Big Gully on 26 September 2021 (SZW/DS).	Local	May-Jun
4.023 (108)	Hawthorn Dot <i>Stigmella crataegella</i> (Klimesch), Leaf-mines in Hawthorn on 12 October 1994 (EB).	Common	May-Jun
4.026 (100)	Fruit-tree Dot <i>Stigmella oxyacanthella</i> (Stainton), Leaf-mines in Hawthorn on 12 October 1994 (EB), on Hawthorn in The Elms on 1 November 2009 (FS) and near Field Centre on 20 October 2017 (DS).	Common	Jun
4.030 (99)	Shining Hawthorn Dot <i>Stigmella hybnerella</i> (Hübner), Leaf-mines in Hawthorn on 12 October 1994 (EB), seven in The Elms and five at the Tollgate on 27 November 2015 (DS), on 13 and 25 June 2020 the latter in the Oasis (AM/DS) and at HQ on 07 August 2021 (SZW).	Common	Apr-May, Jul-Aug
4.032 (75)	Speckled Hazel Dot <i>Stigmella flosactella</i> (Haworth), Leaf-mines found by FS on Hazel in Elms 22 October 2008, near Field Centre on 20 October 2017 (DS), on Hornbeam at HQ on 05 December 2020 (SZW/DS) and on Hazel in The Elms and near HQ on 25 September 2021 (MS/PS/DL).	Common	May and Aug
4.034 (77)	Small Beech Dot <i>Stigmella tityrella</i> (Stainton), Two mines were identified on Beech at the Observatory on 11 November 2021 (SZW/DS) and one on 24 November on the Green Wall (RD confirmed DS).	Common	Apr-May and Jul-Aug
4.035 (68)	Sallow Dot <i>Stigmella salicis</i> (Stainton), Leaf-mines in Sallow on 12 October 1994 (EB) and vacated mines in the Little Gully on 3 November 2015 (TD). This record concerns egg underside. (relevant if species split). Leaf-mine recorded in the Whitehouse on 20 October 2017 (DS), on the Estate, on 15 June 2018 on Sallow (AM) and on 13 and 25 June 2020 this latter in the Oasis and both egg underside (AM/DS).	Common	Apr-May, Jul-Aug
4.037 (71)	Sandhill Dot <i>Stigmella zelleriella</i> (Snellen), Sandwich Bay was the only known location for this species in Britain. Although it has now been identified from Dungeness. Larvae bred in 1957 from leaf-mines, from Creeping Willow in the Little Gully, were identified as <i>Stigmella repentiella</i> (Emmett, A., 1977) who relocated it in the Little Gully on 19 July and 03 October 1976. In 1983 the species was included in the <i>Stigmella zelleriella</i> synonym (van Nieuwerkerken, E J, 1983). Mines were also recorded on 08 September 1985, 30 September 1986, 23 September 2011 (FS) and in the Gullies on 27 November 2015 (DS). At least two vacated mines were recorded on 31 October 2016 in the Little Gully (TD). Tenanted leaf-mines recorded at Restharrow Scrape on 20 October 2017 (DS). A leaf-mine was recorded on Salix in the Little Gully on 25 September 2021 (MS/PS/DL).	pRDB1	May, Aug
4.038 (70)	Willow Dot <i>Stigmella obliquella</i> (Heinemann) On 20 September 2012 vacated mine recorded on <i>Salix babilonica</i> (TD), Leaf-mine recorded on 3 November 2015 (TD), two leaf-mines in the Gullies and two near the Observatory on 27 November 2015 (DS), and in Middle Field on 20 October 2017 (DS).	Local	May, Aug
4.042 (67)	Blue-shot Dot <i>Stigmella plagiolella</i> (Stainton), Recorded on 28 August 1960 and in leaf-mines in Blackthorn on 12 October 1994 (EB), and 15 leaf-mines near the Observatory building and 15 at the Tollgate on 27 November 2015 (DS), leaf-mines near Field Centre on 20 October 2017 (DS), on Blackthorn on the Estate on 15 June 2018 (AM), in the Oasis on 25 June 2020 (AM/DS) and on the Estate on 02 September 2023 (MS).	Common	May-Jun, Aug
4.043 (63)	Beautiful Elm Dot <i>Stigmella lemniscella</i> (Zeller), Leaf-mines in Elm on 12 October 1994 (EB), 1 November 2009 (FS), vacated mines on 20 September 2012 (TD), in The Elms on 27 November 2015 (DS), on 20 October 2017 (DS), on 19 July 2018 (DS), on 25 June 2020 (AM/DS) and 27 August 2021 (SZW).	Common	May and Aug
4.044 (64)	Silver-barred Birch Dot <i>Stigmella continuella</i> (Stainton), Leaf-mine recorded on Birch in the Gullies on 19 July 2018 (DS).	Local	May-Jun, Aug
4.045 (50)	Golden Dot <i>Stigmella aurella</i> (Fabricius), Leaf-mines in Bramble on 12 October 1994 (EB) 1 November 2009 and 09 March 2010 (FS), vacated mines recorded on 20 September 2012 (TD) and November/ December 2015 (DS), in Middle Field on 20 October 2017 (DS), on 25 June 2020 in Oasis (AM/DS), on Rubus in The Elms on 25 September 2021 (MS/PS/DL), in the Gullies on 02 May 2022 (DS) and 11 January ((5) SZW) and 01 September 2023 (MS).	Common	May, Aug-Sep
4.053 (78)	Grey Apple Dot <i>Stigmella incognitella</i> (Herrich-Schaffer) Two leaf-mines found in The Elms on 27 November 2015 (DS) and 20 October 2017 (DS). Many leaf-mines found at Backsand Scrape on 01 November 2023 (SZW confirmed DS)	Local	May, Aug

4.054 (79)	Least Hawthorn Dot <i>Stigmella perpygmaeella</i> (Doubleday)	Common	May, Aug
	Leaf-mines in Hawthorn on 12 October 1994 (EB) and at Prince's plantation on 27 July 2016 (DS).		
4.055 (81)	Beech Dot <i>Stigmella hemargyrella</i> (Kollar)	Common	Apr-May, Jul-Aug
	A leaf-mine discovered on the Green Wall on 24 November 2024 (RD confirmed DS)		
4.056 (65)	Beautiful Sycamore Dot <i>Stigmella speciosa</i> (Frey)	Common	Jun, Aug
	Six leaf-mines in The Elms on 27 November 2015 (DS), in Middle Field on 20 October 2017 (DS) and 15 on the Green Wall on 03 October 2022 (SZW).		
4.057 (85)	Plain Holm Oak Dot <i>Stigmella suberivora</i> (Stainton)	Local	Apr-May, Aug
	Four leaf-mines in The Cellars gardens on 27 November 2015 (DS).		
4.066 (49)	Lotus Dot <i>Trifurcula eurema</i> (Tutt)	pRDB3	
	An adult male recorded to light at HQ on 24 June 2020 (IDH gen det DS)		
4.071 (40)	Speckled Apple Dot <i>Bohemannia pulverosella</i> (Stainton)	Common	May-Jun
	Two leaf-mines in The Elms on 27 November 2015. Exit slit examined to confirm ID (DS).		
4.075 (22)	Maple Seed Dot <i>Etainia louisella</i> (Sicom)	Local	May-Jun, Jul-Aug, Sep-Oct
	Leaf-mine recorded on the Estate on 15 June 2018 (DS). Recorded to light at HQ on 03 June 2024 (IDH gen det DS)		
4.076 (20)	Sycamore Seed Dot <i>Etainia decentella</i> ((Herrich-Schäffer)	Nat S B	Jun, Aug
	An adult to light in Restharrow Dunes on 12 August 2020 (FS).		
4.078 (42)	Hypericum Dot <i>Fomoria septembrella</i> (Stainton)	Common	May-Jun, Aug
	Leaf-mines found on St. John's Wort by FS in Whitehouse November 2009 and August 2010, by DS on 11 December 2015 and on 13 June 2020 (AM/DS).		
4.085 (23)	Aspen Dot <i>Ectoedemia argyropeza</i> (Zeller)	Local	May-Jun
	It is believed to be parthenogenetic over most of its UK range. A leaf-mine found on Aspen in the Little Gully on 09 November 2020 (SZW/DS).		
4.088 (36a)	Speckled Holm Oak Dot <i>Ectoedemia heringella</i> (Mariani)	Nat S B	Late Jun-early Aug
	In our Recording Area leaf-mines are now (2020) abundant on Holm Oak. Leaf-mines recorded in Middle Field on 20 October 2017 (DS). 80+ adults at HQ light on 09 July 2019 (IDH gen det DS), 30 on 14 July, 32 on 16 July at HQ light plus 15 on 16 July 2020 at Sandown Road (SH/IDH) and a leaf-mine in the Gullies on 02 May 2022 (DS). 2000+ leaf-mines recorded in the Big Gully on 11 January 2023 (SZW). Two adults attracted to light on Prince's Beach on 17 July 2024 (SW gen det DS).		
4.089 (37)	White-banded Dot <i>Ectoedemia albifasciella</i> (Heinemann)	Common	Jun
	Leaf-mines recorded in Middle Field on 20 October 2017 (DS).		
4.092 (32)	Coast Dot <i>Ectoedemia erythrogea</i> (Joannis)	Nat S B	Jul
	200 leaf-mines recorded on New Downs on 13 September 2018 (DS) and 20 at Backsand Point on 01 and three in the Little Elms on 04 November 2024 (SZW).		
4.094 (28)	Angle-barred Rose Dot <i>Ectoedemia angulifasciella</i> (Stainton)	Common	Jul
	Leaf-mines recorded in Middle Field on 20 October 2017 (DS).		
4.095 (29)	Barred Fruit-tree Dot <i>Ectoedemia atricollis</i> (Stainton)	Common	Jun
	Leaf-mines in Hawthorn on 12 October 1994 (EB), 20 September 2012 (TD), two on 27 November 2015 (DS) and near Field Centre on 20 October 2017 (DS).		
4.099 (34)	Large Birch Dot <i>Ectoedemia occultella</i> (Linnaeus)	Common	May-Jul
	Leaf-mines in Birch on 12 October 1994 (EB) and on 30 October 2020 in The Elms (SZW/DS)		

OPOSTEGIDAE

- 5.001 (119) **Sorrel Cap** *Opostega salaciella* (Treitschke) Local Jun-Aug
Recorded on 05 August 1981, 09 and 25 June 1993, in the Whitehouse on 25 June 2009, in the Oasis on 26 June and 10 July 2010 (FS), at HQ light on 04 July 2012 and annually between 2014 and 2019. The numbers of individuals recorded in these years being four in 2014, a peak count of four at HQ light in 2015, two in 2016 (FS), one taken at light in St George's Bushes and 11 individuals recorded at HQ light in 2017 (IDH/SZW). In 2018 reports continued to increase between 07 June and 30 July including a maximum of 25 on 15 June in the Whitehouse. Seven were recorded in 2019 between 25 May and 12 July. Singles were recorded to light at HQ, in the Oasis and on Prince's Beach between 25 June and 07 August 2020 (SZW/IDH/NHM/AM/DS). After none in 2021 15 were recorded to MV light over eight dates between 26 June and 20 July 2022 at HQ and in the Haven and Whitehouse. Singles were recorded to light at HQ over seven nights between 13 June and 05 September 2023 and over seven nights between 03 June and 20 July 2024.
- 5.004 (121) **Mint Cap** *Pseudopostega crepusculella* (Zeller) Nat S B Jun-Jul
A moth that occupies damp areas such as fens, alder carrs and similar habitats. First recorded to light in the Haven on 12 July 2022 (FS).

HELIOZELIDAE

- 6.004 (156) **Alder Cutter** *Heliozela resplendella* (Stainton) Local May-Jul
One leaf-mine in The Elms 27 November 2015 (DS), in the Whitehouse and Middle Field on 20 October 2017 (DS), on the Estate on 15 June 2018 (AM) and in the Oasis on 25 June 2020 (AM/DS).

ADELIDAE

- 7.001 (148) **Yellow-banded Longhorn** *Nemophora degeerella* (Linnaeus) Common May-Jul
Abundant in the Whitehouse paddock bushes during June 1985 and recorded almost annually since. Peak counts since 2009 include 200 in Middle Field, 120 in The Elms, 500 in the Oasis/Whitehouse/Haven and up to 15 in Waldershare Gully. Ten recorded in the Whitehouse on 01 June and several taken at light across the Recording Area on 08 June 2017. A field observation on 09 June in The Elms was the only 2018 record (SZW) and in 2019 there were two field observations. In 2022 two adults were recorded on the Worth Track on 31 May (MBou) and one in The Elms on 08 June (CJH/IDH) and a single observed in The Elms on 27 May 2024 (MBou/SZW).
- 7.004 (144) **Horehound Longhorn** *Nemophora fasciella* (Mann) Nat S A Jun-Jul
Recorded in Middle Field - a female photographed on 12 Jun 2016 (SN) and a single observed on 21 June 2019 (SZW). Five recorded as field observations on 15 June in Middle Field (FS) and near the Moffice at HQ on 16 and 28 June 2020 (SZW) and two in the Gullies on 21 July 2023.
- 7.006 (150) **Green Longhorn** *Adela reaumurella* (Linnaeus) Common Apr-Jul
Recorded on the Estate between 23 March and 07 June from 1990 to 2023. At least 600 were fluttering around The Elms on 16 May 2010. Between 2016 and 2022 singles were recorded on a maximum of four dates e.g., two were recorded on the Estate in Middle Field on 15 May 2016 (AML), singles on 28 and 20 on 30 April 2017 (SZW), a single in Middle Field on 23 March 2020 (CW) and on 18 May 2021 in the Whitehouse (RJD/IDH).
- 7.007 (149) **Sallow Longhorn** *Adela cuprella* (Denis & Schiffermüller) Local Mar-May
Males observed in Waldershare Gully on 01 (Mbou (4)) and 05 May 2023 (SZW (2)).
- 7.008 (151) **Lesser Banded Longhorn** *Adela croesella* (Scopoli) Local May-Jun
One recorded on the Estate on 25 June 1936, six in the Whitehouse on 22 May 2011, up to three in May 2014, one on 19 June 2015, one on 29 May 2017 in the Waldershare Gully (SZW), a single on 09 June 2018 in the Little Gully (SZW), three on 07 June 2020 in Middle Field (SZW) and a single male on 14 June 2024 in the Haven (SZW).
- 7.009 (153) **Speedwell Longhorn** *Cauchas fibulella* (Denis & Schiffermüller) Common May-Jun
Found in the Whitehouse on 15 May 2009, 19 May 2010 and 22 May 2011 (FS) and two on 11 May and four on 18 May 2014. One recorded on the Estate on 11 June 2016 (FS) and two in the Oasis on 31 May 2020 (SZW).
- 7.012 (141) **Sandy Longhorn** *Nematopogon schwarziellus* (Zeller) Common May-Jun
Two recorded at light on 22 June 2016 (IDH), and singles on 01 June 2019 and 23 June 2020. Six individuals were recorded to light at HQ over five nights between 05 and 17 June 2023. (GJL/IDH)

- 7.014 (143) **Dark-dotted Longhorn** *Nematopogon metaxella* (Hübner) Local May- Jun
Recorded on four dates between 09 -20 June 1993, then up to a total of seven between 2009 and 2012, up to six in June 2015 (IDH) and between 2017 and 2022 there were totals varying between three and eleven including a single to light at Sandown Road on 24 June 2020 (SH/IDH). Recorded from 22 May to 12 July. Amongst the six recorded in 2022 was one at HQ on 12 June (IDH, gen det DS). Between 08 and 30 June 2023 ten singles were recorded to light at HQ.
- 7.015 (140) **Large Longhorn** *Nematopogon swammerdamella* (Linnaeus) Common Apr-Jun
Singles taken at light in The Elms on 11 May and observed in the field on 15 May 2017 (SZW), attracted to HQ light on 03 June 2018 and observed in the Little Gully on 27 May 2019. After none in 2020, singles were attracted to light in The Elms/Gullies area on 26 May and 13 June 2021 (KB), in The Elms on 23 May 2022 (KB), two on 12 June 2023 in Middle Field (KB) and one on 20 June 2024 in Middle Field (KB).

INCURVARIIDAE

- 8.001 (129) **Pale Feathered Cutter** *Incurvaria pectinea* (Haworth) Local Apr-May
An adult was found floating in the sea on 07 May 2022 (DS).
- 8.002 (130) **Feathered Cutter** *Incurvaria masculine* (Denis & Schiffermüller) Common Apr-Jun
Recorded on the Estate on 16 May 2005, in the Whitehouse on 21 and 30 April 2009, at Mary Bax on 12 April 2014 (FS), on the Estate 01 May 2016 (FS), near the Field Centre on 12 April 2017 (SZW), at HQ light on 17 May 2019 (IDH), an adult was recorded in the field in the Whitehouse on 04 May 2022 (FS) and singles recorded to light at HQ or The Elms on four nights between 02 and 07 May 2023. Singles observed in Waldershare Gully on 14 April (MBou/SZW) and on Guilford Road on 03 May 2024 (RL/PS/BH).

PRODOXIDAE

- 9.002 (135) **Raspberry Shoot Borer** *Lampronia luzella* (Hübner) Nat S B May-Jul
Recorded to light in the Whitehouse on 28 June 2019 (PF).

TISCHERIIDAE

- 10.001 (123) **Oak Blotch-miner** *Tischeria ekebladella* (Bjerkander) Common May-Jun, Aug-Sep
Leaf-mines recorded in Middle Field on 20 October 2017 (DS).
- 10.003 (125) **Bramble Blotch-miner** *Coptotriche marginea* (Haworth) Common May-Oct
Leaf-mines in Bramble on 12 October 1994 (EB), 7 November 2009 (FS), 20 September 2012 (TD), November/December 2015 (DS), in Middle Field on 20 October 2017, four in the Whitehouse on 01 December 2020 (SZW), in The Elms on 25 September 2021 (MS/PS/DL) and in the gullies area on 02 May 2022 (DS). Between two to six adults recorded at light on the Estate and at HQ between 27 May and 25 September in 2015 and 2017 to 2024.

PSYCHIDAE

- 11.009 **Ramshorn Bagworm** *Luffia lapidella* (Goeze) pRDB1
Five cases recorded on a rusted tank by New Downs New Pool on 22 December 2020 (SZW/DS)
- 11.012 (186) **Common Bagworm** *Psyche casta* (Pallas) Common May-Jul
Recorded on the Estate on 31 May 1983. Larval cases found by FS in the Whitehouse and Elms 27 September 2009. Four larval cases on 25 May in The Elms and 25 on the Estate on 15 June 2018. Larval cases were recorded at Sandown Road on 26 April and 08 June (three) (SH/IDH), in The Elms on 13 June and Oasis on 25 June 2020 (AM/DS), in The Elms on 25 September 2021 (MS/PS/DL) and 02 September 2023, at HQ on 01 May (IDH) and five observed in the Oasis area on 02 July 2024 (CV/KM).
- 11.014 (189) **Plumed Bagworm** *Epichnopteryx plumella* (Denis & Schiffermüller) Nat S A Apr-Jun
Recorded on the Estate on 25 May 1963, 31 May 1983 (NH) and 01 May 2000. In 2009 at least 20 were found at Dickson's Corner on 30 April, with three in the same area on 06 May (JGCB). Small numbers since up to 2018 in Whitehouse, Big Gully, Middle Field, and at Mary Bax. After a gap of a few years field observations of adults were made of a single on 02 May in the Gullies (DS) and of four on 04 May 2022 in the Whitehouse including a male (FS). Three males observed in the Whitehouse on 10 May (SZW) and recorded to light at HQ on 23 June 2023 (IDH).

TINEIDAE

- 12.010 (196) **Great Fungus Moth** *Moraphaga choragella* (Denis & Schiffermüller) Local Jun-Aug
Singles recorded at HQ light on 09 July 2016 (IDH) on 09 July 2019 (IDH) and a male on 23 June 2020 (IDH gen det DS).

12.012 (224)	Brindled Fungus Moth <i>Triaxomera parasitella</i> (Hübner) One in the Whitehouse on 12 June 2015 (FS).	Local	May-Jul
12.017 (217)	White-speckled Fungus Moth <i>Nemapogon koenigi</i> (Capuse) A male attracted to light in The Elms on 15 June 2018 (DS gen det).	Nat S B	May-Aug
12.021 (220)	Black-barred Fungus Moth <i>Nemapogon clematella</i> (Fabricius) An adult observed in the Haven on 28 June 2024 (SZW).	Local	Jun-Aug
12.027 (240)	Case-bearing Fungus Moth <i>Tinea pellionella</i> (Linnaeus) Six recorded between May and September 1993 (IF gen det EB). Observed in the field on 10 September 2019 (SZW). Adult males were recorded in the Field Centre office on 16 June 2020 (SZW gen det DS) and at HQ on 27 June 2022 (SB, gen det).	Local	Apr-Oct
12.028 (243)	Speckled Clothes Moth <i>Tinea dubiella</i> (Stainton) A local and scarce case-bearing clothes moth with two found in an observatory bunk-room on 08 July 1977, one bred from a case (DFH confirmed GSR) constituting a new County record.	Nat S B	May-Sep
12.032 (246)	Orange-tipped Nest Moth <i>Tinea semifulvella</i> (Haworth) Small numbers in 1993, in the Whitehouse in 2009 (FS) and 08 June 2017 (PF) and at HQ light in 2010, 2011 and 2013-2024 between 03 May and 16 September.	Common	May-Oct
12.033 (247)	Triple-spotted Nest Moth <i>Tinea trinotella</i> (Thunberg) Small numbers to light on the Estate or at HQ light in 2010, 2011-2014 and 2016-2024 between 16 May and 09 September.	Common	Apr-Jun, Jul-Sep
12.034 (237)	Brown-dotted Nest Moth <i>Niditinea fuscella</i> (Linnaeus) Recorded on 20 May and 23 July 1993 (IF & EB). A well marked specimen recorded indoors at the Observatory building on 24 June 2005 (TD confirmed JL). Also recorded on 17 August 2010 (PDH/JGCB).	Local	May-Sep
12.035 (238)	Brindled Nest Moth <i>Niditinea striolella</i> (Matsumara) Recorded on 27 May 1993 (IF gen det EB).	Nat S B	Jun-Aug
12.036 (227)	Skin Moth <i>Monopis laevigella</i> (Denis & Schiffermüller) Small numbers in June 1994 (EB), August 2013 and 2014 and singles recorded annually at HQ light or on the Estate from 2016 to 2020 and in 2022 and 2023 between 01 June and 04 September.	Common	Mar-Sep
12.037 (228)	Carrion Moth <i>Monopis weaverella</i> (Scott) Singles at HQ on 10 August 2009 and 20 May and 09 August 2010. Small numbers since from 2012 to 2024 between 04 May and 15 September including a female on 11 August 2023 (IDH gen det DS).	Common	Apr-Oct
12.038 (229)	Yellow-backed Detritus Moth <i>Monopis obviella</i> (Denis & Schiffermüller) Recorded on 24 and 26 May 1993, 09 June 1993, 25 July 2009 (JGCB) and small numbers since to light on the Estate or at HQ in 2010, 2012, 2014, 2015, 2018-2021 between 22 May and 29 September with a late adult on 15 November 2021 (hindwing checked IDH). Recorded to light at HQ on 23 and 28 June 2023 (SH/IDH) and on 29 July and in The Elms on 04 September 2024.	Local	May-Oct
12.039 (230)	Pale-backed Detritus Moth <i>Monopis crocicapitella</i> (Clemens) Two were recorded at HQ light on 08 June 2017 (IDH), singles on 26 July 2018, 30 June 2019 (hindwing checked SH/IDH), 10 June 2023 (GJL) and on 22 July 2024 (SB gen det).	Local	May-Oct
12.041 (232)	Monk Moth <i>Monopis monachella</i> (Hübner) Recorded in the dunes near the sea on 12 August 1995 (DA, MPa, BS) and in Restharrow Dunes (ASy photo confirmed SZW) on 12 and at HQ light (IDH) on 22 August 2023.	pRDB3	May-Sep
12.046 (277)	Yellow V Moth <i>Oinophila v-flava</i> (Haworth) Single caught on the Estate on 17 May 1993. (EB).	pRDB2	Jul-Sep

BUCCULATRICIDAE

14.001 (265)	Yarrow Tuft <i>Bucculatrix cristatella</i> (Zeller) Adult found by FS in the Whitehouse on 2 June 2010 and three recorded at St Georges on 04 July 2018 (TD gen det).	Nat S B	May-Jun, Jul-Aug
14.002 (266)	Daisy Tuft <i>Bucculatrix nigricomella</i> (Zeller) Mines on Ox-eye Daisy found by DS at HQ on 5 March 2016. Single adults recorded to light on 09 July 2017 and on 12 July 2020 (IDH gen det DS).	Local	May-Jun, Jul-Sep

14.003 (267)	Saltern Tuft <i>Bucculatrix maritima</i> (Stainton) An adult recorded to light on 12 August 2020 in Restharrow Dunes (FS).	Nat S B	Jun-Aug
14.007 (271)	Elm Tuft <i>Bucculatrix albedinella</i> (Zeller) Leaf-mines taken on 14 September 1993, in Elms on 27 November 2015 (DS), two larvae were noted in The Elms on English Elm on 25 September 2021 (MS/PS/DL) and signs of five larvae were recorded in the Sanctuary Elms on 26 August 2022 (SZW).	Local	Jun
14.008 (272)	Alder Tuft <i>Bucculatrix cidarella</i> (Zeller) Leaf-mines recorded in the Whitehouse and Middle Field on 20 October 2017 (DS) and signs of five larvae were recorded on Guilford Road on 03 October 2022 (SZW).	Local	May-Jun
14.009 (273)	Lime Tuft <i>Bucculatrix thoracella</i> (Thunberg) Single recorded at HQ light 21 May 2016. (IDH).	Common	Jun (Aug)
14.010 (274)	Oak Tuft <i>Bucculatrix ulmella</i> (Zeller) Leaf-mines recorded in the Middle Field on 20 October 2017 (DS).	Common	Apr-Jun Jul-Sep
14.012 (275)	Hawthorn Tuft <i>Bucculatrix bechsteinella</i> (Bechstein & Scharfenberg) An adult recorded at HQ light on 04 August, leaf-mines recorded near the Field Centre on 20 October 2017 (DS) and a cocoon found in The Elms on 19 July 2018 (DS). A leaf-mine was recorded on Hawthorn in the Waldershare Gully on 16 August 2021 (SZW).	Local	May-Jun, Aug

GRACILLARIIDAE

15.001 (299)	Clover Stilt <i>Parectopa ononidis</i> (Zeller) Ten adults attracted to light on the Estate on 11 August 2020 (KB).	Nat S B	May-Aug
15.002 (281)	Privet Stilt <i>Caloptilia cuculipennella</i> (Hübner) A tenanted leaf-mine recorded on Ash in the Oasis on 07 August 2020 (AM/DS).	Nat S A	
15.003 (281)	Black-dot Stilt <i>Caloptilia populetorum</i> (Zeller) A female recorded at HQ light on 04 August 2018 (IDH, gen det TD).	Local	Jun-Aug, Sep-May
15.004 (282)	Alder Stilt <i>Caloptilia elongella</i> (Linnaeus) Larval leaf-rolls found by FS on Alder in Haven 19 September 2009, adult bred from same source in September 2011 and found on Alder in The Elms on 22 September 2013 and Middle Field on 18 May 2014 (FS). Larval feeding signs recorded on 20 September 2012 (TD). Leaf-mines recorded in the Middle Field on 20 October 2017 (DS) and on Alder on the Estate on 15 June (AM et al) 2018. Unconfirmed adults to HQ light on 28 July 2018 and 18 and 19 July 2024 (SW). On 26 August 2019 males to HQ light (IDH gen det DS), on 30 July 2020 (IDH gen det DS) and on 18 August 2023 (IDH gen det DS).	Common	Jun, Sep-May
15.006 (284)	Rufous Stilt <i>Caloptilia rufipennella</i> (Hübner) Singles at HQ light on 16 July 2010 and in The Elms on 10 April 2014 (FS). Mines found in The Elms on 27 November 2015 (DS). A single to HQ light on 12 August and mines in the Middle Field on 20 October (DS) 2017 and singles to HQ light on 16 October 2018 and 23 April 2019 (IDH). In 2020 single adults were attracted to light at HQ and in Restharrow Dunes on four nights between 09 July and 15 August with a female recorded on 16 July (IDH gen det DS). Singles were recorded to light on 3 dates in July 2022, in Middle Field and in The Elms on 19 July 2023 (KB) and at HQ ON 25 June, 21 September and 01 November 2024 (all IDH).	Common	Jul-May
New species of <i>Caloptilia</i> have recently (2020) been discovered feeding on <i>Acers</i> in Kent so larvae records going forward will need to be bred out for specific identification.			
15.008 (286)	Oak Stilt <i>Caloptilia alchimiella</i> (Scopoli) Attracted to light at HQ on 4 July (2), 24 and 25 July and mines found in the Gullies on 27 November 2015 (DS) were confirmed from pupal morphology. A single to HQ light on 01 July 2018 (IDH, gen det TD) and on 18 August 2023 (IDH gen det DS).	Common	May-Jul
15.009 (287)	Shaded Oak Stilt <i>Caloptilla robustella</i> (Jackh) Females to HQ light on 30 May 2017 (gen det TD) and 24 July 2018 (IDH, gen det DS). An unconfirmed adult to light at HQ feeders on 27 September 2019 (SH/IDH) and a male to light at HQ on 07 May 2020 (IDH gen det DS).	Common	Apr-Jun, Jul-Oct

- 15.010 (288) **Willow Stilt** *Caloptilia stigmatella* (Fabricius) Common Jun-Jul, Aug-May
Recorded in The Elms 24 June 2005 and recorded in small numbers in 2009 and annually from 2010 to 2024 between 14 March and 15 November. Larval feeding signs recorded on 20 September 2012 (TD). 15 leaf-mines recorded from around the Estate on 27 November 2015 (DS), in the Whitehouse and Middle Field on 20 October 2017 (DS), on Sallow on the Estate on 15 June 2018 (AM et al), on White Poplar and Creeping Willow in The Elms on 25 September 2021 (MS/PS/DL) and four in The Elms on 01 September 2023 (MS).
- 15.011 (289) **Dark Alder Stilt** *Caloptilia falconipennella* (Hübner) **Nat S B** Sep-Apr
Singles at HQ light on 06 April 2010 (PDH, IPH confirmed FS), 20 September 2013, on 13 June and 16 October 2018 (IDH, gen det TD), on 27 March 2019 (IDH, M gen det TD), on 07 October and 19 November plus a female in the Haven on 19 October 2021 (SZW, F gen det DS) and to light at HQ on 13 October 2022 (SH/IDH) and 03 September 2024 (IDH). Larval feeding signs recorded on 20 September 2012 (TD). Leaf-mines recorded on 13 and 25 June 2020 including in the Oasis (AM/DS).
- 15.012 (290) **Maple Stilt** *Caloptilia semifascia* (Haworth) Local Late Jun-Aug, Sep-May
Singles to light at HQ on 01 October 2010, 06 and 22 September 2013, 01 August and 24 September 2017, in the Whitehouse on 03 August 2018 (FS), in Restharrow Dunes on 12 August 2020 and two in the Haven on 24 July 2022. An adult observed in the field on 31 March 2024 (SZW) Leaf-mines in The Elms on 27 November 2015 (DS). Leaf-mine recorded 27 July 2016 (DS), in Middle Field on 20 October 2017 (DS), on Maple in The Elms on 15 June 2018 (AM et al) and on 25 September 2021 and in Big Gully on 01 September 2023 (MS).
- 15.0131 (291a) **Pale Maple Stilt** *Caloptilia honoratella* (Rebel) Immigrant/colonist Aug-May
First recorded in Britain in Surrey in 2017 with a second record in Kent in 2019. Spreading quite quickly. Recorded to light at HQ on 21 September 2024 (SH/IDH confirmed DS).
- 15.014 (293) **Garden Stilt** *Gracillaria syringella* (Fabricius) Common Mar-Nov
Leaf-mines found on 14 September 1993 (EB), in The Elms on 22 September 2013 and widely around the Estate on 27 November 2015 (DS), on 15 June 2018 and on 24 June 2019 (KR). Field records of adults 01 June 1994, in The Elms on 10 April 2014 and near the Field Centre on 12 April 2017. Adults to light on the Estate or at HQ on 22 August 2016, on 15 July 2017, in the Whitehouse on 03 August 2018, at Sandown Road on 07 July (IDH M gen det DS) and at HQ light on 01 August 2020, on 24 June 2022, two in The Elms on 01 September 2023 (MS) and singles on 03 July (CV&KM) and 06 August (KB) and at HQ on 13 August (IDH gen det) and on 06 (SH/IDH) and 07 September 2024 (LN&MGo).
- 15.015 (294) **Ribwort Stilt** *Aspilapteryx tringipennella* (Zeller) Common Apr-Oct
Seven records on the Estate from 1957-2005. Since 2010 small numbers recorded to light on the Estate or at HQ in 2011, 2013 to 2016 and 2018-2024. Recorded between 24 April and 21 September. Signs of a larva were recorded on 02 May 2022 in the Gullies (DS).
- 15.016 (297) **Yellow-dotted Stilt** *Euspilapteryx auroguttella* (Stephens) Common May-Aug
Leaf-mines found by FS on St. John's Wort in Whitehouse November 2009 and on Royal St. George's Golf Course on 13 October 2021 (SZW confirmed DS).
- 15.019 (313) **Oak Cloud** *Acrocercops brongniardella* (Fabricius) Local Year round
Leaf-mines found by FS on Holm Oak in The Cellars October 2010 and October 2011, four leaf-mines in The Cellars gardens on 27 November 2015 (DS), leaf-mine in Middle Field on 20 October 2017 (DS) and again on 15 June (AM et al) and to light in the Whitehouse on 03 August (FS) 2018. Signs of a larva were recorded on 02 May 2022 in the Gullies (DS).
- 15.021 (314) **Mugwort Stilt** *Leucospilapteryx omissella* (Stainton) **Nat S B** May-Jun, Jul-Sep
Occupied mines found on Mugwort on Restharrow Scrape on 28 June 2012 (FS), several mines recorded on 3 November 2015 (TD), a leaf-mine on 15 June 2018 (AM et al) and on 13 and 25 June 2020 including in the Oasis (AM/DS).
- 15.022 (310) **Apple Nymph** *Callisto denticulella* (Thunberg) Common Apr-Jul
Leaf-mine recorded in The Elms on 20 October 2017 (DS).
- 15.025 (301) **Birch Parornix** *Parornix betulae* (Stainton) Common Apr-Jun, Jul-Oct
Leaf-mine recorded near the Field Centre on 20 October 2017 (DS).

- 15.028 (303) **Hawthorn Parornix** *Parornix anglicella* (Stainton) Common Apr-May, Aug
Leaf-mines taken on 14 September 1993 (EB), 01 November 2009 (on Hawthorn FS), 18 July 2010 (FS), 20 July 2011 (FS), 27 November 2015 (DS) and 27 July 2016 (DS). Larval feeding signs recorded on 20 September 2012 (TD). Recorded at HQ light in May (gen det TD) and leaf-mine recorded near the Field Centre on 20 October 2017 (DS). In 2018 a leaf-mine was recorded on Hawthorn on the Estate on 15 June (AM et al) as well as an adult male (DS gen det) and single adult males were recorded to light on 27 April (IDH) and 08 May (SZW) (both gen det TD). Leaf-mines were recorded on 13 and 25 June 2020 including in the Oasis (AM/DS) and near the Field Centre on 02 September 2023 (MS). Unconfirmed adults to light at HQ annually including on 12 June and 03 July 2021.
- 15.029 (304) **Hazel Parornix** *Parornix devoniella* (Stainton) Common May-Jun, Jul-Aug
Leaf-mines found by FS on Hazel in Elms November 2009 and leaf-mine recorded near the Field Centre on 20 October 2017 (DS). A leaf fold was observed on Hazel in The Elms on 02 November 2020 (SZW/DS) and a leaf-mine recorded in The Elms on 02 September 2023 (MS).
- 15.032 (308) **Southern Blackthorn Parornix** *Parornix finitimella* (Zeller) Common Apr-Jun, Jul-Sep
Leaf-mine recorded near the Field Centre on 20 October 2017 (DS) and adult males attracted to HQ light on 29 May (SZW, gen det DS) and 20 July 2018 (IDH, gen det DS).
- 15.033 (309) **Blackthorn Parornix** *Parornix torquillella* (Zeller) Common Apr-Jun, Jul-Sep
Leaf-mine recorded near the Field Centre on 20 October 2017 (DS). A female attracted to HQ light on 15 June 2019 (SZW gen det TD), an adult to light in the Oasis on 25 June 2020 (gen det DS), one at HQ on 20 May 2022 (SH/IDH, gen det DS) and on 13 August 2024 (SH/IDH, gen det DS).
- 15.034 (315) **White Oak Leaf-miner** *Phyllonorycter harrisella* (Linnaeus) Common May-Jun and Autumn
Leaf-mine (pupal cremaster examined) found in the Gullies on 27 November 2015 (DS). Singles recorded at light on 20 and 21 July 2016 (IDH). Leaf-mine (pupal cremaster examined) found in Middle Field on 20 October 2017 (DS).
- 15.037 (318) **Hornbeam Leaf-miner** *Phyllonorycter tenerella* (Joannis) Local May, Aug
Recorded on 01 June 1994 (ACJ confirmed EB).
- 15.039 (320) **Common Oak Leaf-miner** *Phyllonorycter quercifoliella* (Zeller) Common Apr-Jun, Jul-Sep
Five leaf-mines (pupal cremaster examined) found in the Gullies on 27 November 2015 (DS) and in Middle Field on 20 October 2017 (DS). A leaf-mine confirmed by case in the Oasis on 25 June 2020 (DS).
- 15.040 (321) **Ilex Leaf-miner** *Phyllonorycter messaniella* (Zeller) Common Apr-Nov
Leaf-mines found by FS on Oak in Elms November 2009 and by DS on Holm Oak in The Cellars on 27 November and in the Whitehouse on 11 December 2015, in Middle Field on 20 October 2017 (DS) and a leaf fold recorded in the Gullies on 02 May 2022 (DS). Leaf-mine tenanted on Hornbeam on 14 June and emerged on 25 June 2024 (SZW). Recorded to light at HQ on 24 August 2023 (SZW).
- 15.041 (321a) **Plane Leaf-miner** *Phyllonorycter platani* (Staudinger) Local late Apr-May, Aug
First found in London in 1989. The first record for the Recording Area was of ten leaf-mines on London Plane on the Green Wall on 04 October 2021 (SZW, confirmed DS) and again two on the Green Wall on 10 November 2022 (IDH/SZW).
- 15.043 (323) **Common Thorn Leaf-miner** *Phyllonorycter oxyacanthae* (Frey) Common Apr-Jun, Jul-Sep
Leaf-mines in Hawthorn on 12 October 1994 (EB), November 2009 (FS), November/December 2015 (DS), 27 July 2016 at Prince's plantation (DS), near the Field Centre on 20 October 2017 (DS), on Hawthorn on the Estate on 15 June 2018 (AM et al), in the Oasis on 25 June 2020 (AM/DS) and on the Estate on 07 August (SZW), in The Elms on 25 September 2021 (MS/PS/DE) and near HQ on 02 September 2023 (MS).
- 15.049 (329) **Blackthorn Leaf-miner** *Phyllonorycter spinicolella* (Zeller) Common May-Jun, Aug
Leaf-mines found by FS on Blackthorn in Elms and Oasis November 2009, by DS in November 2015, near the Field Centre on 20 October 2017 (DS) and on 02 September 2023 (MS).
- 15.050 (330) **Cherry Leaf-miner** *Phyllonorycter cerasicolella* (Herrich-Schaffer) Local May, Jul-Aug
Leaf-mines recorded in Middle Field on 20 October 2017 (DS) and on Worth Track on 31 October 2024 (SZW).
- 15.051 (331) **Viburnum Leaf-miner** *Phyllonorycter lantanella* (Schrank) Local May, Aug
Leaf-mines found by FS on Wayfaring Tree in Elms November 2009, by DS in November 2015, in Middle Field on 30 November 2020 (SZW/DS) and four on Worth Track on 31 October 2024 (SZW).

- 15.052 (332) **Hawthorn Leaf-miner** *Phyllonorycter corylifoliella* (Hübner) Common Apr-Jun, Jul-Oct
Leaf-mines taken on 14 September 1993 (EB) and on Hawthorn in November 2009 (FS), 20 September 2012 (TD), November 2015 (DS), 27 July 2016 at Prince's plantation (DS), near the Field Centre on 20 October 2017 (DS) in the Oasis on 25 June 2020 (AM/DS) and in The Elms on 21 (SZW) and 25 September 2021 (MS/PS/DL).
- 15.053 (332a) **Firethorn Leaf-miner** *Phyllonorycter leucographella* (Zeller) Common May-Oct
Leaf-mines found by FS on *pyracantha* at Observatory November 2009, on 20 September 2012 (TD), mines and adults 2014 (DG), mines 2016 (DS), leaf-mines near the Field Centre on 20 October 2017 (DS) and on 13 June 2020 and on 11 November 2021 (SZW/DS). Single adults to HQ light on 19 and 21 July and 22 August 2017, 26 May, 03 June and 11 July 2018, 30 May 2019 (IDH) and 25 August 2022.
- 15.054 (333) **Willow Leaf-miner** *Phyllonorycter viminiella* (Sircom) Common Apr-Jun, Jul-Sep
Leaf-mine collected in Middle Field on 20 October 2017 and reared to adult (DS/FS) and an adult emerged on 18 February 2018 from a leaf-mine collected from Weeping Willow in Middle Field on 08 October 2017 (FS). A leaf-mine was identified at Lookers Cottage on 01 November 2024 (SZW/DS). A male was recorded on 27 June 2022 (SB, gen det). A single was recorded to light at HQ on 29 August 2024 (IDH gen det DS).
- 15.056 (335) **Grey Willow Leaf-miner** *Phyllonorycter salicicolella* (Sircom) Common May, Aug
Recorded on 30 July 1965, 01 June 1994 raised to adult (EB), taken as leaf-mines in Sallow on 12 October 1994 (EB) and adult bred from mines found on Sallow in November 2009 (FS). Adults were recorded at HQ light on 28 May 2018 (IDH, M gen det DS) and on 06 July 2022 (IDH, gen det DS).
- 15.057 (336) **Goat Willow Leaf-miner** *Phyllonorycter dubitella* (Herrich-Schaffer) **Nat S B** May-Jun, Aug
Leaf-mine collected from *Salix* at SBBO in 2015 and reared to adult on 11 April 2016 (DS).
- 15.058 (337) **Large Willow Leaf-miner** *Phyllonorycter hilarella* (Zetterstedt) Common May-Jun, Jul-Sep
A male recorded at HQ feeders light on 23 June 2019 (SZW, gen det TD).
- 15.060 (339) **Gorse Leaf-miner** *Phyllonorycter ulicicolella* (Stainton) **Nat S B** Jun-Aug
Recorded to light at 31 August 2024 (IDH gen det DS).
- 15.063 (341) **Beech Leaf-miner** *Phyllonorycter maestingella* (Müller) Common May-Jun, Aug
Larval signs recorded on Green Wall on 17 October 2022 (IDH/SZW) and a leaf-mine on 24 November 2024 (RD/DS).
- 15.064 (342) **Nut Leaf Blister Moth** *Phyllonorycter coryli* (Nicelli) Common May, Aug
Leaf-mines found by FS on the Estate on Hazel in November 2009, near the Field Centre on 20 October 2017 (DS), on Hazel in The Elms on 30 December 2020 (SZW/DS) on 25 September 2021 (MS/PS/DL) and on 02 September 2023 (MS).
- 15.065 (343) **Dark Hornbeam Leaf-miner** *Phyllonorycter esperella* (Goeze) Local May, Aug
Six leaf-mines recorded on Hornbeam in the Middle Field on 10 August 2022 (SZW).
- 15.066 (344) **Grey Alder Leaf-miner** *Phyllonorycter strigulatella* (Leinig & Zeller) Local May, Jul-Aug
Leaf-mines found on Grey Alder on New Downs 22 October 2008 (FS), three on 22 June 2019 (KR) and ten on 01 November 2024 (SZW).
- 15.067 (345) **Common Alder Leaf-miner** *Phyllonorycter rajella* (Linnaeus) Common May, Aug
Leaf-mines on Alder in Haven 22 October 2008 (FS), in Elms and Whitehouse in November/December 2015 (DS), in the Whitehouse on 20 October 2017 (DS), in the Oasis on 25 June 2020 (AM/DS) and six in the Haven on 04 October (SZW/DS). An adult female as attracted to the HQ light on 23 August 2022 (IDH, gen det DS).
- 15.070 (348) **Sandhill Leaf-miner** *Phyllonorycter quinqueguttella* (Stainton) **Nat S B** May, Aug
Restricted in Kent to Sandwich Bay and Dungeness. Recorded on the Estate on 21 August 1957, 08 August 1985 and 30 September 1986. Mines found fairly commonly on Creeping Willow in Little Gully in November 2009 (FS), one leaf-mine recorded in the Little Gully on 16 September 2011 (TD), mines present on 20 September 2012 from which one adult was reared (TD), on 12 July and 2 October 2014 (TD), July (TD) and November 2015 (DS & TD) and on 31 October 2016 (TD). Four tenanted mines were recorded on Restharrow Scrape on 20 October 2017 (DS) and three leaf-mines were identified in the Little Gully on 27 September 2018 (DT). Five larvae and leaf folds were recorded in the Little Gully on 18 (SZW/DS) and several on 25 September 2021 (MS/PS/DL).
- 15.0715 (349a) **Medick Leaf-miner** *Phyllonorycter medicaginella* (Gerasimov)
A first for UK. Leaf-mines were recorded on the northern most reaches of the Kent Coastal Footpath between Prince's GC and 100 Acre on White Melilot on 03 October 2018 (BA). As mines were also found on White Melilot on New Downs it is thought to be a recent coloniser from the continent.

- 15.074 (352) **Shining Elm Leaf-miner** *Phyllonorycter schreberella* (Fabricius) Common May, Aug
Leaf-mines found by FS on Elm in Elms November 2009, on 20 September 2012 (TD), November 2015 (DS), in Middle Field on 20 October 2017 (DS), in the Oasis on 25 June 2020 (AM/DS) and in The Elms on Elm on 25 and 30 September 2021 (SZW/DS).
- 15.075 (353) **Common Birch Leaf-miner** *Phyllonorycter ulmifoliella* (Hübner) Common Apr-May, Late Jun – Sep
Leaf-mines found by FS on Birch in Oasis November 2009, Gullies in November 2015 (DS), near the Field Centre on 20 October 2017 (DS), on 13 June, in the Oasis on 25 June 2020 (AM/DS), in The Elms on 25 September 2021 (MS/PS/DL) two and in the Haven and five in Waldershare Gully on Birch on 02 October 2024 (SZW).
- 15.076 (354) **Honeysuckle Leaf-miner** *Phyllonorycter emberizaepenella* (Bouche) Local May, Aug
Adult recorded at light on 23 May 1993 (IF confirmed EB). Tenanted leaf mines found by DS on Snowberry near Middle Field in November 2015 and in The Elms on 20 October 2017 (DS).
- 15.078 (356) **Elm Leaf-miner** *Phyllonorycter tristigella* (Haworth) Common May, Aug
Leaf-mines in Elm on 12 Oct 1994 (EB) and in The Elms in November 2009 (FS), November 2015 (DS), in Middle Field on 20 October 2017 (DS), in the Oasis on 25 June 2020 (AM/DS) and in the Cellars on 18 (SZW/DS) and in The Elms on 25 September 2021 (MS/PS/DL). Adults to light in The Elms on 22 July (SB) and at HQ on 03 September 2024 (SH/IDH).
- 15.079 (357) **Lesser Alder Leaf-miner** *Phyllonorycter stettinensis* (Nicelli) Common May, Aug
Leaf-mines found by FS on Alder in Haven November 2009, on 20 September 2012 (TD), in Elms in November 2015 (DS), in Whitehouse and Middle Field on 20 October 2017 (DS), in the Oasis on 25 June 2020 (AM/DS), three in the Haven on 04 October 2022 (SZW/DS) and two on New Downs on 01 November 2024 (SZW). Six adults in Middle Field and Haven on 18 May 2014 (FS) and an adult to HQ light on 20 July 2020 (IDH M gen det DS).
- 15.080 (358) **Large Alder Leaf-miner** *Phyllonorycter froelichiella* (Zeller) Common May-Jun, Aug
Leaf-mines recorded in the Whitehouse on 20 October 2017 (DS), two in the Haven on 04 October 2022 (SZW/DS) and on New Downs on 01 November 2024 (SZW). An adult to light at HQ on 02 August 2024 (SH/IDH).
- 15.081 (359) **Hazel Leaf-miner** *Phyllonorycter nicellii* (Stainton) Common Apr-May, Jul-Oct
Leaf-mines found by FS on Hazel in Elms November 2009, near the Field Centre on 20 October 2017 (DS), two on Hazel in The Elms on 02 November 2020 (SZW/DS), on 25 September 2021 (MS/PS/DL) and on 02 September 2023 (MS). An adult attracted to HQ light on 20 August 2019 (IDH).
- 15.082 (360) **Shining Alder Leaf-miner** *Phyllonorycter kleemannella* (Fabricius) Common Apr-Jun, Jul-Aug
Leaf-mines found by FS on Alder in Elms and Haven November 2009, in Elms in November 2015 (DS) and in the Whitehouse on 20 October 2017 (DS). One-two adults in Middle Field on 16 May 2013, 18 May 2014 (FS), to HQ light on 04 August 2017 (IDH), to light in the Whitehouse on 03 August 2018 (FS) and observed in Waldershare Gully on 09 May 2019 (SZW), two in the Haven on 04 October 2022 (SZW/DS) and a single on Waldershare Avenue on 03 March 2024 (RL/PS/BH).
- 15.083 (361) **Banded Honeysuckle Leaf-miner** *Phyllonorycter trifasciella* (Haworth) Common Apr-Nov
Leaf-mines found by FS on Honeysuckle in Whitehouse and kept until adult in 2009 and 2010. Adult in Oasis/Whitehouse on 23 April 2011.
- 15.084 (362) **Maple Leaf-miner** *Phyllonorycter acerifoliella* (Zeller) Common May-Jun, Jul-Aug
Leaf-mines found by FS on Field Maple in Elms November 2009, by DS in November 2015, in Middle Field on 20 October 2017 (DS) and in The Elms on 25 September 2021 (MS/PS/DL). Adult recorded at light 20 July 2016 and on 16 May 2019 (IDH).
- 15.086 (364) **Sycamore Leaf-miner** *Phyllonorycter geniculella* (Ragonot) Common Apr-May, Jul-Aug, late Aug-Oct
Leaf-mines in Sycamore on 12 October 1994 (EB), on Sycamore in Elms in November 2009 (FS), November 2015 (DS), in Middle Field on 20 October 2017 (DS) and on Sandown Road on 26 July 2024 (SZW).
- 15.087 (365) **Poplar Leaf-miner** *Phyllonorycter comparella* (Duponchel) **Nat S A** Aug, from Oct (overwinters as Ad)
Two leaf-mines were observed on Grey Poplar on the Worth Track on 12 September 2021 (FS).
- 15.089 (366a) **Horse-chestnut Leaf-miner** *Cameraria ohridella* (Deschka & Dimi) Common Apr-Jun, Jul-Sep.
First recorded in the UK in 2002. Its leaf-mines have been found regularly on the Estate on Horse-chestnut from 2005 onwards and an adult at light in the Whitehouse on 02 August 2014 (FS). Seven adults were recorded to HQ light over five dates from 06 July to 01 August 2017. An adult was attracted to light in the Whitehouse on 02 August 2019 (FS), at HQ on 19 August 2021 (IDH, F gen det DS), five in the Haven on 24 July (FS) and singles in Middle Field on 31 July and 04 August 2022 (KB) and at HQ on 19 July (SW) and in The Elms on 16 September 2024 (KB).

- 15.090 (367) **Willow Maze-miner** *Phyllocnistis saligna* (Zeller) Local Jun-Jul, Sep-Apr
Recent DNA work has shown *P.saligna* is actually a complex of four species. In the UK we are currently unsure what ones are present and how to tell them apart in leaf-mines. To be reviewed.
Leaf-mines recorded in the Whitehouse on 20 October 2017 (DS), five on the Green Wall on 03 October 2022 (SZW/DS) and two at Lookers Cottage on 01 November 2024 (SZW).
- 15.092 (368) **Poplar Maze-miner** *Phyllocnistis unipunctella* (Stephens) Common Jul, Sep-Apr
Mines found by FS on Black Poplar on 27 September 2009, in Middle Field in June 2010 and seven on the Green Wall on 03 October 2022 (SZW/DS). Two adults in The Elms on 18 May and one in the Whitehouse on 07 June 2014 (FS).
- 15.093 (369) **Kent Maze-miner** *Phyllocnistis xenia* (Hering) **Nat S B** Jul-Aug, Sep-Apr
Common across Kent on White Poplar. Recorded on the Estate on 29 June 2006 and in the Oasis/Whitehouse on 23 April 2011, leaf-mines recorded on 20 September 2012 (JL, TD), 25 August 2013 (P&PH), in The Elms on 10 April and 11 May 2014 (FS), in Middle Field on 20 October 2017 (DS), on 15 June, 04 July on White Poplar and on 27 September 2018 in the Little Gully and on 13 and 25 (Oasis) June 2020 (AM/DS). Three leaf-mines were recorded on White Poplar in the Little Gully on 18 (SZW/DS), one near HQ on 25 September 2021 (MS/PS/DL) and 20 on New Downs on 01 November 2024 (SZW). Adults were recorded as a field observation in The Elms on 07 April (DS) and to light in the Whitehouse on 04 August 2017(FS), in Restharrow Dunes on 12 August 2020 (FS) and in the Haven on 12 (two) and 24 July 2022 (FS), near HQ on 02 September 2023 (MS) and at HQ on 18 July 2024 (SW).

YPONOMEUTIDAE

- 16.001 (424) **Bird-cherry Ermine** *Yponomeuta evonymella* (Linnaeus) Common Jun-Sep
Recorded in July 1994 and 1995 (abundant in The Elms) and up to 37 trapped at HQ in June 2009, with up to six in July 2012, 16 in July 2013 and nine in July 2014. Recorded from 2017 to 2024 between 29 May and 23 August, e.g., in 2017 47 individuals recorded at HQ light over nine dates with a maximum of 30 on 21 June and in 2018 10 individuals were recorded at light at HQ and in the Whitehouse over seven nights.
- Yponomeuta padella/malinellus/cagnagella*
The current (2021) thinking on these species is that the adults are extremely difficult to separate even by gen det. The larval webs/larvae on the correct food plant is diagnostic. Therefore, the following records for these species prior to 2021 without that detail should be seen as probable. From 2022 many individuals of this complex are recorded to light every year as aggregate.
- 16.002 (425) **Orchard Ermine** *Yponomeuta padella* (Linnaeus) Common Jul-Aug
Singles at light on the Hundred Acre Field on 03 August 1985 and at HQ light on 25 June 2002. In 2009 up to four recorded at HQ light on seven dates from 20 July – 22 August, up to three on four dates from 14-24 Jul 2011 and small numbers in 2012 and 2015. In 2016 recorded at HQ light on 4 dates from 06 to 15 July (IDH). In 2017 larval tents were recorded in the Oasis on 13 April (SZW) and a single adult to HQ light on 09 July (IDH). A pupa was recorded on the Estate on 13 June (AM/DS) and single adults to HQ light on 30 July and 07 August 2020. Four larval webs were recorded on the Estate on 11 June 2022 (SZW), six larvae were recorded in the Oasis on 22 May 2023 (SZW). Twenty larvae were observed in the Oasis on 23 May and 30 in Jubilee Field on 06 June 2024 (SW).
- 16.003 (426) **Apple Ermine** *Yponomeuta malinellus* (Zeller) Local Jul-Aug
Recorded at HQ light on 06 and 12 August 2016 (IDH), singles to light on six nights on the Estate and at Sandown Road from 01 July and 12 August 2020 and singles on four nights at HQ and on the Estate between 12 June and 08 September 2021. Ten larval webs were identified on New Downs on 07 June 2022 (SZW). 30 larvae were observed in Jubilee Field on 06 June 2024 (SZW).
- 16.004 (427) **Spindle Ermine** *Yponomeuta cagnagella* (Hübner) Common Jun-Sep
Recorded on the Estate on 12 August 1985 and up to three at HQ light between 01 July and 20 August 2010. At least 40 larvae and tents in Middle Field on 15 June 2010. Two in the Whitehouse on 09 August 2013 and up to six in 2015. Singles recorded at HQ light on 16 and 27 July 2016 (IDH). Larvae were recorded in Middle Field on 22 April (DS), ten adults in Middle Field on 08 July (FS), one or two adults were recorded at HQ light over three dates from 10 to 19 July (IDH) and three to light in the Whitehouse on 04 August (FS) 2017. In 2018 larval tents were observed in Middle Field on 16 May, larvae were recorded on Spindle on the Estate on 15 June and eight adults were recorded at the HQ light on three dates between 11 and 15 July. Larval webs were recorded on the Estate on 13 June 2020 (AM/DS). A single adult was recorded at HQ light on 16 July 2021 (IDH). Seven larval webs were recorded on 06 June 2022. Larvae were recorded on 10 May (20 Big Gully) and a single on 27 June 2023 at Chequers (SZW). A larva was observed feeding on Spindle on Waldershare Avenue on 03 March (RL/PS/BH), 25 in the Oasis on 13 March and five in Jubilee Field on 06 June 2024 (SZW).

16.005 (428)	Willow Ermine <i>Yponomeuta rorrella</i> (Hübner)	Local	Jul-Aug
	Three at HQ light on 13 July 2010, up to four at HQ light on three dates from 19-25 July 2011, up to 10 at HQ in July 2013 and four in July 2014. Single recorded at HQ light on 5 August 2016 (IDH) and larval webs frequent in 2016 (FS). Singles to light in the Whitehouse on 04 August 2017 (FS), on Princes Beach on 28 July 2019 (DG) and in Hundred Acre on 17 July 2020 (MB). Single adults were recorded to HQ light on three dates in late August 2021. Three adults were attracted to light on Prince's Beach on 18 July 2022 (JHC) and 77 to light at HQ or in Middle Field over 19 nights between 08 July and 21 August 2023. Ten adults were observed in Waldershare Gully on 23 March and two to light at HQ on 17 July 2024.		
16.006 (429)	Scarce Spindle Ermine <i>Yponomeuta irrorella</i> (Hübner)	pRDB2	Jul-Aug
	Recorded to light in The Elms on 01 September 2023 (MS).		
16.007 (430)	Black-tipped Ermine <i>Yponomeuta plumbella</i> (Denis & Schiffermüller)	Local	Jul-Aug
	Recorded on the Estate on 12 August 1995, at HQ light on 25 July 2008, Larval feeding signs recorded in Middle Field on 22 April (DS) and recorded on Spindle on 08 July 2017 (FS). Adults were recorded to light at HQ on 13 July 2018, in The Elms area on 23 and at HQ on 28 August 2021 (IDH, M gen det DS) and a single to light at HQ on 06 August 2024 (IDH).		
16.008 (431)	Orpine Ermine <i>Yponomeuta sedella</i> (Treitschke)	Local	Apr-May, Jul-Aug
	Recorded on the Estate in August 1993 (IF confirmed EB).		
16.010 (435)	Ash Spinner <i>Zelleria hepariella</i> (Stainton)	Local	Jul-Apr
	A single to HQ light on 16 July 2017 (IDH/SZW).		
16.014 (436)	Little Buff-tip <i>Pseudoswammerdamia combinella</i> (Hübner)	Common	Mar-Jun
	Up to three at MV light on six dates from 26 April – 23 May 2010 and one in the Whitehouse on 10 April 2014 (FS). Singles observed on the Green Wall on 06 May 2019 and in Middle Field on 29 April 2020 (SZW) and to light at HQ on 30 April 2024 (IDH).		
16.015 (437)	Birch Drab <i>Swammerdamia caesiella</i> (Hübner)	Common	May-Jun, Jul-Aug
	Fresh singles recorded at HQ MV light on 16, 24 and 31 July 2016 (IDH), on 17 June 2017, on 12 and 13 July 2018, on 23 and 25 June and 16 July 2020, 09 and 24 July 2021 (IDH), at Sandown Road on 17 June 2022 (SH/IDH), at HQ on 02, 07, 08 (2) and 10 July 2023 (SH/IDH) and on 22 June 2024 (IDH).		
16.017 (438)	Copper-fringed Drab <i>Swammerdamia pyrella</i> (Villers)	Common	Apr-Sep
	Leaf-mines in Hawthorn on 12 October 1994 (EB), at HQ MV light and at Elms on 25 June 2005 and one-two in Whitehouse on 09 August 2013 (FS) and 07 August 2015. Attracted to light in Restharrow Dunes on 12 August (FS) and Oasis on 07 August 2020 (AM/DS), two in the Haven on 12 July 2022 (FS), singles at HQ on 10 August 2023 (IDH) and on 14 August 2024 (IDH gen det DS).		
16.018 (439)	Rowan Drab <i>Swammerdamia compunctella</i> (Herrich-Schäffer)	Nat S A	Jun-Jul
	Recorded on the Estate on 10 August 1993 (IF confirmed EB) and a well-marked adult to HQ light on 24 July 2021 (IDH).		
16.019 (440)	White-headed Drab <i>Paraswammerdamia albicapitella</i> (Scharfenberg)	Common	May-Sep
	One in the Whitehouse on 25 June 2009, two in the Whitehouse on 08 July 2010 and singles at HQ light on 13 July 2014, 01 July 2015, 09 and 26 July 2016 (IDH), 22 June 2017, 26 July and 03 August 2018, 26 May (DT) and 09 July 2019 (IDH), and in the Oasis on 25 June and at Sandown Road on 31 July 2020. Singles were recorded to light at HQ or in the Haven on six dates between 12 June and 05 September 2022 (IDH & FS), this last being a male (gen det DS), at HQ on 09 June and 04 and 05 September 2023 (IDH) and singles on six nights between 23 June and 27 July 2024.		
16.020 (441)	Hawthorn Drab <i>Paraswammerdamia nebulella</i> (Haworth)	Common	Jun-early Oct
	Recorded on the Estate in August/September 1993. Ten were recorded in the Whitehouse on 08 July 2010, two there on 11 June 2011 and 09 August 2013 (FS). Singles at HQ light on 21 June 2014, 09 July 2015 with fresh individuals recorded in the field on 24 June and six other dates in 2015. Since when one to three have been recorded to light over several nights on the Estate including HQ, Oasis and Restharrow Dunes and at Sandown Road from 2016-2024 between 14 June and 08 August including singles on 24 July 2021 (IDH, F gen det DS) and 16 July 2022 (IDH, gen det DS). There was a field observation of 20 on Hawthorn in the Haven on 28 June 2024 (SZW).		
16.023 (444)	Ringed Needle-miner <i>Ocnerostoma piniariella</i> (Zeller)	Nat S B	Jun-Aug
	Leaf-mine and larval spinning with pupa found near The Elms on 27 November 2015 (DS) confirmed from microscopic examination of pupa. Whilst adults require gen det, the two <i>Ocnerostoma</i> species can be separated based on pupal morphology.		
16.024 (445)	Plain Needle-miner <i>Ocnerostoma friesei</i> (Svensson)	Local	Mar-May, Aug, (Nov)
	A male was recorded to light at HQ on 09 May 2022 (IDH, gen det DS).		

YPSOLOPHIDAE

- 17.001 (451) **Spindle Moth** *Ypsolopha mucronella* (Scopoli) Local Jun-Aug, Oct-May
Singles to light at HQ on 17 May 2013, 15 March and 02 April 2014, 23 March and 05 April 2016 (IDH), 03 May 2017, 27 and 30 May 2019 and in The Elms area on 12 May 2021 (KB).
- 17.002 (452) **Pale Honeysuckle Moth** *Ypsolopha nemorella* (Linnaeus) Local Jun-Aug
Recorded on the Estate on 23 June and 04 July 1993 and in the Whitehouse on 25 June 2009 (FS) and 15 July 2016 (FS) and to light in the Whitehouse on 08 June 2017 (PF) and on 03 August 2018 and in the Oasis on 25 June 2020.
- 17.003 (453) **Honeysuckle Moth** *Ypsolopha dentella* (Fabricius) Common Jun-Sep
Recorded on the Estate in August 1993 and on 31 July 2010.
- 17.005 (455) **Tufted Scallop** *Ypsolopha scabrella* (Linnaeus) Common Jul-Sep
Recorded on the Estate on 06 July 2001, 23 July 2002 and at HQ MV light on 21 July 2004. Since recorded in small numbers in 2009 (up to nine) and 2010 to 2024 between 03 July and 01 September.
- 17.008 (458) **Short-barred Ochre** *Ypsolopha alpella* (Denis & Schiffermüller) Local Jul-Oct
One at HQ light on 05 September 2013 (JGCB).
- 17.010 (460) **White-shouldered Ochre** *Ypsolopha parenthesella* (Linnaeus) Common Jul-Oct
Singles to light at HQ on 18 August 2010 (PDH/JGCB), in the Big Gully on 02 September 2023 (MS) and in the Elms on 03 July 2024 (CV&KM).
- 17.012 (462) **Pied Rabbit Moth** *Ypsolopha sequella* (Clerck) Common Jul-Oct
Singles at HQ light on 10 August 2010 (PDH) and 23 July 2020 (SH/IDH) and in Middle Field on 23 August (KB), in Big Gully on 01 (five) (MS) and in The Elms (KB) on 15 September 2023.

PLUTELLIDAE

- 18.001 (464) **Diamond-back Moth** *Plutella xylostella* (Linnaeus) Migrant Mar-Dec
A very common migrant, attracted to light most years up to 2024 from 01 January – 10 December. Extremely abundant in 2009, when at least 7,500 were attracted to an MV trap in the HQ car park on 02 July, with further influxes including 120 on 05 September. Peak counts in 2014 included 1,154 on 12 July and 2,400 on 18 July and in 2016 included 1,700 on 07 June and 3,800 on 08 June at HQ light and 2,000+ on St Georges on 07 June (IDH).
- 18.007 (469) **White-barred Pointer** *Eidophasia messingiella* (Fischer von Röslerstamm.) Local Jun-Jul
Recorded on the Estate in June 1989, 1993 (up to three), several to light in The Elms on 24 June 2005 (TD), on 12 and 23 (TD) June 2006 (TD) and in small numbers in 2009, 2010, 2012 -2015, 2017-2023 between 01 June and 26 July.

GLYPHIPTERIGIDAE

- 19.001 (470) **Reed Minor** *Orthotelia sparganella* (Thunberg) Local Jul-Aug
Recorded on the Estate in small numbers in 1950, 1975, 1993, 2003, 2006, 2009, 2010, 2012-2024 between 12 July and 15 September.
- 19.002 (397) **Eyed Rush Moth** *Glyphipterix thrasonella* (Scopoli) Common May-Aug
Singles trapped at Observatory on 6 July 2009 (JGCB), 25 May 2019 (DT), a male on 11 June 2023 (IDH gen det DS) and on 03 June 2024 (GJL).
- 19.003 (396) **Woodrush Moth** *Glyphipterix fuscoviridella* (Haworth) Common Apr-Jun
Singles recorded on 23 May 1993 and 15 May 2005. Two in The Elms on 28 May 2015 and found to be abundant by day, especially in the Oasis field and Whitehouse area in 2009 and 2014 (FS). Two recorded in the field on 01 May 2016 (FS), one on Restharrow Dunes on 31 May 2018, 12 in the Whitehouse on 07 May 2019 (SZW), up to 35 on 25 April and 07 May 2020, 15 on 12 May 2021 and 14 on 04 May and 45 on 13 May 2022 in the Whitehouse. Adults recorded to light at HQ (IDH) and in the Whitehouse (two, SZW) on 01 and 02 June 2021. Thirty plus adults observed in the Whitehouse on 10 May 2023 (SZW) and up to 170 observed across the Estate in the period from 03 to 13 May 2024.
- 19.007 (391) **Cocksfoot Moth** *Glyphipterix simpliciella* (Stephens) Common May-Jul
Common in grassland throughout the area (FS) and recorded on the Estate in 1993, 2003, 2005, 2009, 2010, 2014 and 2017-2023 between 15 May and 17 August. In 2017 there was an estimate of c2000 along the Green Wall on 14 May. In 2020 singles recorded on 15, 20 and 21 May at light at Sandown Road.

- 19.010 (472) **Fleabane Moth** *Digitivalva pulicariae* (Klimesch) Local Year round
One in the Whitehouse on 09 August 2013 and three at HQ light on 16 July 2014, with singles on 19 July and 25 and 27 October. One at HQ light on 14 April 2015. In 2016 two adults were recorded at HQ light on 16 and 17 July and singles on six dates between 15 July and 14 September (IDH). Singles were recorded at HQ light on 16 July and 04 August 2017. Recorded with increasing regularity up to 2020 between 14 April and 27 October. After none in 2021 singles were recorded to HQ light on 09 May, 27 June and 13 July 2022. Singles were observed in the field or recorded to light at HQ, in The Elms or on the beach on four dates between 27 June and 22 July 2024. A leaf-mine was recorded on Fleabane on the Estate on 15 June 2018 (AM et al) and larval feeding signs on Fleabane in the Oasis on 25 June 2020.
- 19.014 (476) **Speckled Bittersweet Moth** *Acrolepia autumnitella* (Curtis) Common Year round
Recorded on the Estate on 08 September 1985. Mines found on Bittersweet in November 2009 (FS) and June 2010 (FS), November 2015 and 27 July 2016 at Prince's plantation (DS). Singles at HQ light on 06 April 2011 and The Elms on 10 April 2014 (FS). A leaf-mine was recorded in Middle Field on 20 October 2017 (DS), on 15 June 2018 on the Estate, and on 13 June on the Estate and 25 June 2020 in the Oasis. Four leaf-mines were recorded on the Estate on Woody Nightshade on 22 August 2024 (SZW). An adult was observed in the field on 16 October 2018 and on 18 July 2024 in the Whitehouse. A female was recorded to HQ light on 25 October 2021 (IDH, gen det DS).

ARGYRESTHIIDAE

- 20.005 (409a) **Triple-barred Tip Moth** *Argyresthia trifasciata* (Staudinger) Local Apr-Jun, late Jul-Aug
Taken at MV light in Middle Field on three dates between 04-24 June 2010 and singles at HQ light on 05 May and 02 August (FS) 2014, 22 May 2017 (IDH) and 24 May 2019. A single was attracted to light at Sandown Road on 19 May 2020.
- 20.007 (409b) **Cypress Tip Moth** *Argyresthia cupressella* (Walsingham) Local May-early Aug
First recorded in Britain in 1997. First record for SBBOT a single field observation in Middle Field on 21 June 2016 (FS). Between 2017 and 2019 six-16 individuals were recorded at HQ light between 29 May and 06 July. Two adults were recorded to light in The Elms on 23 June 2021 (SWi) and singles were recorded to HQ light on three dates in June 2022. Between 14 and 23 June 2023 singles were recorded to light over five nights at HQ or Middle Field. Singles were recorded to light at HQ on 07 June and 29 July 2024. A leaf-mine was recorded in Middle Field on 22 June 2019 (KR).
- 20.010 (409) **Apple Tip Moth** *Argyresthia ivella* (Haworth) Nat S B Jul-Aug
An adult was observed in the Oasis on 25 June 2020 (AM/DS).
- 20.011 (410) **Gold W** *Argyresthia brockeella* (Hübner) Common May-Aug
Recorded on St George Golf links on 23 June 2002 and nine, mostly at light in the Oasis, on 10 July 2010. Singles at light in the Oasis on 25 June 2011 and in Restharrow on 12 July 2014 (DG). In 2016 an adult was recorded in the Haven on 02 August (SZW) and one to light at HQ on 15 July (IDH), singles on 06 July 2017, 24 July 2018, three between 02 and 06 July 2019. three between 25 June and 07 August 2020 at HQ and in the Oasis, a single in the Haven on 12 July 2022 and singles at HQ on three dates between 09 June and 08 July 2023 and on 11 July 2024.
- 20.012 (411) **Brassy Y** *Argyresthia goedartella* (Linnaeus.) Common Jun-Sep
Taken at light on 08 July 1977, 12 August 1995, 27 August 2006 and on four dates between 20 July and 23 August 2009. Recorded in small numbers since in 2010, 2012, 2013, and 2015 to 2024 between 09 June and 13 September including a female at HQ on 11 August 2023 (IDH gen det DS).
- 20.013 (412) **Sallow Tip Moth** *Argyresthia pygmaeella* (Denis & Schiffermüller) Common late May-early Sep
Recorded on 08 July 1977, 21 June 1993 and in small numbers in 2010, 2011 (on Sallow in the Whitehouse/Haven) and 2013 to 2018 between 08 June and 17 July. Recorded in the Oasis as a field observation on 31 May (SZW) and to light on 25 June 2020 (AM/DS), singles to light in the Haven on 12 July 2022 and on 28 June and in the Oasis area on 04 July 2024.
- 20.015 (414) **Brindled Apple Tip Moth** *Argyresthia curvella* (Linnaeus) Local Jun-Jul
Found in the Whitehouse on 25 June 2009. Common on Apple in the Whitehouse/Oasis/Haven on 11 June 2011 (FS). Small numbers since from 2014–2016 (FS).
- 20.016 (415) **Speckled Tip Moth** *Argyresthia retinella* (Zeller) Common Jun-Jul
One at light on 26 June 2010. Common on Birch in the Whitehouse/Oasis/Haven on 11 June 2011 (FS) and three in the Haven on 15 June 2014 (FS). Recorded at HQ light on 11 July 2021 (IDH, gen det DS).
- 20.018 (417) **Blackthorn Tip Moth** *Argyresthia spinosella* (Stainton) Common May-Jul
Recorded on 01 June 1994 (EB) and small numbers on Blackthorn in the Oasis on 26 June 2010 and 11 June 2011 and at HQ light on 03 and 28 June 2015, 27 June 2016 (IDH) and singles on six dates between 16 and 30 May 2017. Recorded in small numbers at HQ light up to 2024 between 09 May and 13 August.

- 20.019 (418) **Apple Fruit Moth** *Argyresthia conjugella* (Zeller) Common May-Jul
One on Apple in the Whitehouse/Haven on 11 June 2011 (FS) and three to HQ light on 30 June 2018.
- 20.020 (419) **Purple-washed Tip Moth** *Argyresthia semifusca* (Haworth) Common Jun-early Sep
Recorded to light at HQ on 17 May (SZW) and at Restharrow Dunes on 12 August 2020 (FS).
- 20.021 (420) **Cherry Fruit Moth** *Argyresthia pruniella* (Clerck) Common late May-Sep
One at HQ light on 06 July 2016 (IDH) and 25 May 2017. A single adult recorded in the field on 13 June 2020 (AM/DS).
- 20.022 (421) **Hawthorn Tip Moth** *Argyresthia bonnetella* (Linnaeus) Common Jun-Sep
Singles 04 July 1993, 01 July 1994, in the Oasis on 26 June 2010 and in the Whitehouse on 15 June 2014 and 19 June 2015 (FS). In 2017 singles were recorded at HQ light on four dates between 12 June and 21 July, two were observed in the Whitehouse on 12 June and two were trapped in the Whitehouse on 04 August. Two adults were observed in The Elms on 09 July 2019 (SZW). An adult was recorded at HQ light on 19 July 2021 (IDH) and in The Elms on 30 June 2024 (KB).
- 20.023 (422) **Dark Blackthorn Tip Moth** *Argyresthia albistria* (Haworth) Common Jun-Sep
An adult in The Elms on 8 August 2009 (FS).

LYONETIIDAE

- 21.001 (263) **Apple Leaf-miner** *Lyonetia clerkella* (Linnaeus) Common Jun, Jul-Sep, Oct-May
Leaf-mines on Birch on 12 October 1994 (EB) Small numbers to light at HQ and on the Estate between 24 May and 25 September in 2009, 2010, 2013, 2017-2024. In 2012 an adult was identified in the Little Gully on 3 August and a vacated mine on 20 September (TD), 11 leaf-mines in The Elms on 27 November 2015 (DS), leaf-mines near the Field Centre and in Middle Field on 20 October 2017 (DS), on the Estate on 15 June 2018 (AM et al) and in The Elms on 25 September 2021 (MS/PS/DL), on 17 October 2022 on the Green Wall (IDH/SZW) and two on 01 September 2023 (MS).
- 21.002 (262) **Blackthorn Blister Moth** *Lyonetia prunifoliella* (Linnaeus) **pRDB1** Aug-May.
Once thought extinct in the UK but now resident in a few southern counties of England. Recorded in Kent for the first time in 2015. Recorded at HQ light on 14 September 2016 (M gen det TD) and on 27 August 2018. A leaf-mine was found in the Haven on 12 July 2018 (DS) and two at HQ on 02 September 2023 (MS).
- 21.008 (260) **Pear Leaf Blister Moth** *Leucoptera malifoliella* (Costa) Common Jun-Jul
Leaf mines in Middle Field on 20 October 2013 (FS).

PRAYDIDAE

- 22.002 (449) **Ash Bud Moth** *Prays fraxinella* (Bjerkander) Common May-Oct
Singles at HQ light on 27 August 2006 and in The Elms on 12 July 2014 (DG) and Whitehouse on 17 July 2015 (FS). Singles recorded to light at HQ on 19 July 2016 and in The Elms on 15 June 2022 and 01 September 2023 (MS).
- 22.003 (448a) **Cryptic Ash Bud Moth** *Prays ruficeps* (Heinermann) May-Jun, Jul-Sep
Recently elevated to species status. Singles recorded to light at HQ on 28 August 2018 (IDH), at Restharrow Dunes on 12 August (FS), at HQ on 28 July 2020 (SH/IDH) and in The Elms on 22 July 2024 (SB).
- 22.005 (449b) **London Stowaway** *Prays peregrina* (Agassiz) Adventive colonist Apr-Nov
This species, completely new to science, was first discovered in North London in 2003, and subsequently in the Chelsea Physic Garden, West London in 2005. Since then, there have been a number of records in the London and Kent area. Its origin is believed to be probably Asiatic, and is likely to be imported with food or plants from that region.
First recorded to light at HQ on 18 July 2023 (SH/IDH)

BEDELLIIDAE

- 24.001 (264) **Bindweed Sleeper** *Bedellia somnulentella* (Zeller) Local Aug, Oct-May
Larval feeding signs found on Hedge Bindweed in Haven by FS in November 2009 and in Whitehouse on 20 August 2011. Leaf-mines were recorded in Middle Field on 20 October 2017 (DS).

SCYTHROPIIDAE

- 25.001 (450) **Hawthorn Moth** *Scythropia crataegella* (Linnaeus) Common Jun-Jul, Aug-Sep
Three trapped at Observatory on 7 August 2009 (AC/PDH) and singles to light on 11 July 2010 (PDH/JGCB/JJS), 28 June 2011 (JGCB), in the Whitehouse on 12 July 2018 (FS), at HQ on 09 and in the Whitehouse on 12 July 2019, at HQ on 01 July 2020 (IDH) and in the Haven on 12 July 2022.

DOUGLASIIDAE

- 26.001 (398) **Speckled Bugloss Moth** *Tinagma ocnerosstomella* (Stainton) **Nat S B** May-Jul
Recorded on the Estate on 05 June 1975, 01 June 1981, 09 June 1993 and 16 June 2006. Adults found among Viper's Bugloss on seafront in 2009, 2010, 2014 between 29 May and 01 July (FS) and a single on 23 May and 10 on 21 June 2016 (FS) and larvae in Cellars in November 2015 (DS). In 2018 a single was observed in the field on 15 June in the Whitehouse (FS). An adult recorded in the field in the Little Gully on 13 June (AM/DS) and two to light on Princes Beach on 25 June 2020 (NHM). A single was recorded to light at HQ on 29 June 2021 and in 2022 larval signs were recorded in the Gullies on 02 May and a female near the Field Centre on 27 June (SB, gen det).
- 26.002 (399) **White-marked Bugloss Moth** *Tinagma balteolella* (Fischer von Röslerstamm) May-Jun
Recorded on the Estate on 05 June 1975 and on Viper's Bugloss (food plant) near the sea on 16 May 2005, 29 May 2014 and 23 May 2016 [four] (FS).

AUTOSTICHIDAE

Oegoconia species are not possible to tell apart except by gen det. The following include unconfirmed reports including one on 14 June 2023 in Middle Field (KB):

- 27.001 (870) **Four-spotted Yellowneck** *Oegoconia quadripuncta* (Haworth) Common Jul-Au
Recorded on the Estate on 09 June 1993 (ACJ & IF gen det EB), on 30 July 2020 (KB M gen det) and unconfirmed records of four on the beach on 17 July (CW) and seven at HQ on 19 July 2024 (GJL).
- 27.002 (871a) **Straw Yellowneck** *Oegoconia caradjai* (Popescu-Gorj & Căpușe) **Nat S B** Jun-Aug
Recorded on the Estate on 15 July 1988, recorded at light in Gullies/ Elms area on 01 and 21 June 1993 (ACJ & IF gen det EB), on 21 June and 06 July 2010 (PDH/JGC/JJS) and from the Estate on 15 June 2018 (DS gen det), 15 June 2020 (DS gen det) and a male in The Elms on 03 July 2024 (CV&KM gen det).
- 27.003 (871) **Barred Yellowneck** *Oegoconia deauratella* (Herrich-Schäffer) Local Jun-Aug
A male recorded at HQ light on 24 June (IDH, gen det TD), one unconfirmed to light in the Oasis on 04 July 2019 (ME) and males recorded to light at HQ on 14 June and 13 July 2020 (both IDH gen det DS).

OECOPHORIDAE

- 28.001 (639) **Beautiful Silver-mark** *Promalactis procerella* (Denis & Schiffermüller) **pRDB2** Jun-Aug
First recorded in UK in 1976 at Hamstreet, Kent and possibly now colonising. Recorded to light at HQ on 12 and 25 July 2019 (SH/IDH), at Sandown Road on 01 August (SH/IDH) and in the Oasis on 07 August 2020 (AM/DS), at HQ on 02 July 2021 and a female at HQ on 12 July 2022 (IDH, gen det DS).
- 28.008 (644a) **Italian Bark Moth** *Metalampra italica* (Baldizzone) Migrant colonist Jun-Sep
First recorded in UK in 2003 in Devon now breeding resident. Observed in the Cellars on 05 July (SZW) and to light at Old Downs Farm on 02 August 2019 (DM). Singles to light at HQ on 20 June (IDH M gen det DS), at Sandown Road on 25 June and on the Estate on 11 August 2020 (KB), in Middle Field on 25 July and 23 August 2022 (KB), in The Elms on 15 September 2023 (KB) and on 03 July and 19 August 2024.
- 28.009 (648) **White-shouldered House-moth** *Endrosis sarcitrella* (Linnaeus) Common Year round
Commonly seen in the HQ building, at light and on the Estate between 23 February and 26 October up to 2024.
- 28.010 (647) **Brown House-moth** *Hofmannophila pseudospretella* (Stainton) Common Year round
Common in HQ building and at light and recorded from 1981 to 2024 between 10 March and 21 October.
- 28.011 (645) **Yellow-spot Concealer** *Borkhausenia minutella* (Linnaeus) **pRDB1** May-Jun
Recorded to light at HQ on 11 June 2023 (IDH gen det DS).
- 28.012 (644) **Dingy Concealer** *Borkhausenia fuscescens* (Haworth) Common Jun-Sep
One in August 1993 (IF confirmed EB), one observed in The Elms on 15 July 2017 (FS), singles attracted to light at HQ on 26 July 2018, in the Whitehouse on 12 and at HQ on 26 and 31 July 2019 and nine individuals attracted to light at HQ or in The Elms over seven nights between 25 June and 17 August with a maximum of three at HQ on 18 July 2024.
- 28.014 (642) **Brown Bark Moth** *Crassa unitella* (Hübner) Common Jun-Aug
Recorded on the Estate on 14 August 1975 and in small numbers in 2010 and annually from 2012-202 between 21 June and 05 September. A male was recorded on 29 June 2019 (IDH, gen det TD) and a female on 24 July 2021 (IDH, gen det DS).

- 28.015 (640) **Lesser Tawny Crescent** *Batia lunaris* (Haworth) Common Jun-Aug
One in the Haven (FS) and up to three at HQ light in July 2010 and singles at light in Restharrow on 12 July 2014 (DG) and 10 July 2015. Singles were recorded to light at HQ on 15 July 2016 (IDH) and 21 June and 06 July 2017, two on 17 and a single on 20 plus a single in the Little Gully on 30 July 2018 and between 27 June and 25 July from 2019-2024 at HQ and in the Whitehouse and Haven
- 28.019 (649) **Sulphur Bark Moth** *Esperia sulphurella* (Fabricius) Common Apr-Jun
Singles on the Estate or at Sandown Road in 1993, 1994, 2009 to 2012, 2014, 2016 to 2019, 2020, 2022 and 2024 between 06 April and 23 June.
- 28.022 (652) **Hedge Beauty** *Alabonia geoffrella* (Linnaeus) Common May-Jun
One on Bramble near Middle Field on 30 May 2014 (JK photo) and a sighting of a single on 26 May in Middle Field and eight on 30 May 2018 (SZW). In 2022 there were field observations of up to eight individuals on six dates between 25 May and 08 June in The Elms and on New Downs (KB, CJH, IDH, GJL), a single on the Worth Track on 01 June 2023 (GJL) and singles on 14 April on New Downs and in The Elms on 23 and 27 May 2024.
- 28.024 (656) **Australian Orange-tip** *Tachystola acroxantha* (Meyricki) Local Apr-Nov
Singles attracted to light in The Elms on 25 May 2018 (SZW), in Restharrow Dunes on 12 August 2020 (FS) and in The Elms area on 05 September 2021 (KB), near HQ 25 September 2021 (MS/PS/DL) in the Gullies on 22 May and in The Elms on 04 August 2022. Between 11 June and 02 October 2023 15 individuals were recorded to light at HQ or in The Elms over eight nights including eight in The Elms on 01 September. Singles were recorded to light at HQ on 03 June and 14 November 2024.

CHIMABACHIDAE

- 29.001 (663) **Early Reveller** *Diurnea fagella* (Denis & Schiffermüller) Common Mar-May
Small numbers to light at HQ in 2010 to 2014 and 2019, in The Elms area in 2021 (KB) and at HQ and Elms in 2022 between 09 March and 15 April, singles on three nights in between 16 and 20 March 2023 and three in the Elms on 09 March 2024.

PELEOPODIDAE

- 31.001 (658) **Oak Longhorn** *Carcina quercana* (Fabricius) Common May-Dec
Double brooded. Common in the area and at light. Two on the Estate in August/September 1993 and small numbers with maxima of 12 annually from 2009 to 2024 between 13 June and 16 October.

DEPRESSARIIDAE

- 32.003 (668) **Tufted Blackthorn Moth** *Luquetia lobella* (Denis & Schiffermüller) Local May-Jul
A single on 23 June 2006 (TD) and on 21 June 2010 at HQ light (PDH/JGCB), then small numbers on the Estate and to HQ light in 2012 to 2014 and 2017 to 2018 between 30 May and 04 July. A single at HQ light on 26 June 2020 (IDH). In 2022 Singles were recorded at HQ light on four nights between 14 May and 20 July.
- 32.007 (701) **Red-eyed Buff** *Agonopterix ocellana* (Fabricius) Common Aug-May
Singles trapped at Observatory on 11 and 14 August 2009 and small numbers to 2014, mainly between 16 March and 30 September. Singles recorded to light at HQ on 29 May 2017, 21 April 2019 (IDH), three on 24 March 2021 (RJD/SZW), seven individuals over six nights between 31 May and 10 September 2023 and a single on 29 April 2024.
- 32.008 (709) **Purple-shaded Brown** *Agonopterix liturosa* (Haworth) Local Jul-Aug
First recorded at Sandwich Bay in The Elms area on 23 August 2021 (KB).
- 32.009 (691) **Least Brown** *Agonopterix purpurea* (Haworth) Local Aug-Jun
Small numbers at HQ light in 2010 to 2024 with maxima of 11 between 30 March and 05 October.
- 32.010 (710) **Willow Brown** *Agonopterix conterminella* (Zeller) Local Jul-Sep
Recorded on 02 August 1987 (IDH gen det CP). A larva was identified on Sandown Road on 03 May 2024 (RL/PS/BH).
- 32.015 (692) **Blackneck Buff** *Agonopterix subpropinquella* (Stainton) Common Jul-May
Small numbers in 2009, 2010 and 2013 to 2024 between 25 April and 14 October.
- 32.016 (696) **Black-spot Buff** *Agonopterix propinquella* (Treitschke) Local Sep-Jul
Two recorded in August/September 1993, singles at HQ light on 07 April 2011 (FS), on 28 September 2018 (DT), on 06 July and 06 August 2020 (SH/IDH), on 09 November 2021 (IDH) and a male on 12 July 2022 (IDH, gen det DS). A total of seven recorded to light at HQ over four nights between 09 and 19 July 2024.

32.017 (697)	Brindled Buff <i>Agonopterix arenella</i> (Denis & Schiffermüller)	Common	Year round
Singles recorded on 10 May 1987, in August/September 1993 and small numbers on the Estate and to HQ light in 2010 to 2024 between 09 July and 29 May. On 3 August 2012 a larva was recorded on Lesser Burdock (TD).			
To distinguish between <i>Agonopterix heracliana</i> and <i>ciliella</i> the hind wing needs to be photographed. <i>Undifferentiated Agonopterix heracliana/ciliella</i> are recorded regularly throughout the year to HQ light and in the field.			
32.018 (688)	Common Brindled Brown <i>Agonopterix heracliana</i> (Linnaeus)	Common	Jul-May
Recorded on the Estate in 1987 (IDH M gen det CP). One at light in August 1993 (IF gen det EB). In 2018 a single was recorded to HQ light in April (IDH, gen det TD) and two to light on the Estate on 30 August (SZW, gen det TD). Confirmed singles were recorded on four dates from 30 June to 27 July 2019 (hindwing checked), on six dates between 09 and 31 July 2020, five dates in July 2021, on 06 July 2022 and at HQ on 01 October 2023 (SH/IDH). Sixteen individuals recorded to light at HQ, in The Elms or on Princes Beach over 11 nights between 09 March and 16 October 2024.			
32.019 (689)	Banded Brindled Brown <i>Agonopterix ciliella</i> (Stainton)	Common	Jul-May
Recorded on the Estate on 30 August 1974. The first fully documented specimen was recorded to HQ light on 12 July 2018 (IDH, gen det DS). A female was recorded at HQ light on 12 July 2019 (IDH, gen det DS). An adult was recorded to HQ light on 07 September 2021 (IDH).			
32.023 (716)	Ashen Buff <i>Agonopterix rotundella</i> (Douglas)	Nat S A	Year round
A male attracted to light at HQ on 18 August 2023 (IDH gen det DS).			
32.026 (698)	Knapweed Buff <i>Agonopterix kaekeritziana</i> (Linnaeus)	Local	Jul-Sep
Recorded in small numbers in 1958, 1975, 1989, 2009, 2013, 2014 and 2015 and recorded at HQ light on 15 July (IDH) and to light in the Whitehouse on 04 August (FS) 2017, on the Estate Beach on 05 July 2019 (ME), on the Estate beach on 13 June (AM/DS) and on Princes Beach on 25 June 2020 (NHM) at HQ light on 01 August 2022 (ME) and observed in the Whitehouse on 18 July 2024 (SZW).			
32.029 (705)	Gorse Buff <i>Agonopterix umbellana</i> (Fabricius)	Local	Aug-Apr
Adults at HQ light on 23 April and 17 August 2010 and 26 November 2015.			
32.030 (706)	Burnt-tip Buff <i>Agonopterix nervosa</i> (Haworth)	Common	Jul-Sep
Recorded on the Estate in 1950. A single adult recorded to light in the Oasis on 07 August 2020 (AM/DS).			
32.031 (695)	Hemlock Moth <i>Agonopterix alstromeriana</i> (Clerck)	Common	Year round
Recorded in 1961, 1993, 1995, 2002 and annually (maxima six) from 2009 to 2024 (up to two on 18 dates in 2016) between 15 February and 20 October. Larval feeding signs were observed in a folded leaflet of Hemlock in the Little Gully on 03 May 2024 (RL/PS/BH).			
32.034 (690)	Sea-holly Brown <i>Agonopterix cnicella</i> (Treitschke)	Nat S A	Jun-Jul
A species of coastal dunes and shingle beaches occasionally recorded (up to three in 2009) from 1927 to 2009 between 21 May and 30 July. A single adult was attracted to light on Prince's Beach on 15 June 2022 (WS). Larva on Sea Holly 21 May 2009 (FS) and on Princes Beach on 13 June 2020 (AM/DS). An adult was reared from a pupa collected from a spinning on Sea Holly on the beach on 04 July 2018 (GT) and a nocturnal search on Princes Beach on 03 May 2024 produced signs of larvae (RL/PS/BH).			
32.035 (714)	Coastal Buff <i>Agonopterix yeatiana</i> (Fabricius)	Local	Aug-Jun
Recorded in 1961 and on 16 April and 09 June 1993, with small numbers in 2014 to 2024 between 08 February and 20 November.			
32.036 (672)	Parsnip Moth <i>Depressaria radiella</i> (Goeze)	Common	Year round
First recorded in May 1987 and regular in small numbers up to 2024, between 02 February and 28 September. In 2016 recorded on ten dates (IDH).			
32.039 (670)	Water-dropwort Brown <i>Depressaria daucella</i> (Denis & Schiffermüller)	Common	Jul-Apr
Numerous larvae in Hemlock Water Dropwort flowers in Hundred Acre Field 28 June 2010 (FS) and adults at HQ light on 16 March, 07 June and 05 September 2014 and 19 March 2019 (IDH).			
32.040 (671)	Marsh Brown <i>Depressaria ultimella</i> (Stainton)	Local	Aug-spring.
Adults of this species overwinter. An adult recorded to HQ light on 18 June 2020 (SZW gen det DS).			
32.042 (676)	Pignut Brown <i>Depressaria pulcherrimella</i> (Stainton)	Local	late Jun-Sep
A female to light in the Whitehouse on 26 August 2017 (SZW gen det TD).			

ETHMIIDAE

- 33.001 (718) **Gromwell Ermine** *Ethmia dodecea* (Haworth) Local May-Aug
Singles to light at HQ on 02 July 2010, 03 July 2013, 04 July 2014, 27 Aug 2016 and 17 June 2017 and in Middle Field on 23 June 2023 (KB).
- 33.002 (719) **Comfrey Ermine** *Ethmia quadrilella* (Goeze) Nat S B May-Jul
Singles to light at HQ on 24 August 2013 (JGCB), 01 August 2022 (IDH/SH), 21 August 2023 (GJL) and in The Elms on 06 (KB) and at HQ on 14 August 2024 (IDH).
- 33.004 (717) **Scarce Bugloss Ermine** *Ethmia terminella* (Fletcher) Nat S A Jun-Jul
A species of vegetated shingle, chalk downs and dunes on the coast of SE England. Recorded in small numbers on the Estate in 2006, 2010, 2014 and 2015 between 29 May and 22 June, on 21 June 2016 (FS), 19 and 21 June 2017 (HQ light IDH), 15 June 2018 (AM et al), 31 May 2019 (observed in Little Gully SZW) and 13 June 2020. Singles recorded to light at HQ on three nights between 17 and 22 June 2023 and in Middle Field on 20 (four) (KB) and HQ on 25 June 2024 (IDH).
- 33.006 (720) **Bugloss Ermine** *Ethmia bipunctella* (Fabricius) Nat S B May-Jun, Aug-Sep
Inhabits coastal shingle and chalk cliffs in SE England. Recorded in 1993, 1995, 2002, 2003, 2004, 2006 and annually from 2009-2015 between 23 April and 02 September and from 2017-2024 mainly singles to HQ light and on the Estate between 11 May and 01 September. There were maxima of six on 03 August 2018 at HQ and on 12 August 2020 in Restharrow Dunes.

COSMopterigidae

- 34.004 (898) **Bulrush Down Moth** *Limnaecia phragmitella* (Stainton) Common late Jun-early Sep
One in August/September 1993 with further records on 27 July 2002 and in small numbers in 2009, 2010 and 2012 to 2024 between 21 June and 09 September.
- 34.005 (894) **Hop Beauty** *Cosmopterix zieglereella* (Hübner) Nat S B Jun-Jul
Two leaf-mines on Hop on 18 September 2021 (SZW/DS), 25 leaf-mines on 09 August 2022 in The Elms (SZW), two leaf-mines on 01 September 2023 (MS) and 20 leaf-mines on Hop in The Elms on 22 August 2024 (SZW).
- 34.008 (896a) **Reed Beauty** *Cosmopterix scribaiella* (Zeller) Nat S A Jun-Oct
Unknown in UK prior to 1996. Recorded to light at Sandown Road on 25 June 2020 (SH/IDH), at HQ on 16 May 2022 (SZW) and 01 July 2023 (IDH).
- 34.009 (896b) **Pellitory Beauty** *Cosmopterix pulchrimella* (Chambers) Nat S A May-Nov
In Middle Field six adults identified on 27 August (FS) and up to 56 in October (CW/SZW/DS) and a leaf-mine on 20 October (DS) and on 09 November a leaf-mine by the Haven (SZW) 2017. Five leaf-mines on New Downs on 05 November 2018. A leaf-mine in the Oasis on 25 June, a single adult to light in Restharrow Dunes on 12 August and a field record of 161 adults in Middle Field on 20 August 2020. Larval workings were recorded on Pellitory in The Elms on 25 September 2021 (MS/PS/DL). A single to light at HQ on 08 October 2023 (IDH) and adults observed in Middle Field on 10 September and on the Worth Track on 31 October 2024 (two) (SZW).
- 34.010 (897) **Pale Reed Beauty** *Cosmopterix lienigiella* (Zeller) Nat S B May-Oct
Uncommon in Kent, Sandwich Bay is only the third known site for this species in the county. Singles recorded at HQ light on 07 and 31 July 2016 (IDH). Leaf-mines were identified in The Elms on 25 September 2021 (MS/PS/DL).

GELECHIIDAE

- 35.003 (844) **Meadow White-barred** *Aproaerema larseniella* (Gozmány) Local Jun-Aug
An adult male netted in the Little Gully on 30 June 2009 (TD gen det) and found in the Whitehouse on 19 June (FS) and probable singles at light on three dates between 28 June and 02 July 2015. A single recorded in the field on 18 June 2016 (FS). In 2018 two males were recorded in the Whitehouse on 16 July (FS, gen det DS) and a single male on 26 July at the feeder light at HQ (SZW, gen det TD), an unconfirmed adult to light in the Whitehouse on 12 July 2019 (FS) and a single from the Little Gully on 13 June 2020 (SZW gen det DS). An adult was attracted to light in The Elms on 03 July 2024 (CV/KM gen det).
- 35.004 (847) **Common White-barred** *Aproaerema taeniolella* (Zeller) Local Jul
Recorded on the Estate in 1965 (AME).

- 35.010 (843) **Vetch Moth** *Aproaerema anthyllidella* (Hübner) Local Apr-Jun, Jul-Oct
Recorded at light on 02, 04, 05, 13 and 27 (M gen det TD) September 2016 (IDH) (For future reference- This species is under review for splitting and this was a large genitalia species). Probables are recorded at light regularly to 2024 between 08 May and 30 October, e.g., in 2017 12 individuals were recorded over 10 dates between 15 May and 28 September with a maximum of three on 21 August.
- 35.011 (853) **Poplar Roller** *Anacampsis populella* (Clerck) Common Jun-Sep
Recorded on the Estate in 1977, in the Whitehouse on 17 July 2015 (FS) and a female was recorded to light on 05 September 2022 in The Elms (CW gen det DS)
- 35.019 (857) **Peach Twig Borer** *Anarsia lineatella* (Zeller) Adventive/Migrant Jun-Aug (in Europe)
First recorded to light in the Haven on 24 July 2022 (FS)
- 35.0191 **Maple Snout** *Anarsia innoxella* (Gregersen & Karsholt) Local in southern England Jul-Aug
First described as a new species in 2017. Singles were attracted to the HQ light on 11 July 2019 (IDH, F gen det DS), on 29 June 2023 (GJL/SZW) and 18 (SW) and 19 July 2024 (IDH).
- 35.020 (856) **Obscure Snout** *Anarsia spartiella* (Schrank) Local Jun-Aug
First recorded to light at HQ on 29 June 2023 (SZW)
- 35.026 (855) **The Cinereous** *Acompsia cinerella* (Clerck) Local late May-early Sep
Four in the Whitehouse on 09 August 2013 (FS) and singles on 02 August 2014 (FS), 07 August 2015, 15 July 2016 (FS), three in the Whitehouse on 14 July 2017 (FS), singles in the Whitehouse on 03 August 2018 and 12 July 2019 (FS). A male was recorded to light in The Elms on 09 July 2020 (IDH gen det DS), singles in the field on 28 June (SB) and to light in the Haven on 12 July 2022 (FS) and in The Elms on 30 June, in the Oasis on 04 and The Elms on 22 July 2024.
- 35.028 (866) **Gorse Wanderer** *Brachmia blandella* (Fabricius) Common Jun-Aug
Recorded on 05 August 1981, 04 and 23 July 1993, to light in The Elms on 24 June 2005 (TD) and in small numbers including to HQ light in 2010 and 2014 to 2024 between 17 June and 05 August.
- 35.029 (867) **Fen Snout** *Brachmia inornatella* (Douglas) **Nat S A** Jun-Jul
Singles to HQ light on 19 July 2010 (PDH/JGCB/JJS), 26 June 2019 (SZW), 02 July 2021 (IDH) and on 12 July 2022 singles in the Haven (FS) and to HQ feeders (GJL)
- 35.031 (868) **Common Zebra Moth** *Helcystogramma rufescens* (Haworth) Common Jun-Oct
Recorded on the Estate in 1965, 1983, 1985, 1993, 1995, 2009 and 2012 to 2024 between 09 June and 24 September (increasingly frequent in September from 2020).
- 35.032 (809) **Hollyhock Seed Moth** *Pexicopia malvella* (Hübner) **Nat S B** Jun-Aug
Singles at HQ light on 24 July 2010 (FS) and on 01 August 2019 (DT, gen det AG). A male was recorded at Sandown Road on 26 June 2020 (IDH gen det DS).
- 35.033 (808) **Mallow Seed Moth** *Platyedra subcinerea* (Haworth) **Nat S B** Aug-Jun
Recorded on the Estate on 26 May 1993, at HQ light on 22 May 2012 (FS) and on 25 May (DT) and 02 June (IDH) 2019.
- 35.035 (746) **Fiery Miner** *Chrysoesthia drurella* (Fabricius) Local May-Sep.
Recorded on the Estate on 29 June 2006 and common amongst Fat Hen in The Elms on 26 August 2012 (FS). A leaf-mine recorded at Prince's plantation on 27 July (DS) and also at HQ light on 13 August 2016 (IDH) and on 28 July 2023.
- 35.036 (747) **Orange-spotted Miner** *Chrysoesthia sexguttella* (Thunberg) Local May-Jun, Aug.
Occupied mines in The Elms on 26 August 2012 (FS) and 14 June 2014 (FS), in the Oasis on 25 June 2020 (AM/DS) and two on Orache on Royal St. George's Golf Course on 21 August 2024 (SZW).
- 35.037 (840) **Marjoram Case-bearer** *Thiotricha subocellea* (Stephens) **Nat S B** Jul-Aug
First recorded to light in the Haven on 12 July 2022 (FS)
- 35.038 (789) **House Moss-moth** *Bryotropha domestica* (Haworth) Common Jun-Sep
Singles at HQ light on 22 September 2013 (JGCB), in The Elms on 14 June 2014, at HQ light on 10 August 2015, on 30 July 2018, 22 August 2019 (ME) and singles on 05 August (IDH M, gen det DS), 12 August 2020 and 01 July 2023.
- 35.040 (787) **Brown Moss-moth** *Bryotropha terrella* (Denis & Schiffermüller) Common May-Aug
Small numbers on the Estate and to HQ light in 1984, 1989, 1993, 1995, 2010, 2013 to 2024 between 20 May and 25 August. e.g., singles recorded at HQ light on 4 dates in 2016 (IDH) and singles or twos on seven dates in 2017 plus singles to three recorded in St George's Bushes, Big Gully (SZW) and Whitehouse (FS) on three dates. A male recorded to light in the Haven on 15 June 2018 (DS gen det), a female on 25 June 2020 (SW gen det PC) and a male at HQ light on 29 June 2022 (SB gen det).

35.041 (786)	Coast Moss-moth <i>Bryotropha desertella</i> (Douglas)	Nat S B	May-Aug
	Recorded on the Estate in 1954, 1966 (Ent Rec: RF) 1969, 1977 (F gen det) (EB), a female swept on the beach on 15 June 2018 (DS gen det), a single unconfirmed record of one to light at HQ on 25 May 2019 (JH) and a single in the Oasis (gen det DS) and 10 on Princes Beach on 25 June 2020 (NHM).		
35.046 (782)	Grizzled Moss-moth <i>Bryotropha senectella</i> (Zeller)	Local	Jun-Sep
	Recorded on the Estate in 1954, 21 July 1957, 22 July 2014 (JGCB), 11 August 2017, and four on 11 August 2020 (KB). Singles observed in the Whitehouse on 18 (SZW) and to light at HQ on 18 (SW gen det DS) and on 21 July 2024 (SB gen det).		
35.047 (779)	Dark Moss-moth <i>Bryotropha affinis</i> (Haworth)	Common	May-Sep
	Small numbers 1993, 1995, 2010, 2012, 2014 to 2018 between 22 May and 12 August, e.g. recorded at HQ light on 17 and 19 July 2016 (IDH) and on 17 May 2017. Recorded at HQ light on 21 May, 30 July and 03 August 2020, 16 May 2022 (CJH/SZW), 23 July 2023 and 19 July 2024.		
35.048 (778)	Sandhill Moss-moth <i>Bryotropha umbrosella</i> (Douglas)	Nat S B	May-Jun
	Recorded on the Estate in 1954, 21 July 1957, in 1965 and 12 August 1995 (DA, MPa, BS).		
35.0531	Anthemis Flower Moth <i>Isophrictis anthemidella</i> (Wocke)	New for Great Britain	
	Two females attracted to light at Princes Golf Course on 25 June 2020 were subsequently DNA barcoded and proved to be the first of this species to be identified in Great Britain (MJS/DCL). Published in Entomologist's Rec. J. Var. 134 (2022) 7-15. Also recorded to light on Princes Beach on 17 July 2024 (SW gen det PC).		
35.056 (724)	Burdock Seedhead Moth <i>Metzneria lappella</i> (Linnaeus)	Local	Jun-Jul
	Recorded on 26 June and 04 and 08 July 1993, then small numbers between 15 June – 07 August annually from 2009-2017. Then none until singles to light on 25 June in the Oasis (AM/DS) and at HQ 13 July 2020 (IDH) and on 29 June 2023 (SZW) and in the Oasis on 04 July 2024 (CV/KM gen det).		
35.058 (726)	Knapweed Seedhead Moth <i>Metzneria metzneriella</i> (Stainton)	Common	late May-mid Aug
	Recorded at The Elms on 24 and 25 June 2005, recorded at light on 23 June 2006 (TD) and at HQ light in 2010, 2011, 2013 to 2015 (JGCB) and 2017 to 2024 between 14 June and 05 August.		
35.060 (730)	Dark Seedhead Moth <i>Apodia martinii</i> (Duponchel)	Local	Jul-Sep
	Small numbers found on Common Fleabane in August in the Whitehouse and Middle Field and to light including at HQ from 2010 to 2020 between 24 July and 07 August. A single to light in Middle Field on 04 August 2022 (KB) and adults observed in the Haven on 11 August 2023 (SZW) and in Big Gully on 12 September 2024 (MG&LN).		
35.061 (748)	Pale Seedhead Moth <i>Ptocheuusa paupella</i> (Zeller)	Local	Jun, Aug-Sept
	Recorded on 24 June 2004 (TD) and to light in the Oasis on 25 June 2020 (AM/DS).		
35.066 (735)	Burnished Sorrel Moth <i>Monochroa tenebrella</i> (Hübner)	Local	May-Aug
	Two in the Whitehouse on 24 June 2012 and one in the Whitehouse on 28 June 2015 (FS). In 2016 an individual was recorded in the field on 18 June (FS). This species needs to be confirmed by gen det. The first confirmed record was a male to HQ light on 19 June 2019 (IDH, gen det TD).		
35.071 (736)	Spike-rush Borer <i>Monochroa lucidella</i> (Stephens)	Local	Jun-Aug
	Recorded on the Estate in 2003 (FS) and in 2018 to light at HQ on 20 July and in the Whitehouse on 03 August. Three singles recorded at HQ light on 23 (F), 24 (M) and 29 (F) June 2019 (all IDH, gen det TD). In 2020 mainly singles were recorded over 5 nights with a maximum of five on 25 June on Princes Beach (NHM) and males recorded at HQ light on 23 and 25 June (both IDH gen det DS). Two females were recorded to light at HQ on 28 June 2023 (IDH gen det DS). Recorded to light at HQ on 18 and 19 July (IDH & MG&LN) and on 14 August 2024 (IDH gen det DS).		
35.073 (737)	Dock Streak <i>Monochroa palustrellus</i> (Douglas)	Nat S B	Jun-Sep
	Small numbers recorded on the Estate in 1989, 2007 and annually from 2009 to 2024 between 13 June and 25 September, including a male (IDH gen det DS).		
35.079 (733)	Silver-barred Moss-moth <i>Oxypteryx wilkella</i> (Linnaeus)	Nat S B	Jun-Sep
	Recorded on the Estate in 1954, 1971, 1983, 1989, 1993, 1995, 2005 (frequent to light on the beach on 23 June and on 24 June in The Elms (TD)), 2009, 2010, 2014 to 2016 and 2018-2024 between 10 June and 23 September, e.g. in 2018 a single adult swept from the dunes on 15 June (AM et al) and one to HQ light on 13 July.		
35.081 (731)	Hypericum Neb <i>Oxypteryx atrella</i> (Denis & Schiffermüller)	Local	Jul-Aug
	A single adult recorded at HQ light on 12 July (IDH) and three in the Oasis on 10 August 2020 (CWi).		

35.085 (762)	Honeysuckle Grey <i>Athrips moufetella</i> (Linnaeus)	Common	Jun-Sep
	One in the Whitehouse on 09 August 2013, singles in the Whitehouse on 17 July and at HQ light on 07 September 2015 and a single to light in the Haven on 13 July and to light at HQ; four on 22 July, a single on 07 August 2018, a single to light in The Elms area on 21 June (KB) and two at HQ on 03 August 2021 (RJD/IDH) and on 09 June 2023 (IDH).		
35.091 (841)	White-streaked Snout <i>Sophronia semicostella</i> (Hübner)	Local	Jun-Jul
	Recorded on the Estate in 2003 (FS) and at HQ light on 24 June 2019 (IDH).		
35.093 (792)	Gorse Streak <i>Mirificarma mulinella</i> (Zeller)	Common	Jul-Sep
	Recorded on the Estate on 12 August 1995 (DA, MPa, BS) and five to light on 30 July 2020 (KB).		
35.094 (796)	Striped Sorrel Moth <i>Aroga velocella</i> (Zeller)	Local	late Apr-May, Jul-early Sep
	Recorded on the Estate in 1983, 1993, 1995, 2004, 2010 to 2012 and 2014 to 2020 between 18 May and 12 September, with five in the Oasis/Whitehouse on 23 April in 2011, three there on 09 August 2013 and a single on 15 July 2016 (FS). Singles to light at HQ on 24 [M] and 25 June and 13 August 2020 [M] (all gen det DS). A female to light at HQ on 12 July 2022 (IDH gen det DS) and on Princes Beach on 17 July 2024.		
35.095 (791)	Moss Groundling <i>Chionodes distinctella</i> (Zeller)	Nat S A	Jun-Aug
	Recorded on the Estate in 1954 and June 1989, on the Golf Course on 03 July 2015 (gen det MHa) and on Princes Beach on 13 June, in the Oasis on 25 June 2020 (both gen det DS) and at HQ light on 28 June 2022 (SB gen det).		
35.096 (790)	Smoky Groundling <i>Chionodes fumatella</i> (Douglas)	Nat S B	Jun-Aug
	Recorded on the Estate on 03 July 2015 (MHa gen det) and to light on Princes Beach on 25 June 2020 (NHM).		
35.104 (805)	Seathorn Spinner <i>Gelechia hippophaella</i> (Schrank)	pRDB2	Aug-Sep
	Recorded on the Estate and bred from larvae in 1954 (JEO) and on 09 August 1977 (LTF).		
35.109 (822)	Common Thistle Miner <i>Scrobipalpa acuminatella</i> (Sircom)	Common	Apr-Sep
	First recorded on 24 May 1993 (ACJ & IF gen det EB), a leaf-mine recorded in the Middle Field on 20 October 2017 (DS) and adult males at HQ light on 28 May (SZW, gen det DS) and 12 July 2017 (IDH, gen det TD), and on 06 and 17 May 2019 (IDH, gen det TD). Recorded to light on Princes Beach on 17 July 2024 (SW gen det DS). Possibles are regular at light at HQ e.g., singles at HQ light on 21 July 2014 (FS) and 12 June, 07 July (2), 01, 04 and 13 August 2016 (IDH), at Princes Beach on 25 June 2020 (NHM) and at Sandown Road on 30 July 2022 but this species requires gen det for identification.		
35.114 (812)	Purslane Moth <i>Scrobipalpa instabilella</i> (Douglas)	Nat S B	Jun-Sep
	A species of saltmarsh. Recorded on 01 August 2019 to light in the Hundred Acre (DT, gen det AG) and in the Haven on 06 September 2024 (MG&LN gen det NJ two males).		
35.115 (815)	Coast Orache Miner <i>Scrobipalpa nitentella</i> (Fuchs)	Nat S B	Jun-Aug
	A male swept on the beach on 15 June 2018 (DS gen det), a single to light in the Hundred Acre on 01 August 2019 (DT, gen det AG) and a male to light at Sandown Road on 02 June 2020 (SH/IDH gen det DS). Larval signs were identified at Backsand Point on 01 November 2024 (SZW/DS).		
35.116 (816)	Grey Orache Miner <i>Scrobipalpa obsoletella</i> (Fischer von Röslerstamm)	Nat S B	May-Sep
	Two reported recorded to light on Princes Beach on 25 June 2020 (NHM) and a single female to light on 19 July 2024 (SW gen det).		
35.118 (814)	Beet Moth <i>Scrobipalpa octellatella</i> (Boyd)	Nat S B	May-Oct
	A single to HQ light on 23 August 2017 (gen det SP). In 2022 there was a significant migration event (recognised by DS) with adults recorded to light at HQ and on the Estate on 27 nights between 24 August and 26 October with maxima of 10 on Princes Beach (JC) and 19 at HQ. Singles were recorded to light at HQ on 03 August and 26 September 2023 (IDH) and 16 individuals were recorded to light at HQ over six nights between 27 August and 09 September 2024 (IDH et al).		
35.119 (811)	Buck's-horn Root Miner <i>Scrobipalpa samadensis</i> (Pfaffenzeller)	Nat S B	May-Sep
	A species of saltings. Recorded to light in the Hundred Acre on 01 August 2019 (DT, gen det AG) and in the Oasis on 25 June 2020 (AM/DS gen det DS)		
35.120 (820)	Thyme Moth <i>Scrobipalpa artemisiella</i> (Treitschke)	Nat S B	Jun-Jul
	A single adult recorded to light on 25 June 2020 (AM/DS gen det DS).		

- 35.123 (819) **Bittersweet Moth** *Scrobipalpa costella* (Humphreys & Westwood) Common Apr-Jun, Jul-Nov
In 1993, singles on 26 May, 21 July, with two in August, then small numbers in 1995, 2009 to 2011, 2013 to 2024 between 06 April and 01 November with a late individual on 13 December to light in The Elms (CJH/SZW).
- 35.128 (827) **Narrow Groundling** *Caryocolum alsinella* (Zeller) **Nat S A** Jul-Aug
Recorded on the Estate in 1949, 1977, 1983 (English Nature, 1991), 1994 and 1995 between 15 May – 12 August mostly as larvae or bred from larvae. A single adult was recorded on 03 July 2015 (gen det MH). There was an unconfirmed record on Princes Beach on 25 June 2020 (NHM). A larva was taken from a Little Mouse-ear spinning in the Little Gully on 03 May 2024 and reared to adulthood (RL/PS/BH).
- 35.131 (829) **Mouse-ear Groundling** *Caryocolum marmorea* (Haworth) **Nat S B** May-Aug
Found in 1948 (LTF), 1954 and 05 August 1981. A male was attracted to light at HQ on 18 July 2022 (SZW gen det DS).
- 35.132 (830) **Stitchwort Groundling** *Caryocolum fraternella* (Douglas) Local Jun-Aug
Recorded to light at end of August and early September 1993 [two] (ACJ & IF gen det EB), in the Little Gully on 31 July 2018 (SZW, M gen det TD), in the Oasis on 25 June 2020 (AM/DS gen det DS) and a male at HQ on 03 August 2022 (IDH gen det DS).
- 35.136 (835) **Southern Barred Groundling** *Caryocolum blandulella* (Tutt) **pRDB1** Jul-Aug
A species restricted to sand dunes in Kent and Carmarthen where it feeds on Little Mouse-ear, taken on 20 August 1978, in 1982 bred from larvae (DA), 1983 bred from larvae (NH).
- 35.141 (765) **Black-spotted Grey** *Teleiodes vulgella* (Denis & Schiffermüller) Common Jun-Aug
Found in the Whitehouse in 2009 and one-two at light at HQ and in The Elms in 2010 to 2012, 2014 to 2020 and 2022 between 14 June and 10 August. A single recorded to light at HQ on 29 July 2024 (IDH).
- 35.146 (776) **Common Groundling** *Teleiopsis diffinis* (Haworth) Common May- Oct
Recorded on the Estate in 1955, 1974, 1993, 1995, 2010 to 2013, 2015 to 2022 between 20 May and 17 October. Singles confirmed from the Estate on 15 June 2018 (DS gen det), a male on 03 June 2019 (SZW, gen det TD) and from the Oasis on 25 June 2020 (DS gen det)
- 35.148 (772) **Elm Grey** *Carpatolechia fugitivella* (Zeller) Local Jun-Jul
Recorded on the Estate on 30 July 1983 (JMC-H) and to light in The Elms on 22 July 2024 (SB).
- 35.150 (768) **Willow Grey** *Carpatolechia notatella* (Hübner) Local May-Jun
Recorded on the Estate in 1929 as bred (RFra) and in 2005 (TD).
- 35.151 (770) **Spotted Birch Grey** *Carpatolechia proximella* (Hübner) Common Apr-Jul
Recorded on the Estate on 15 June 2018 (DS gen det) and three adults attracted to light in Middle Field on 20 June 2024 (KB).
- 35.157 (758) **White-barred Apple Moth** (Clerck) Local Jun-Aug
Singles trapped at Observatory on 3 July 2009, on Princes Beach on 25 June 2020 (NHM) and to light at HQ on 20 July 2021 (IDH).
- 35.159 (760) **Tufted Pine Moth** *Exoteleia dodecella* (Linnaeus) Local Jun-Aug
Recorded in The Elms on 25 June 2005 (TD), at least 20 in The Elms on 14 June 2014 (FS) and singles on the Estate on 15 June (DS gen det), in The Elms on 25 June 2018 (SZW, M gen det TD) and two to light in The Elms on 19 June 2019 (SZW).

BATRACHEDRIDAE

- 36.001 (878) **Poplar Needle-moth** *Batrachedra praeangusta* (Haworth) Common Jun-Oct
One at HQ light on 19 July 2010, two in the Whitehouse on 09 August 2013 (FS), one in the Haven on 10 July 2014 (DG), one in the Whitehouse on 07 August 2015 and on 15 July 2016 (FS), at HQ light on 22 July 2016 (IDH), one in the Whitehouse on 03 August 2018 (FS), a single to HQ light on 24 June 2019 (IDH), in the Haven on 12 July 2022 (FS) and at HQ on 10 August 2024 (IDH).
- Batrachedra pinicolella* has now been split (2022) into *Batrachedra pinicolella* and *Batrachedra confusella*. Dissection will now be required to confirm or re-confirm all records.
- 36.0019 (879b) **Pine Needle-moth** *Batrachedra confusella* (Berggren) Jun-Aug
Recorded to light in The Elms on 03 July 2024 (CV/KM gen det).
- 36.002 (879) **Spruce Needle-moth** *Batrachedra pinicolella* (Zeller) **Nat S B** Jun-Aug
One in The Elms on 14 June 2014 (FS), one to light at HQ on 05 July 2019 (SZW) and on 18 June 2024 (SBr/IDH).

COLEOPHORIDAE

37.002 (487)	Stitchwort Flower Moth <i>Coleophora lutarea</i> (Duponchel) Two recorded in the Whitehouse on 15 July 2016 (FS).	Nat S B	May
37.003 (488)	Sea-lavender Case-bearer <i>Coleophora limoniella</i> (Stainton) Two to light in the Whitehouse on 13 July (FS), a single adult to light in the Haven on 12 July 2022 and at HQ on 26 June 2024 (IDH gen det DS). Two larval cases on Sea-lavender on 14 October 2018 (SZW confirmed DS) and observations in the Hundred Acre of ten adults on Sea-lavender on 07 July 2019 (SZW) and 30 larval exit holes on 13 November 2020 (SZW/DS).	Nat S B	Jun-Aug
37.011 (497)	Small Elm Case-bearer <i>Coleophora badiipennella</i> (Duponchel) A larval case was observed on Elm on 03 May in The Elms (RL/PS/BH) and a female was attracted to light in The Elms on 22 July 2024 (SB gen det).	Local	Jun-Jul
37.012 (499)	Elm Case-bearer <i>Coleophora limosipennella</i> (Duponchel) Cases recorded on Elm on the Estate on 16 June 2006 (FS) and in The Elms on 03 May (two) (RL/PS/BH) and on 11 June 2024 (SZW).	Local	Jun-Jul
37.014 (494)	Blackthorn Case-bearer <i>Coleophora coracipennella</i> (Hübner) A male reared from a case collected from Blackthorn on the Observatory track on 17 June 2020 (DS gen det).	Local	Jun-Jul
37.015 (493)	Common Case-bearer <i>Coleophora serratella</i> (Duponchel) Recorded on the Estate on 04 June 1993. Larval cases seen on Birch and Alder in the Oasis and Haven on 15 May 2009 and April 2011 (FS). One emerged on 21 June 2010 from case collected on Alders in Haven in spring. A larval case identified on 20 September 2012 (TD). Larval cases identified on 22 April 2017 in the Gullies (30), Whitehouse (30) and The Elms (15) (DS), on the Estate on 15 June 2018 (DS), on 13 June 2020, four on Birch and Alder in Waldershare Gully on 24 May 2021 (SZW/DS), a single in the Gullies on 02 May 2022 (DS) and on Waldershare Avenue on Alder on 03 May (RL/PS/BH). A female was attracted to light in The Elms on 22 July 2024 (SB gen det).	Common	Jun-Jul
37.016 (495)	Apple and Plum Case-bearer <i>Coleophora spinella</i> (Shrank) Recorded on the Estate on 28 May 1981. A larval case was collected from Guilford Road on 03 May and reared to adult female (RL/PS gen det) and a female recorded to light on 19 July 2024 (SW gen det PC).	Common	May-Jun
37.022 (504)	Willow Case-bearer <i>Coleophora lusciniaepennella</i> (Treitschke) Recorded on the Estate on 10 June 1969. Larval cases found on <i>Salix</i> in the Whitehouse on 07 June 2009 and in the Haven on 26 April 2010 (FS). Larval cases identified on 22 April 2017 in Middle Field (three) and Whitehouse (one) (DS).	Common	Jun-Jul
37.027 (513)	Potentilla Case-bearer <i>Coleophora potentillae</i> (Elisha) Larval feeding signs were identified on Hawthorn in Waldershare Gully on 16 August 2021 (SZW/DS).	Local	
37.030 (512)	Alder Case-bearer <i>Coleophora binderella</i> (Kollar) Larval cases found by FS on Grey Alder on New Downs May 2009 (adults emerged on 16 June 2009) and 2010 and on 22 April 2017 in the Whitehouse (DS).	Local	Jun-Jul
37.032 (515)	White-legged Case-bearer <i>Coleophora albitarsella</i> (Zeller) One at HQ light on 20 July 2010 (FS, PDH, JGCB), on 28 May 2018, on 24 June 2021 (tarsi checked, IDH) and on 18 July 2024 (SW).	Local	Jun-Aug
37.033 (516)	Melilot Case-bearer <i>Coleophora trifolii</i> (Curtis) Recorded on the Estate in 1967, 1969, 1981, 1993, 2003 and 2013 between 15 June and 11 July. Recorded at light at HQ on 27 June 2016 (IDH) and at Sandown Road on 27 May and at HQ on 25 June (size and antennae checked IDH), 13 and 16 July 2020, 14 July 2021 and on 17 June (size and antennae checked IDH), 14 July and 01 and 02 August 2022 and 10 August 2024 (two) (IDH).	Local	Jun-Jul
37.035 (517)	Clover Case-bearer <i>Coleophora alcyonipennella</i> (Kollar) Males at HQ light on 12 May 2017 (IDH) (gen det TD), on 12 July 2018 (IDH, gen det TD) and 14 July 2020 (IDH gen det DS) and 23 June (IDH gen det DS) and a female on 22 July 2024 in The Elms (SB gen det).	Local	May-Jun, Jul-Sep
37.036 (521)	Spikenard Case-bearer <i>Coleophora conyzae</i> (Zeller) Two larval cases recorded on the Estate on 25 June 1988 (NH) and in Middle Field on 15 May (SZW confirmed DS) and in Dragonfly Pond Field on 04 June (SZW). An unconfirmed record of a single to light on Princes Beach on 25 June 2020 (NHM) and a female to light on the Estate on 18 July 2024 (SW gen det PC).	Nat S B	Jul

37.038 (522)	Woundwort Case-bearer <i>Coleophora lineolea</i> (Haworth)	Local	Jul-Aug
	Recorded on the Estate on 05 August 1981 and 30 June 1993. In November and December 2015 larval cases were recorded from various sites across the Bay (DS). In 2016 an adult was recorded at HQ light 28 August (M gen det TD) and six cases recorded on Black Horehound in the Middle Field 01 May (FS). Larval cases found in Middle Field on 22 April 2017 [120] (DS) and on the Estate on 15 June 2018 (AM et al). In 2020 larval feeding signs were observed on the Estate on 13 June and in the Oasis on 25 June and an adult was attracted to HQ light on 20 June (IDH gen det DS). Two larval cases were recorded on Black Horehound in The Elms on 25 September 2021 (MS/PS/DL). A single was recorded to light at HQ on 26 August 2024 (IDH gen det DS)		
37.039 (523)	Black-spot Case-bearer <i>Coleophora hemerobiella</i> (Scopoli)	Local	Jul
	One in the Whitehouse on 07 August 2015 (FS) and to HQ light on 22 July 2018 and 04 July 2024 (IDH).		
37.044 (547)	Lotus Case-bearer <i>Coleophora discordella</i> (Zeller)	Common	Jun-Aug
	Found by FS in Whitehouse 25 June 2009 and adults at light at HQ on 15 July 2017 and in the Oasis (AM/DS) and on Princes Beach (NHM) on 25 June 2020.		
37.046 (519)	Purple-shot Case-bearer <i>Coleophora deauratella</i> (Lienig and Zeller)	Local	Jun-Jul
	A single field observation on 21 June 2016 (FS).		
37.048 (518)	Clothed Case-bearer <i>Coleophora mayrella</i> (Hübner)	Common	Jun-Jul
	Recorded on the Estate on 05 August 1981 and in the Whitehouse on 25 June 2009 (FS), with up to three at HQ light between 17 June – 10 July 2010, one at HQ light on 30 April 2011, one at HQ light on 15 July 2017, a single to light in The Elms on 27 May 2018 (SZW) and one to light in the Oasis on 04 July 2019 (ME). Singles recorded to light at Sandown Road on 09 June and at HQ on 14 July 2020 and on 04 July 2023 (IDH gen det DS).		
37.049 (533)	Pistol Case-bearer <i>Coleophora anatipennella</i> (Hübner)	Local	Jun-Jul
	Case recorded on the Estate on 28 May 1981 (NH).		
37.050 (532)	Sallow Pistol Case-bearer <i>Coleophora albidella</i> (Denis & Schiffermüller)	Local	Jun-Jul
	Case recorded on the Estate on 03 August 1957 (JMC-H). An adult recorded to light in the Oasis on 25 June 2020 (DS gen det).		
37.051 (537)	Cloaked Case-bearer <i>Coleophora kuehnella</i> (Goeze)	Local	Jun-Jul
	An adult female swept in Waldershare Gully on 15 June 2018 (DS gen det).		
37.052 (535)	Oak Pistol Case-bearer <i>Coleophora ibipennella</i> (Zeller)	Local	Jul-Aug
	Recorded to light in the Oasis on 25 June 2020 (AM/DS gen det)		
37.053 (536)	Birch Pistol Case-bearer <i>Coleophora betulella</i> (Heinemann)	Local	Jul-Aug
	Recorded to light at HQ on 11 June (IDH M gen det DS) and at Sandown Road on 18 June 2020 (IDH gen det DS).		
37.061 (530)	Downland Case-bearer <i>Coleophora lixella</i> (Zeller)	Nat S B	Jul-Aug
	Recorded to light on Princes Beach on 25 June 2020 (NHM) and a male at HQ on 12 July 2022 (IDH gen det DS).		
37.063 (544)	Gorse Case-bearer <i>Coleophora albicosta</i> (Haworth)	Common	Jun-Jul
	Singles at HQ light on 07 and 08 June 2010 and at Mary Bax on 23 April 2011. Singles recorded at HQ light on 10 May 2016 (IDH), on 26 May 2019 (DT) and on 06 and 07 July 2024 (MG&LN/IDH).		
37.065 (549)	Bugloss Case-bearer <i>Coleophora pennella</i> (Denis & Schiffermüller)	Nat S A	Jun-Jul
	Recorded on the Estate on 05 July 1977, in June 1989 and 07 June 2003. Adults found among Viper's Bugloss on seafront on 23 June 2005 (TD), 21 June 2008, 20 June 2009, 21 June 2010 and 29 May 2014. Two cases recorded on 17 July 2013 (TD). Two adults recorded in the field 21 June 2016 (FS). An adult recorded on the Estate on 15 June (AM, confirmed by size) and a single on Viper's Bugloss on 04 July 2018 (TD) and a female swept in Restharrow Dunes on 15 June (DS gen det). In 2019 recorded to HQ light on 26 May (DT), large adults observed on Viper's Bugloss in Restharrow Dunes on 21 June (SZW) and a female at HQ light on 23 June (IDH, gen det TD). In 2020 adults were recorded in the field and to light at HQ (IDH F gen det DS) on 13 June and on Princes Beach [five] (NHM) and a case in the Oasis on 25 June. An adult was recorded at HQ light on 22 June 2021 (IDH, gen det DS) and a case in the Gullies on 02 May 2022 (DS). In 2024 a larval case was identified attached to a fence post in Little Gully and four were found during a nocturnal search on Princes Beach (RL/PS/BH).		
37.069 (587)	Buff Rush Case-bearer <i>Coleophora caespitiella</i> (Zeller)	Common	May-Jun
	Recorded to light in the Haven on 25 June 2020 (SW F gen det PC).		

37.070 (583)	Jointed Rush Case-bearer <i>Coleophora tamesis</i> (Waters) Recorded to light in the Haven (SW F gen det PC) and in the Oasis (AM/DS gen det DS) on 25 June 2020.	Local	Jun-Aug
37.071 (582)	Grey Rush Case-bearer <i>Coleophora glaucicolella</i> (Wood) A male recorded to light in the Haven on 25 June 2020 (SW gen det PC).	Common	Jun-Aug
37.072 (578)	Wood-rush Case-bearer <i>Coleophora otidipennella</i> (Hübner) An adult was found amongst Field Wood-rush in the Whitehouse Paddock on 03 May 2010 and five were in the same area on 23 April 2011 (FS). Adults were recorded flying around Field Wood-rush in the Whitehouse on 13 May 2021 (SZW, gen det DS).	Local	May-Jun
37.073 (584)	Common Rush Case-bearer <i>Coleophora alticolella</i> (Zeller) A case was found on <i>Juncus</i> and the larva checked in Hundred Acre on 09 October 2021 (SZW/DS).	Common	Jun-Jul. late Apr-May
37.075 (575)	Sea-purslane Case-bearer <i>Coleophora salinella</i> (Stainton) Two larval cases found at Backsand Point on 01 November 2024 (SZW/DS)	Nat S A	Jul-Sep
37.083 (565)	Orache Case-bearer <i>Coleophora saxicolella</i> (Duponchel) A male recorded to light in the Oasis on 25 June 2020 (AM/DS gen det DS).	Local	Jul-Aug
37.084 (566)	Goosefoot Case-bearer <i>Coleophora sternipennella</i> (Zetterstedt) Recorded on 09 and 25 June, 21 July and in August/ September 1993 (IF gen det EB) with another on 20 July 1994 (ACJ gen det EB).	Nat S B	Jul-Aug
37.086 (568)	Pale Orache Case-bearer <i>Coleophora versurella</i> (Zeller), Recorded on 09 and 25 June and 21 July 1993 and to light on Princes Beach on 17 (F) and 18 (M&F) July 2024 (SW/PS gen det).	Local	Jun-Sep
37.087 (572)	Scarce Orache Case-bearer <i>Coleophora vestianella</i> (Linnaeus) Recorded on 07 July 1993 (ACJ & IF gen det EB) and to light at HQ on 07 July 2020 (IDH gen det DS), on 27 June 2022 (SB M gen det) and three on the Estate on 18 July 2024 (SW F gen det PH and M&F gen det PC).	Nat S A	Jun-Jul
37.090 (577)	Mugwort Case-bearer <i>Coleophora artemisicolella</i> (Braund) Two larval exit signs on Mugwort recorded at New Downs New Pool on 18 October 2020 (SZW/DS) and a female attracted to light in The Elms on 22 July 2024 (SB gen det).	Local	Jul-Aug
37.093 (559)	Thistle Case-bearer <i>Coleophora peribenanderi</i> (Toll) One adult male attracted to MV light on 25 June 2004 (TD gen det), a case recorded on the Estate on 13 June 2020 (AM/DS) and two males attracted to light on the Estate on 19 July 2024 (SW gen det PC).	Common	Jun-Jul
37.095 (556)	Verge Case-bearer <i>Coleophora trochilella</i> (Duponchel) One adult female netted on the Estate on 17 July 2013 (TD gen det) and another on 29 June 2022 (SB gen det)	Nat S B	Jun-Jul
37.099 (553)	Hedge Case-bearer <i>Coleophora striatipennella</i> (Nylander) Possibles recorded on the Estate on 05 August 1981, June 1989, June 1993 and on Lesser Stitchwort on Prince's on 27 June 2010 (FS). The first reliably identified adult was a male swept in Waldershare Gully on 15 June 2018 (DS gen det). A male and female recorded in the Little Gully on 13 June (SZW gen det DS) and another adult attracted to light in the Oasis on 25 June (AM/DS gen det) 2020. A male was recorded to light at HQ on 08 June 2023 (IDH gen det DS).	Common	May-Aug
37.102 (563)	Yarrow Case-bearer <i>Coleophora argentula</i> (Stephens) Recorded on the Estate in 1955, on 30 July 1965 and 05 August 1981. Very easily confused as an adult, given several similar species, but larval cases seen in the area including Middle Field on 10 April 2014 (FS), Whitehouse in November 2015 (DS), on 20 October 2017, on Hundred Acre on 14 October 2018 (SZW confirmed DS) and on Yarrow on the Ancient Highway on 30 October 2020 (SZW). Adults recorded in Oasis (AM/DS gen det) and on Princes Beach [two] (NHM tbc) on 25 June 2020. On Princes Beach a male was attracted to light on 17 July (SW gen det PH) and 20 larval cases were observed on 18 October 2024 (SZW)	Common	Jul-Aug
37.103 (555)	Agrimony Case-bearer <i>Coleophora follicularis</i> (Vallot) Larval cases found by FS on Fleabane on Prince's May 2009 and the Whitehouse on 12 April 2014. In 2024 larval cases were discovered on Common Fleabane on Waldershare Avenue on 03 (RL/PS/BH), in Middle Field on 15 (SZW/DS), three in the Whitehouse on 17 May and on the Estate on 11 June (SZW).	Local	Jun-Aug
37.107 (589)	Fat Hen Case-bearer <i>Coleophora clypeiferella</i> (Hofmann) Added to the British list in 1954. Recorded to light on the Estate on 18 and 19 July 2024 (SW F gendet PC).	Nat S A	Jul-Aug

37.108 (588) **Glasswort Case-bearer** *Coleophora salicorniae* (Heinemann & Wocke) **Nat S B** Jul-Aug
Singles at HQ light on 19 and 26 July 2010 (FS *et al*), 25 July and 14 August 2015 and 26 July and three on 03 August 2018. Two larval cases recorded on Hundred Acre on 14 October 2018 (SZW confirmed DS). Singles recorded to light on 01 August 2019 in the Hundred Acre and at HQ (both DT, gen det AG) and in the Oasis on 25 June 2020 (AM/DS gen det).

ELACHISTIDAE

- 38.004 (610) **Silver Grass-miner** *Elachista argentella* (Clerck) Common Apr-Aug
Recorded in small numbers on the Estate, at HQ light or at Sandown Road in 1971, 1983, 1989, 1993, 2003, 2005, 2009 to 2011, 2013 to 2024 between 20 April and 09 August.
- 38.007 (613) **Brown-barred Grass-miner** *Elachista subocellea* (Stephens) **Nat S B** Jun-Jul
An adult observed in the Whitehouse on 04 May 2022 (FS).
- 38.023 (595) **Twin-spot Sedge-miner** *Elachista biatomella* (Stainton) **Nat S B** May-Aug
A female observed in the Haven on 06 September 2024 (MG&LN gen det NJ)
- 38.024 (596) **Sweet-grass Miner** *Elachista poae* (Stainton) **Nat S B** May-Jun, Aug
Adults recorded at HQ light on 15 June 2020 (IDH, M gen det DS) and 13 May 2021 (SZW, gen det DS).
- 38.025 (597) **Cock's-foot Miner** *Elachista atricomella* (Stainton) Common May-Sep
Recorded on 09 June 1993, 24 June 2005 (TD gen det), 25 June 2009, 10 July 2010, at Mary Bax on 23 April 2011 and in the Whitehouse on 09 August 2013, 19 June 2015 (FS) and in 2016 on 18 June and three on 15 July (FS). Recorded at light in the Whitehouse on 07 (SZW) and 14 (FS), HQ on 15 (IDH) and Big Gully on 19 July 2017 and singles to light on 25 in the Whitehouse (SZW) and 27 May in The Elms (SZW) plus a field count of six on 15 (FS) and three to light in the Whitehouse (SZW) on 29 June 2018 plus a male swept in the Whitehouse (DS gen det). Recorded to light in the Whitehouse on 14 June and 12 July 2019 (FS), in the Oasis on 25 June 2020 (AM/DS gen det), at HQ on 04 June 2022 (IDH) and in The Elms on 30 June 2024 (KB).
- 38.030 (601) **White-headed Grass-miner** *Elachista albifrontella* (Hübner) Common mid May-Jul
Identified by FS on 25 April 2010, one at HQ light on 19 July 2014 and to light in the Whitehouse on 20, 24 and 26 May 2017 (SZW) and three on the beach on 16 June 2023 (KB).
- 38.036 (606) **Dusky Grass-miner** *Elachista humilis* (Zeller) Common May-Jul
A male recorded at HQ light on 25 June 2020 (IDH gen det DS).
- 38.037 (607) **Common Grass-miner** *Elachista canapennella* (Hübner) Common Jun-Aug.
Unconfirmed records on Prince's Golf Course on 27 June 2010, one in the Whitehouse on 10 April 2014 (FS) and singles recorded in the field in the Oasis on 24 April and to HQ light on 25 May 2020 (both SZW). The first confirmed record was a male to light in The Elms on 22 July 2024 (SB gen det).
- 38.038 (608) **Speckled Grass-miner** *Elachista rufocinerea* (Haworth) Common Apr-Jun
Singles recorded on 26 May 1993, in The Elms on 16 May 2005 and in the Whitehouse on 26 April 2009 (FS). At least 100 recorded in Middle Field at dusk on 23 April 2010 and 15 in the Whitehouse area on 23 April 2011. In 2016 a single was recorded in the field on 01 May (FS). Field records in the Whitehouse on 17 and 21 April 2017 (SZW). In 2018 singles were attracted to HQ light on 19 and 20 June. Singles were attracted to light on Worth on 07 May and at HQ on 08 and 10 July 2023.
- 38.039 (609) **Canary-grass Miner** *Elachista maculicerusella* (Bruand) Common May-Aug
Recorded in small numbers on the Estate in 1960, 1965, 1982, 1985, 1992, 1993, 1995, 2009, 2010, 2012, 2014 and 2015 between 26 May and 10 August. Singles recorded at HQ light on 10 June and 18 July 2016 (IDH), Recorded on the Estate or to light at HQ from 2018 to 2024 between 24 April and 13 August.
- 38.045 (629) **Bog Sedge-miner** *Elachista utonella* (Frey) **Nat S B** May-Aug
Singles attracted to light at HQ feeders on 23 June 2019 (SZW, M gen det TD), in the Oasis on 25 June 2020 (AM/DS gen det) and a male to light at HQ on 11 June 2023 (IDH gen det DS).
- 38.047 (631) **Dark Meadow Grass-miner** *Elachista freyerella* (Hübner) Local Apr-Jun, late Jul-Sep
A female recorded at HQ light on 07 September 2020 (IDH gen det DS).

PARAMETRIOTIDAE

39.001 (905) **Hawthorn Berry Moth** *Blastodacna hellerella* (Duponchel) Common May-Aug
Small numbers at HQ light or in The Elms in 2010, 2011, 2014 to 2024 between 09 June and 31 July (including a male attracted to light on 06 July 2022 (IDH gen det DS)).

39.003 (904) **Yellow Cap** *Spuleria flavicaput* (Haworth) Local May-Jun
Recorded on the Estate on 01 June 1994 (EB), on 30 May 2012 (FS), at HQ light on 26 May 2018 (SH/IDH), on 21, 24 May 2020 (SZW), 16 May 2022 (SZW/CJH) and on 23 May 2024 (GJL).

MOMPHIDAE

40.002 (886) **Amber Mompha** *Mompha ochraceella* (Curtis) Common late May-Jul
Recorded in small numbers in 1993, 2009 (FS), 2010, 2011, 2014 to 2020 and 2024 between 13 June and 16 August with a late record from 26 August 2020.

40.003 (887) **Buff-headed Mompha** *Mompha lacteella* (Stephens) **Nat S B** May-Aug
Recorded to light at HQ on 14 August 2023 (SH/IDH).

40.004 (888) **White-headed Mompha** *Mompha propinquella* (Stainton) Local Jun-Sep
Recorded to HQ light on 06 and 07 August 2019 (IDH) and on 04 August 2022 (IDH/SH).

40.008 (892) **Garden Mompha** *Mompha subbistrigella* (Haworth) Common Year round
Small numbers at HQ light in 2010, 2011, 2012, 2013 and 2014 between 19 April and 25 June and on 27 and 28 September. Singles recorded at HQ light on 04 and 16 July and 14 September 2016 (IDH, F gen det TD), 09 May in Middle Field (M gen det TD), to light at HQ on 17 May and 12 August and on the Estate Beach on 30 June (PF) 2017 and at Sandown Road on 08 May and at HQ feeders on 15 September 2020, at HQ on 19 May (IDH gen det DS) and 12 and 17 June 2022 and two on 03 June 2024 (IDH gen det DS). A single adult observed on the Estate on 29 February 2024 (SZW).

40.009 (891) **Rosebay Gall Mompha** *Mompha sturnipennella* (Treitschke) **Nat S B** Jul-May
Double-brooded. Recorded to light in the Oasis on 25 June 2020 (AM/DS gen det)

40.010 (893) **Buff Mompha** *Mompha epilobiella* (Denis & Schiffermüller) Common Year round
First recorded in 1981 and subsequently in small numbers in 2006, 2007 and from 2009 to 2015 between 12 April and 04 December (up to 25 in July 2015). From 2016 to 2024 up to 50 individuals recorded annually between 23 March and 05 November including a F (gen det TD) on 30 March and M (gen det TD) on 13 May 2017. In 2022 there were maxima of 17 observed in the Moffice on 23 March and 28 to light in the Haven on 12 July. Larvae recorded on the Estate on 15 June 2018 (AM et al), on 13 and 25 June 2020 and two yellowish larvae identified in spinings on Great Willowherb in the Gullies on 30 June 2024 (CV&KM).

BLASTOBASIDAE

41.002 (873) **Common Masoner** *Blastobasis adustella* (Walsingham) Common Jun-Nov
Recorded in 1981, 1983, 1993, 2002, 2005 (The Elms) and in small numbers (up to 10) annually from 2010 to 2015 between 03 June and 25 October. Exceptionally up to 70 in July 2014. From 2016 to 2024 at least 30-50 individuals recorded annually to light on the Estate and at HQ between 19 May and 23 October.

41.003 (874) **Large Pale Masoner** *Blastobasis lacticolella* (Rebel) Common May-Dec
Recorded on the seafront on 23 July 1985, with small numbers in 1993 (including three in the White House on 20 June) annually from 2009 to 2015 between 17 May and 30 October. From 2016 to 2023 20-50 individuals recorded annually to light on the Estate and at HQ between 04 May and 15 November (including a M (gen det SB) on 29 June 2022).

STATHMOPODIDAE

42.002 (877) **Alder Signaller** *Stathmopoda pedella* (Linnaeus) **Nat S B** Jun-mid Aug
First recorded in 2010 when singles were found in the Whitehouse on 19 June, on Alder in Middle Field on 23 June, in the Haven on 08 July, at HQ light on 19 and 20 July and at light on Worth marshes on 27 July. One in the Haven on 28 June 2015 (FS), one to HQ light on 15 July 2017, a field observation in the Whitehouse on 15 June 2018, to light in the Whitehouse and at HQ on 12, 23 and 24 July 2019, in the Oasis on 25 June and at HQ on 13 July 2020 and on the Estate on 06 and 12 July 2022 and on 19 July 2024.

ALUCITIDAE

44.001 (1288) **Twenty-plume Moth** *Alucita hexadactyla* (Linnaeus) Common Year round
Small numbers at light from 2009 to 2024 between 29 March and 14 November.

PTEROPHORIDAE

- 45.001 (1488) **Saltmarsh Plume** *Agdistis bennetii* (Curtis) Local May-Jun, Jul-Sep
A local salt marsh species, recorded in small numbers at HQ and in the Whitehouse annually from 2009 to 2020 between 25 May and 27 August. None were recorded in 2021. In 2022 an adult was attracted to light on Sandwich Bay Beach on 05 July. Recorded at HQ on 13 and 19 June and 04 and 06 August 2023.
- 45.004 (1501) **Triangle Plume** *Platyptilia gonodactyla* (Denis & Schiffermüller) Common May-Jun, late Jul-early Oct
Found by FS in the Whitehouse on 25 June 2009, at HQ light on 05 August 2015, two observed in Middle Field on 22 April 2017 (DS), a female at HQ light on 30 June 2019 (PF, gen det CH) and a single to HQ light on 23 July 2020.
- 45.008 (1504) **Yarrow Plume** *Gillmeria pallidactyla* (Haworth) Common Jun-Aug
Small numbers on the Estate and at HQ light from 1921 - 2024 between 31 May - 08 August, e.g., one-two on eight-10 dates in 2013 and 2014, four individuals recorded at HQ light on 15 July 2016 (FS) and 13 individuals recorded over eight dates between 01 June and 15 July with a maximum of 25 observed in the Whitehouse on 12 June 2017. One to two recorded to light on six nights between 27 June and 25 July 2022.
- 45.010 (1497) **Beautiful Plume** *Amblyptilia acanthadactyla* (Hübner) Common Year round
Recorded on the Estate in 1921 with only five further records to 2000. Became slightly more numerous with a further 18 records to 2010 between 14 May and 29 August, then small numbers annually between 14 May and 09 September from 2011 to 2024, e.g., in 2016 individuals recorded at HQ light on four dates from 22 June to 01 September (IDH), singles recorded at HQ light on three dates between 07 and 29 August and on 15 November 2017.
- 45.011 (1498) **Brindled Plume** *Amblyptilia punctidactyla* (Haworth) Local Year round
One observed in The Elms on 15 July 2017 (FS) and to light at HQ on 17 July 2023 (IDH) and over six nights between 05 August and 10 October 2024 (IDH et al).
- 45.012 (1509) **Brown Plume** *Stenoptilia pterodactyla* (Linnaeus) Common Jun-Aug
Recorded in small numbers at HQ windows on 30 June 1980, 13 - 18 July 1985, and 20 June 1989. More frequent since, with up to 20 on the Estate in June 2009, at least 100 on 04 July 2010 and 25 in the Whitehouse on 09 August 2013, for example. In 2016 a single was recorded in the field on 18 June also recorded at light on eight dates between 15 July and 05 September mainly at HQ but a maximum of 10 on both 15 July and 05 August were recorded at light in the Whitehouse (FS). From 2017 to 2024 recorded in similar numbers between 14 June and 06 November.
- 45.013 (1508) **Twin-spot Plume** *Stenoptilia bipunctidactyla* (Scopoli) Common May-Oct
Recorded at MV light on ten dates between 01 July and 01 August 1982, on 30 July 1983 and at Sandown Road on 20 June 2003 (IDH). Singles recorded to light in the Oasis on 04 and in Restharrow Dunes on 06 July 2019 (both ME) and in the Oasis on 25 June and 07 August and at HQ on 13 July 2020.
- 45.017 (1508c) **Small Scabious Plume** *Stenoptilia annadactyla* Unknown
This species first recorded in UK in 2005 in Breckland by Colin Hart. Recorded to HQ light on 16 July 2020 (IDH, gen det CH)
- 45.021 (1507) **Dowdy Plume** *Stenoptilia zophodactylus* (Duponchel) Local May-Nov
A female recorded at HQ light on 02 July 2019 (IDH, gen det CH).
- 45.022 (1496) **Rose Plume** *Cnaemidophorus rhododactyla* (Denis & Schiffermüller) **Nat S A** Jul-Aug
One at HQ light on 09 July 2010 (PDH/JGCB/JJS/FS).
- 45.023 (1495) **Crescent Plume** *Marasmarcha lunaedactyla* (Haworth) Local Jun-Aug
Recorded on the Estate in 1936 with 32 further records of small numbers to 2015 between 14 June and 09 August. Recorded at light in the Whitehouse on 15 July and at HQ on 19 July 2016, at HQ on 21 June (two) and 15 July 2017, in Restharrow Dunes on 04 July 2018 (GT), in the Oasis on 04 July 2019 (ME) and at Sandown Road on 17, Princes Beach on 25 and at HQ on 30 June 2020. Singles were recorded on the beach on 05 and 07 July 2022 and to HQ light on 19 and 21 June 2023 and on 09 and 18 July 2024.
- 45.025 (1490) **Small Plume** *Oxyptilus parvidactyla* (Haworth) Local May-Aug
One on Royal St. George's Golf Course on 21 May 2009 (FS).

- 45.026 (1491) **Breckland Plume** *Oxyptilus distans* (Zeller) **Nat S B** May-Sep
Recorded on the Estate from 1920 - 2009 and 2012 - 2016 between 21 May and 02 September. In 2018 a single was recorded to light on the Estate on 26 July (SZW, gen det CH). Singles recorded to light on the Estate on eight nights between 13 June and 22 September 2020 including one from the Oasis on 25 June (DS gen det). Singles recorded to light at HQ on 08 August 2021, on Princes Beach on 18 July 2022 (JC), in Middle Field on 23 June 2023 (KB) and two at HQ on 05 June (MG&LN) and one identified in the Oasis on 28 August 2024 (SZW).
- 45.027 (1492) **Scarce Light Plume** *Oxyptilus laetus* (Zeller) Migrant May-Oct
A female attracted to HQ light on 01 July 2019 (IDH, gen det CH) constituted the 70th known record for UK.
- 45.030 (1513) **White Plume** *Pterophorus pentadactyla* (Linnaeus) Common Jun-Sep
A common plume moth often seen about the area. Attracted to light most years between 22 May and 24 August up to 2020, e.g., in 2017 observed in Middle Field and Haven in late May and mainly singles recorded at HQ light on five dates between 26 May and 08 August with two on 15 July. The only record in 2021 was a sight record in The Elms on 02 July (IDH). Singles were recorded to light on the Estate or at HQ on seven nights between 07 June and 12 July and a single observed in the field on 27 June 2022. Between 12 June and 19 July 2023 eight individuals were recorded over five nights. In 2024 eleven individuals were recorded in the field or to light at HQ, Whitehouse or The Elms over five dates between 03 June and 18 July.
- 45.034 (1512) **Dingy White Plume** *Merrifieldia baliodactylus* (Zeller) **Nat S B** Jul-Aug
Recorded at HQ light on 16 July 2020 (IDH gen det CH) and on 12 July 2022 (IDH).
- 45.037 (1523) **Dusky Plume** *Oidaematophorus lithodactyla* (Treitschke) Local Jun-Aug
Recorded at light on the Estate on 30 July 1984, on 24 July 2014 (JGCB), and in the Whitehouse on 02 August 2014 (FS), 03 August 2015, five on 15 July 2016 (FS). Recorded to light at HQ on 26 June 2020 (IDH), 24 July 2021, singles to light in the Haven (FS) and at HQ (IDH) on 12 July 2022 and 12 July 2023. A larva was identified on Common Fleabane on 03 May 2024 (RL/PS/BH)
- 45.039 (1519) **Citron Plume** *Hellinsia carphodactyla* (Hübner) Local May-Jul, Aug-Sep
Singles attracted to light in The Elms on 14 August 2017 (SZW) and at HQ on 08 July 2023 (SH/IDH).
- 45.040 (1518) **Mugwort Plume** *Ovendenia lienigianus* (Zeller) **Nat S B** Jun-Sep
Larva found by FS on Mugwort on 21 May 2009, an adult at HQ light on 09 July 2012 and singles to light at HQ (KR) on 16 June and in the Haven (FS) on 12 July 2022.
- 45.043 (1517) **Hemp Agrimony Plume** *Adaina microdactyla* (Hübner) Common May-Sep
Recorded at HQ on 26 June 2004 (TD gen det), 20 July and 8 August 2009, on four dates between 26 June – 22 July 2010, on three dates between 28 June and 24 July 2013, on 02 August 2015, on 19, 21 and 27 (two) July 2016 (IDH), on 14 and 15 July 2017, to HQ light on 11 July and in the Whitehouse on 03 August 2018, to light in the Whitehouse on 14 June and at HQ on 23 July and 01 August 2019 and on the Estate on 11 August 2020. Singles were recorded to light in Middle Field on 06 July (KB), at HQ on (IDH) 15 July and 23 August 2022 and in Middle Field on 14 June (KB) and at HQ (IDH) on 02 September 2023. A larva was recorded on the Estate on 15 June 2018 (AM et al).
- 45.044 (1524) **Common Plume** *Emmelina monodactyla* (Linnaeus) Common Year round
11 records on the Estate from 1960 to 2006 between 04 April and 20 September. Recorded in small numbers from 2009 to 2015 (up to five annually). From 2016 to 2024 about 30-40 individuals recorded to light around the Estate and at HQ between 03 February and 24 November. One individual was identified as a Female through gen det on 25 August 2016 (TD) and another adult on 07 August 2024 (DS).

SCHRECKENSTEINIIDAE

- 46.001 (483) **Blackberry Skeletoniser** *Schreckensteinia festaliella* (Hübner) Common Apr-Sep
A single recorded to light in the Whitehouse on 14 June 2019 (FS).

EPERMENIIDAE

- 47.004 (484) **Carrot Ridge-back** *Epermenia aequidentellus* (Hofmann) **Nat S A** Jun-Jul, Sep-Oct
Three adults attracted to light in the Haven on 12 July 2022 (FS).

47.005 (483) **Common Ridge-back** *Epermenia chaerophyllella* (Goeze) Common Jul-Sep, Oct-Apr
 One trapped at Observatory on 8 August 2009, singles at Mary Bax on 23 April and at HQ light on 18 May 2011 and one in Middle Field on 10 April 2014. A mine was recorded at Prince's plantation on 27 July 2016 (DS). Two adults were recorded in The Elms on 01 April 2017 (SZW). Larval feeding signs were recorded on the Estate on 15 June 2018 (AM et al). In 2020 larval feeding signs were recorded on 13 June and adults were attracted to light at HQ on 01 July and in Restharrow Dunes on 12 August. A single was recorded to light at HQ on 14 August 2023 (IDH gen det DS) and on 01 August 2024 (IDH gen det DS).

47.006 (481) **Streaked Ridge-back** *Epermenia falciformis* (Haworth) Local May-Sep
 Recorded to light at HQ on 16 August 2024 (IDH gen det DS).

CHOREUTIDAE

48.001 (385) **Nettle-tap** *Anthophila fabriciana* (Linnaeus) Common Apr-Nov
 Double brooded. First recorded in 1978 and almost annual from 1988 to 2024 in The Elms, Middle Field and the Whitehouse between 12 April and 18 November, e.g., in 2017 four adults were observed in Middle Field on 05 April, 25 larvae recorded in the Whitehouse and five larval cases in the Gullies on 22 April (DS), 30 adults observed on the Green Wall on 14 May (SZW), two to light in the Whitehouse on 08 June and a single to HQ light on 15 July.

48.005 (386) **Beautiful Twitcher** *Tebenna micalis* (Mann) Migrant Jun-Aug
 One was found on Fleabane in the Whitehouse on 20 September 2015 (Photo FS).

48.007 (389) **Apple Leaf Skeletoniser** *Choreutis pariana* (Clerck) Local Jun-Mar
 One at HQ light on 02 October 2013 and on 06 September 2016 (KH/JAJ). A larva was identified in Jubilee Field on 22 August 2024 (SZW).

48.0071 (389a) **Fig-leaf Skeletoniser** *Choreutis nemorana* (Hübner) Adventive Jul-Aug
 First recorded in UK in 2014. Recorded on Princes Beach on 25 June 2020 [specimen retained] (NHM). Spinnings identified on Fig at Sandown Road on 22 August and in September and five larvae found in King's Avenue on 17 September 2021 (SZW). An adult observed in Big Gully on 12 September (MG&LN) and two to light at HQ on 16 October 2024 (GJL).

TORTRICIDAE

49.003 (1012) **Bog Snout** *Sparganothis pilleriana* (Denis & Schiffermüller) **Nat S A** Jun-Sep
 Recorded to light at HQ on 04 July 2023 (SH/IDH).

49.004 (1010) **Red-barred Tortrix** *Ditula angustiorana* (Haworth) Common May-Aug
 Recorded on the Estate in 1977, 2002 (two) and 2005 (Elms). Small numbers at HQ light and the Whitehouse in 2009, 2010 (up to nine), 2013-2024 (a single on 15 July in 2017) between 26 May and 22 August.

49.005 (1006) **Brown-barred Tortrix** *Epagoge grotiana* (Fabricius) Common May-Aug
 Singles at HQ light on 13 June 2009, 13 July 2010, 05 July 2012 and 16 July 2013. Singles to light on the Estate or at HQ on 15 June 2018, 01 (IDH) and 05 July 2019 (ME), 25 June 2020 and 11 July 2021 (IDH, gen det DS).

49.009 (1007) **Pale-shouldered Tortrix** *Capua vulgana* (Frölich) Common Apr-Jul
 Attracted to light at HQ on 25 May 2019 (DT).

49.013 (977) **Large Fruit-tree Tortrix** *Archips podana* (Scopoli) Common May-Jul, Aug-Oct
 Partially second brooded. Small numbers at HQ MV light in 1983, 1988, 1993, 1994, 2000, 2001, 2002, 2003 (Willows), 2005 (Elms), and annually from 2008 to 2024 between 24 May - 29 September.

49.015 (980) **Variiegated Golden Tortrix** *Archips xylosteana* (Linnaeus) Common Jun-Aug
 Singles at HQ light on 25 July 2008, 02 July 2009 (PDH), 09 August 2013 (JGCB) and 11 July 2015. A single field observation in Middle Field on 23 June 2018 and an adult to light on 25 June 2020 in the Oasis. Singles to light in The Elms on 23 June and 03 July 2024.

49.016 (981) **Rose Tortrix** *Archips rosana* (Linnaeus) Local Jun-Sep
 A single attracted to light in Middle Field on 31 July 2022 (KB).

49.018 (983) **Great Tortrix** *Choristoneura hebenstreitella* (Müller) Local May-Jul
 Recorded to light at HQ on 09 June 1993 (IF, ACJ confirmed EB), several on the beach on 23 June (TD), and in The Elms on 24 June 2005, and at HQ on 10, 13 and 15 June 2023 (GJL).

49.022 (1000) **Brindled Tortrix** *Ptycholoma lecheana* (Linnaeus) Common Jun-Jul
 An adult recorded to light in The Elms on 13 June 2021 (KB).

49.023 (971)	White-faced Tortrix <i>Pandemis cinnamomeana</i> (Treitschke)	Common	Jul-Sep	One trapped on 25 June, two on 25 July 2009 (P&PH) and singles recorded to light in the Whitehouse on 04 August 2017 (FS), in the Whitehouse on 03 (KB) and at HQ on 07 July 2024 (SH/IDH).
49.024 (969)	Chequered Fruit-tree Tortrix <i>Pandemis corylana</i> (Fabricius)	Common	Jul-Oct	Small numbers at HQ light in 2008, 2009, 2010 and annually from 2012 to 2016 between 12 June and 25 September. None were recorded in 2017. Three were attracted to light in the Whitehouse on 03 August 2018, singles at HQ on 03 August 2019, on 05 August (SH/IDH) and in Restharrow Dunes on 12 August 2020 (FS), in the Oasis on 22 August 2021 (SB&Tbi), in The Elms on 12 June (2) and 01 September 2023 (four) (MS) and on 03 July 2024 (CV/KM).
49.025 (970)	Barred Fruit-tree Tortrix <i>Pandemis cerasana</i> (Hübner)	Common	Jun-Sep	Recorded at light in 1993, 1994 (HQ), 2005 (Elms), 2006 (Willows) and annually in small numbers to light on the Estate and at HQ from 2008 to 2024 (IDH) between 06 June and 25 September.
49.026 (972)	Dark Fruit-tree Tortrix <i>Pandemis heparana</i> (Denis & Schiffermüller)	Common	Jun-Sep	Recorded on the Estate in 1927, 1955, 1977, 1983, 1988, 1993 - 1995, 2004, 2006 and annually in small to moderate numbers from 2009 to 2015, including up to 17 in 2013 and up to 25 in 2014. From 2016 to 2024 20-40 individuals annually on the Estate and to HQ light between 03 June and 22 September.
49.028 (986)	Dark-barred Tortrix <i>Syndemis musculana</i> (Hübner)	Common	Apr-Jul	One attracted to light at HQ on 22 May 2009, up to four on three dates between 15 and 20 May 2010, singles in The Elms on 24 June 2018, at HQ on 24 July 2021 (IDH), a very late one on 15 September 2022 (LS/IDH) and 05, 07, 25 and 29 July 2023 (SH/IDH).
49.029 (1002)	Large Ivy Tortrix <i>Lozotaenia forsterana</i> (Fabricius)	Common	May-Aug	Recorded on 23 June 2002, 11 July 2013, at HQ light on 12 June and 15 July 2017 (IDH), to light in the Whitehouse on 14 June 2019 (FS) and on Princes Beach on 25 June and at HQ on 07 July 2020.
49.030 (985)	Carnation Tortrix <i>Cacoecimorpha pronubana</i> (Hübner)	Common	Year round	Singles recorded on the Estate in 1982 and at HQ light in 2005, 01 August 2009, 13 September 2010, 02 October 2013 and 11 August 2015. A single field observation on 31 May 2018 in the Little Gully (SZW). Attracted to light at HQ on 24 June 2019 (IDH), singles at Sandown Road on 19 May and 08 August 2020, a field observation in the Gullies on 02 May (DS) and to light at HQ (LS/IDH) on 13 September 2022 and at Sandown Road on 07 October 2023.
49.031 (989)	Timothy Tortrix <i>Zelotherses paleana</i> (Hübner)	Common	May-Aug	Recorded on the Estate in 1954 with subsequent records at HQ in 1989, 1993 (four), 2002 (golf course) and on the Estate in 2005 (TD), 2006 and annually from 2009 to 2024 between 17 May and 28 August. Larvae were identified on the Estate on 15 June 2018, on Restharrow Scrape field on 07 October 2023 (SR) and in Dragonfly Pond Field on 20 June 2024 (SZW).
49.033 (988)	Bilberry Tortrix <i>Aphelia viburnana</i> (Denis & Schiffermüller)	Common	Jun-Sep	One on Hundred Acre Field on 23 July 2010 (FS et al). A single was observed in Hundred Acre Field on 15 June (AM et al) and two were recorded to HQ light on 30 June 2018.
49.037 (993)	Cyclamen Tortrix <i>Clepsis spectrana</i> (Treitschke)	Common	May-Nov	Recorded on the Estate in small numbers in 1950, 1984, 1987, 1988, 1993 (up to eight), 2001, 2002, 2005 and annually from 2009 to 2024 between 29 April and 14 November.
49.038 (994)	Rufous Tortrix <i>Clepsis consimilana</i> (Hübner)	Common	late May-Aug, Sep-Oct	Recorded on the Estate in 1961, 1981, 1989, 1993 (five), in the dunes near the sea in 1995, at HQ light in 2004, in The Elms in 2005 (TD), at HQ light in 2010 (up to five), 2011, 2013 (up to eight), 2014, and 2016 to 2024 at HQ, on the Estate and at Sandown Road between 07 June and 24 October.
49.039 (998)	Light Brown Apple Moth <i>Epiphyas postvittana</i> (Walker)	Common	Year round	First found in Kent in 1986 (naturalised from Australia) and now common and widespread. Recorded on the golf course in 2002 and at HQ in 2004. Since then, there have been many records between 11 January and 22 December up to 2024, with peak counts of 73 on 31 August 2009, 55 on 22 September 2013 and 33 on 06 September 2016.
49.040 (1001)	Orange Pine Tortrix <i>Lozotaeniodes formosanus</i> (Frölich)	Common	May-Aug	Recorded on the Estate in 1951, 1954, 1967, 1981, 1993, 1994 (three) 1995, 2002, 2003 and 2005. Small numbers annually from 2009 to 2024 between 15 June and 24 August, with one on 19 April 2011. Exceptionally, 13 at light on the Estate on 04 July 2015.
49.041 (999)	Summer Fruit Tortrix <i>Adoxophyes orana</i> (Fischer von Röslerstamm)	Nat S B	Jun, Aug-Oct	One at HQ light on 23 August 2012, up to three between 25 August and 21 September 2013, singles on 23 & 24 July 2014, 19 August 2016 (IDH), 14 June 2017, on 03 August 2018, 01 August 2019 (DT, gen det AG) and on 01 and 04 September 2023.

49.042 (1027)	Dingy Hedge Grey <i>Neosphaleroptera nubilana</i> (Hübner) One in the Whitehouse on 09 August 2013 (FS) and one field record on 11 June 2016 (FS).	Local	Jun-Aug
49.044 (1025)	Spring Harbinger <i>Tortricodes alternella</i> (Denis & Schiffermüller) Nine at HQ light on 11 February 2011 (JGCB) and two recorded in the field in The Elms on 17 February 2022 (DS).	Common	Feb-Apr
49.045 (1029)	Dotted Cloak <i>Eana osseana</i> (Scopoli) Two recorded to light on Princes Beach on 25 June 2020 (NHM).	Local	Jun-Jul
49.046 (1028)	Silver Cloak <i>Eana argentana</i> (Clerck) This very localised species is only known in Britain from a couple of mountainous areas of the Scottish Highlands, although there are a small number of older unconfirmed records from elsewhere. Recorded to light at HQ on 23 June 2022 (IDH gen det DS) which was thought to be a first for England (Dungeness had one at about the same time) and 01 August 2024 (SH/IDH photo confirmed DS).	pRDB1	Jun-Jul

Cnephasia species generally require gen det to separate the adults:

49.049 (1024)	Light Grey Tortrix <i>Cnephasia incertana</i> (Treitschke) Recorded on the Estate on 08 and 09 July 1977 (BM (NH)). Ten attracted to the MV light between 26 May and 04 July 1993 (ACJ gen det EB). Single adults attracted to light in Waldershare Gully on 22 May 2018 (SZW, gen det DS), at HQ on 13 June and 13 July [M] 2020 (both IDH gen det DS) and on 04 (IDH M gen det DS) and 28 (SB F gen det) June 2022 and on 31 May 2023 (IDH gen det DS). A larva r recorded in the Whitehouse on 22 April 2017 (DS).	Common	May-Aug
49.050 (1020)	Grey Tortrix <i>Cnephasia stephensiana</i> (Doubleday) An exuvia was identified on Viper's Bugloss on 06 June 2018 (DS) and singles were recorded to light on the Estate on 15 June (M, DS gen det), 28 June (SZW, M gen det TD) and at the HQ bird feeders on 14 July 2018 (SZW, F gen det TD), at HQ on 11 June 2019 (IDH, M gen det TD) and on 15 and 17 [F] June (IDH gen det DS), in the Oasis on 25 June 2020 (AM/DS gen det) and at HQ on 24 July 2021 (IDH, F gen det DS), on 27 June 2022 (SB 2 x M gen det) and on 01 July 2024 (IDH gen det DS). A few unconfirmed records were recorded to light annually from 2020 to 2022 and 2024.	Common	Jun-Aug
49.051 (1021)	Flax Tortrix <i>Cnephasia asseclana</i> (Denis & Schiffermüller) Singles on the Estate on 08 - 09 July 1977 (BM (NH) gen det. A female attracted to HQ light on 03 June 2019 (SZW, gen det TD). There was an unconfirmed record on Princes Beach on 25 June 2020 (NHM)	Common	May-Aug
49.052 (1022)	Meadow Grey Tortrix <i>Cnephasia pasiuana</i> (Hübner) Eight recorded between 03 and 24 July 1993 (ACJ gen det EB), a female in the Haven on 15 June 2018 (DS gen det), an adult to light in the Oasis on 25 June 2020 (AM/DS gen det) and a male to light in The Elms on 20 July 2024 (SB gen det).	Local	Jun-Jul
49.053 (1022a)	Cereal Tortrix <i>Cnephasia pumicana</i> (Zeller) Colonising SE England (from 1986). A female recorded to light at HQ on 31 July 2020 (IDH gen det DS).	Local	Jul-Aug
49.054 (1023)	Scarce Grey Tortrix <i>Cnephasia genitalana</i> (Pierce & Metcalfe) Recorded to light in The Elms on 22 July 2024 (SB gen det).	Local	Jul-Aug
49.055 (1018)	Southern Grey Tortrix <i>Cnephasia communana</i> (Herrich-Schäffer) Recorded to light at HQ on 20 May 2024 (IDH/gen det DS).	Local	May
49.057 (1016)	Buff Grey Tortrix <i>Cnephasia longana</i> (Haworth) This is the only <i>Cnephasia</i> species not to require gen det. Recorded on the Estate in 1960, 1965, 1971, 1977, 1979, 1981, 1983, 1985, 1989, 1993, 2001, 2002 and annually in small to moderate numbers from 2009 to 2016, including 15 on 20 July 2010 and up to 23 in July 2014 between 01 June and 01 September. Two recorded at light in the Whitehouse on 15 July 2016 (FS). It was not recorded in 2017 or 2018. Attracted to compact fluorescent light on the Estate Beach on 05 and in Restharrow Dunes on 06 July (both ME) and to MV light on Princes Beach on 28 July 2019 (DG) and in the Whitehouse on 17 July 2020 (MB). Twelve individuals to light at Princes Beach on 17 (SW), and singles at HQ on 18 (M) and 28 July 2024 (IDH).	Common	Jun-Aug
49.059 (1033)	Green Oak Tortrix <i>Tortrix viridana</i> (Linnaeus) One of the best known tortrices, quite common in the area and regularly attracted to light up to 2024 from 03 May to 08 September, including three on the beach on 23 June 2005 (TD), 72 on 13 June 2009, up to 23 in June 2010 and up to 20 in June 2011, but only one in 2013. In 2017 nine were recorded on 17 June at HQ light and on 31 May 2018 53 were recorded. 655 were recorded to light at HQ on 11 June 2023.	Common	May-Aug

49.060 (1032)	Yellow Oak Tortrix <i>Aleimma loeflingiana</i> (Linnaeus)	Common	Jun-Aug	Small numbers at HQ light in 2008 to 2011, 2014 and 2015 between 13 June and 25 July. Singles were recorded at HQ light on 14 and 22 June and 15 July 2017. None were recorded between 2018 and 2020. Singles were recorded to light at HQ on 30 June 2021 (IDH) and at Sandown Road on 17 June 2022. Between 20 June and 01 July 2023 seven individuals were attracted to light at HQ over five nights and a single on 23 June 2024.
49.061 (1037)	White-marked Tortrix <i>Acleris holmiana</i> (Linnaeus)	Common	July -Sep	Two at HQ light on 4 July 2009, one on 06 August 2013 and a single on 11 July 2019 (SH/IDH).
49.062 (1036)	Netted Tortrix <i>Acleris forsskaleana</i> (Linnaeus)	Common	May-Sep	Recorded in 1993, 2002 and 2006, then small numbers varying annually from 2008 to 2024 between 13 June and 27 August. e.g., singles were recorded at HQ light on 17 and 22 June and 10 and 19 July 2017 increasing to 14 individuals recorded over nine dates between 15 and 30 July 2018 with a maximum of three on 26 July.
49.063 (1035)	Yellow Oak Tortrix <i>Acleris bergmanniana</i> (Linnaeus)	Common	May-Aug	One-two at HQ light on three dates between 07 and 14 July 2013 (JGCB confirmed FS) and a single on 07 June 2022.
49.065 (1039)	Strawberry Tortrix <i>Acleris comariana</i> (Lienig & Zeller)	Local	Jun-Jul and Oct-Nov	Small numbers on the Estate in 1950 (larvae) (HCH). Recorded at HQ MV light on 23 and 25 June 1993 (ACJ gen det EB) and an unconfirmed record in The Elms on 02 September 2023 (MS).
49.066 (1038)	Dark-marked Tortrix <i>Acleris laterana</i> (Fabricius)	Common	Aug-Sep	Only safely distinguishable from the previous species by gen det. A male was attracted to light at HQ on 25 August 2021 (IDH, gen det DS) with other unconfirmed singles in The Elms on 16 August 2021 and 19 August 2024.
49.069 (1041)	Lead-coloured Tortrix <i>Acleris sparsana</i> (Denis & Schiffermüller)	Common	Aug-Jan	Singles at HQ light on 07 October 2013, on 07 October 2016 (IDH) and a male on 04 September 2023 (IDH gen det DS).
49.070 (1042)	Rhomboid Tortrix <i>Acleris rhombana</i> (Denis & Schiffermüller)	Common	Jun-Nov	Recorded in small numbers in 1984, 2009, 2011, 2013, 2014 and 2017 between 26 July and 18 October. After none in 2018 singles were recorded to light in the Whitehouse on 02 August 2019 (FS), at HQ on 17 October 2020, on 25 September 2021 (MS/PS/DL) and at HQ on 22 May, 29 July and 11 August (IDH gen det DS) and in The Elms on 01 September 2023 (MS).
49.073 (1047)	Viburnum Tortrix <i>Acleris schalleriana</i> (Linnaeus)	Local	Jun-Aug, Sep-May	One at light on 03 July 2014. The larva has been found on Wayfaring Tree in Middle Field (FS) and in The Elms on 03 May 2024 (RL/PS/BH). Singles to the HQ light on 21 Oct 2016 (IDH), 09 March 2017, 05 October 2018, 09 and 10 July 2019, 27 October 2020 and on 23 October (IDH, M gen det DS), 10 November 2021 and two on 03 March 2022.
49.075 (1052)	Dark-streaked Tortrix <i>Acleris umbrana</i> (Hübner)	Nat S A	Jul-Aug, Oct-Apr	First recorded to light in The Elms on 17 July 2018 (SZW/IDH). Singles recorded to light in The Elms on 09 July and at HQ on 20 July 2020, on 07 and 08 February and 05 and 08 July 2022 (GJL/IDH) and at HQ on 10 July (IDH), in The Elms on 01 September (MS), at HQ on 14 October 2023 (GJL) and on Princes Beach on 17 July 2024 (SW).
49.076 (1054)	Tufted Tortrix <i>Acleris cristana</i> (Denis & Schiffermüller)	Common	Aug-Apr	Recorded at HQ light on 26 August 2007 and 23 and 29 March and 16-17 July 2010. Seven records of up to three in 2011, singles on 03 May and 02 October 2013, 03 July 2015, 24 July 2019 (SH/IDH) and 05 September 2021 (IDH). In 2024 singles observed in the Whitehouse on 04 January and recorded to light in The Elms on 09 March.
49.077 (1048)	Garden Rose Tortrix <i>Acleris variegana</i> (Denis & Schiffermüller)	Common	Jun-Nov	Recorded on the Estate in small numbers in 1974, 1982, 1983, 1993, 1994, 1995 and annually from 2004 to 2024 between 08 June and 31 October, including 20 on 22 September 2013. In 2017 30 individuals were recorded over 25 dates.
49.078 (1043)	Small Rufous Tortrix <i>Acleris aspersana</i> (Hübner)	Common	Jul-Sep	Recorded on the Estate on 5 August 1981 and singles at HQ light on 22 July 2015, 24 July 2018 (SZW) and 21 August 2021 (IDH).

- 49.080 (1053) **Varied Tortrix** *Acleris hastiana* (Linnaeus) Common Jun-May
Reported as common on the Estate from 1921-1985 between 06 May and 02 April. More recently, small numbers annually from 2009 to 2024 between 01 January and 22 December. One recorded at HQ light 07 October 2016 (F gen det TD), e.g., in 2017 mainly singles were recorded on 10 dates between 17 October and 19 March plus a couple of individuals in July.
- The two species below are inseparable except by genital examination. Unconfirmed records include: one-two were trapped at HQ light on 2-3 July 2009, with further singles on 12 July and 20 November. Singles on 06 April and 07 July 2010, 27 July 2011 and 08 October 2012.
- 49.083 (1044) **Tawny Oak Tortrix** *Acleris ferrugana* (Denis & Schiffermüller) Common Jul, Sep-Apr
A male was recorded to light at Sandown Road on 26 June 2020 (SH/IDH gen det DS) and at HQ on 29 June 2022 (IDH F gen det DS)
- 49.084 (1045) **Tawny Birch Tortrix** *Acleris notana* (Donovan) Common Jun-Aug
A larva was recorded on Alder in the Haven on 25 June 2020 (AM/DS).
- 49.085 (1061) **Lichen Tortrix** *Acleris kochiella* (Linnaeus) Local Jul-May
Recorded to light in The Elms and in Middle Field on 19 July 2023 (KB) and netted in the Gullies on 30 June (CV&KM) and to light in The Elms on 22 July 2024 (SB gen det).
- 49.087 (1050) **Elm Tortrix** *Acleris literana* (Goeze) Local Jun-Aug, Sep-Apr
A larval spinning recorded on 20 September 2012 (TD). Singles to light at HQ on 11 July 2015 (DG) and in The Elms on 06 August 2024 (KB).
- 49.090 (1015) **The Minister** *Eulia ministrana* (Linnaeus) Common Apr-Jul
A woodland species recorded to light at HQ on 05 June 2010. (JGCB), two in The Elms area on 23 August 2021 (KB) and a single there on 06 July 2022 (KB).
- 49.091 (1011) **Yellow-spotted Tortrix** *Pseudargyrotoza conwagana* (Fabricius) Common May-Aug
Recorded at HQ light on 03 July 1988 and in small numbers in 2009-2011, and to light on the Estate and at HQ in 2014-2022 between 17 May and 12 August, e.g., in 2017 mainly singles were recorded on eight dates between 17 May and 15 July. Recorded to light at HQ on 30 July and 10 August (two) 2024.
- 49.092 (921) **Fleabane Drab** *Phtheochroa inopiana* (Haworth) Local May-Aug
Recorded on the Estate in 1950, on 30 July and August/September 1993, on 13 June 2009 and in small numbers from 2010-2024 between 25 May and 01 September.
- 49.095 (925) **Rugged Bryony Beauty** *Phtheochroa rugosana* (Hübner) Common Apr-Jul
Small numbers at HQ light in 2011 and 2014-2019 between 25 May and 15 July. In 2019 only a single was recorded and in 2020 there were no records. Singles were recorded to light in the Whitehouse on 02 June, in The Elms area on 13 June (two) and at HQ on 02 July 2021. In 2022 singles were recorded on the Estate and at HQ over five nights between 11 May and 06 July (KB/IDH) and recorded to light in Middle Field on 23 (KB), at HQ on 28 June 2023 (SH/IDH) and in The Elms on 02 and 30 June 2024.
- 49.097 (936) **Common Straw** *Cochylimorpha straminea* (Haworth) Common May-Jul, Aug-Sep
Singles at HQ light on 14 August 1988 and 25 June 2009, then small to moderate numbers in 2010, 2011, 2013 to 2024 between 25 May and 08 September, e.g., in 2017 20 on 15 July at HQ light and 60 on 04 August in the Whitehouse.
- 49.098 (935) **Kent Straw** *Cochylimorpha alternana* (Stephens) pRDB3 Jul-Aug
Recorded on the Estate and golf links on 30 August 1974 and 18 June 1977. Attracted to light on the beach on 23 June 2005 (TD), on 02 August 2019 (CM), on 13 June 2020 (AM/DS gen det) and in The Elms area (three) on 05 September 2021 (KB). Five singles were recorded to light on Princes Beach on 18 July 2022 (JC) and three on 17 July 2024 (SW).
- 49.101 (926) **Water Mint Straw** *Phalonidia manniana* (Fischer von Röslerstamm) Local May-Sep
This species requires gen det to exclude *P. udana*.
The first confirmed ID was a single on 03 August 2018 in the Whitehouse (FS, M gen det TD). A male to light on 31 May 2019 at HQ (IDH, gen det TD), a single adult to light in the Oasis on 25 June 2020 (AM/DS gen det), a male on the Estate on 27 June 2022 (SB gen det) and to light in Jubilee Field on 30 June (CV&KM gen det) and on 14 and 16 August 2024 (IDH gen det DS).
The following records are probable *P. manniana*: recorded on the Estate in 1950, with one-two in the Whitehouse on 24 and 25 June 2009 (FS) and on six dates between 02 June and 14 August 2010. One-two in the Whitehouse on 19 June and 17 July 2015. Three at light on 15 July 2016 (IDH). Singles to HQ light 22 June and 01 August 2017, on 12 July 2018, to light in Restharrow Dunes on 06 July 2019 (ME), at HQ on 09 and 14 August and 14 September 2020 (SH/IDH), on 21 August 2021 (IDH), on 04 August 2022 and 10 September 2023 and 17 July 2024.

- 49.102 (926a) **Loosestrife Straw** *Phalonidia udana* (Guenée) Unknown distribution in UK
Recent DNA analysis has separated this from the above species. **Probable first confirmed records for Kent.** Males recorded to HQ light on 02 and 05 August 2020 (IDH gen det DS).
- 49.103 (932) **Aster Straw** *Phalonidia affinitana* (Douglas) Local Jun-Aug
Three on Sampher saltmarsh on 28 June 2010 (FS *et al*), five-six at HQ light on 25/26 July 2013, to light on the Hundred Acre on 01 August 2019 (DT, gen det AG) and on 17 July 2020 [five] (MB).
- 49.105 (929) **Saltern Straw** *Gynnidomorpha vectisana* (Humphreys & Westwood) Local May-Sep
There were unconfirmed records of a single on Sampher saltmarsh on 28 June (FS) and ten in the Hundred Acre Field on 23 July in 2010 (FS *et al*). The first confirmed record was a female attracted to the light at HQ on 15 August 2021 (IDH, gen det DS).
- 49.108 (930) **Water-plantain Straw** *Gynnidomorpha alismana* (Ragonot) **Nat S B** May-Aug
Recorded on the Estate in 1950 bred from larva (CCH) and recorded to light at HQ on 09 September 2024 (IDH gen det DS).
- 49.109 (937) **Garden Straw** *Agapeta hamana* (Linnaeus) Common May-Sep
Common at MV light and recorded in 1975, 1994, 1995 and annually from 2000-2024 between 02 May - 10 October, e.g., in 2018 130 individuals were recorded to light on the Estate and at HQ over 37 dates with a maximum of 20 on 03 August in the Whitehouse.
- 49.110 (938) **Bright Straw** *Agapeta zoegana* (Linnaeus) Common May-Aug
Singles at HQ MV light on 14 August 1988, 26 July 1994, 11 August 1995, 18 July 2009, 23 August 2012, 12 August 2014, 21 July 2015, 15, 28 and 30 July 2016 and 04 August (Whitehouse) and 14 and 19 July and 01 and 04 August at HQ light 2017. From 2018 to 2024 up to 30 individuals were recorded to light on the Estate and at HQ between 25 May and 22 August with maxima of eight on 03 August 2018, ten on 03 August 2019 and 30 on 20 July 2022.
- 49.111 (954) **Dark-barred Straw** *Eupoecilia angustana* (Hübner) Common Jun-Sep
Recorded at HQ light in 1982, 1983, 1989, 1993 (2), at The Elms in 2005 and in small numbers at HQ annually from 2009 to 2024 between 16 May and 22 September, e.g., in 2017 25 individuals were recorded at HQ light and in the Whitehouse over nine dates between 16 May and 25 August with a maximum of 12 on 04 August.
- 49.112 (955) **Vine Moth** *Eupoecilia ambiguella* (Hübner) **Nat S B** May-Sep
Two trapped at HQ on 10 August 2009 (JGCB), with one-two on 10 and 12 August 2012 (JGCB), one on 23 August 2013 (JGCB), singles on 13 June on the Beach (AM/DS), 25 June in the Oasis (AM/DS) and on the Estate on 11 August 2020 (KB) and a single to HQ light on 25 July 2021 (IDH).
- 49.116 (944) **Silver-speckled Straw** *Aethes williana* (Brahm) **Nat S B** May-Aug
Found by FS on the Estate on 15 May 2009.
- 49.118 (948) **Silver-striped Straw** *Aethes margaritana* (Haworth) **pRDB2** Jul-Aug
Restricted to chalk downs and shingle beaches. Recorded on the Estate in 1922, 1948, 1964 and 1969, 1981 (English Nature, 1991), 1989 and 1993, 2001, 2005 (beach (TD)) 2006 (golf course), 2010, 2012-2014 and at HQ light in 2016 (IDH) between 22 June – 09 August. Singles on 10 July at HQ light and 14 July 2017 in the Whitehouse and singles to light at HQ on 20 July and in the Whitehouse on 26 July 2018 and in the Oasis on 04 July 2019 (ME). Ten adults were recorded to light at HQ (IDH), and in the Oasis (AM/DS) and Whitehouse (MB) over six nights from 25 June to 18 July 2020 and individuals were recorded on the beach on 15 (KB) and 18 (JC) July 2022 and observed there on 02 July 2024 (CV&KM).
- 49.120 (947) **Common Marbled Straw** *Aethes smeathmanniana* (Fabricius) Common May-early Jul, late Jul-Oct
Recorded on the Estate in 1955, 1982, 1983, 1987 (4), 1993 (12) and in small numbers on the Estate and to HQ light in 2009-2011, 2013-2024 between 10 May and 16 September, e.g., in 2016 recorded on 23 dates involving 47 individuals with a maximum of 14 on 05 August and similar numbers in 2017 and 2018.
- 49.121 (939) **Four-spotted Straw** *Aethes tessera* (Denis & Schiffermüller) Local May-Aug
First recorded on the Estate in July 1960, then four between 17 May - 24 June 1993 and singles to light at HQ on 24 June 2000 and two on Princes Beach on 25 June 2020 (NHM). Three were observed on New Downs on 16 June 2019 and eight on 10 June 2020 (SZW).
- 49.123 (951) **Broad-barred Straw** *Aethes beatricella* (Walsingham) Local Jun-Jul
Recorded on the Estate in June 1989, several attracted to light in The Elms on 24 June 2005 (TD), on 13 and 14 June 2009 (P&PH) and in small numbers on the Estate and to HQ light in 2010, 2013 to 2015, 2017 to 2021 between 29 May and 07 August. 21 individuals recorded to light at HQ or Middle Field over nine nights between 11 and 29 June 2023 and 23 individuals recorded over 15 nights between 29 May and 04 July 2024.

49.124 (950)	Narrow-barred Straw <i>Aethes francillana</i> (Fabricius)	Local	Jun-Sep	Recorded on the Estate on 5 August 1981 and at HQ light on 25 July 2008, then small numbers in 2009, 2010 (up to nine), 2011, 2012, 2013 and 2014 (up to 11). In 2016 recorded at HQ light on 22 June (eight) and 23 June (two) (IDH). Recorded between 01 June and 31 August. None were recorded from 2017 to 2023. Two singles recorded to light in The Elms on 23 June 2024 (KB).
49.127 (945)	Thistle Straw <i>Aethes cnicana</i> (Westwood)	Common	Jun-Jul	Recorded on the Estate in 1950, at HQ light on 01 August 2011 and in small numbers in 2012-2017 (IDH) between 22 May and 05 August. None were recorded from 2018 to 2024.
49.128 (946)	Burdock Straw <i>Aethes rubigana</i> (Treitschke)	Common	Jun-Aug	Recorded at HQ light on 19 July 1988 with two on 17 July 1993 (IDH confirmed CP), singles on 30 August 2013, 02 August 2014 and on 22 July and 08 and 12 (two) August 2016, and singles recorded to light in the Whitehouse on 03 August 2018 (FS), in the Oasis on 25 June and at HQ on 11 and 21 July 2020 and on 11 July (IDH) and 14 August (GJL) 2022.
49.132 (956)	Chamomile Straw <i>Cochylidia implicitana</i> (Wocke)	Local	May-Aug	One-two at HQ light on 24 May (PDH) and 31 July (PDH/JGCB) 2010, 24 July 2011 (JGCB), 12 August 2012, 01 August 2014, and singles to light in the Whitehouse on 02 August 2019 (FS) and in the Oasis on 07 August 2020 (AM/DS).
49.134 (962)	Rosy Straw <i>Cochylis roseana</i> (Haworth)	Local	May-Aug	Singles at light at HQ on 20 July 2011 (FS), in the Whitehouse on 15 July 2016 (FS), at HQ light on 26 Jul 2017 (F gen det TD) and to light in the Oasis on 07 August 2020 (AM/DS).
49.136 (965)	White-fronted Straw <i>Neocochylis hybridella</i> (Hübner)	Local	Jun-Sep	Recorded on the Estate in June 1989, at HQ in 1993, 1994 and 2007, then small numbers annually from 2008 to 2024 between 05 May and 18 September, e.g., in 2017 23 individuals were recorded over 17 dates between 29 May and 21 August with a maximum of six on 20 August.
49.137 (964)	White-faced Straw <i>Neocochylis dubitana</i> (Hübner)	Common	May-Aug	Recorded on 02 and 09 June 1993, 13 August 1994 in The Elms on 24 June 2005 (TD) and on the Estate and to HQ light in 2009, 2010, 2013, 2015, 2016 (IDH) and 2018 to 2020 between 18 May and 27 August. Recorded to light on the Estate, Beach, HQ and Sandown Road in singles or twos over six nights between 15 July and 16 August 2022, at HQ on 23 and 24 August 2023 and on 21 August and 07 September 2024.
49.138 (964a)	Tawny-fronted Straw <i>Neocochylis molliculana</i> (Zeller)	Local	May, Jul-Aug	Small numbers on the Estate and at HQ light in 2010, 2011, 2013-2024 (IDH et al) between 15 May and 15 October.
49.139 (966)	Black-fronted Straw <i>Cochylis chroa atricapitana</i> (Stephens)	Common	Apr-Jun, Jul-Sep	Recorded on the Estate in 1974, 1977, 1983, 1988, 1993, 2002, 2004, 2006 and annually from 2008 to 2024 between 16 April and 10 October.
40.143 (1114)	Apple Marble <i>Eudemis porphyra</i> (Hübner)	Nat S A	Jul-Aug	Recorded at HQ light on 09 July 2017 (SZW/IDH) and on 18 July 2023 (IDH).
49.144 (1113)	Oak Marble <i>Eudemis profundana</i> (Denis & Schiffermüller)	Common	Jul-Sep	Singles at HQ light on 14 August 2009 (PDH/AP), 08 August 2012 (JGCB), 04 July 2014(JGCB) and 05 July 2015. In 2018 singles were recorded to light in the Whitehouse on 13 July and 03 August (FS) and to HQ light on 17 and 24 July (IDH). A single recorded to light in the Whitehouse on 12 July 2019 (FS) and in the Oasis and on Princes Beach (five) on 25 June and at HQ on 22 July 2020 and in the Haven on 12 July 2022 (FS). Five individuals recorded to light at HQ or in Middle Field over four nights between 09 July and 14 August 2023 (This last a male at HQ - IDH gen det DS). Singles recorded to light on Princes Beach on 17 (SW) and in The Elms on 22 July (SB) and 06 August 2024 (KB).
49.150 (1093)	Birch Marble <i>Apotomis betuletana</i> (Haworth)	Common	Jun-Sep	Singles at HQ light on 12 July 1988 (IDH confirmed CP), at light in the Oasis 25 June 2011 (FS), and two on 02 September 2012 and singles at light on 09 and 10 August 2014.
49.154 (1087)	Dusky Marble <i>Orthotaenia undulana</i> (Denis & Schiffermüller)	Common	May-Aug	Recorded on the Estate in 1955, 08 June 1958, in The Elms on 24 June 2005 (two) (P&PH) and to light on the Estate on 15 June 2018 (AM et al).

49.155 (1086)	White-backed Tortrix <i>Hedya salicella</i> (Linnaeus)	Common	Jun-Sep	One in the Whitehouse on 08 July 2010 (FS), one at HQ light on 26 July 2013, five in the Whitehouse on 17 July 2015 (FS), six on 15 July and one at HQ light on 16 July 2016 (IDH) and singles on 12 June (Whitehouse), 15 July and 02 September (HQ) 2017. In 2018 there were field observations of singles on 06 June (New Downs New Pools, SZW) and 15 June (Whitehouse, FS) and singles were recorded to light at HQ on 03 July and in the Whitehouse on 13 July. Singles were recorded to light on Princes Beach on 25 June and at HQ on 12 August 2020, and on the Estate and at HQ on 06, 12, 20 and 24 July 2022. In 2023 18 individuals were recorded to light at HQ or in The Elms over seven nights between 11 June and 02 September. Between 03 and 10 July 2024 over three nights 11 individuals were recorded to light on the Estate or at HQ.
49.156 (1083)	Marbled Orchard Tortrix <i>Hedya nubiferana</i> (Haworth)	Common	May-Aug	Small numbers at HQ light, the Whitehouse and The Elms in 1984, 2005, 2006 (TD) and annually from 2009 to 2024 between 25 May and 22 August.
49.157 (1082)	Plum Tortrix <i>Hedya pruniana</i> (Hübner)	Common	May-Aug	Recorded on the Estate in 1993 (two), 1994 (four), 2003, 2006 (TD) and annually in small numbers from 2009 to 2024 between 13 May and 19 August.
49.158 (1084)	Buff-tipped Marble <i>Hedya ochroleucana</i> (Frölich)	Common	Jun-Jul	Singles at HQ light on 13 (FS) and 21 June (JGCB) 2011, 13 July 2013 (JGCB) and in the Haven on 13 July 2018 (RoW).
49.160 (1065)	Rufous Marble <i>Celypha rufana</i> (Scopoli)	pRDB3	May-Sep	Recorded to light at HQ on 29 August (IDH), on 01 and 02 September 2023 (MS) and on 14 August 2024 (IDH gen det DS).
49.161 (1063)	Barred Marble <i>Celypha striana</i> (Denis & Schiffermüller)	Common	May-Sep	There were eight records at light in four years from 1984 to 2006. More numerous recently, with up to four in 2009, over fifty records of up to 14 in 2010, up to seven on over forty dates in 2011 and up to 22 on fifty dates in 2012. From 2013-2024 continuing to be recorded regularly between 16 May and 23 September.
49.162 (1064)	Roseate Marble <i>Celypha rosaceana</i> (Schläger)	Local	Jun-Sep	Small numbers in 1993, 1995 (DA, MPa, BS), 2010, 2012 - 2014 (JGCB) and 2015 (DG) between 08 June and 12 August. Small numbers recorded at HQ light from 2017 to 2024 between 21 June and 23 August.
49.164 (1067)	Thyme Marble <i>Celypha cespitana</i> (Hübner)	Local	late May-early Sep	Recorded on the Estate on 12 June and 7 July (DB/JGCB) 2009, 18 and 19 July (PDH/JGCB/JJS) 2010, 27 May 2017 and on 15 June 2018 (AM et al).
49.166 (1076)	Common Marble <i>Celypha lacunana</i> (Denis & Schiffermüller)	Common	May-Sep, end Aug-early Nov	Recorded on the Estate in 1969, 1977 and many years between 1984 and 2024 between 16 April and 08 October, e.g., maxima of 43 at HQ light on 20 August 2009, 37 on 03 September 2010, 26 on 27 August 2011 and 21 on 27 August and 17 on 06 September 2016 (IDH), for example. A larva was recorded in the Whitehouse on 22 April 2017 (DS) and on 02 May 2022 (DS).
49.180 (1079)	Pine Marble <i>Piniphila bifasciana</i> (Haworth)	Local	Jun-Aug	Recorded on the Estate on 19 July 1994 (EB), 14 July 2014, 27 July 2016 (IDH), in 2018 there was a field observation of a single in the Whitehouse on 15 June (FS) and a single to light on 24 June in The Elms (SZW). Singles were attracted to light in The Elms on 19 June 2019 (SZW) and on 09 July 2020, at HQ on 15 July 2021, in the Haven on 12 July 2022 (FS) and in The Elms (two) and Jubilee Field on 30 June and in The Elms on 22 July 2024.
49.181 (1105)	Spurge Marble <i>Lobesia occidentis</i> (Falkovitsh)	pRDB2	Jun-Aug	Many larval signs recorded on Princes Beach on 24 September 2023 (DS).
49.183 (1108)	Thistle Marble <i>Lobesia abscisana</i> (Doubleday)	Common	Apr-May, Jun-Aug	Recorded in small numbers in 1981, 1983, 1993, 2004, 2007 and annually from 2009 to 2020 between 07 May and 04 September. After none in 2021, singles or twos were recorded to light at HQ, in the Haven or at Sandown Road over nine nights between 12 July and 25 August 2022. Singles recorded to light at HQ on four nights between 15 and 31 July 2023 and on 16 and 18 July 2024.
49.184 (1106)	Wood Marble <i>Lobesia reliquana</i> (Hübner)	Local	May-Jun	Recorded to light at HQ on 18 May 2024 (IDH gen det DS).
49.185 (1109)	Shore Marble <i>Lobesia littoralis</i> (Westwood & Humphreys)	Local	May-Jul, Jul-Oct	First recorded on the Estate on 15 June 2018 (AM et al).

49.186 (1097)	Teasel Marble <i>Endothenia gentianaeanana</i> (Hübner)	Common	May-Aug	An adult emerged on 31 May 2010 from a pupa collected from Teasel seedhead at Restharrow Scrape (FS) and an adult male recorded in the Haven on 15 June 2018 (DS gen det). Recorded to light in the Oasis (AM/DS gen det) and in the Haven (SW gen det PC) on 25 June 2020.
49.187 (1098)	Plantain Marble <i>Endothenia oblongana</i> (Haworth)	Local	Jun-Jul	Adults recorded to light in the Oasis on 25 June and 07 August 2020 (both AM/DS gen det) and an unconfirmed individual with a grey hindwing to light at HQ on 09 and another confirmed on 11 July 2021 (IDH, gen det DS).
49.188 (1099)	Bordered Marble <i>Endothenia marginana</i> (Haworth)	Common	May-Jun, Jul-Sep	One at HQ light on 15 July 2016 (IDH), on 21 June and 15 July 2017, a male to light in the Whitehouse on 12 July (FS) and a single to HQ light on 24 July 2019 (SH/IDH) and singles to light on 25 June in Oasis (AM/DS gen det) and Princes Beach (NHM) and at HQ on 20 July (KB, gen det DS) and two on 15 September 2020 (IDH, M & F gen det DS). In 2022 singles were attracted to light on 12 July in the Haven (FS) and at HQ (IDH). Attracted to light on Princes Beach on 17 July (four) (SW gen det DS), at HQ on 01 August (IDH gen det DS), in the Haven on 06 September (MG&LN gen det NJ) and at HQ on 07 October 2024 (IDH).
49.193 (1104)	Marsh Marble <i>Endothenia quadrimaculana</i> (Haworth)	Local	Jun-Aug	Recorded in small numbers on the Estate on 30 July 1983, 30 July 2010, 22 July and 05 September 2014 and 30 August 2015. Singles recorded to HQ light on 24 and 25 June 2020 (SH/IDH).
49.194 (1111)	Common Lance <i>Bactra lancealana</i> (Hübner)	Common	May-Oct	Double brooded. Recorded on the Estate on 13 August 1979, 05 August 1981 and 04 July 2013 with small numbers recorded to light at HQ, on the Estate and at Sandown Road from 2014 to 2024 between 21 May and 15 September including a count of 50 in the Hundred Acre field on 08 June 2018 and a female at the HQ feeders on 25 June 2019 (SZW, gen det TD).
49.195 (1110)	Marsh Lance <i>Bactra furfurana</i> (Haworth)	Local	May-Jul, Jul-Sep	Singles at HQ light on 07 June and 11 July 2014 (confirmed by FS), 12 June and 05 August 2016 (IDH), 15 July 2017 and a single to light in the Whitehouse on 13 July 2018. A few were recorded annually to light at HQ, on the Estate or at Sandown Road from 2019 to 2024 between 12 May and 07 September including a less well marked specimen at Sandown Road (IDH, gen det DS) on 17 June 2020 and a male at HQ on 13 May 2021 (IDH, gen det DS) and females on 11 June and 11 August 2023 (IDH gen det DS).
49.197 (1112)	Saltern Lance <i>Bactra robustana</i> (Christoph)	Nat S B	May-Sep	Recorded on the Estate between 29 May and 07 August in 1993, 2005 (TD M gen det), 2009, 2010, 2013, 2014, 2016 (IDH), singles on 29 May 2017, to light at HQ on 19 June (SH/IDH) and in Hundred Acre on 01 August 2019 (DT, gen det AG), at HQ on 07 August 2020, in the Oasis on 22 August 2021 and at HQ on 24 July 2024 (IDH).
49.205 (1116)	Least Hook-wing <i>Ancylis comptana</i> (Frölich)	Local	Apr-Sep	Singles at light at HQ on 09 June 2014 (JGCB) and 14 August 2024 (IDH gen det DS).
49.209 (1119a)	Rufous Hook-wing <i>Ancylis diminutana</i> (Haworth)	Local	May-Aug	Recorded to light at HQ on 19 August 2024 (SH/IDH).
49.210 (1125)	Buckthorn Hook-wing <i>Ancylis unculana</i>	Nat S B	Apr-Sep	Recorded to light at HQ on 16 May 2022 (SZW gen det DS).
49.214 (1126)	Meadow Hook-wing <i>Ancylis badiana</i> (Denis & Schiffermüller)	Common	Apr-Oct	Recorded on the Estate on 05 April 1981 (NH).
49.215 (1115)	Hedge Hook-wing <i>Ancylis achatana</i> (Denis & Schiffermüller)	Common	May-Aug	Recorded at light on 23 June 2006 (TD) and in the Whitehouse on 25 June 2009 (FS) and at light in small numbers in 2010, 2011, 2013-2024 between 22 May and 24 July.
49.219 (1204)	Canary Tortrix <i>Thiodia citrana</i> (Hübner)	Nat S B	Jun-Aug	Mostly small numbers on the Estate in 1965, 1981, on the seafront in 1985, 1993, at HQ MV light in 1988 (two), 1989 1997, 2002, 2005 (two), in The Elms in 2005, at HQ light annually in small to moderate numbers from 2009 to 2024, (including 35 on 10 July 2010), between 01 June and 09 August.
49.221 (1161)	Scabious Marble <i>Rhopobota stagnana</i> (Denis & Schiffermüller)	Nat S B	Apr-Jun, Aug-Sep	A female recorded at HQ light on 31 July 2020 (IDH, gen det DS). Larvae feed on Small and Devil's-bit Scabious. One or two records at most in Kent each year.

49.223 (1159)	Holly Tortrix <i>Rhopobota naevana</i> (Hübner)	Common	Jun-Oct	Four in the Whitehouse on 02 August (FS), singles at HQ light on 02 August and 05 September 2014, singles to light in The Elms on 24 June 2018 and 06 July 2019 (SZW). Five individuals recorded over four nights to light on the Estate and at HQ between 13 July and 09 September 2020. A single adult observed in the Whitehouse on 28 June 2024 (SZW).
49.224 (1205)	Bud Moth <i>Spilonota ocellana</i> (Denis & Schiffermüller)	Common	May-Sep	Regularly recorded in small numbers from 1955 to 2024 between 25 May – 20 September including a single to light at HQ on 01 July 2024 (IDH gen det DS).
49.226 (1160)	Sea Spurge Tortrix <i>Acroclita subsequana</i> (Herrich-Schäffer)	pRDB1	Apr-Oct	First recorded to light at HQ as a first for East Kent (VC15) on 11 July (DT) and subsequently many larval signs observed on Princes Beach on 24 September 2023 (DS).
49.229 (1154)	Large Willow Roller <i>Epinotia caprana</i> (Fabricius)	Local	Jul-Oct	Recorded on the Estate in 1935 (RFra) and 1950 (HCH).
49.230 (1151)	White-blotched Roller <i>Epinotia trigonella</i> (Linnaeus)	Common	Aug-Sep	Recorded on the Estate in August/September 1993 (EB) and 1994 (EB) and on 25 July 2010 (PDH/JGCB/JJS) and 23 August 2011 (FS).
49.233 (1156)	Varied Birch Roller <i>Epinotia solandriana</i> (Linnaeus)	Common	Jul-Sep	Recorded to light at HQ on 26 July 2019 (DT, gen det AG) and on the Estate on 30 July 2020 (KB).
49.234 (1150)	Brown Elm Tortrix <i>Epinotia abbreviana</i> (Fabricius)	Common	May-Aug	Recorded on the Estate on 08 July 1977, 19 July 2007, two on 15 July 2016 (FS), two larvae in The Elms on 27 April 2017 (SZW), singles to light in The Elms on 06 July 2019 (SZW), at HQ on 03 July 2023 (SH/IDH) and in The Elms on 23 (three) and 30 June and 03 (20) and 22 July 2024.
49.238 (1147)	Willow Tortrix <i>Epinotia cruciana</i> (Linnaeus)	Local	May-Aug	Recorded on the Estate on 03 June 1925, in 1954, on 09 July 1976, on 08 July 1977, a male was recorded on 17 July 2013 (TD gen det), a single to light in Restharrow Dunes on 06 July 2019 (ME) and a spinning was identified in the Gullies on 02 May 2022 (DS).
49.240 (1136)	Birch Tortrix <i>Epinotia immundana</i> (Fischer von Röslerstamm)	Common	Apr-Jun, Jul-Sep	Recorded on the Estate in August/September 1993. Between 2009 and 2023 small numbers (up to four) annually between 10 April and 22 September e.g., recorded at HQ light on 06 September 2016 (IDH), a single field observation on 12 April 2017 in The Elms (SZW) and singles to light in the Whitehouse on 25 May and 03 August 2018, 14 June 2019 (FS) and at HQ on 21 May, on the Beach on 13 June and at Restharrow Dunes on 12 August 2020. Adults observed on Guilford Road on 03 May (RL/PS/BH) and to light in the Whitehouse on 03 June 2024 (two) (KB).
49.243 (1135)	Blotched Tortrix <i>Epinotia demarniana</i> (Fischer von Röslerstamm)	Local	Jun-Jul	A female recorded at HQ light on 20 June 2020 (IDH, gen det DS).
49.248 (1139)	Nut Bud Moth <i>Epinotia tenerana</i> (Denis & Schiffermüller)	Common	Jun-early Oct	Three singles at HQ light between 13 June and 15 July 2015 (IDH), a single on 16 June 2017, singles to light on the Estate on 15 June and in The Elms on 24 June 2018, singles to HQ light on 06 July (IDH, M gen det DS) and 08 August 2020 and 28 June and 01 July 2021.
49.249 (1134)	Black-marked Tortrix <i>Epinotia ramella</i> (Linnaeus)	Common	Jul-Oct	One-two on five dates from 15 to 29 October 2014. Two recorded at HQ light on 17 July 2016 (IDH) and singles to light in the Oasis on 23 August 2019 (ME), on the Estate on 11 August 2020, in the Oasis on 22 (two) and in The Elms area on 23 August 2021, at HQ on 06 July 2022, in The Elms on 01 September 2023 (MS) and at HQ on 01 September 2024 (SW).
49.254 (1133)	Crescent Tortrix <i>Epinotia bilunana</i> (Haworth)	Common	May-Aug	Small numbers at light on the Estate or at HQ in 2005, 2010, 2011, 2013, 2014, 2017 and 2019 to 2024 between 02 June and 31 July.
49.255 (1138)	Brindled Poplar Tortrix <i>Epinotia nisella</i> (Clerck)	Common	Jul-Sep	Recorded in small numbers in 1987, 2009, 2010, 2012 to 2024 between 25 June and 25 September including a record of 10 on 12 August 2020 to light in Restharrow Dunes (FS).

49.260 (1165)	Mottled Oak Tortrix <i>Zeiraphera isertana</i> (Fabricius)	Common	May-Sep
Singles recorded on 31 July - 02 August 1987 and in small numbers annually from 2010 to 2016 between 28 June and 12 September. None were recorded in 2017 but in 2018 three were recorded to light in the Whitehouse on 29 June, a single there on 12 July 2019 (FS), singles at HQ and in the Oasis on 25 June and 13 July 2020 and a total of six at HQ and in The Elms area between 01 and 12 September 2021. Recorded to light at HQ on 23 and 26 June and 28 August (IDH) and in The Elms on 01 September 2023 (MS). In 2024 19 individuals were recorded to light at HQ, in the Oasis or in The Elms over eight nights between 25 June and 06 August.			
49.261 (1157)	Tree-mallow Tortrix <i>Crociosema plebejana</i> (Zeller)	Local	Year round
Recorded in small numbers at HQ light in 2005, 2010, 2012-2024, e.g., on 18 dates with a maximum of five on 27 August 2016 (IDH). Increasing in regularity between 12 May and 22 December. In 2020 62 were recorded over 30 nights with a late record of a single on 22 December.			
49.264 (1202)	Shaded Tortrix <i>Eucosma obumbratana</i> (Lienig & Zeller)	Local	Jun-Aug
Recorded in small numbers in 1981, 1983 and one adult on 26 June 2004 (TD) and annually from 2010 to 2024 between 03 June and 20 August. Amongst several recorded in 2019 a single in Hundred Acre on 01 August (DT, gen det AG) and on 29 June 2022 a female (SB gen det).			
49.265 (1201)	Hoary Tortrix <i>Eucosma cana</i> (Haworth)	Common	May-Sep
Recorded on the seafront MV light in 1985, 1993 (18) and at HQ light or on the Estate in 2002, 2004, 2005, 2009-2024 between 13 May and 14 October.			
49.266 (1200)	Common Knapweed Tortrix <i>Eucosma hohenwartiana</i> (Denis & Schiffermüller)	Common	May-Aug
Recorded in small numbers at MV light in 1984, 1985, 2003, 2009 to 2024 between 14 June and 05 September with sometimes large numbers in the Whitehouse – up to about 50. A female was attracted to light on 28 June 2022 (SB gen det).			
49.267 (1200b)	Tawny Knapweed Tortrix <i>Eucosma fulvana</i> (Stephens)	Local	May-Aug
Recorded to light on 13 July 2018 in the Whitehouse (FS) and on Princes Beach on 25 June 2020 (NHM).			
49.269 (1197)	Pied Tortrix <i>Eucosma campoliliana</i> (Denis & Schiffermüller)	Common	May-Sep
Recorded in small numbers in 1955, 1977, 1981, 1983, 2001, 2002 and annually from 2009 to 2024 between 12 June and 06 September.			
49.272 (1193)	Saltern Tortrix <i>Eucosma tripoliana</i> (Barrett)	Local	Jul-Sep
Two at light at HQ (PDH/JGCB/JJS) and two at light in the Oasis on 10 July 2010 (FS) and at HQ light on 03 July and 14 August 2012. One at light in the Whitehouse on 05 August 2016 (FS), 10 in the field in Hundred Acre on 14 August 2017 (SZW), singles to light in the Hundred Acre on 01 August 2019 (DT, gen det AG), on Princes Beach on 25 June 2020 (NHM) and at HQ on 07 July 2023 (IDH).			
49.274 (1196)	Mugwort Tortrix <i>Eucosma metzneriana</i> (Treitschke)	pRDB3	May-Jul
Singles at HQ light on 02 July 2012, 02 July 2015. one in the Whitehouse on 15 July 2016 (FS) and singles to HQ light on 14 and 27 June 2018, 26 June 2019 (SZW), singles on the Beach on 13 June and in the Oasis on 25 June (both AM/DS) and on Princes Beach on 25 June (NHM) and in the Whitehouse on 17 July 2020 (MB), at HQ on 27 June and at Sandown Road on 19 July 2021 (both IDH), at HQ on 17 and 21 June 2022, on 15, 23 and 27 June 2023 (IDH) and on 28 June 2024 (IDH).			
49.275 (1192)	Lettuce Tortrix <i>Eucosma conterminana</i> (Guenée)	Local	May-Sep
Recorded on the Estate in August/September 1993, 24 July 2010 (FS), 02 August 2012, 19 May 2014, 06 September 2016 (KH/JAJ), Singles recorded to light in very small numbers at HQ or in the Recording Area from 2018 to 2024 between 15 June and 12 August. Including a single on 01 August (DT, gen det AG).			
49.276 (1190)	Goldenrod Tortrix <i>Eucosma aspidiscana</i> (Hubner)	Nat S B	Apr-Jun
Recorded at HQ light on 04 July 2016 (IDH).			
49.278 (1171)	Small Brindled Tortrix <i>Gypsonoma minutana</i> (Hübner)	Nat S B	Jul-early Sep
Singles recorded at HQ light on 19 & 26 (PDH/JGCB/JJS) July 2010, 28 June 2011, 01 August 2014, 13 August 2015 and 05 August 2016. Singles recorded to light in the Big Gully on 19 July and to HQ light on 22 June and 14 July 2017, on 08, 09 and 23 July and 02 August 2019 (SZW/IDH), 25 June and 12 August 2020, 11 July 2021 and 06 July 2022. A very small larva was identified on White Poplar on Guilford Road on 03 May 2024 (RL/PS/BH).			

- 49.279 (1169) **Common Cloaked Tortrix** *Gypsonoma dealbana* (Frölich) Common May-Sep
Small numbers in 1981, 2009, 2011, 2013 (up to five) to 2020 between 10 June and 07 August. After none in 2021 mainly singles were recorded on the Estate over five nights between 28 June and 05 September 2022 including a maximum of five on 20 June. Larval feeding signs recorded in Middle Field on 20 October 2017 (DS). Up to four were recorded to light or observed in the field at HQ, Whitehouse or Elms over six nights between 28 June and 10 August 2024.
- 49.280 (1170) **Mottled Grey Tortrix** *Gypsonoma oppressana* (Treitschke) **Nat S B** Jun-Jul
Three tenanted mines were recorded in the field on 13 September 2018 on the Green Wall (DS), a single adult attracted to light at HQ on 26 July 2019 (DT) and 100 larval signs on the Green Wall on 03 October 2022 (SZW/DS).
- 49.281 (1168) **Mottled White Tortrix** *Gypsonoma sociana* (Haworth) Common mid May-early Aug
Small numbers in 1989, 1993, 2009-2011, 2013-2024 (maximum of 9 on 15 July 2016 (FS)) between 16 May and 19 August.
- 49.283 (1167) **White Cloaked Tortrix** *Gypsonoma aceriana* (Duponchel) Local Jun-Aug
Small numbers in 1977, 1983, 2010, 2013, 2014, 2016 (IDH) and 2017 (a single on 19 July in the Big Gully was the only 2017 record) between 21 June and 31 August. Five were recorded in the Haven on 12 (FS), a single at HQ on 17 (IDH) and three in the Haven on 24 June 2022 (FS). Larval feeding signs were identified on White Poplar on Guilford Road on 03 May 2024 (RL/PS/BH).
- 49.285 (1184) **Thistle Root-borer** *Epiblema scutulana* (Denis & Schiffermüller) Common May-Jul
Recorded on the Estate in August/September 1993. Small numbers at HQ light in 2009, 2010, 2012 to 2015, 2018, 2019, 2021 and 2024 between 07 May and 10 August.
- This and the following species are identified on size and sex.
- 49.286 (1184a) **Knapweed Root-borer** *Epiblema cirsiiana* (Zeller) Common May-Jul
This species was only recently split from *E. scutulana*. Recorded to light in the Whitehouse on 07 May (SZW, gen det TD), at HQ on 23 June 2019 (SH/IDH) and on 07 July and 08 September 2020 (both IDH, F gen det DS).
- 49.288 (1183) **White-foot Moth** *Epiblema foenella* (Linnaeus) Common Jun-Sep
Small numbers (up to nine) on the Estate in 1981, 1987, 1993, 1994, 2001 and annually from 2009 to 2024 between 13 June and 21 August.
- 49.289 (1187) **Ragwort Root-borer** *Epiblema costipunctana* (Haworth) Common May-Aug
Double brooded. Singles in the Whitehouse on 02 and 12 June 2010 (FS et al) and 18 June 2016 (FS), at HQ light on 08 June 2011, a field observation on 15 June 2018 in the Whitehouse, a male to HQ light on 23 June 2019 (IDH, gen det TD) and males on 28 and 29 June 2022 (both SB gen det).
- 49.292 (1174) **Black Cloak** *Notocelia cynosbatella* (Linnaeus) Common May-Jul
Recorded on the Estate in small numbers in 1989, 1993 and annually from 2009 to 2024 between 28 April and 04 August.
- 49.294 (1175) **Bramble Shoot Moth** *Notocelia uddmanniana* (Linnaeus) Common May-Sep
Small numbers (up to 11) at HQ in 1989, 1993 and annually from 2009 to 2024 between 15 May and 08 September. Larval signs were recorded in the Gullies on 02 May 2022 (DS) and A larva was identified on Waldershare Avenue on 03 May 2024 (RL/PS/BH).
- 49.295 (1178) **Large Rose Shoot Moth** *Notocelia roborana* (Denis & Schiffermüller) Common Jun-Aug
Found by FS in the Whitehouse 25 June 2009 and recorded at HQ light in small numbers in 2010, 2012-2016, 2018 and 2022 between 15 June and 13 August.
- 49.297 (1177) **Rose Shoot Moth** *Notocelia rosaecolana* (Doubleday) Common May-Aug
Recorded on the Estate on 08 July 1977, June 1989, 09 and 20 June 1993, 24 June 2005 (Elms) and in small numbers in 2009, 2012, 2013, 2015, 2016 (IDH) and 2018. Recorded between 07 June and 25 July. None were recorded from 2019-2021 but in 2022 two were attracted to the HQ light on 15 July.
- 49.298 (1176) **Hawthorn Shoot Moth** *Notocelia trimaculana* (Haworth) Common May-Aug
An adult male attracted to light on 23 June 2006 (TD gen det) and in the Whitehouse 25 June 2009 (FS). Small numbers at HQ light in 2010 (up to nine), 2011 and annually from 2013-2024 between 11 May and 14 July.
- 49.302 (1207a) **Pine Cone Moth** *Gravitarmata margarotana* (Heinemann) Scarce immigrant/recent colonist Apr-May
First noted in Kent in 2011 and spreading. Recorded to light at HQ on 09 May 2022 (GJL/SZW).

- 49.304 (1207) **Pine Leaf-mining Moth** *Clavigesta purdeyi* (Durrant) Local Jun-Sep
Singles at HQ light on 25 July 2010 (PDH/JGCB/JJS), two from Princes Golf Course on 7 July 2016 (FS), at Restharrow Dunes on 12 August 2020 (FS) and to light in the Haven on 24 June 2022 (FS).
- 49.305 (1210) **Pine Shoot Moth** *Rhyacionia buoliana* (Denis & Schiffermüller) Local Jun-Aug
Singles to light at HQ on 03 July 2010, in The Elms on 14 June 2014 (FS) and 12 August 2023 (ASy).
- 49.306 (1211) **Smooth Pine Shoot Moth** *Rhyacionia pinicolana* (Doubleday) Common Jun-Sep
Singles to light at HQ on 12 and 20 July 2010, on Princes Golf Course on 27 July 2016 (FS) and on 09 July in The Elms and on 20 July 2020 [two on the Estate and a single in The Elms (KB, M gen det DS)], a single in The Elms on 08 August 2021 and six recorded over four nights in The Elms and at HQ between 09 May and 16 July 2022. Recorded to light from 2020 to 2024 between 09 May and 08 August.
- 49.307 (1212) **Spotted Shoot Moth** *Rhyacionia pinivorana* (Lienig & Zeller) Common May-Aug
Recorded on the Estate on 09 June 1993, at least 20 in The Elms on 14 June 2014 (FS), a single at HQ light on 27 May 2017 (F gen det TD), three on 27 May and a single on 15 June 2018 to light in The Elms and on 25 June 2020. Singles to light on 22 May in The Elms area and at HQ on 16 June 2022 and in Middle Field on 14 June 2023 (KB).

Many *Dichrorampha* species can only be reliably identified through gen det. However, Sterling, P., Parsons, M. & Lewington, R., (2023 Field Guide to the Micro Moths of Great Britain and Ireland 2nd edition BWP) have produced an updated guide to the identification of *Dichrorampha* species as Appendix 4 - the comments from which are now added to each of the species reports below.

- 49.309 (1285) **Lead-coloured Daisy Moth** *Dichrorampha plumbana* (Scopoli) Local May-Jul, Sep
This species usually requires gen det for identification. Recorded on 08 May 2018 (SZW, F gen det DS) and to light on 07 July 2020 at Sandown Road (SH/IDH, M gen det DS).
- 49.311 (1287) **Dingy Daisy Moth** *Dichrorampha aeratana* (Pierce & Metcalfe) Local May-Jun
This species usually requires gen det for identification. Single on 25 May 2017 at light at HQ feeders (M gen det TD).
- 49.313 (1279) **Common Daisy Moth** *Dichrorampha acuminatana* (Lienig & Zeller) Local Apr-Sep
This species can be identified from external features. Double brooded.
The first confirmed records were to light at HQ: a male on 03 June (SZW, gen det TD) and a female on 19 August 2019 (SZW, gen det TD) followed by a single on 01 June 2021 (IDH, gen det DS).
The following records are probable: one found by FS in the Whitehouse 9 May 2009, with another on 21 May. At HQ light in small numbers annually from 2010 to 2019 between 29 April and 19 September.
Recorded to light at HQ on 04 and in the Gullies on 05 August 2022 (both ME) and at HQ on 07 September 2024 (MG&LN).
- 49.315 (1281) **Mugwort Moth** *Dichrorampha simpliciana* (Haworth) Local Jul-Sept
This species can be identified from external features. An adult was recorded in May 1987 (IDH gen det CP) and on 21 July 2018 (SZW, M gen det TD). There were unconfirmed records of three adults to light in Restharrow Dunes on 12 August 2020 (FS) and four at HQ over 19 July and 07 September 2024.
- 49.316 (1278) **White-spot Yarrow Moth** *Dichrorampha sequana* (Hübner) Local May-Jun
This species can be identified from external features. Adults found by FS in Whitehouse on 10 June 2007, 07 June 2009, 21 June 2010 and 11 June 2016. A single observed in the Oasis on 21 June 2019 (SZW) and singles recorded to light on the Estate on 13 June and in the Oasis on 25 June 2020.
- 49.318 (1284) **Orange-spot Yarrow Moth** *Dichrorampha vancouverana* (McDunnough) Local Jun-Jul
This species can be identified from external features. An adult female netted on 17 July 2013 (TD gen det), an adult male netted in the Whitehouse on 15 June 2018 (DS gen det) and two males from either end of the size spectrum observed in Restharrow Dunes on 06 July 2020 (SZW, gen det DS).
- 49.320 (1274) **Orange-spot Daisy Moth** *Dichrorampha alpinana* (Treitschke) Local May-Aug
The male of this species can be identified from external features but the female requires gen det. Single to HQ light on 27th May 2017 (M gen det TD), recorded on the Estate on 15 June 2018 (DS gen det), males attracted to HQ light on 26 June 2019 (IDH, gen det TD) and on 11 May 2020 (SZW, gen det DS) and singles recorded to light at HQ on 17 (IDH gen det DS) and 29 June 2022 (SB gen det).
- 49.321 (1273) **Yellow-spot Yarrow Moth** *Dichrorampha petiverella* (Linnaeus) Common May-Aug
This species can be identified from external features. Small numbers on the Estate in 2003, 2007, 2009 and 2010 between 07 June and 01 August. Common in the Whitehouse on 07 June 2014 (FS), 12 there on 28 June 2015 (FS), 50 on 11 June 2016 (FS). Four by the Haven on 31 May and 70 around the Whitehouse on 12 June 2017, to light on the Estate on 15 June 2018 and in the Whitehouse on 14 June 2019 (FS). Recorded in the field on 27 and 28 July 2022 (SB).

- 49.322 (1276) **Lead-coloured Yarrow Moth** *Dichrorampha plumbagana* (Treitschke) Local Apr-Jul
This species can be identified from external features. Recorded on the Estate on 31 May, 1983, 28 May 1985 and 16 June 2006 and HQ light on 01 June 1993, 15 May 2005, 21 May 2009, 21 June 2010, 90 in Middle Field on 09 May 2017 (SZW) (M gen det TD), a single to HQ light on 10 June (IDH, F gen det DS) and recorded on the Estate on 15 June 2018 (DS gen det) and on 15 June 2020 (DS gen det).
- 49.324 (1257) **Pea Moth** *Cydia nigricana* (Fabricius) Common May-Aug
Recorded on the Estate on 4 June 1993, at light in the Oasis on 20 July 2010 (PDH/JGCB/JJS), in the Whitehouse on 02 August 2019 (FS) and on the Beach on 24 June 2021 (SWi).
- 49.325 (1255) **Common Gorse Moth** *Cydia ulicetana* (Haworth) Common Apr-Jun, Jul-Sep
Very common on Gorse in the area, particularly at Mary Bax, but not readily attracted to light, though singles at HQ on 01 and 11 July in 2009. Recorded between 10 April and 21 May. Two recorded in the Middle Field on 01 May 2016 (FS), two on 22 April and 30 on 09 May 2017 in Middle Field. A field record of 25 in Restharrow Dunes on 07 May and a single to light on the Estate on 15 June 2018 and field records of 25 at Restharrow Dunes on 07 May and 15 at Mary Bax on 20 May 2020 (SZW). A single was attracted to the HQ light on 17 June 2022.
- 49.327 (1220) **Rest-harrow Piercer** *Cydia microgrammana* (Guenée) **Nat S B** May-Jul
Recorded to MV light on the beach on 24 June 2006 (TD), recorded on 29 May 2014 (FS), on 15 June 2018 (DS gen det), to light in the Whitehouse on 14 (FS) and observed on the Estate Beach on 21 June 2019 (SZW) and field observations on 13 June (AM/DS), in Waldershare Gully on 22 June (SZW) and to light on the Estate on 15 June (DS gen det) and four on Princes Beach on 25 June 2020 (NHM). Observed on 23 May (SZW), to light on 15 June 2022 (WS) on the beach and at HQ on 05 and 07 June (MG&LN) and on the beach on 02 July 2024 (CV/KM).
- 49.330 (1269) **Pine Nut Moth** *Cydia conicolana* (Heylaerts) **Nat S B** May-Jun.
Recorded on 15 June 2018 (DS gen det) and to light on the Estate on 15 June 2020 (DS gen det). Larval exit signs on Scots Pine in the Little Elms (SZW/DS) on 07 August 2020.
- 49.335 (1254) **Spruce Seed Moth** *Cydia strobilella* (Linnaeus) **Nat S B** May
Recorded to light in the Whitehouse on 02 June 2021 (SZW).
- 49.338 (1261) **Codling Moth** *Cydia pomonella* (Linnaeus) Common May-Sep
Well known as an orchard pest by the farming community. Regular at HQ light and on the Estate from 1984 to 2024 between 02 June and 06 September, e.g., four recorded to light in the Whitehouse on 03 August 2018 and singles to light at HQ on 23 (SH/IDH) and in the Haven on 30 June 2019 (PF).
- 49.341 (1260) **Marbled Piercer** *Cydia splendana* (Hübner) Common Jun-Sep
Small to moderate numbers in 1983, 1985, 1993, 2010 (up to eight at light on many dates between 19 July and 03 September) and annually from 2011 to 2024 between 26 June and 03 September, including up to 36 in July 2014.
- 49.342 (1259) **Beech Mast Piercer** *Cydia fagiglandana* (Zeller) Common Jun-Jul
A female recorded to HQ light on 07 July 2020 (IDH, gen det DS) and a single to light in the Haven on 24 July 2022 (FS).
- 49.343 (1262) **Rusty Acorn Piercer** *Cydia amplana* (Hübner) Migrant Jun-Aug
One at HQ light on 14 August 2010 (PDH/JGCB), one-two on five dates between 29 July and 27 August 2012, singles on 23 July and 09 August 2014 (JGCB), singles to light in the Whitehouse on 03 August 2018 (FS), at HQ on 25 July and 04 August 2019 (both SH/IDH), on the Estate on 11 August 2020 (KB), nine to light at HQ and in The Elms over eight dates between 10 August and 07 September 2021 and at HQ on 26 and 31 August 2023 (IDH) and on 01 September 2024 (IDH).
- 49.345 (1219) **Slender Rufous Tortrix** *Lathronympha strigana* (Fabricius) Common May-Sep
Recorded on the Estate on 26 May 1993, 21 June 2008, 03 July 2012, 23 August 2013, 02 August 2015, 21 July and 05 August (two) 2016, 17 May 2017, recorded in the Whitehouse on 13 July and 03 August and to HQ light on 01 August 2018, to light at HQ on 17 June (RJD/IDH) and at Sandown Road on 16 July 2020 SH/IDH) and to light in the Haven on 17 and 29 June (FS) and at HQ on 03 August 2022 and on 11 August 2024 (IDH).
- 49.347 (1241) **Meadow Tortrix** *Grapholita compositella* (Fabricius) Common May-Jun, Aug
Recorded at light near the sea on 16 May 2005, in the Whitehouse on 26 April 2009 (FS), on the seafront on 29 May 2014, in the Whitehouse on 28 June 2015 (FS) and on 14 June 2019 (FS) and at HQ on 01 September 2024 (SH/IDH).

49.349 (1242)	White-underwing Piercer <i>Grapholita internana</i> (Guenée)	Local	Apr-Jun
	Found by FS in Gorse along Ancient Highway on 26 April and 9 May 2009 and on 09 May 2010. Only the third site in Kent since 1954, one of which (Weatherlees, near Richborough) was destroyed around 2010. At least 15 at Mary Bax on 23 April 2011 and two there on 10 April 2014.		
49.352 (1253)	Southern Crescent <i>Grapholita orobana</i> (Treitschke)	pRDB3	Jul-Aug
	Recorded on the Estate on 21 July 1957, 26 June 2003, 19 July 2008, 30 June 2010 (FS), 18 June 2016 (FS), an adult observed on Tufted Vetch in the Whitehouse on 13 July 2019 (FS) and a single observed on the Estate on 16 June 2022 (CWi).		
49.354 (1251)	Beautiful Crescent <i>Grapholita jungiella</i> (Clerck)	Common	Apr-Jun, Aug
	Recorded in small numbers in 1993, 2009-2011, 2013, 2014, 2016-2020 on the Estate between 12 April and 19 May.		
49.356 (1249)	Small Fruit Moth <i>Grapholita lobarzewskii</i> (Nowicki)	Nat S A	May-Jul
	Recorded to light in the Whitehouse 17 June 2017 (FS) and a male at HQ on 20 June 2020 (IDH, gen det DS).		
49.357 (1247)	Plum Fruit Moth. <i>Grapholita funebrana</i> (Treitschke)	Common	May-Oct
	Singles at light on 16 July 2014, 01 July 2015, 07 September 2016 (IDH), 22 July 2018 and 06 July 2022 (IDH M gen det DS).		
49.359 (1245)	Hawthorn Piercer <i>Grapholita janthinana</i> (Duponchel)	Common	Jun-Aug
	Recorded on the Estate on 03 July, August/Sept 1993, 19 and 26 July 2010 (PDH/JGCB/JJS), at HQ light on 26 June 2012 (PTO/SWT) and larva examined from Hawthorn near HQ on 20 October (DS). Recorded to light at HQ on 24 and 26 July 2018, in the Whitehouse on 02 August 2019 (FS), at HQ on 13 July (IDH) and at Restharrow Dunes on 12 August 2020 (FS) and in the Haven on 24 July 2022.		
49.367 (1236)	Acorn Piercer <i>Pammene fasciana</i> (Linnaeus)	Common	Jun-Aug
	Singles at light at HQ and in the Oasis on 10 July 2010 (FS/JGCB), on Princes Beach on 25 June (NHM), at HQ on 16 July (IDH) and in the Whitehouse on 17 July 2020 (MB), in the Haven on 12 (two) and at Sandown Road on 30 July 2022, at HQ on 10 and 11 June and 19 July 2023 and on Princes Beach on 17 and at HQ on 18 and 24 July 2024.		
49.371 (1239)	Fruitlet Mining Tortrix <i>Pammene rhediella</i> (Clerck)	Local	Apr-Jun
	A single found resting on the door to the Observatory on 27 April 2017 (SZW).		
49.374 (1235)	Maple Piercer <i>Pammene trauniana</i> (Denis & Schiffermüller)	Nat S A	May-Jul
	Recorded to light in The Elms on 17 May 2020 (SZW, gen det DS).		
49.375 (1234)	Regal Piercer <i>Pammene regiana</i> (Zeller)	Common	May-Aug
	Small numbers at HQ light annually from 2010 to 2015 between 26 June and 07 August. Observed on the Green Wall on 08 June 2018 (SZW). A single attracted to light at HQ on 11 June 2021 (IDH, gen det DS), in The Elms on 06 July 2022 and at HQ on 23 June 2023.		
49.376 (1233)	Tawny Sycamore Piercer <i>Pammene aurita</i> (Razowski)	Local	Jun-Aug
	Small numbers at HQ light and on the Estate in 2010, 2011, 2012, 2014, 2015 and 2024 between 27 June and 21 August. Two larval signs were identified on the Green Wall on 03 October 2022 (SZW confirmed DS).		
49.377 (1237)	Dark Oak Tortrix <i>Pammene germmana</i> (Hübner)	Local	May-Jul
	Recorded to HQ light on 17 May 2022 (SH/IDH gen det DS).		
49.379 (1272)	Double Orange-spot <i>Pammene aurana</i> (Fabricius)	Common	May-Aug
	Trapped at HQ on 24 July 2009. Field observations on July 2016 (photo SN), 06 July (two, Middle Field) and 07 July 2017 (two, Haven) (SZW), in Waldershare Gully on 22 July 2021 (MBou/SZW) and in The Elms on 13 July 2022 (CW). Singles to light at HQ on 14 July 2018, in the Whitehouse on 28 June 2019, at HQ on 17 and 20 July 2020 (IDH) and in The Elms on 22 July 2024 (SB).		

COSSIDAE

50.001 (162)	Goat Moth <i>Cossus cossus</i> (Linnaeus)	11 June - 28 July	O
	Recorded on 21 July 1975 (Big Gully), 15 and 23 July 1983 (HQ light), 13 July 1995 (fence), 19 June 2002 and at HQ light in 2009 on 12 June and 25 June (two), 28 and 29 June 2010 and 25 June 2012. Larvae collected from dead Sallow stumps in the Big Gully in July 1970, April 1995 and September 2001 and in the Haven in October 2010. In 2015, singles at HQ light on 19 June and at light in the Whitehouse on 14 July, three lured by pheromones on 16 and 17 July and larvae seen on the Observatory track and at The Elms in September. In 2016 individuals were attracted to pheromones on eight dates between 01 & 22 July (AO). A single was recorded on 18 June 2017 (CM). A larva was recorded on the Estate on 31 August 2018. An adult was attracted to HQ light on 26 July (SH/IDH) and larvae were observed at HQ on		

25 August (SZW) and in The Elms on 11 September 2019 (SR). Singles were attracted to light at HQ on 16 June 2020 (RJD/SH), 11 June and 16 July 2021 (IDH), on 15 June and 22 July and in the Whitehouse on 20 July 2022 and at HQ on 13 June 2023. In 2024 singles were recorded to light in the Whitehouse on 04 and at HQ on 09 and 28 July and a larva observed on 01 September 2024.

- 50.002 (161) **Leopard Moth** *Zeuzera pyrina* (Linnaeus) 23 June - 18 August O
 Taken at light in small numbers in 1984, 1985, 1993, 1997 and in 11 years from 2000 to 2015. None were recorded in 2016 or 2017. A single was recorded at HQ light on 13 July 2018. 2019 was a good year with nine adults recorded on eight dates from 05 July to 04 August mainly at light at HQ and on the Estate (IDH et al). Singles were recorded to light on 23 and 25 June and 13 July 2020 at HQ (IDH) and in the Oasis (AM/DS) and at HQ on 19 July 2021 (IDH). In 2022 seven individuals were recorded over five nights between 30 June and 18 July including two males on Princes Beach and in 2023 eight were recorded at HQ or in the Whitehouse over five nights between 25 June and 18 August 2023. In 2024 singles were recorded to light on Princes Beach on 17 and at HQ on 18 and in The Elms on 22 July.

SESIIDAE

- 52.001 (369a) **Raspberry Clearwing** *Pennisetia hylaeiformis* (Laspeyres) R
 Recent colonist (2007). A male was attracted to pheromone lure at HQ on 10 August 2023 (SZW).
- 52.002 (370) **Hornet Moth** *Sesia apiiformis* (Clerck) R
 A male was attracted to a pheromone lure on New Downs on 07 June 2020 (SZW). Pheromone lures attracted two on the Green Wall on 17 June (CJH) and a single at New Downs on 11 July 2022 (GJL).
- 52.003 (371) **Lunar Hornet Moth** *Sesia bembeciformis* (Hübner) R
 Two were caught in Whitehouse mist-nets on 16 July 1989 (IDH/JNH) with another on 19 July 1995. Two were attracted to a pheromone lure in the Whitehouse on 07 July 2022 (GJL) and another on 05 July 2023 (GJL). The larvae feed on Sallows and exit holes have occasionally been noted.
- 52.008 (380) **Red-tipped Clearwing** *Synanthedon formicaeformis* (Esper) 07 June - 13 August O
 A moth of boggy places and osier beds recorded for this area by J.M. Merst at the turn of the 19th/20th centuries. A larva from the Big Gully was reared to emergence on 15 July 1995 (TR). Unless otherwise mentioned all subsequent records refer to pheromone lures. One in the Haven on 01 July 2011 (photo JK), five in the Haven on 17 July 2014 (FS), a single on 05 August 2016 (FS) and in 2017 a single on 17 June in the Whitehouse (AT) and three on 07 July in the Haven (SZW). A single was recorded on 22 June 2018. In 2019 adults were observed in the Whitehouse on 16 (IPH, photo) and in the Little Gully (SF/SZW) on 21 June and were attracted at HQ on 29 June (RW/SZW) and in the Gullies on 07 July (TM/SZW). In 2022 a single at HQ on 07 June (GJL) and another identified at St. George's Bushes on 12 June (SZW). Singles attracted at HQ on 11 June (GJL) and observed in Little Gully on 13 August 2023 (SN). Two were attracted to pheromone at HQ on 01 July 2024 (CV&KM).
- 52.010 (378) **Orange-tailed Clearwing** *Synanthedon andrenaeformis* (Laspeyres) 23 June - 04 July R
 Recorded in the field at Sandown Road on 02 July 2001. Responded to pheromone in the Middle Field on 23 June (SZW), two on 26 June 2018 (AML), in The Elms and Middle Field on 04 July 2019 (SZW), in Waldershare Gully on 15 June and on the Green Wall on 17 June 2022 (both KR) and two in the Whitehouse on 05 July 2023 (GJL). In 2024 the orange brown frass of current larva and old emergence hole of another larva were discovered in The Elms on 03 May (RL/PS/BH) and adults to pheromone lure at HQ on 01 (CV&KM) and 11 July 2024 (male) (GJL).
- 52.011 (379) **Red-belted Clearwing** *Synanthedon myopaeformis* (Borkhausen) R
 A larva from near the toll-gate was reared to emergence on 29 May 1995 (TR).
- 52.013 (373) **Currant Clearwing** *Synanthedon tipuliformis* (Clerck) R
 Recorded to pheromone lure at HQ on 29 June 2019 (RW/SZW).
- 52.014 (382) **Six-belted Clearwing** *Bembecia ichneumoniformis* (Denis & Schiffermüller) Nb 03 - 21 July R
 Four were attracted to pheromones in the Oasis on 10 July 2010 (JDS, PDH) and two were similarly recorded on 03 July 2011 (FS) and a single in the Oasis on 21 July 2018 (SZW).
- 52.015 (384) **Fiery Clearwing** *Pyropteron chrysidiformis* (Esper) EN Nat R R
 Adults observed on Princes Beach on 12 June (LCA) and on the beach on 03 July 2024 (CV&KM).

LIMACODIDAE

- 53.001 (173) **Festoon** *Apoda limacodes* (Hufnagel) 17 June - 19 July R
 Singles at HQ light on 02 July 2010 (JGCB), 03 July 2013 and recorded to light at HQ on 30 June (SH/IDH) in the Oasis on 04 (ME) and in the Whitehouse on 12 July 2019 (FS), in the Oasis on 25 June 2020 (AM/DS) and at HQ on 16 June and 01 July 2021 (IDH). In 2022 eight individuals were attracted to light at HQ and on the Estate over five nights between 17 June and 12 July and in 2023 six individuals were recorded over three nights between 23 June and 19 July.

ZYGAENIDAE

- 54.002 (163) **Forester** *Adscita statices* (Linnaeus) 09 June - 21 July O
 First recorded in 1889 (HG) and several records from the 1920s onwards. Regular in small numbers since 1970 in the Whitehouse, the adjacent rough of Royal St. George's Golf Course, Little and Waldershare Gullies and Restharrow Dunes. Singles trapped at MV light on 13 June 1982 at HQ and in the Little Gully on 10 July 2005. Up to 13 males were attracted to pheromones in the Whitehouse and seven were found in Restharrow Dunes on 30 July 2015. There was a sight record in the Whitehouse on 28 June (FS), 15 on 13 July in Restharrow Dunes nectaring on Ragwort (CW) and two males attracted to pheromones on 15 & 20 July 2016 (AO). Singles were recorded in the field on 19 June (AML) and 04 July 2017 (IPH) and on the Estate on 09 June and in the Oasis on 01 July 2018. Adults were observed in the Oasis on 23 June (SZW), in Hundred Acre on 01 (SZW), in the Dragonfly Pond Field on 02 (CW) and in the Whitehouse on 13 July 2019 (FS) and in the Whitehouse on 15 and 25 (two) June and to light in the Oasis on 25 June 2020. In 2022 singles were observed on Restharrow Scrape on 16 and in the Whitehouse on 22 June. On 26 June three adults were observed in Oasis (SZW) and a single in the Whitehouse (IDH) and on 11 July a single in the Oasis (GJL).
- 54.008 (169) **Six-spot Burnet** *Zygaena filipendulae* (Linnaeus) 01 June - 04 August F
 Previously abundant throughout the area and still under recorded now. Recent records include up to eight in July 2009, an emergence of 300 evident on 05 July 2010. Adults were recorded on 17 July 2013 (TD) and 175 were lured to pheromones in the Whitehouse on 28 July 2015. One record in the Whitehouse on 15 July (FS) and up to 119 individuals to pheromones in Restharrow Dunes on 5 dates in 2016 (AO). In 2017 three were recorded on New Downs on 10 June (SZW), there were field observations of a single on 26 June on Restharrow Dunes and a count of 20 on the Estate on 19 July 2018, on Restharrow Dunes (a single) on 16 June (SZW) and on Restharrow Scrape on 21 July 2019 (DMcL). Singles were recorded in the field on the Green Wall on 01 June, in Hundred Acre on 12 July, Restharrow Dunes on 13 July and in the Gullies on 04 August plus one to light in the Oasis on 25 June 2020. In 2022 there were field observations on five occasions between 16 June and 02 August comprising two on Cinque Ports (CJH), three on Restharrow Dunes (SZW), 78 on St Georges (HW), and 105 (SZW) and 118 (HW) on the Beach. A single was observed on 28 July 2023 in Restharrow Dunes (SZW). Between 18 and 29 July 2024 over six days 40 individuals were recorded across the Recording Area.
- 54.009 (171) **Narrow-bordered Five-spot Burnet** *Zygaena loniceræ* (Scheven) 02 June - 03 August F
 Plentiful throughout the area up to 2018. In 2009 hundreds were seen emerging in the Oasis/Whitehouse area on 13 June and at least 150 were present around St. George's bushes on 30 June. In 2016 a single was recorded in the Whitehouse on 21 June (AML) and pheromones lures were successful in the Whitehouse between 15 to 22 July with a maximum of 17 on 16 July (AO). Observed on St Georges (one) on 23 June (KR) and in Hundred Acre (40) on 01 July 2019 (SZW) and singles in St George's bushes on 23 June and in the Hundred Acre on 12 July 2020. Individuals were observed on Cinque Ports on 16 June (three CJH), on the Estate on 21 June (two SZW) and on the Beach on 02 August (six HW). Two were observed at Chequers on 27 June and a single in Dragonfly Pond Field on 03 July 2023 (SZW). Between 26 June and 11 July 2024 over four days 19 individuals were recorded across the Recording Area.
- 54.010 (170) **Five-spot Burnet** *Zygaena trifolii* (Esper) x
 Confirmed in the past (JMC-H) but probably extinct since the early 1950s. Subsequent records almost certainly refer to *Zygaena loniceræ*.

PYRALIDAE

- 62.001 (1428) **Bee Moth** *Aphomia sociella* (Linnaeus) Common Apr-Sep
 This species was recorded in seven years from 1983-1995 and annually in small numbers from 2000 to 2024 between 08 May and 28 August. 12 were recorded to light in The Elms on 08 June 2017 (SZW).
- 62.002 (1429) **Sandhill Double-spot** *Lamoria zelleri* (Joannis) **Nat S A** Jun-Aug
 Found on coastal sandhills in Kent and East Anglia and recorded on the Estate on 08 July 1930 with many records of small numbers to 2024 between 14 June and 21 August. Occasionally slightly more numerous: e.g., up to seven in July 2010, up to eight in July 2014, up to four on six dates in July 2016 and 25 individuals over five dates to HQ light between 21 June and 17 July with maxima of nine on 15 and 16 July 2017. A male was identified at HQ light on 30 June 2019 (IDH, gen det TD). Between 23 June and 12 August 2020 55 individuals were recorded to light at HQ, on the Estate and at Sandown Road over 21 dates with a maximum of ten on 25 June at Princes Beach.
- 62.005 (1426) **Lesser Wax Moth** *Achroia grisella* (Fabricius) Local May-Oct
 Recorded at light on the Estate on 14 July 1982, 15 June 1983, 27 July 2010, then up to three annually in the field or to light at HQ or on the Estate from 2016 to 2023 between 09 June and 14 September including a female on 14 September 2016 (IDH, gen det TD).

62.006 (1425)	Wax Moth <i>Galleria mellonella</i> (Linnaeus)	Common	Jun-Oct
	Five recorded between 04 July - 26 August 1995 and since recorded in small numbers from 2009-2014 between 21 June and 30 September. Recorded to HQ light on 11 August (two) and 16 August 2017, on 03 August and 05 and 08 September and one in the Whitehouse on 03 August 2018, five were recorded to light at HQ over four dates between 02 August and 10 September 2019 and at Coachman's Cottage on 10, on the Estate on 11 and at Restharrow Dunes on 12 August 2020. None were recorded in 2021. Eleven individuals were recorded to light at HQ and on the Estate over eight nights between 12 June and 02 September 2022 and in 2023 15 individuals were recorded to light at HQ or on the Estate over 11 nights between 07 July and 02 October.		
62.010 (1449)	White-barred Knot-horn <i>Elegia similella</i> (Zincken)	Nat S B	Jun-Jul
	Recorded to light in The Elms area on 13 June 2021 (KB) and at HQ on 08 July 2023 (SH/IDH).		
62.012 (1451)	Dusky Knot-horn <i>Pyla fusca</i> (Haworth)	Local	May-Sep
	Recorded to light at HQ on 16 July 1986 (NO et al), in the Whitehouse on 21 July 2017 (SZW), at HQ on 10 September 2021 (IDH) and on 07 (HQ) and 14 July (Whitehouse) and 02 September (HQ) 2023. This species feeds on Heathers including garden varieties.		
62.013 (1444)	Marjoram Knot-horn <i>Uncinus obductella</i> (Zeller)	pRDB3	Jul-Aug
	Found on chalk downs and quarries in Kent, feeding on Marjoram. Singles to light at HQ on 06 August 2010 (PDH/JGCB), a female on 23 July 2020 (IDH, gen det DS), singles on 09 and 22 August 2021, on 12 July in the Haven (FS) and on 03 August 2022 at HQ (IDH gen det DS) and at HQ on 18 July 2023 (IDH).		
62.014 (1463)	Ornate Knot-horn <i>Pempeliella ornatella</i> (Denis & Schiffermüller)	pRDB1	Jun-Aug
	One recorded on the beach on 26 June 1993 (IF, AJC confirmed EB) and one at HQ light on 07 July 2012 (JGCB).		
62.016 (1447)	Aspen Knot-horn <i>Sciota hostilis</i> (Stephens)	pRDB1	May-Jul
	Recorded to light in the Haven on 12 July 2022 (FS) and at HQ on 16 and 18 (IDH gen det DS) July and 13 August 2024.		
62.017 (1447a)	Willow Knot-horn <i>Sciota adelphella</i> (Fischer von Roslerstamm)	Migrant	May-Sep
	Recorded at light in The Elms on 24 June 2005 (TD), then mostly in small numbers (up to 14) from 2009 to 2024 (including at HQ light) between 24 May and 25 August.		
62.018 (1447b)	Poplar Knot-horn <i>Sciota rhenella</i> (Zincken)	Migrant	May-Aug
	Recorded to light at HQ on 18 July 2021 (IDH confirmed DS), 02 July 2022 (IDH), on 01 July 2023 (IDH) and on 09 July 2024 (GJL).		
62.019 (1453)	Sea Pea Knot-horn <i>Pima boisduvaliella</i> (Guenée)	Nat S A	May-Aug
	A local sandhill and shingle species which feeds on Bird's Foot Trefoil and Spiny Restharrow. One-two were recorded on Princes Golf Course in 1921, 1937 and on Restharrow in July 1952 (CG) but not since.		
62.021 (1441)	Rosy Knot-horn <i>Oncocera semirubella</i> (Scopoli)	Nat S B	Jun-Oct
	Recorded on the Estate on 28 July 2002 and in small numbers at HQ light in 2009, 2010 and 2013 to 2024 between 24 June and 25 September.		
62.022 (1443)	Gorse Knot-horn <i>Pempelia genistella</i> (Duponchel)	Nat S B	Jun-Sep
	Recorded in small numbers on the Estate in 2010 and 2013-2019 between 12 July and 05 August. Also breeds in Gorse at Mary Bax, where 20 recorded on 23 April 2011 (FS). Recorded to light in the Haven on 12 July 2022 (FS) and at HQ on 28 June and 01 and 15 July 2023 (IDH) and on 10 August 2024.		
62.024 (1445)	Beautiful Knot-horn <i>Rhodophaea formosa</i> (Haworth)	Local	May-Sep
	Recorded on the Estate in 1993 and at HQ annually in small numbers from 2008 to 2014 between 08 June and 23 August. Singles recorded to light at HQ on 09 July 2017 and small numbers annually from 2019 to 2024 between 22 June and 25 July (IDH et al).		
62.025 (1454b)	Chequered Pine Knot-horn <i>Dioryctria sylvestrella</i> (Ratzeburg)	Nat S B	Jun-Oct
	Singles at HQ light in 2010 on 10, 24 and 28 July and 09 September and in 2016 on 27 July at Prince's Pine plantation (DS) and at HQ light on 30 July (IDH), singles to light in The Elms on 15 June 2018 (AM et al), at HQ on 22 July 2019 (SH/IDH), 11 to light at HQ on 14 July 2020 and singles on 19 June 2022 (IDH), 27 July 2023 (LS/SZW) and 22 July 2024 in The Elms.		
62.027 (1455)	Drab Pine Knot-horn <i>Dioryctria simplicella</i> (Heinemann)	Local	Apr-Sep
	Trapped at HQ on 15 August 2009 (PDH/AP) and 08 August 2012 (JGCB).		

62.028 (1454)	Pine Knot-horn <i>Dioryctria abietella</i> (Denis & Schiffermüller)	Common	May-Oct
Six recorded between 01 and 24 July 1994, three singles between 08 and 25 July 2013, singles on 31 July and 16 September 2014. Annual to light at HQ or on the Estate from 2017 to 2024 between 12 June and 27 July (IDH et al).			
62.029 (1452)	Oak Knot-horn <i>Phycita roborella</i> (Denis & Schiffermüller)	Common	Jun-Sep
Recorded at HQ on 27 August 2006 then in small numbers in 2009-2012 and 2014-2024 between 21 June and 18 August.			
62.030 (1457)	Dingy Knot-horn <i>Hypochalcia ahenella</i> (Denis & Schiffermüller)	Nat S B	Jun-Aug
Recorded in small numbers at light in 19 years from 1981 to 2024 between 25 May and 15 August including 13 and 14 July 1988 (IDH gen det CP).			
62.032 (1465)	Spindle Knot-horn <i>Nephopterix angustella</i> (Hübner)	Local	Apr-Oct
Small numbers at HQ light in 2011 and 2013-2023 between 29 May and 20 October.			
62.033 (1435)	Tufted Oak Knot-horn <i>Acrobasis tumidana</i> (Denis & Schiffermüller)	Migrant	Jun-Sep
A scarce migrant to the UK, singles were attracted to HQ light on 14 August 2015 (IDH), 29 July 2018 (IDH) and 26 and 29 July and 05 August 2019 (IDH et al). There was an influx in 2020 with 21 individuals recorded to light over 12 nights between 26 June and 21 August with maxima of four at Sandown Road (IDH) on 26 June and at Restharrow Dunes (FS) on 12 August. Singles were recorded to light at HQ on 24 July and 19 August 2021 and 01 August 2024 (IDH).			
62.034 (1436)	Beautiful Oak Knot-horn <i>Acrobasis repandana</i> (Fabricius)	Common	Jul-Sep
One trapped in the Observatory reed bed on 26 July 2008 and singles at HQ light on 06 June 2011 (FS), with two on 17 August 2012, singles on 12 and 14 July 2015 and 06 (two) and 14 July 2017. In 2019 eight individuals recorded at light at HQ over seven dates between 23 June and 01 August and a single in the Whitehouse on 12 July. There was an influx in 2020 with 176 recorded over 11 traps between 24 June and 11 August with maxima on 25 June of four at Sandown Road (SH), 11 at HQ (IDH), 50 at Princes Beach (NHM) and 100 in the Oasis (AM/DS). Singles were recorded to light at HQ and in The Elms on four nights between 17 June and 12 July 2022 and at HQ on 08 and 18 July and 14 August 2023 (IDH).			
62.035 (1439)	Hawthorn Knot-horn <i>Acrobasis advenella</i> (Zincken)	Common	Jun-Sep
Locally common on old Hawthorn and found in 1989, 1994/5, 1998 and then annual with increasing regularity from 2000 to 2024 at HQ between 12 June and 12 September, e.g., peaks of 12-13 in 2010, 2013 and 2015 and in 2017 46 individuals were recorded over 24 dates with a maximum of five on 04 August in the Whitehouse. Larval signs were recorded on 02 May 2022 in the Gullies (DS) and on 04 May 2024 in The Elms (RL/PS/BH).			
62.036 (1438)	Buckthorn Knot-horn <i>Acrobasis suavella</i> (Zincken)	Local	Jun-Aug
A local moth of stunted Blackthorn in open country and recorded in small numbers to light on the Estate in 19 years from 1983 to 2018 and from 2020 to 2024 between 26 June and 31 August including a single attracted to light at HQ on 20 July 2020 (IDH, gen det DS)			
62.037 (1440)	Marbled Knot-horn <i>Acrobasis marmorea</i> (Haworth)	Local	May-Sep
Another local species recorded at HQ on 05 August 1981, on the Estate on 12 July 1989, then in small numbers to light in 2009-2011, 2013-2017, 2019, 2022 and 2024 between 06 June and 04 September.			
62.038 (1437)	Grey Oak Knot-horn <i>Acrobasis consociella</i> (Hübner)	Local	May-Aug
One at HQ light on 19 July 2012, on 20 July 2016 (IDH) and a female on 11 July 2019 (IDH, gen det DS). Larval feeding signs were observed in the Oasis on 25 June 2020 (AM/DS).			
62.042 (1458)	Thistle Ermine <i>Myelois circumvoluta</i> (Fourcroy)	Common	May-Sep
Well distributed and fairly common in small numbers at HQ light up to 2024 between 17 May and 18 August.			
62.043 (1464)	Shore Knot-horn <i>Gymnancyla canella</i> (Denis & Schiffermüller)	Nat S A	May-Sep
Occasionally recorded on the Estate from 1982 to 1992 between 16 July and 12 August, one adult recorded on the beach on 23 June 2005 (TD) and annually in small numbers from 2012 to 2020 between 19 May and 19 August, e.g., in 2017 there was a single record from the Big Gully on 19 July (SZW) and in 2018 a single in the Whitehouse on 03 August (FS). Recorded to light in 2022 on 12 July at HQ (IDH gen det DS), 25 on 18 July on Princes Beach (JC) and on 24 July in the Haven (FS). A female recorded to light at HQ on 11 August 2023 (IDH gen det DS).			
62.048 (1470)	Ash-bark Knot-horn <i>Euzophera pinguis</i> (Haworth)	Common	Jun-Sep
Singles recorded at HQ light on 13 August 1994, 14 August 1998, then small numbers in 2011-2014, 2017 to 2024 between 12 June and 08 September, e.g., in 2017 singles were recorded at HQ light on three dates between 22 June and 20 August.			

62.050 (1469)	Wormwood Knot-horn <i>Euzophera cinerosella</i> (Zeller)	Nat S B	May-Sep
	One in the Whitehouse on 08 July 2010 (FS), and singles at HQ light on 10 August 2012, 13 July 2013 and 02 and 03 July 2018.		
62.051 (1468)	Agate Knot-horn <i>Nyctegretis lineana</i> (Scopoli)	pRDB3	Jun-Sep
	Occasional records, mainly from coastal sand hills, from 1920 - 1995 and in 2010 and from 2012-2024 between 20 June and 30 August including at HQ light.		
62.053 (1467)	Saltmarsh Knot-horn <i>Ancylosis oblitella</i> (Zeller)	Nat S B	Jun-Oct
	Recorded on the Estate on 12 August 1995, 17 August 1996, 11 September 1997, 17 July 2014 (JGCB). Recorded to light at HQ and on the Estate from 2017 to 2024 between 09 May and 08 November including the following - 27 and 28 August 2017, at HQ light on 15 and 26 July and 08 August 2018 (IDH, F gen det TD) and on 01 August 2019. There was an influx in 2020 with 56 individuals recorded over 25 nights between 09 May and 22 September on the Estate and at HQ with a maximum of eight on 08 August and a female recorded at HQ on 14 August (IDH, gen det DS). Singles were recorded to light at HQ on 30 August and 08 November 2021 (IDH). Singles or twos were recorded to light at HQ, on Princes Beach and at Sandown Road over 13 nights from 17 July to 22 September 2022 including a female at HQ on 03 September (gen det DS). Singles were recorded to light at HQ on 25 June and 23 August 2023 (IDH).		
62.054 (1481)	Twin-barred Knot-horn <i>Homoeosoma sinuella</i> (Fabricius)	Common	May-Sep
	12 records on the Estate from 1960 - 2000 but more regular since. Recorded annually between 21 May and 22 September up to 2024 with e.g., peak count of 23 on 15 July 2016 (FS).		
62.055 (1480)	Clouded Knot-horn <i>Homoeosoma nebulella</i> (Denis & Schiffermüller)	Nat S B	May-Sep
	Recorded at HQ light on five dates in 2016 from 27 May (three individuals) to 13 August (four) (IDH), on 02 June and 08 August 2020 and on 12 and 15 May 2024 (IDH).		
62.057 (1485)	Coast Knot-horn <i>Phycitodes maritima</i> (Tengström)	Local	May-Sept
	Annual unconfirmed records at HQ light up to 2018 and 2024. Confirmed records include a male at HQ light on 04 June 2019 (SZW, gen det TD), a single on 16 June 2022 (IDH gen det DS) and a female in the Haven on 06 September 2024 (MG&LN gen det NJ).		
62.058 (1483)	Spotted Knot-horn <i>Phycitodes binaevella</i> (Hübner)	Common	May-Sep
	Recorded occasionally in small numbers on the Estate from 1936 - 2014 between 20 May and 08 August. In 2016 singles recorded on 09 and 15 July and 05 August (IDH). In 2017 singles recorded at HQ light on 14 and 17 June and 15 July. Singles were recorded to light at HQ or Whitehouse on five dates between 12 July and 31 August 2019. Singles recorded to light at HQ, Hundred Acre and Sandown Road on nine dates between 24 June and 11 August 2020. Singles were recorded on five nights between 25 July and 11 September 2022 to light at HQ or in Middle Field and at HQ on 15 June and 09 August 2023 and singles recorded to light on seven dates at HQ or across the Estate in July 2024 including one on 17 July on Princes Beach (SW gen det DS).		
62.059 (1484)	Lesser Clouded Knot-horn <i>Phycitodes saxicola</i> (Vaughan)	Local	May-Sep
	A larva was taken from Ragwort in the Whitehouse on 15 June 2018 and reared to adult (F gen det DS). Two were reported from an MV light on Princes Beach on 25 June 2020 (NHM) [<i>gen det awaited</i>]. A single was recorded at HQ light on 05 September 2022 (SWi gen det)		
62.061 (1478b)	Pine-blossom Knot-horn <i>Vitula biviella</i> (Zeller)	Nat S A	Jun-Aug
	One in the Whitehouse on 02 August 2014 (FS) and recorded in small numbers annually from 2016 to 2024 to light at HQ or on the Estate or at Prince's Plantation or Sandown Road between 27 May and 17 August including a female at HQ light on 10 August 2020 (IDH, gen det DS).		
62.062 (1479)	Indian Meal Moth <i>Plodia interpunctella</i> (Hübner)	Local	Jun-Sep
	Recorded on 25 June, 02 July 2009 and 13 May 2010, possibly having originated from the Observatory seed store. Recorded to light at HQ on 25 May and 19 August (IDH), in the Elms on 01 September (MS) and observed in the field on 12 August 2023 (ASy).		
62.063 (1475)	Mediterranean Flour Moth <i>Ephestia kuehniella</i> (Zeller)	Adventive	Year round
	Discovered in the Field Centre kitchen on 19 March 2022 (GJL). A female recorded at HQ on 16 August (IDH gen det DS) and 12 observed on 01 September 2023 (MS).		
62.064 (1473)	Cacao Moth <i>Ephestia elutella</i> (Hübner)	Nat S B	Jun-Oct
	Taken at light on 30 June 1965, on 08/09 July 1977 (BM (NH)) and on the beach on 26 June 1993 (EB).		

- 62.065 (1474) **Blushed Knot-horn** *Ephestia woodiella* (Richards and Thompson) Local Apr-Sep
Previously known as *unicolorella*, this species requires gen det for identification. There are unconfirmed records from light at The Elms on 24 June 2009 and at HQ light in small numbers in 2009, 2010, 2011, 2013, 2014, 2016-2024 between 19 May and 12 September. The first confirmed record was a single male attracted to light in The Elms on 15 June (DS gen det) and males at HQ light on 16 June 2018 (IDH, gen det TD), on 27 May 2019 (IDH, gen det TD) and on 14 June 2020 (IDH, gen det DS).
- 62.067 (1476) **Dried Currant Moth** *Cadra cautella* (Walker) Adventive Jan-Nov
At least eight were found in the Ringing Room on 24 October 2018 (IDH, M and F gen det TD).
- 62.069 (1432) **Sandhill Knot-horn** *Anerastia lotella* (Hübner) **Nat S B** May-Sep
A grass moth favouring the coastal sandhills, collected in 1952 with a further five records to 1993 and attracted in large numbers to light on 23 June 2005 (TD), then small numbers annually from 2010 to 2024 between 03 June and 21 August. On 18 July 2022 50 individuals were attracted to light on Princes Beach (JC).
- 62.070 (1414) **Long-legged Tabby** *Synaphe punctalis* (Fabricius) Local May-Sep
Almost annual in small numbers (up to 15) at light from 1984 to 2024 between 02 June and 04 September. Abundant in 2010, including 119 on 12 July and in 2014 when up to 81 in July, with up to 73 in July 2015. Abundant in 2022 with 236 recorded to light at HQ and on the Estate and Beach over 40 nights between 22 June and 10 August with a maximum of 100 on 18 July on Princes Beach (JC).
- 62.072 (1417) **Meal Moth** *Pyralis farinalis* (Linnaeus) Common May-Oct
Recorded in small numbers most years to 2024 (singles on 17 dates in 2010 and up to three in 2013) between 20 May and 08 October.
- 62.074 (1421) **Large Tabby** *Aglossa pinguinalis* (Linnaeus) Local Jun-Jul
Recorded at light on 20 August 1984, on 06 July 1987 (Cellars), on 24 June 2005 (HQ) and at HQ light on 11 dates between 08 June and 11 August 2010. Recorded on the Estate on 15 June 2018 (AM et al). Discovered indoors at Sandown Road on 28 July 2022. Recorded to light at HQ on 02 August 2024 (IDH).
- 62.075 (1413) **Gold Triangle** *Hypsopygia costalis* (Fabricius) Common May-Nov
Fairly regular in small numbers at MV light and annually from 2009 to 2024 between 17 June and 21 October.
- 62.076 (1415) **Double-striped Tabby** *Hypsopygia glaucinalis* (Linnaeus) Common May-Nov
Recorded in small numbers on the Estate at MV light in 1950, 1955, 1979, 1987, 1989, 1993, 1995, 2001, 2002, 2006, 2009 and annually from 2011 to 2024 between 08 June and 28 October. Adults were bred from pupae found in old nests of House Sparrows on 04 July 1979.
- 62.077 (1424) **Rosy Tabby** *Endotricha flammealis* (Denis & Schiffermüller) Common Jun-Sep, Oct
Recorded on the Estate in 22 years from 1983 to 2024 between 15 June and 16 October.
- CRAMBIDAE**
- 63.002 (1368) **Mugwort Pearl** *Loxostege sticticalis* (Linnaeus) Migrant May-Nov
A scarce migrant recorded at HQ light on 16 July 1986, 23 August 2012 and 26 July 2014.
- 63.005 (1365) **Straw-barred Pearl** *Pyrausta despicata* (Scopoli) Common Mar-Sep
First recorded on 21 July 1957, with up to eight in several years to 2016. Occasionally more numerous, with up to 15 in August 2010 and 13 in August 2015. In 2017 63 individuals recorded over 30 dates between 06 April and 04 September with a maximum of 15 on 04 August to light in the Whitehouse. Recorded annually from 2016 to 2024 between 04 April and 28 September.
- 63.006 (1361) **Mint Moth** *Pyrausta aurata* (Scopoli) Common Apr-Jun, Jul-Sep
Singles at HQ light in 1985, 1988, 1989, 1995, 1999, 2008 (three) and annually in small numbers from 2010 to 2020 between 01 May and 15 September. In 2020 ten were recorded to light over seven nights at HQ, on the Estate and at Sandown Road. In 2022 individuals were recorded to light at HQ and in Middle Field on 02, 03 and 24 August. Recorded to light at HQ on 27 July, 12 and 31 August and 03 September 2023 and on 09 August and two in The Elms on 04 September 2024.
- 63.007 (1362) **Common Purple and Gold** *Pyrausta purpuralis* (Linnaeus) Common Apr-Jun, Jul-Sep
Singles in the Observatory garden on 03 August 1995 and 11 August 2002, on the Estate on 12 August 1995, then in small numbers at light in 2010 and annually at HQ or on the Estate from 2012 to 2023 between 12 June and 15 September. Individuals recorded to light at HQ and on Princes Beach on 08, 18 and 20 July 2022 and on four nights in 2023 between 19 July and 09 September. None were recorded in 2024.

63.011 (1369)	Yellow-underwing Pearl <i>Uresiphita gilvata</i> (Fabricius) Singles recorded to light at HQ on 28 and 30 September 2023 (SH/IDH).	Migrant	Aug-Oct
63.013 (1387)	Orange-rayed Pearl <i>Nascia ciliaris</i> (Hübner) Very local in Kent, singles were recorded to light at HQ on 20 May 2014, in the Whitehouse on 19 June 2015 (FS) and at HQ on 03 June 2021 (IDH) and 27 June 2022 (SB).	Nat S B	May-Aug
63.014 (1370)	Sulphur Pearl <i>Sitochroa palealis</i> (Denis & Schiffermüller) Recorded at light on the Estate on 28 and 31 July 1995, on 03 August 1995 (The Elms), at HQ light on 28 July 2002 and 21 July 2005. Recorded in the Oasis on 25 June 2009 and to light in the Recording Area and at HQ in small numbers between 2011 and 2018 between 25 June and 27 August. None were recorded in 2019. Two singles were recorded to light on each of 14 July and 11 August 2020 (IDH/KB). Between 12 July and 07 August 2022 eight individuals were recorded over six nights at HQ and on the Estate. Singles recorded to light at HQ on 19 July and 10 August 2023 (IDH) and on 09 August 2024.	Local	Jun-Sep
63.015 (1371)	Lesser Pearl <i>Sitochroa verticalis</i> (Linnaeus) Five were recorded to light on Princes Beach on 18 July 2022 (JC).	Local	May-Sep
63.016 (1386)	Rattle Pearl <i>Anania fuscalis</i> (Denis & Schiffermüller) Recorded at lighted windows on the Estate during June/July 1980 (MAA & TB) and at MV light on 13 June 1987 (IDH). Larvae were found feeding on the seed heads of Yellow Rattle in the Whitehouse in July 1981 (DMB).	Local	May-Aug
63.017 (1377)	Long-winged Pearl <i>Anania lancealis</i> (Denis & Schiffermüller) Two recorded to light at HQ on 15 July 1985, one in the Whitehouse on 25 June 2009 (FS), two on 04 July 2015, singles in the Whitehouse on 14 July 2017, on 13 July 2018, at HQ on 13, 19 and 25 July 2021 (IDH) and in the Haven on 12 July 2022 (FS).	Common	May-Aug
63.018 (1378)	Elder Pearl <i>Anania coronata</i> (Hufnagel) Recorded at lighted windows in 1969 and in Elder thickets about the Estate in 1980 but few records until recent times. Small numbers at HQ light and on the Estate from 2009 to 2024 between 25 May and 10 September. In 2022 45 were attracted to light at HQ, on the Estate and at Sandown Road over 26 nights between 17 June and 24 August.	Common	May-Sep
63.020 (1380)	Marsh Pearl <i>Anania perlucidalis</i> (Hübner) Recorded on the Estate in small numbers 1987, 1993, 1994, 1995, 2005 (Elms (TD)) and at HQ light in 2009-2011, 2013-2020 between 02 June and 04 September. Nine individuals recorded to light at HQ or in the Haven over six nights between 17 June and 12 July 2022 and at HQ on 05 and 07 July and 24 August 2023 and singles on four nights at HQ or in Jubilee Field between 27 June and 18 July 2024.	Common	May-Sep
63.022 (1385)	Fleabane Pearl <i>Anania crocealis</i> (Hübner) Recorded on the Estate at MV light in 1988 and annual in small numbers to 2024 between 23 May and 22 September, e.g., in 2017 16 individuals recorded to light on the Estate and at HQ in ones or twos on 12 dates between 29 May and 29 August.	Local	May-Sep
63.023 (1382)	Wood Sage Pearl <i>Anania verbascalis</i> (Denis & Schiffermüller) Recorded to HQ light on 15 September 2020 (SH/IDH), 09 August 2021 (IDH) and 03 June 2024 (IDH).	Nat S B	Jun-Jul
63.025 (1376)	Small Magpie <i>Anania hortulata</i> (Linnaeus) An abundant species throughout the Estate wherever beds of Nettles occur and a frequent visitor to the moth trap up to 2024 during the period 08 May to 22 September, e.g., in 2017 singles to threes recorded on 31 dates between 24 May and 04 August.	Common	May-Aug
63.027 (1383)	Powdered Pearl <i>Psammotis pulveralis</i> (Hübner) A male recorded at HQ light on 08 August 2020 (IDH, gen det DS).	Migrant	Jun-Jul, Aug-Sep
63.028 (1375)	European Corn-borer <i>Ostrinia nubilalis</i> (Hübner) Formerly a casual immigrant and now well established in the south. Recorded from 30 June - end August 1983 when small numbers appeared at light. From 2000-2024 not uncommon between 27 May and 26 October, e.g., in 2017 59 individuals recorded over 25 nights between 29 May and 21 September with a maximum of 19 on 15 July.	Local	May-Sep
63.029 (1373)	Bordered Pearl <i>Paratalanta pandalis</i> (Hübner) Recorded to HQ light on 07 August 2020 (SH/IDH).	Nat S A	Jun-Jul
63.030 (1374)	Knapweed Pearl <i>Paratalanta hyalinalis</i> (Hübner) Recorded to HQ light on 12 September 2024 (MG&LN).	Nat S B	Jun-Sep

63.031 (1395)	Rusty Dot Pearl <i>Udea ferrugalis</i> (Hübner)	Migrant	Year round
A migrant, recorded in small numbers in most years between 1979 and 2024 between 28 April and 29 November. More numerous since 2010, e.g., in 2016 187 individuals were recorded at the HQ light over 49 nights between 26 June and 5 November with a maximum of 18 on 27 August and in 2017 87 individuals were recorded over 45 nights between 29 May and 16 November with a maximum of nine on 18 October. A male from the HQ light was recorded on 18 July (SZW gen det DS).			
63.033 (1388)	Pale Straw Pearl <i>Udea lutealis</i> (Hübner)	Common	Jun-Sep
Recorded on the Estate on 31 July - 01 August 1987 (IDH gen det CP) and 26 and 29 July 1995 (ACJ). Reported at light at Old Downs Farm on 04 August 2019 (DM), on Princes Beach on 25 June 2020 (NHM), in The Elms on 05 September 2021 (KB) and in Middle Field on 23 August 2022 (KB) and 14 June 2023.			
63.034 (1390)	Dusky Pearl <i>Udea prunalis</i> (Denis & Schiffermüller)	Common	May-Aug
Recorded at light in the Whitehouse on 11 July 1989, at a lighted window on the Estate on 06 July 1993 and at HQ light on 30 August 2009 and in Restharrow on 12 July 2014 (DG). Recorded at light at HQ on 09 July 2016 and 23 July 2019 (IDH), in the Oasis on 25 June 2020 (AM/DS) and in the Haven on 12 July 2022 (FS). Two were recorded to light at HQ on 26 June 2023 (IDH).			
63.037 (1392)	Garden Pearl <i>Udea olivalis</i> (Denis & Schiffermüller)	Common	May-Aug
Common throughout the area with small numbers attracted to light on the Estate and at HQ in most years up to 2023 between 22 May and 23 July, e.g., in 2018 17 individuals were recorded over six dates between 13 and 24 June with a maximum of six on 24 June.			
63.038 (1405)	Mother of Pearl <i>Pleuroptya ruralis</i> (Scopoli)	Common	Jun-Sep
Found commonly in bushy clumps and wherever thick beds of Nettles grow. Sometimes particularly numerous in The Elms. Regular in small numbers at the MV light from 09 June to 07 October up to 2024, e.g., maxima of 11 on 20 July 2009, 17 on 26 August 2010, 20 on 24 August 2013, 10 on 24 August 2016 and 22 on 14 August 2017. A larva identified in The Elms on 03 May 2024 (RL/PS/BH).			
63.044 (1403)	Migrant Sable <i>Diasemiopsis ramburialis</i> (Duponchel)	Migrant	Jun-Nov
A scarce migrant, recorded at HQ light on 05 October 2013 (JGCB).			
63.047 (1404)	Banded Sable <i>Spoladea recurvalis</i> (Fabricius)	Migrant	Jul-Dec
First recorded in October 2018 – singles on 15 October on the Estate and at HQ light (IDH/SZW), a single at HQ light and two to light in the Whitehouse on 16 October and another single at HQ light on 18 October. Recorded to light at HQ on 24 June 2022 (IDH).			
63.048 (1408)	Olive-tree Pearl <i>Palpita vitrealis</i> (Rossi)	Migrant	Jun-Dec
Recorded at HQ light on 19 October 1990, 10 November 2011 and 22 and 25 October 2012. Singles on three dates between 4 and 25 October and two on 01 November 2013. One on 24 October 2014. Recorded in small numbers annually on the Estate or at HQ from 2017 to 2024 between 29 July and 20 November.			
63.050 (1399)	Long-legged Pearl <i>Dolicharthria punctalis</i> (Denis & Schiffermüller)	Nat S B	Jun-Oct
A strictly coastal species, with singles recorded in a seafront trap on 23 July 1985 (JW) and 15 July 1988.			
63.051 (1400)	Toadflax Pearl <i>Antigastra catalaunalis</i> (Duponchel)	Migrant	Jun-Nov
Recorded to light at HQ on 03 September 2024 (SH/IDH).			
63.052 (1398)	Rush Veneer <i>Nomophila noctuella</i> (Denis & Schiffermüller)	Migrant	Year round
This species can often be found in large numbers on the coast and it has been recorded at light from 12 April to 29 November annually to 2024. Peak counts include 51 on 19 August and 73 on 07 September 2009, 40 on 08 July, 87 on 26 August and 67-83 on 09-10 September 2010, 40 on 23 October 2012, 49 on 04 October 2013, 45 on 25 September 2016 and 18 on 23 August 2017. Since then, it has been recorded in lower numbers e.g., in 2020 one to three were recorded on 13 nights between 26 June and 08 October however in 2022 they were very much more numerous from 12 April to 12 November with maxima of 151 and 157 in late October.			
63.054 (1409a)	Box-tree Moth <i>Cydalima perspectalis</i> (Walker)	Adventive	Jul-Nov
Originating from Asia, a pest on <i>Buxus</i> , almost certainly introduced to UK on imported Box trees. First record for UK was from Kent in 2007. Double brooded. First recorded at HQ light, during National Moth Night, on 27 September 2019 (SH/IDH). Mainly singles recorded to light at HQ and on the Estate over nine dates between 25 June and 22 September 2020 and 31 recorded to light at HQ and on the Estate over 17 nights between 15 July and 07 October 2021 including a maximum of seven on 08 September and a dark form individual on 17 September at HQ. In 2022 ones to threes recorded to light at HQ, on the Estate and beach and at Sandown Road over 43 nights between 28 June and 31 October. A similar pattern in 2023 from 12 June to 12 October with a maximum of 71 in The Elms on 12 June. From 2019 to 2024 recorded annually in increasing numbers between 12 June and 31 October. A larva was reported from the Gullies on 02 May 2022 (DS).			

- 63.056 (1359) **Starry Pearl** *Cynaeda dentalis* (Denis & Schiffermüller) **Nat S A** May-Aug, Sep-Oct
On coasts of south England, feeding on stems of Viper's Bugloss with records at Sandwich Bay in 1985, 1987, 1990, 1995 (six), 1997, 2002, 2009 (four), 2010 (two), 2011, 2013 (four), 2015. Single figure numbers recorded annually to light at HQ and across the Recording Area from 2017 to 2023 between 25 June and 21 September. None were recorded in 2024. Larvae were recorded in 2018 in Restharrow Dunes on 06 June (six) (DS) and on the Estate on 15 June (AM et al).
- 63.057 (1356) **Garden Pebble** *Evergestis forficalis* (Linnaeus) Common Apr-Sep
Commonly recorded at light on the Estate and HQ between 08 May and 15 September up to 2024 with small numbers often flying to Observatory lighted windows at night.
- 63.058 (1357) **Marbled Yellow Pearl** *Evergestis extimalis* (Scopoli) Local Apr-Sep
Formerly an irregular immigrant and colonist to SE England with a total of 36 records at MV light from 1950 to 2014 (six in 2014) between 24 May - 27 September. None recorded 2014-2017. From 2018 to 2023 small numbers recorded annually to light at HQ and on the Estate between 11 June and 31 August. None were recorded in 2024.
- 63.059 (1356a) **Dark-bordered Pearl** *Evergestis limbata* (Linnaeus) **Nat S B** May-Sep
First recorded on the Isle of Wight in 1994 and now established along the south coast. Small numbers at HQ light annually from 2012 to 2024 between 05 June and 11 September. E.g., in 2020 mainly singles were recorded mainly at HQ on 15 dates.
- 63.060 (1358) **Chequered Pearl** *Evergestis pallidata* (Hufnagel) Common May-Sep
First recorded at HQ light on 25 May 2018 (SZW), singles at Old Downs Farm and Whitehouse on 02 August 2019 and a single to light at HQ on 13 June 2023 (GJL).
- 63.061 (1360) **Old World Webworm** *Hellula undalis* (Fabricius) Migrant Aug-Dec
Recorded to light at HQ on 03 August 2022 (ME&RE) and observed at St George's Bushes on 26 October 2023 (SZW).
- 63.062 (1332) **Large Grey** *Scoparia subfusca* (Haworth) Common May-Sep
Recorded on the Estate on 5 August 1981 with a further nine records to 2006. Recorded in 2010 (up to four), 2011, 2012, 2013 (up to two), 2016 to 2021. Recorded between 20 June and 26 August. None were recorded in 2022. Recorded to light at HQ on 18 and 21 July 2023 (IDH) and in Jubilee Field on 30 June 2024 (CV/KM).
- 63.063 (1334a) **Chequered Grey** *Scoparia basistrigalis* (Knaggs) Local May-Aug
Recorded on the Estate on 05 July 1985, 02 July 2010 (FS/JGCB) to light in The Elms on 25 May (SZW), at HQ on 16 July 2018, singles to light in Restharrow Dunes and The Elms on 06 July 2019 and individuals to light at HQ (IDH) and in The Elms (two) (SZW) on 09 July 2020, at HQ on 26 June 2023 and in The Elms on 03 July 2024 (CV/KM).
- 63.064 (1334) **Common Grey** *Scoparia ambigua* (Treitschke) Common Apr-Aug
First recorded in 1987 and subsequently in small numbers in most years to 2024 between 05 May and 04 September.
- 63.066 (1333) **Brown-spot Grey** *Scoparia pyralella* (Denis & Schiffermüller) Common May-Aug
Recorded on the Estate on 30 July 1983 with a further 15 records to 2009 between 16 May -12 July. Subsequently in small numbers in 2010, 2011, 2013 to 2016 between 29 May and 19 June, including 12 in the Whitehouse on 19 June 2015 (FS). In 2018 there was a single field observation of four in the Whitehouse on 15 June (FS). From 2019 to 2022 small numbers recorded annually to light at HQ and on the Estate between 10 and 30 June. A male was attracted to HQ light on 10 June 2022 (IDH gen det DS).
- 63.067 (1338) **Tawny Grey** *Eudonia lacustrata* (Panzer) Common May-Sep
Recorded at light in The Elms on 24 June 2005 and in small numbers at HQ light and on the Estate in 2009 -2011, 2013 to 2024 between 29 May and 30 August.
- 63.069 (1342) **Narrow-winged Grey** *Eudonia angustea* (Curtis) Common Year round
Recorded on the Estate in 1987 and small numbers (up to 11 in 2013) regularly to 2024 between 29 March and 14 November, e.g., in 2017 24 individuals were recorded at HQ light over 18 dates between 12 May and 25 October with a maximum of four on 16 May.
- 63.072 (1343) **Pied Grey** *Eudonia delunella* (Stainton) **Nat S B** May-Aug
Singles recorded to light at HQ on 24 June (IDH/SZW) and 04 July 2019 and in the Oasis on 25 June (AM/DS), at HQ on 29 September 2020 (IDH), on 16 June 2022 (KR) and on 17 and 19 June 2023.
- 63.073 (1340) **Peppered Grey** *Eudonia truncicolella* (Stainton) Common Jul-Sep
Recorded to light in The Elms on 24 June (SZW) and at HQ on 19 July 2018 (SH/IDH), at HQ on 07 (SH/IDH) and in The Elms on 09 July 2020 (SZW) and at HQ on 17 June 2022.

63.074 (1344)	Garden Grey <i>Eudonia mercurella</i> (Linnaeus)	Common	Jun-Sep	Recorded on the Estate in 1983 with many records to 2024 between 17 June and 06 September, e.g., in 2017 singles were recorded on nine dates between 09 July and 12 August mainly at HQ light but including one in the Whitehouse.
63.075 (1336)	Pallid Grey <i>Eudonia pallida</i> (Curtis)	Local	May-Jul, Aug-Nov	Recorded on the Estate in 1950, 1992 (golf course), 2005 (The Elms and two on the beach (TD)) and 2006 (Sandown Road). Small numbers (up to 12 in 2013 and 16 in 2014) at HQ light in 2004, 2005 and 2008 to 2024 between 16 May and 10 November, e.g., in 2017 55 individuals were recorded over 28 nights between 16 May and 21 September with a maximum of 12 on 29 May.
63.076 (1289)	Silver-spotted Veneer <i>Euchromius ocella</i> (Haworth)	Migrant	All year	Recorded to light at HQ on 23 September 2024 (SH/IDH).
63.077 (1290)	Reed Veneer <i>Chilo phragmitella</i> (Hübner)	Local	May-Sep	Fairly common about reedbeds and often seen flying over Worth Marshes ditches in the evening wherever <i>phragmites</i> occurs. First identified in 1950 and recorded at light most years between 02 June and 17 September up to 2024.
63.079 (1292)	Bulrush Veneer <i>Calamotropha paludella</i> (Hübner)	Local	Jun-Oct	Recorded on the Estate in 1983, 1993 (six), 1994, 1995, 1998 (three), 2000, 2004, 2005 (TD), 2006 (six) and annually in small numbers from 2009 (up to 11) to 2024 between 12 June and 10 September. Exceptionally 11 on 12 July 2022 in the Haven.
63.080 (1293)	Garden Grass-moth <i>Chrysoteuchia culmella</i> (Linnaeus)	Common	May-Oct	Recorded regularly from 1957 and annually from 2011-2024 between 22 May and 17 September, including captures of 169 on 02 July and 172 on 20 July in 2009, 1,584 on 15 July 2010 and 250 on 18 July 2022.
63.081 (1294)	White-banded Grass-moth <i>Crambus pascuella</i> (Linnaeus)	Common	May-Sep	Common in the damper grassy areas of the Estate and adjacent golf courses, throughout June and July, usually resting head downwards on grass stems from which it is readily disturbed. Regularly recorded in the moth trap between 09 June and 14 September up to 2024, e.g., in 2016 nine individuals recorded over six dates from 02 July to 27 August. There was a large count of 25 light at HQ on 14 August 2022.
63.085 (1300)	Scarce Grass-moth <i>Crambus pratella</i> (Linnaeus)	Nat S B	Jun-Sep	Recorded on 17 June 1993 (EB).
63.086 (1301)	Meadow Grass-moth <i>Crambus lathoniellus</i> (Zincken)	Common	May-Aug	Abundant over rough grassland throughout the area. Small to moderate numbers (up to 20) regularly at light in 1967, 1983, 1988, 1989, 1993, 1995, 1999 and 2002 – 2024 between 27 April and 31 August.
63.088 (1302)	Satin Grass-moth <i>Crambus perlella</i> (Scopoli)	Common	May-Sep	Abundant in the area. Recorded at Mary Bax in July/August 1951 and regularly at light in moderate to large numbers from 1975 to 2024 between 18 May and 07 September (e.g., 34 on 25 July 2009, 58 on 04 July 2010, 35 on 27 June 2012, 54 on 20 July 2013 and 155 on 11 July 2014). Examples of the variant <i>Crambus perlella warringtonella</i> are common.
63.089 (1305)	Common Grass-moth <i>Agriphila tristella</i> (Denis & Schiffermüller)	Common	Jun-Oct	Common over grassy areas and regular at light in small to moderate numbers up to 2024 between 12 June and 19 October, though can be numerous e.g., 108 on 19 August and 118 on 23 August 2009 and 165 on 23 August 2011.
63.090 (1306)	Barred Grass-moth <i>Agriphila inquinatella</i> (Denis & Schiffermüller)	Common	Jun-Sep	Recorded at HQ light on 12 August 1988 (IDH confirmed CP), 11 July 2010 (PDH/JGCB/JJS), up to four in July to 15 August 2015, on 27 May 2017 (SH/IDH) and singles to light at St George's Bushes on 26 July and in the Whitehouse on 03 August 2018, at HQ on 25 July 2019 (SH/IDH), on 22 June at HQ, on 17 July in Whitehouse and on the Hundred Acre (three) and on 10 August 2020 in the Oasis and at HQ on 25 July 2021, 15 July 2022, on 16, 18 and 22 August 2023 and on 18 June and 23 July 2024.
63.091 (1307)	White-streaked Grass-moth <i>Agriphila latistria</i> (Haworth)	Local	Jul-Sep	Recorded on 30 August 1974 (Emmett, A., 1977) and at HQ light on 20 August 1989, 01 September 1998, 31 August 2016 (IDH), 07 September 2021 and 02 September 2022. Seven individuals recorded to light at HQ or on the beach over five nights between 01 and 22 September 2024.
63.092 (1303)	Pale-streaked Grass-moth <i>Agriphila selasella</i> (Hübner)	Local	Jun-Sep	Recorded at HQ light on 16 August 1998, 16 August 2004 and 30 July 2010 (FS), then small numbers to light annually at HQ or on the Estate between 20 July and 07 September from 2015 to 2024 e.g., individuals recorded to light at HQ on 05 (two), 07, 08 and 11 August (SH/IDH) and at Restharrow Dunes on 12 August 2020 (FS).

63.093 (1304)	Straw Grass-moth <i>Agriphila straminella</i> (Denis & Schiffermüller)	Common	Jun-Sep	One of the most common grass moths in the area and found abundantly over the golf courses with many records including at light from 1960 to 2024 between 27 May and 25 September.
63.095 (1309)	Chevron Grass-moth <i>Agriphila geniculea</i> (Haworth)	Common	Jul-Oct	Recorded occasionally at HQ light, from 1981 to 2012. More regular from 2013 to 2024 e.g., in 2017 52 individuals recorded to light on the Estate and at HQ over 24 nights between 02 June and 01 October with a maximum of 11 on 06 September. Recorded from 02 June to 17 October.
63.099 (1313)	Pearl Grass-moth <i>Catoptria pinella</i> (Linnaeus)	Common	Jun-Aug	Recorded on the Estate on 07 July 1989 and at HQ light on 19 July 2016 (IDH). Recorded to light in the Haven on 30 June, at HQ on 25 and 26 July and 01 August 2019, on the Estate on 20 July 2020 (KB), at HQ on 27 July 2022 (JH) and in The Elms on 03 July 2024 (CV&KM).
63.102 (1316)	Chequered Grass-moth <i>Catoptria falsella</i> (Denis & Schiffermüller)	Common	Jun-Sep	Recorded at HQ light between 05 July and 07 September annually from 2009 to 2017. In 2017 a single recorded to HQ light on 14 July (IDH). None were recorded in 2018. Recorded to light at HQ on 24 and 25 July and 26 and 28 August 2019 and on 18 July and 13 and 14 (three) August (IDH) and at Restharrow Dunes on 12 August 2020 (FS). Singles were recorded to light at HQ and on the Estate on five nights between 04 July and 20 August 2022, at HQ on 11 and 24 August 2023 and 18 August 2024.
63.103 (1317)	Marbled Grass-moth <i>Catoptria verellus</i> (Zincken)	Migrant	May-Jul	Singles to HQ light in July 2014, on 21 and 31 July 2016, 10 July 2017, 23 and 24 June 2019 (SH/IDH), 22 July 2020 and on 01 (IDH), 04 (CV/KM) and 19 July 2024 (GJL).
63.107 (1321)	Powdered Grass-moth <i>Thisanotia chrysonuchella</i> (Scopoli)	Nat S B	Apr-Jun	A local species of dry grassland and noted on the golf-courses, recorded on 8 June 1950 then occasionally on the Estate and in the HQ trap on many dates to 2024 between 07 May and 14 July, e.g., In 2017 ten were recorded in the field on 09 May in Hundred Acre, a single to light in the Whitehouse and four in the field on 10 May, a single in the HQ trap on 11 May and a single to light in St Georges Bushes on 02 June. There was a maximum of 21 to light in the Whitehouse on 25 May 2018.
63.109 (1323)	Rolled Grass-moth <i>Pediasia contaminella</i> (Hübner)	Nat S B	Jun-Oct	Recorded on the Estate on 12 August 1995, at HQ light on 26 July 2004, 19 July 2007 and 03 July and 08 August (two) 2009. Recorded annually from 2010 to 2024 between 12 June and 07 October. 2019 was an exceptional year with maxima of 68 to light at Princes Beach on 28 July (DG) and 29 at HQ light on 29 July (IDH).
63.110 (1324)	Saltern Grass-moth <i>Pediasia aridella</i> (Thunberg)	Nat S B	Jun-Aug	Recorded on the riverside saltings at Sampher and Hundred Acre Field in August 1956 and at least 20 on the Sampher saltmarsh on 28 June 2010 (FS). At HQ light small numbers in 2009, 2010, 2014 - 2016 between 25 June and 20 August. None in 2017 to 2019. A single was recorded to light on the Estate on 30 July 2020 (KB). None in 2021. At HQ a single on 7 July 2022 (JH).
63.111 (1326)	Little Grass-moth <i>Platytes cerussella</i> (Denis & Schiffermüller)	Local	Jun-Jul	Recorded in 1908, 1936 and in many years from 1960 to 2024 between 29 May and 16 July, including at least 60 in the dunes from Prince's northwards on 21 and 28 June 2010. In 2017 three were recorded to HQ light on 15 July and in 2018 there was an estimated count of 300 along the seafront on 15 June (AM et al).
63.112 (1325)	Hook-tipped Grass-moth <i>Platytes alpinella</i> (Hübner)	Nat S B	Jun-Sep	A very local sandhill-loving species taken on Cinque Ports and Royal St. George's Golf Courses in 1935 - 1937 (Emmett A, 1977), 1948 - 1950, 1954, 12 August 1995 and 18 July 2006. Small numbers at HQ light in 2010 and 2012 to 2020 between 05 July and 23 August. None were recorded in 2021. Six individuals were recorded to light at HQ or in the Haven over five nights between 04 July and 15 August 2022. Singles were recorded to light at HQ on 07 July 2023 and on 18, 19 and 21 July 2024.
63.113 (1327)	Giant Grass-moth <i>Ancylolomia tentaculella</i> (Hübner)	Migrant	Jul-Aug	Recorded on 01 August 2019 at HQ light (DT) as part of an extensive migration event.
63.114 (1345)	Brown China-mark <i>Elophila nympeata</i> (Linnaeus)	Common	May-Oct	Regularly attracted to light from 1981 to 2024 (nine in 2009 and ten in 2010) between 13 June and 13 September.
63.115 (1331)	Water Veneer <i>Acentria ephemerella</i> (Denis & Schiffermüller)	Common	May-Sep	Moderate to large numbers between 23 April and 18 September on the Estate in 1983, 1997, 2002, 2009, 2010 and 2012 to 2024, e.g., in 2013 200 in the Whitehouse on 09 August and in 2016 up to 108 in July and 97 in August to HQ light.

- 63.116 (1354) **Small China-mark** *Cataclysta lemnata* (Linnaeus) Common May-Sep
Not uncommon at light on the Estate and annual in small numbers up to 2024 between 12 May and 14 September. There was a field record for Worth marshes of an estimate of 50 on 30 May 2018.
- 63.117 (1348) **Ringed China-mark** *Parapoynx stratiotata* (Linnaeus) Common May-Sep
Recorded at light in 1936 and subsequently regularly to 2024 (up to nine in 2009, eight in 2011 and 2012, 28 in 2013, 30 in 2014 and 51 in 2015). Recorded between 13 May and 22 September. A very early record of two were recorded to light at HQ on 01 March 2023 (MS).
- 63.118 (1350) **Beautiful China-mark** *Nymphula nitidulata* (Hufnagel) Local May-Sep
Small numbers (up to nine) on the Estate in 1936, 1957 and at HQ from 1984 to 2024 between 01 June and 22 September. There was a very early record to light at HQ on 01 March 2023 (MS) and a very small individual on 12 August 2024 (IDH confirmed DS).
- 63.119 (1355a) **Marbled Fern** *Musotima nitidalis* (Walker) Adventive Apr-Dec
This species was first found in Dorset in 2009, and since then there have been quite a number of records scattered in the southern counties between Dorset and Essex. Some locations have had multiple occurrences suggesting that it may now be resident in these areas. It is native to Australia and New Zealand and is suspected to have originally been imported with tree ferns. First recorded in the Recording Area to MV light near Prince's Beach on 04 September 2021 (JHC).
- 63.120 (1328) **Giant Water-veneer** *Schoenobius gigantella* (Denis & Schiffermüller) Local May-Sep
Recorded on the Estate in 1950 and in small numbers at light in most years to 2024 between 13 May and 21 September. An early male was attracted to light at HQ on 13 May 2021 (IDH, gen det DS).
- 63.121 (1329) **Pale Water-veneer** *Donacaula forficella* (Thunberg) Local May-Sep
Recorded on the Estate in 1950, 1990 and regular since to 2024 at HQ between 25 May and 16 September (up to 31 in July 2010).
- 63.122 (1330) **Streaked Water-veneer** *Donacaula mucronella* (Denis & Schiffermüller) **Nat S B** Jun-Sep
Singles of this reed/sedge species were taken at HQ light on 14 July and 05 August 1983, 24 July 1994, 25 August 2008, 03 July 2009 (two), 15 August 2012 and 16 July 2014 (JGCB).

A Systematic List of Macro-moths at the Bay

The following list presents a summary of the status of macro moths recorded at Sandwich Bay at the end of 2024. The scales of abundance applied to each species are intended to reflect the recent frequency and scale of their occurrence within the Sandwich Bay Recording Area as accurately as possible. However, they should be treated with a degree of caution as it is clear that considerable and significant changes are taking place within the populations of an increasing number of species. In some cases they may reflect the influence of climate change, while in others habitat transformation has been more influential, particularly as scrub and woodland on the Estate continues to mature, creating a link between the Estate and the world beyond that did not exist three or four decades ago. It is also clear that intensive trapping and exploration since 2009 has been of considerable significance in providing a fuller appreciation of the occurrence of many species. The scales of abundance (updated in 2018) are as follows:

Ab	Abundant	50 or more may be expected in a night or in daytime
C	Common	10 or more may be expected in a night or during daytime
F	Frequent	More than 20 records may be expected annually
O	Occasional	1 to 20 records in most years
R	Rare	Fewer than 10 records in the Recording Area
x	Extinct	Historically resident but no longer so

The National Status for each macro moth is shown to give an indication of how rare or otherwise the species is in a national context, (Fox, R et al 2019). As a broad guide their status is based on their UK distribution measured in terms of occurrence as follows;

Nat R	Nationally Rare	Species resident in \leq 15 hectads
Nat S	Nationally Scarce	Species resident in 16 - 100 hectads

and/or their IUCN Red List category (not including Least Concern). (See www.iucnredlist.org for full description of categories)

RE	Regionally Extinct	not recorded in GB this century
CR(PE)	Critically Endangered	at an extremely high risk of extinction (possibly extinct)
CR	Critically Endangered	at an extremely high risk of extinction
EN	Endangered	at a very high risk of extinction
VU	Vulnerable	at a high risk of extinction
NT	Near Threatened	close to qualifying for threatened status

The taxonomic treatment of some families represents a significant change from earlier lists, particularly in respect of the *Cossidae* (the Leopard and Goat Moths), *Sesiidae* (Clearwings), *Limacodidae* (Festoon) and *Zygenidae* (Burnets and Foresters). These are now placed within the moths more familiarly regarded as micros, between the *Tortricidae* and *Pyralidae*. However, since these families have mostly been regarded as macros, for reasons of consistency, they will continue to be included within the macros for the purposes of annual totals. Further revisions to the taxonomy have been made and this list reflects updates to 2024.

For some species/groups of species the only reliable way of determining the species is by Determination by Genitalia Examination indicated in the text by 'gen det'.

Flight periods are applicable to the Sandwich Bay Recording Area.

DREPANIDAE

- 65.001 (1645) **Scalloped Hook-tip** *Falcaria lacertinaria* (Linnaeus) R
Recorded to light at HQ on 25 July 2018 (IDH), 05 August 2019 (SH/IDH) and 17 (IDH) and two in The Elms on 22 July 2024 (SB).
- 65.002 (1646) **Oak Hook-tip** *Watsonalla binaria* (Hufnagel) **VU** 02 May - 15 September O
Recorded at HQ light on 17 June 1986, 09 August 1991 and in 1995 on 30 August, 01 September and on the golf course on 05 September. Small numbers recorded at light in 2010 and 2012 to 2018. None were recorded in 2019. In 2020 ten individuals were recorded to light at HQ over nine dates between 21 May and 15 September, in 2021 singles were recorded to light at HQ and on the Estate on five dates between 02 June and 16 August and in 2022 nine individuals were recorded over eight nights between 02 May and 31 July. Singles were recorded to light at HQ on 04 August 2023 (SH/IDH) and on 02 and 08 September 2024 (IDH).
- 65.003 (1647) **Barred Hook-tip** *Watsonalla cultraria* (Fabricius) R
A locally common Beech-feeding species, recorded at light on 25 and 31 July 1982 (IDH) and 28 July 1992 (PB et al).
- 65.004 (1649) **Dusky Hook-tip** *Drepana curvatula* (Borkhausen) 15 May – 24 August R
A rare migrant recorded at HQ light on 10 August 2011 (JGCB), on four dates between 01 and 15 August 2014 (JGCB), on 24 August 2019 (IDH), to light in the Oasis on 10 August 2020 (CW/IDH), at HQ on 22 July 2022 (SZW) and on 15 May, 25 and 28 July and 10 August 2024 (all IDH).

65.005 (1648)	Pebble Hook-tip <i>Drepana falcataria</i> (Linnaeus)	09 March - 17 September	O
	Small numbers (up to eight in August 2009, six in July 2010 and 10 in August 2012) recorded annually from 1992 to 2024.		
65.007 (1651)	Chinese Character <i>Cilix glaucata</i> (Scopoli)	30 March – 09 November	C
	Recorded annually to 2024 at light in small to moderate numbers (up to 11 in July 2010, 13 in August 2013 and 23 in September 2014).		
65.008 (1652)	Peach Blossom <i>Thyatira batis</i> (Linnaeus)	09 May - 10 September	O
	Recorded on the Estate on 21 July 1991 and singles up to a total of eight to light at HQ and on the Estate in 2004, 2009 (two), 2010, 2012 to 2024.		
65.009 (1653)	Buff Arches <i>Habrosyne pyritoides</i> (Hufnagel)	11 June - 18 August	O
	Recorded at HQ light in most years to 2024 (14 in July 2013, 12 in July 2015 and six in 2018). Attracted to sugar in The Elms in July 1968.		
65.010 (1654)	Figure of Eighty <i>Tethea ocellaris</i> (Linnaeus)	30 April - 16 August	O
	First recorded in 1957 (JMC-M). Small numbers (up to five in 2009 and seven in 2016) annually at MV light from 1983 to 2024.		
65.011 (1655)	Poplar Lutestring <i>Tethea or</i> (Denis & Schiffermüller)	16 May – 28 July	R/O
	Recorded at Sandown Road on 15 June 2003 (SH/IDH), in the Whitehouse on 25 June (FS) and at HQ light on 02 July 2009 (PDH, JGCB, AP). Annual from 2019 to 2024 e.g. 10 July 2019 (SH/IDH) and to light in the Oasis on 25 (AM/DS) and at HQ on 27 June 2020 (IDH), 02 and 14 June and 02 July 2021 and 24 individuals to light at HQ and on the Estate over 12 nights between 16 May and 26 July 2022 with a maximum of seven in the Haven on 12 July.		
65.012 (1656)	Satin Lutestring <i>Tetheella fluctuosa</i> (Hübner)		R
	Recorded at HQ light on 20 July 1991, on the Royal St. George's Golf Course on 07 August 2002 and at HQ light on 07 July 2009, 30 June 2013 (JGCB) and 15 July 2014 (JGCB).		
65.013 (1657)	Common Lutestring <i>Ocropacha duplaris</i> (Linnaeus)	03 June - 18 August	O
	Recorded occasionally, mainly from The Elms and the golf course from 1981 – 2015 e.g., five on 10 July 2010 and up to three in July 2015 (DG) and singles to light at HQ on 18 June 2017 and on the Estate Beach on 05 (ME) and in The Elms on 06 July 2019 (SZW). Singles recorded to light at HQ, the Haven or at Sandown Road on five nights between 17 June and 12 July 2022, at HQ on 10 and 23 June 2023 and in the Whitehouse on 03 June 2024 (KB).		
65.014 (1658)	Oak Lutestring <i>Cymatophorima diluta</i> (Denis & Schiffermüller)	EN	R
	Singles trapped at HQ on 30 September 2009 (JGCB) and 26 September 2010 (JGCB).		

LASIOCAMPIDAE

66.001 (1631)	December Moth <i>Poecilocampa populi</i> (Linnaeus)	03 November - 21 December	O
	One-five recorded at MV light in most years from 1982 to 2017. None were recorded in 2018. A single to HQ light on 06 December 2019 (IDH). Ten individuals were recorded to light on the Estate and at Sandown Road over four nights between 16 November and 11 December 2020 and a single was recorded to light at HQ on 18 November 2021. Two males were recorded to HQ light on 10 November 2022 and one on 15 December 2024.		
66.003 (1634)	Lackey <i>Trichodia neustria</i> (Linnaeus)	VU 02 July - 06 September	R
	The larval stage of this moth was often extremely common, frequently defoliating whole bushes of Hawthorn at Sampher and Stonelees. It was quite common between 1981 and 1987 but only six more records up to 2013, including a single to light at Mary Bax's stone on 20 August 2001 (DMB) and two recorded in August 2013. None were recorded in 2014-2018. A single was recorded at HQ light on 06 July 2019 (SZW). Five individuals were recorded to light on the Estate and at Sandown Road over three nights from 23 to 25 June 2020 (IDH/DS). None were recorded in 2021. A single was recorded to light on Princes Beach on 18 July 2022 (JC).		
66.004 (1635)	Ground Lackey <i>Trichodia castrensis</i> (Linnaeus)	Nat S	R
	A very local saltmarsh species mainly restricted to coastal sites from Kent to Suffolk. Long known to occur in Pegwell Bay but two on the Sampher saltmarsh on 13 July 2000 (DMB) were the first records within the Recording Area. A larva was found in the same area on 21 June 2010 (PDH). Individuals were recorded to light in the Hundred Acre on 01 August 2019 (two) (DT), 17 July 2020 (ten) (MB). On 18 July 2022 both a male and female were recorded to light on Princes Beach (JC).		
66.007 (1637)	Oak Eggar <i>Lasiocampa quercus</i> (Linnaeus)	09 July - 25 August	O
	Up to four at light on the Estate or at HQ most years, or observed in the area, to 2014. From 2015 to 2019 less than 13 individual adults were recorded annually. Twenty-three individuals were recorded to light over 18 dates between 14 July and 12 August 2020. Between 2021 and 2024 between five and 15		

have been recorded annually to light at HQ, on the Estate, the Beach or at Sandown Road. Single larvae were found in the Observatory garden on 17/18 June 1978 and annually to 2020. A larva was discovered on the Worth Track on 12 May 2022 (CJH) and one in The Elms on 04 May 2024 (RL/PS/BH).

- 66.008 (1638) **Fox Moth *Macrothylacia rubi*** (Linnaeus) 22 April -30 June F
Field observations of adults are regular and larvae are common over the golf course rough from the end of August into November and the first four months of the year e.g. larvae were recorded in the Big Gully on 25 September 2021 (MS/PS/DL) and in Middle Field on 03 February, and at HQ on 04 March (CJH) and 27 June (SB) 2022 and in 2024 single larvae were recorded on 15 February at HQ (GJL), on 10 April on Restharrow Scrape (GJL) and on Royal St. George's Golf Course (SZW) and in the Oasis (SAA) on 10 September 2024. Small numbers recorded at light in most years to 2024 e.g., 15 individuals were observed or to light on the Estate or at HQ on 13 dates from 18 May until 30 June 2020 including a female on 26 June at HQ light (IDH) and a female in The Elms on 16 May 2022 (CJH/SZW).
- 66.010 (1640) **Drinker *Euthrix potatoria*** (Linnaeus) 20 March - 26 September F
Recorded annually at light on the Estate and at HQ up to 2024 and often seen flying through the area on sunny days. Larvae frequently found along ditches and damp slacks on *phragmites* and recorded in Middle Field on 13 March and on the Estate on 17 May (three) 2022, on the Green Wall on 05 July 2023 (IDH) and across the wider Recording Area between 17 April and 06 June 2024.
- 66.012 (1642) **Lappet *Gastropacha quercifolia*** (Linnaeus) **EN** R
Larvae found on Hawthorn on the Sampher and St Georges in July 1971. Singles at light on 11 July 1981 (DMB) and 18 July 1984 (IDH).

SATURNIIDAE

- 68.001 (1643) **Emperor Moth *Saturnia pavonia*** (Linnaeus) 02 April - 28 May F
A female was ovipositing on Bramble at the Sampher in 2000, two were at HQ in 2004, singles were seen in 2005, a larva was found on Bramble near Middle Field in August 2007 and three by the Haven on 15 June 2018. Singles recorded at light in the Whitehouse on 18 April 2009, up to four were recorded in April 2012, though only singles were recorded in 2013, 2014, 2016 and 2017 and none until two males seen on Worth on 24 April (RJ/SZW) and a female to HQ light and a male in the field on 27 April 2021. In 2022 there were records of males in the field on 21 March on Princes Beach, 22 April in the Cellars, 04 May on Restharrow Scrape and 05 May on Worth; females to light at HQ on 10 and 24 April; a male responded to a pheromone lure at HQ on 23 March; and larvae were recorded on Aspen in St Georges Bushes on 20 May and in Waldershare Gully on 30 May. Males were observed on New Downs on 18 April and St Georges Bushes on 02 May, attracted to pheromones in Middle Field on 29 April and larvae observed in Middle Field on 28 May and on Worth on 14 July 2023. A male was observed at Chequers on 11, and singles were attracted to light at HQ (F) and in The Elms on 12 April 2024.

SPHINGIDAE

- 69.001 (1979) **Lime Hawk-moth *Mimas tiliae*** (Linnaeus) 13 May - 02 August O
A few at light from 1978 to 1999. Annual in small numbers from 2000 to 2006 and from 2009 to 2016. None recorded in 2017. Adults were recorded to light on the Estate (two) and at HQ on 15 June 2018, on 05 and 30 June and 05 July 2019, 20 and 21 May, 17 June (*brunnea*), 25 June (Oasis) and 17 July 2020, at HQ light on 14 June and 15 July 2021, on 18 and 25 June 2023 and on 03 July 2024.
- 69.002 (1980) **Eyed Hawk-moth *Smerinthus ocellata*** (Linnaeus) 26 April - 28 August O
Up to 15 attracted to light on the Estate and at HQ annually up to 2024.
- 69.003 (1981) **Poplar Hawk-moth *Laothoe populi*** (Linnaeus) 21 April - 09 September F
Regularly attracted to the MV light with up to 20 annually in recent years up to 2015. Larvae found on the Poplars of St Georges and in gardens on the seafront in June/July. From 2016 to 2024 70-100 individuals were recorded at light annually at HQ or on the Estate.
- 69.004 (1972) **Convolvulus Hawk-moth *Agrius convolvuli*** (Linnaeus) 06 July - 14 October O
A noted migrant. Over 20 were collected from amongst myriads of moths attracted to the searchlight battery at the Bay in 1942 and several were taken in September 1946. Since then, records have been sporadic until 2006. Records include one at HQ light in 2006, two in 2008, one on 19 September 2009, four singles in 2010 and 2011, two singles in 2012, one-two on five dates in 2014, three singles in 2015, seven singles in 2016, one in 2017 and five in 2018. 12 individuals were recorded over ten dates between 28 July and 13 October 2019, six over five dates in 2020 and singles on five dates in 2021. Individual adults were noted on the Green Wall on 14 August and 17 September 2022 and in 2023 between 30 June and 11 October 30 were recorded to light or observed in the field over 22 dates at HQ, on the Estate, Worth or at Sandown Road. Mainly singles were observed in the field or recorded to light at HQ or in the Whitehouse or Haven over ten nights between 15 August and 05 October 2024 including three at HQ on 10 September. Larvae were found on New Downs on 10 August 1995, in a maize field around 23 August 2000 and on Worth on 03 August 2023 (LSm/SZW).

- 69.005 (1973) **Death's-head Hawk-moth** *Acherontia atropos* (Linnaeus) R
A scarce migrant from S Europe, Africa and the Middle East, a number were collected at light in 1942 and several were reported in the area in October 1959. Pupae were discovered in a potato field at Sandown Farm in 1945/46 from which adult moths emerged the following year. Otherwise, the only records were one found on Guilford Road, apparently having been struck by a car, on 10 October 1982 (IDH et al), two reported on the Estate in September 2003, a dead individual found in a house on Sandown Road on 04 October 2017 (TO/CM confirmed IDH) and a single to HQ light on 12 August 2018 (IDH). On 07 October 2020 an adult was recovered from a bee hive near the Green Wall. On 03 October 2022 an adult was attracted to the HQ light.
- 69.006 (1976) **Privet Hawk-moth** *Sphinx ligustri* (Linnaeus) 16 May – 02 September F
Recorded in a Worth hedgerow in 1969 (two) and found annually in small numbers at HQ light and on the Estate from 1997 to 2024. Larvae have been recorded on the privet at the Tollgate on 18 September 1970, near HQ on 25 September 1998, 04 September 2016 and 07 September 2023.
- 69.007 (1978) **Pine Hawk-moth** *Sphinx pinastri* (Linnaeus) 17 April - 19 August O
Recorded in a light trap in the reedbed near the Observatory on 25 July 2008. Small numbers recorded annually to light at HQ and on the Estate from 2009-2015. None were recorded in 2016. There were two singles in 2017. Then up to 20 annually between 2018 and 2024.
- 69.008 (1982) **Narrow-bordered Bee Hawk-moth** *Hemaris tityus* (Linnaeus) x
Recorded here in 1908 (Emmett, 1977).
- 69.010 (1984) **Hummingbird Hawk-moth** *Macroglossum stellatarum* (Linnaeus) 12 March - 10 November F
An erratically common immigrant species recorded around the Estate during the day. Large immigrations were recorded in 1974, 1984, 1986 and 2006. Early records in March and early April suggest that some may overwinter. A female was seen ovipositing on Lady's Bedstraw on 11 August 2014. A freshly-emerged adult was found in the Whitehouse on 07 September 2015. Six individuals were recorded from 24 June to 13 September in 2016. 79 were recorded in 2017 from 20 April to 01 November. 38 individuals were recorded in the field between 13 June and 27 September 2018 plus one to HQ light on 18 August. 24 individuals were observed around the Estate over 15 dates from 09 June to 24 September 2019 and 24 over 16 dates between 08 June and 21 August 2020 including a mating pair on 26 July at New Downs. In 2021 the only record was of two on the Beach on 20 June (RD/SZW). Up to four individuals were recorded at HQ, on the Estate, Beach or at Sandown Road over 56 days from 14 June to 15 September (85 in total) plus a single to MV light at HQ on 12 August 2022. On 33 dates between 17 June and 15 October 2023 one to three were recorded – mainly as field observations - across the Recording Area and a similar pattern in 2024.
- 69.013 (1986) **Spurge Hawk-moth** *Hyles euphorbiae* (Linnaeus) R
Singles were recorded on Sandwich Bay Estate on 27 July 1971, at HQ light on 30 June 2010 (JGCB), on 29 June 2012, 05 and 07 July 2014 and to light in the Whitehouse on 03 August 2018 (FS). Remarkably, 72 larvae were discovered along the beach north of Prince's old clubhouse on 28 July that year (IPH). Larval records of this species are exceedingly rare in the UK, with only nine records of up to three in the twentieth century (*Atropos* vol 41:58-59). Two larvae were recorded on Sea Spurge at Princes Beach on 21 July 2020 (FS).
- 69.014 (1987) **Bedstraw Hawk-moth** *Hyles gallii* (Rottemberg) **VU Nat R** 02 July - 21 August R
A migrant from S and E Europe, recorded in 1971, 1972 (three), 1976, 1989, 1995 (17 July), 1998 (21 August), 2000 and 2014 and to light at HQ on 03 August 2024 (GJL/IDH).
- 69.015 (1990) **Striped Hawk-moth** *Hyles livornica* (Esper) R
A migrant, singles were recorded at HQ light on 09 and 11 June 2004. 2022 saw a major migration event along the south coast of England with the light at HQ attracting individuals on 18 and 19 May, 08 and 17 June and 01 August
- 69.016 (1991) **Elephant Hawk-moth** *Deilephila elpenor* (Linnaeus) 14 May - 23 August F
Annual at light up to 2024, e.g., 47 individuals were recorded between 09 June and 05 August 2016 and in 2017 46 were recorded between 25 May and 01 August.
- 69.017 (1992) **Small Elephant Hawk-moth** *Deilephila porcellus* (Linnaeus) 22 April - 20 August C
Regular at light up to 2024, with up to 14 in June 2009 and, exceptionally, in 2010, 329 individuals were attracted to HQ light. Up to 29 were recorded in June 2015 and 32 in 2016. In 2017 190 were recorded with a maximum of 26 on 08 June.

GEOMETRIDAE

- 70.003 (1696) **Bright Wave** *Idaea ochrata* (Scopoli) **NT Nat R** 24 May - 07 August C
 This is one of the Bay's specialities, currently restricted in the UK to the coast between Pegwell and Kingsdown. It can be common in June or July over the sand dunes and golf courses, e.g., 60 along Prince's beach on 21 June 2009, 72 on 21 June 2010, 95 on 29 June and 01 July 2011 and 537 on 17 June 2017. Recorded at light in most years up to 2024, e.g., in 2016 23 individuals were recorded over seven dates in July with a maximum of six on 15 July and in 2017 37 individuals were recorded over seven dates from 13 to 22 June with maxima of 5 on 17 June and 20 on the beach on 21 June (CM) but only five in 2018. In 2019 110 individuals attracted to light over 28 nights between 25 May and 14 July with maxima of 14 on 02 and 06 July plus 226 individuals observed across the Estate over 11 dates from 15 June to 08 July with a maximum of 50 on 18 June. In 2020 365 individuals attracted to light over 25 nights between 13 June and 07 August with a maximum of 200 on 25 June plus 214 individuals observed across the Estate over seven dates from 07 June to 12 July with a maximum of 90 on 24 June. In 2021 69 individuals were recorded to light or in the field over 14 dates between 20 June and 24 July with a maximum of 30 to light on the Beach on 24 June. Between 17 June and 24 July 2022 up to four were attracted to light at HQ, Haven or Sandown Road over eight nights (19 in total) and observed on the Beach on 27 June (four), 30 June (ten) and 04 July (one) . Between 24 May and 21 July 2023 121 individuals were recorded to light or observed in the field across the Recording Area with an observed maximum of 41 on 28 June on Royal St. George's Golf Course and the maximum to light of 14 at HQ on 08 July. Between 28 June and 22 July 2024 individuals were attracted to light or observed in the field over 15 dates with a maximum of 37 seen at the Point on 11 July (GJL).
- 70.004 (1699) **Least Carpet** *Idaea rusticata* (Denis & Schiffermüller) 10 June – 08 October F
 Recorded at light on the Estate and at HQ in most years from 1977 to 2024, e.g., up to a total of seven, exceptionally up to 16 in August 2013, 13 in July 2014 and 18 in June/July 2017. In 2022 60 were recorded to light at HQ, on the Estate or at Sandown Road over 31 nights between 25 June and 07 August with a maximum of six on 04 August in Middle Field.
- 70.006 (1705) **Dwarf Cream Wave** *Idaea fuscovenosa* (Goeze) 24 May - 23 August F
 Small numbers (up to eight in July 2009 and 19 in July 2010) recorded most years at HQ light up to 2024, e.g., 46 recorded to light on the Estate or at HQ on 27 dates between 24 May and 02 August with a maximum of five on 12 July 2019.
- 70.008 (1707) **Small Dusty Wave** *Idaea seriata* (Schrank) 16 May - 23 October O/F
 Double brooded. Increasingly regular from 1982 to 2024. Usually small numbers, but sometimes numerous, e.g., 24 in 1995 and 2005, 15-16 in 2009 and 2010 and 28 in 2013. In 2020 13 individuals were recorded over ten dates to light or in the field at HQ, on the Estate and at Sandown Road (IDH/SZW et al).
- 70.009 (1709) **Satin Wave** *Idaea subsericeata* (Haworth) 15 May - 18 September O
 Double brooded. Small numbers at light in most years from 1980 to 2024. Sometimes more common e.g., in 2018 19 recorded at light on the Estate or at HQ over 16 dates between 19 June and 28 August.
- 70.011 (1708) **Single-dotted Wave** *Idaea dimidiata* (Hufnagel) 25 May - 20 September F
 Recorded in 1976 and annually from 1982 to 2024. Annual totals include up to 15 in August 2012, 14 in July 2013, 12 in 2015, 50 in 2016 with a maximum of 8 on 15 July and 53 in 2017 with a maximum of seven in the Big Gully on 19 July. 145 individuals were recorded to light at HQ, Estate, Beach or Sandown Road over 50 nights between 27 May and 24 August 2022 with maxima of 11 (12 July Haven) and 16 (25 July Middle Field).
- 70.012 (1711) **Treble Brown Spot** *Idaea trigeminata* (Haworth) 02 June - 26 July O
 Regular in small numbers at light at HQ light, Estate or Sandown Road from 1989 to 2024, e.g., 22 individuals recorded over 13 dates between 08 June and 13 July 2022.
- 70.013 (1702) **Small Fan-footed Wave** *Idaea biselata* (Hufnagel) 07 June - 13 September O
 Recorded in Slazengers in 1967 then almost annually on the Estate and at HQ light in small numbers between 1985 and 2024.
- 70.015 (1712) **Small Scallop** *Idaea emarginata* (Linnaeus) 25 June - 07 August O
 One in the Whitehouse on 25 June 2009 and singles at HQ light on 04 and 07 August 2012, 29 July 2013, on three dates from 11 July to 02 August 2014, on 24 July and 01 August 2019 (IDH), on 23 July and 01 August 2020, 24 July and 12 August 2021. Recorded to light at HQ or the Haven on 12, 13, 24 and 28 July 2022 and at HQ on 30 July and 01 August 2024.
- 70.016 (1713) **Riband Wave** *Idaea aversata* (Linnaeus) 25 May - 17 September F
 Not uncommon on the Estate and at light up to 2024 e.g., peak counts of 24 in July 2009, 49 in July 2010, 20 in August 2012, 46 in July 2013, 24 in July 2014, 14 in July 2016 and 12 in July 2017. An individual of the form *remutata* was recorded to light at Sandown Road on 14 June 2020 (IDH).

- 70.017 (1714) **Portland Ribbon Wave** *Idaea degeneraria* (Hübner) **Nat R** R
Singles recorded to light at Sandown Road on 17 June 2022 (SH/IDH), at HQ on 31 August (IDH) and in The Elms on 07 September 2023 (CWi) and at HQ on 07 September 2024 (MG&LN/IDH).
- 70.020 (1684) **Sub-angled Wave** *Scopula nigropunctata* (Hufnagel) **EN Nat R** R
A rare species that breeds in Kent and occurs as a migrant, singles were recorded on 12 June 2006 at Sandown Road (SH/IDH), at HQ light on 26 July 2013 (JGCB) and 09 July 2023 (SH/IDH).
- 70.022 (1688) **Tawny Wave** *Scopula rubiginata* (Hufnagel) **Nat S** R
The British population is resident on breckland areas of Norfolk and Suffolk, so singles at light on 09 August 1969 (JMC-H), 15 August 1980 (TH) and 23 August 1984 were presumably migrants.
- 70.023 (1689) **Mullein Wave** *Calothysanis marginepunctata* (Goeze) 16 May - 22 September O
Numerous records were cited by Chalmers-Hunt to 1962. Recorded almost annually since up to 2015 in small numbers. No records in 2016, two individuals recorded in 2017, singles on 03 August 2018 and 24 May 2019 (IDH). Six singles were recorded to light at HQ or at Restharrow Dunes between 23 July and 22 September 2020. None were recorded in 2021. Recorded to light at HQ, Estate or beach on 16 May, 18 July, 04 and 07 August and 08 September 2022 and singles to light at HQ on 17, 18 and 19 (SH/IDH) and in Middle field on 20 August 2023 (KB) and at HQ on 09 August 2024 (IDH).
- 70.024 (1690) **Small Blood-vein** *Calothysanis imitaria* (Hübner) 09 June - 11 September O
Small numbers at HQ light in 13 years from 1976 to 2015 and annually from 2017 -2024, e.g., four individuals recorded on three dates in July 2017 and singles to Whitehouse and HQ light on two dates in July 2018. Over 11 nights between 17 June and 11 September 2022 mainly singles were recorded at HQ or on the Estate with maxima of three on 12 (HQ) and 24 July (Haven).
- 70.025 (1692) **Lesser Cream Wave** *Calothysanis immutata* (Linnaeus) 23 May - 24 August O
Infrequent on coastal marshes but listed by Chalmers-Hunt who suggested it had been adversely affected by sea floods in 1953. Recorded on the Reserve in Princes buffer zone on 25 June 1985, at HQ trap on 29 July 1985, in the Whitehouse on 25 June 2009 and in small numbers at HQ light in 2010, 2013, 2014, 2015, 2017 (five), 2018 (one), 2020 (two) and 2021 (five). Four were recorded to light in The Elms on 03 July 2022. Singles were recorded to light in Middle Field on 23 (KB), at HQ on 24 August 2023 (SZW) and in The Elms on 22 July 2024 (SB).
- 70.027 (1693) **Cream Wave** *Scopula floslactata* (Haw.) R
An adult seen on rough pasture on 03 May 1969 (TMR), on Whitehouse bushes on 25, 28 and 29 May 1985 (DMB, MP) several between 01 June and 28 June 1986 (NO et al), singles on 26 and 29 June 2002, 19 June 2005 and two on 26 June 2009 (JGCB).
- 70.028 (1691) **Rosy Wave** *Calothysanis emutaria* (Hübner) **Nat S** 02 June - 27 August O
A generally uncommon species of boggy coastal areas. There were 16 records of one or two in 13 years from 1970 to 2010, then in small numbers in 2013, 2014, 2015 and singles in 2016 and 2017. None were recorded in 2018. Singles recorded at HQ light on 23 and 28 June and 27 August 2019, on six dates between 02 June and 14 August 2020 (IDH et al) and on 02 and 08 July 2021. Recorded to light on Princes Beach on 15 June 2022 (WS), at HQ on 08 July and Restharrow Dunes on 12 and HQ on 18 August 2023 and at HQ on 17 and 25 June 2024 (IDH).
- 70.029 (1682) **Blood-vein** *Timandra comae* (Schmidt) 04 May - 16 October F
Regularly disturbed by day from clumps of Elms and Willows around the Estate. Recorded annually in small numbers up to 2014 (nine), then in higher numbers from 2015 to 2024 e.g., 29 individuals in 2016 and 55 in 2017 mainly at HQ light.
- 70.031 (1676) **Mocha** *Cyclophora annularia* (Fabricius) R
Recorded to light at HQ on 18 August 2019 (JM/IDH) and two recorded to light in The Elms on 26 August 2024 (KB).
- 70.033 (1678) **Blair's Mocha** *Cyclophora puppillaria* (Hübner) R
Recorded at HQ light on 15 October 2018 (SH/IDH).
- 70.036 (1680) **Maiden's Blush** *Codonia punctaria* (Linnaeus) 21 April - 22 September O
Recorded in the Cellars in 1993 and at HQ light in 2000, 2004, 2005, 2008, 2010, 2011, 2012, 2013 (six), 2014, recorded in single figures from 2016 to 2024.
- 70.037 (1681) **Clay Triple-lines** *Codonia linearia* (Hübner) 16 May - 08 September O
Recorded at HQ light on 29-30 June 2004 and singles in 2008, 2010, 2011, 2013, 2014 (two), 2015 (two), plus small numbers to light at HQ or on the Estate from 2017 to 2023.

- 70.038 (1716) **Vestal Rhodometra sacraria** (Linnaeus) 28 June - 15 November O
A migrant species of which there were 33 records in eleven years from 1983 – 2012 (including seven singles in 2010 and one-two on four dates in 2012). Totals of 40 were recorded in 2013, including nine on 04 October, 65 in 2015, including 18 on 30 August, seven in 2016, 27 in 2017, 10 in 2018, nine in 2019, five in 2020, a single in 2021 and 57 were recorded to light at HQ, Estate or Sandown Road over 20 dates between 12 July and 10 November 2022 with a maximum of ten in Middle Field on 04 August. 30 individuals were recorded to light at HQ over 13 nights between 09 July and 27 October 2023. Recorded to light at HQ on 14 August and 07 September 2024.
- 70.039 (1718) **Oblique Striped Phibalapteryx virgata** (Hufnagel) **Nat S** 02 April - 16 September C
A local species normally plentiful on the coastal dunes and the golf courses, e.g., 17 on 10 July 2010 and up to 32 in June and 50 in July 2011. Small numbers attracted to light annually from 1986 to 2024, e.g., in 2016 a total of 20 individuals were recorded with a maximum of six on 05 August and in 2017 47 were recorded with a maximum of five on 17 June. On 15 June 2018 200 were observed in the Recording Area (LC/DS). Five larvae were recorded on St Georges on 23 September 1993.
- 70.041 (1734) **July Belle Scotopteryx luridata** (Hufnagel) R
One was found on the track near the sailing club on 16 August 2012 (AML, IPH {photo}/FS).
- 70.043 (1731) **Chalk Carpet Scotopteryx bipunctaria** (Denis & Schiffermüller) R
A chalkland species (and possible migrant) with one recorded on 18 September 1954 (JMC-H) and one in 2002.
- 70.045 (1732) **Shaded Broad-bar Scotopteryx chenopodiata** (Linnaeus) 25 May - 16 October F
Small to moderate numbers at light almost annually from 1992 to 2024 (exceptionally, up to 28 in July 2010 and up to 47 in August 2013). In 2016 there were field records of 12 on 09, two on 10 and 14 on 16 August. In 2017 there was a maximum count of 20 in the Hundred Acre field on 01 August and 69 records to light mostly on the Estate (13 at HQ light).
- 70.046 (1719) **Oblique Carpet Orthonoma vittata** (Borkhausen) R
Singles at light on Royal St. George's Golf Course in 1961 (JMC-H) and HQ on 07 August 2002, with two on 03 July 2003 (MP), one on 10 August 2009 (JGCB) and one on 29 May 2011 (IPH).
- 70.047 (1720) **Gem Nycterosa obstipata** (Fabricius) 08 May - 02 December O
A migrant species recorded in 1936 (two), 1961, 1967, 1969 and 1969 (JMC-H), 1987, 1993, 1994 (nine), 1995, 1997, 1998, 2006, 2008, 2009, 2010 (11) and 2011. Particularly numerous in 2012 when 20 recorded between 20 October and 12 November, including 10 on 23 October, and also in 2013 when 16 were recorded, followed by seven in 2014 and three in 2015. In 2016 there was an exceptionally early record of a single on 08 May followed by six singles between 24 August and 04 November. In 2017 there were just two individuals on 16 May and 16 July. Singles were recorded to HQ light on 15 and 16 October and 14 November 2018, on 24 July and 17 August 2019 and on 08 November 2020 (RJD/SZW). In 2021 15 individuals were recorded to HQ light over eight dates between 11 July and 15 November while in 2022 singles were recorded on 20 May, 03 July and a male on 28 October. Singles were recorded to light at HQ on 17 and 18 August, 04 and 15 September and 07, 20 and 27 October 2023. 23 individuals were recorded to light mainly at HQ over 12 nights between 25 September and 12 November 2024 with a maximum of five on 06 November at HQ and a single in The Elms on 04 October.
- 70.049 (1728) **Garden Carpet Xanthorhoe fluctuata** (Linnaeus) 22 April - 18 October O
Small numbers attracted to light annually between 1986 and 2024, e.g. in 2017 eight individuals were recorded over seven days and in 2018 two singles were recorded on the Estate and a single at HQ light.
- 70.051 (1724) **Red Twin-spot Carpet Xanthorhoe spadicearia** (Denis & Schiffermüller) 09 March - 4 September F
Fairly common at HQ and The Elms up to 2012; small numbers (up to seven) regularly attracted to light, but more numerous from 2013 to 2024, e.g., in 2019 mainly singles were recorded over 15 dates and in 2020 36 were recorded over 21 dates.
- 70.052 (1725) **Dark-barred Twin-spot Carpet Xanthorhoe ferrugata** (Clerck) **NT** 21 April - 21 September O
Formerly quite common, with small numbers regularly attracted to light, but not recorded between 2002 and 2010. In 2011 there was a single record to light on 21 April, two on 09 August 2013, singles on 09 May 2014 and 07 August 2015 and singles on 09 May, 15 July and 05 and 24 August 2016. None were recorded in 2017. There was a single to light in the Whitehouse on 03 August 2018. Two were recorded to light on the Estate Beach on 27 July (DG), a single at HQ on 21 September 2019 (SH/IDH), two to light in the Oasis on 10 August 2020 (CW) and a single on 25 June 2021. None were recorded in 2022.
- 70.053 (1722) **Flame Carpet Xanthorhoe designata** (Hufnagel) R
One at light at Sandown Road on 12 June 2006 (SH/IDH), at HQ on 10 July 2015 (DG) and on 05 August 2016 (IDH).

- 70.054 (1727) **Silver-ground Carpet** *Xanthorhoe montanata* (Denis & Schiffermüller) 05 May - 02 July O
Recorded at light between 05 - 07 June 1980 (three), in The Elms between 24 and 31 May 1987 (up to seven) then almost annually at light in small numbers to 2015. None were recorded in 2016. In 2017 singles were recorded on five dates between 15 May and 03 June and in 2018 similar numbers were recorded on the Estate and at HQ light. Singles were recorded to light in The Elms on 22 May (SZW) and at HQ on 02 June 2019 (IDH). None were recorded in 2020. Singles were recorded to light at HQ on 02 and 14 June 2021 and in The Elms on 01 June 2022 (KB).
- 70.055 (1726) **Large Twin-spot Carpet** *Xanthorhoe quadrifasiata* (Clerck) R
Two were trapped in The Elms on 13 July 1995, singles at HQ light on 26 June 2016 (IDH), on 10 July 2017, on 26 July 2018. In 2022 singles were attracted to light in The Elms on 03 July (KB) and at HQ on 12 July (IDH).
- 70.057 (1735) **Ruddy Carpet** *Catarhoe rubidata* (Denis & Schiffermüller) 06 June - 11 August O
Singles recorded on 09 July 1992 (HQ building), 20 July 1994 (The Elms), at MV light on 29 - 30 July 1995 and 06 June and 11 August 2004, then small numbers at light from 2009 – 2016. None were recorded in 2017. A single was recorded at HQ light on 20 June 2018. After none in 2019 two singles were recorded to light on 25 June 2020; one at HQ (IDH) and one in the Oasis (AM/DS), a single was recorded to HQ light on 02 July 2021, two on 17 and a single on 28 June 2022 and on 09 July 2024.
- 70.059 (1742) **Yellow Shell** *Camptogramma bilineata* (Linnaeus) 09 May – 02 October C
Recorded throughout the area up to 2024, e.g., in 2017 there were a total of 111 recorded over 26 days (mainly field observations). In 2018 between 29 May and 27 August there were field observations of 27 individuals and 35 to light around the Estate and seven to HQ light.
- 70.061 (1738) **Common Carpet** *Epirrhoe alternata* (Müller) 12 April - 27 September F
Frequently found during the day resting in vegetation around the Estate. Small to moderate numbers fairly regularly at light to 2024, e.g., up to 22 in August 2009, 19 in August 2012 and 26 in August 2016 and in 2017 58 individuals were recorded over 35 dates between 20 April and 07 September with a maximum of eight on 29 May.
- 70.062 (1739) **Wood Carpet** *Epirrhoe rivata* (Hübner) 26 May - 11 August R
Recorded on the Estate on 26 May 1993, at HQ light on 03 July 2009 then one-two on nine dates in 2010, one-two on three dates in 2011, singles on three dates in 2012, one on 14 July 2013 and singles on 21 and 25 June 2014. A single in the Whitehouse on 12 July 2019 (FS), one to light at HQ on 18 June 2020 (RJD/IDH) and on 28 June 2022.
- 70.063 (1740) **Galium Carpet** *Epirrhoe galiata* (Denis & Schiffermüller) R
Formerly regarded as fairly common over the rough grassland of the coastal sandhills, although the only records at light were on 06 July 1980 and 07 July 1985, singles in the Whitehouse on 02 August 2014 (FS), 17 July 2020 (MB) and 14 September 2021 (KB).
- 70.064 (1793) **Cloaked Carpet** *Euphyia biangulata* (Haworth) R
A local hedgerow species recorded at light on 06 June 1982 and 25 June 1983 (IDH).
- 70.066 (1746) **Shoulder Stripe** *Earophila badiata* (Denis & Schiffermüller) 17 March - 15 May O
Singles at MV light on 12 May 1983, 28 April 1987 (four in Slazenger's), 15 May 1989, 06 April 1995, 16/17 April 2004 and annual in small numbers from 2010 – 2013. In 2017 six individuals were recorded at light over five dates from 26 March to 27 April including on the Estate and at HQ. In 2018 singles were recorded to light on 06 and 19 April in The Elms. Singles recorded to light at HQ on 26 March and in The Elms on 30 March 2019 (SZW). None were recorded in 2020 and 2021. Singles were recorded to light on 17 March 2022 and in the Elms on 19 March (CMi) and at HQ on 05 May 2024 (IDH).
- 70.067 (1747) **Streamer** *Anticlea derivata* (Denis & Schiffermüller) 09 March - 07 May R
One near the outside light at HQ on 03 May 2005, two at HQ light on 28 April 2010 and singles on 07 May 2012, 18 April 2014 and 09 April 2015. Two singles were recorded on 09 and 20 April 2017 to actinic light in The Elms and Whitehouse (SZW), singles to light in The Elms on 19 April 2018 and 22 April 2019, at Sandown Road on 05, 09 and 10 April 2020 and in The Elms on 09 March 2022, 16 April 2023 and 14 April 2024.
- 70.069 (1749) **Dark Spinach** *Pelurga comitata* (Linnaeus) VU 05 July - 06 September O
Small numbers at HQ light, but less than annually. None recorded in 2016 or 2017. In 2018 four were recorded to light in the Whitehouse on 03 August and eight were recorded at HQ light over six dates in late July and August. Singles recorded to HQ light on 22 July and 05 and 17 August 2019 (IDH). 17 individuals were attracted to light at HQ and on the Estate over 15 dates between 30 July and 22 August 2020, eight individuals were recorded at HQ light in 2021, singles on 23 and 31 July 2022 and on seven nights between 31 July and 02 September 2023 at HQ or in Middle Field or The Elms. Mainly singles were recorded to light at HQ over six nights between 19 July and 02 September 2024.

- 70.070 (1745) **Mallow** *Larentia clavaria* (Haworth) 02 August - 12 November F
Recorded frequently from 1982 to 2024, e.g., totals of 17 in October 2010, 12 in October 2013, 27 in October 2016 and 46 in October 2017 with a maximum of seven on 17 October. Three larvae were discovered on Princes Beach on 03 May 2024 by UV torchlight (RL/PS/BH).
- 70.074 (1777) **July Highflyer** *Hydriomena furcata* (Thunberg) 02 June - 08 August O
Common and regular at HQ light and in the Whitehouse in small numbers up to 2024, e.g., totals of nine in July 2009 and July 2015, 13 in July 2016 and 18 in June and four in July 2017.
- 70.075 (1778) **May Highflyer** *Hydriomena impluviata* (Denis & Schiffermüller) 11 May - 10 July O
Recorded at MV light in 1995 and regular in small numbers (less than 10) from 2001 to 2024. Exceptionally, in 2017 21 individuals were recorded with a maximum of 12 in the Whitehouse on 16 June (FS).
- 70.077 (1767) **Pine Carpet** *Pennithera firmata* (Hübner) 19 May - 17 November F
Recorded at light on 08 August 1975 (two), 10 August 1975 and on five dates at HQ and The Elms in 2009, then small numbers in 2010, and from 2012 to 2024. Exceptionally, up to 12 in June 2014 and in 2017 23 individuals were recorded over 15 dates with a maximum of five on 22 September in The Elms.
- 70.079 (1769) **Spruce Carpet** *Thera britannica* (Turner) 10 April - 13 November O
Double brooded. Recorded on 10 and 24/25 October 1994, in Green Barn Pines on 24 June 1995. Annual in small numbers between 2009-2015 and 2018-2020, including up to eight in June 2010, five in September 2013 and a single record on 17 May 2020 in The Elms (SZW). None were recorded in 2021. A single was recorded to HQ light on 12 October 2022. Singles were recorded to light in The Elms on 16 April, at HQ on 09 and in Middle Field on 12 June and at HQ on 10 October 2023 and at HQ on 19 May and in The Elms on 23 October 2024.
- 70.081 (1768) **Grey Pine Carpet** *Thera obeliscata* (Hübner) 12 April - 05 November O
Recorded in small numbers in 16 years from 1984-2015 and from 2017-2024, mostly at HQ light (exceptionally, up to ten in September 2013).
- 70.083 (1771a) **Cypress Carpet** *Thera cupressata* (Geyer) 14 May - 16 November O
A colonist, first recorded in Sussex in 1984 that appears to be increasing. Double brooded. Singles at HQ light on 08 June 2010, 18 October 2012 and 31 July 2013, then exceptional numbers in 2014, including one-two on eight dates between 22 May and 21 June and on 16 October, followed by up to five in October 2015. Recorded from both broods in 2016-2024, e.g., in 2016 there were a total of 15 individuals recorded comprising first generation singles on six dates in June and one to two second generation individuals recorded on six dates in October.
- 70.084 (1766) **Blue-bordered Carpet** *Plemyria rubiginata* (Denis & Schiffermüller) 26 June - 19 July R
An Alder/Birch species. Singles at MV light on 19 July 1983, 05 July 2009, 04 July 2010, 26 June 2011 and 30 June and 13 July 2013. Recorded to light in the Oasis on 04 July 2024 (CV/KM)
- 70.085 (1765) **Barred Yellow** *Cidaria fulvata* (Forster) 26 May - 24 August O
Recorded in Slazengers in 1976, on a sea-front fence in 1982 then one-two almost annually to 2009 then up to four in July 2010, five in July 2013 and June 2014, then five to six annually on the Estate and to the HQ light from 2016 to 2019. Singles recorded to light at HQ on 30 June 2020 and on 16 and in The Elms area on 21 June 2021, to light at HQ on 17 and 27 June and 06 July 2022, on 22 June and 08 July 2023 and in Middle Field on 20 and at HQ on 25 June and 03 July 2024.
- 70.087 (1752) **Purple Bar** *Cosmorhoe ocellata* (Linnaeus) 24 April - 13 September O/F
Double brooded. Common and regular at light in small numbers (up to seven) in most years to 2016. In 2017 and 2018 the annual numbers were in the 20-25 range. Nine individuals were recorded over eight dates from 22 May to 25 August 2019. 14 individuals were recorded over nine dates between 19 June and 07 September 2020, 23 over 15 dates to light at HQ and on the Estate in 2021 and similar numbers in 2022 to 2024.
- 70.089 (1754) **Phoenix** *Eulithis prunata* (Linnaeus) O
Formerly locally common with several records from Worth in the 1960s (JMC-H). Less regular from the 1970's to 2010's - singles at MV light on 10 August 1981, 12 July 1994, 24 July 1995 (The Elms), 21 July 2009 and 29 July and 1 August 2013. None were recorded from 2014 to 2020. Singles were recorded to HQ light on 20 July and 10 August 2021. None from 2022 to 2024
- 70.090 (1755) **Chevron** *Eulithis testata* (Linnaeus) 1 July - 21 September O
Up to three attracted to the HQ MV light in seven years from 1975 to 2002 and 21 recorded in the Whitehouse on 29 July 1995. Small numbers in 2010, 2011, 2013, 2015 and 2016 (one). Then none until a single was recorded to light in The Elms area on 22 August 2021 (KB). None recorded from 2022 to 2024.

70.092 (1757)	Spinach <i>Eulithis mellinata</i> (Fabricius)	VU	R
	Formerly fairly regular with one-three at light most years to 1981, but only in 1986 and 2002 since.		
70.093 (1758)	Barred Straw <i>Gandaritis pyraliata</i> (Denis & Schiffermüller)	03 June – 10 October	F
	Recorded annually up to 2024, e.g., in 2017 a total of 42 were recorded with a maximum of six on 21 June.		
70.094 (1759)	Small Phoenix <i>Ecliptopera silaceata</i> (Denis & Schiffermüller)	27 April - 09 August	R
	Singles at light in The Elms or at HQ on 22 July 1989, 27 July 2011 (JGCB), 27 April and 09 August 2014, 15 July 2016 (IDH), 27 May 2018, at Sandown Road on 20 May 2020 and several on Princes Beach on 18 July 2022 (JC).		
70.095 (1760)	Red-green Carpet <i>Chloroclysta siterata</i> (Hufnagel)	02 April - 01 June, 11 September - 21 November	O
	Recorded at HQ light on 27 September 1994 and annual at light in small numbers from 2009 to 2024. In 2017-2021 only recorded in the later flight period except a single on 02 April 2020 at Sandown Road.		
70.097 (1764)	Common Marbled Carpet <i>Dysstroma truncata</i> (Hufnagel)	11 May - 18 July, 16 August - 27 October	F
	Recorded annually from 1981 to 2024, e.g., in 2017 there were singles recorded at light on five dates in May and June plus one field observation on 27 May and six dates in September and October.		
70.100 (1776)	Green Carpet <i>Colostygia pectinataria</i> (Knoch)	26 April - 19 September	F
	Double brooded. Recorded annually in small numbers up to 2024, e.g. in 2017 there were 14 individuals recorded over eight dates in May, one in August and one in September at the HQ light, plus 23 individuals attracted to light in various areas of the Estate on ten dates between 11 May and 15 June and another six on four dates between 21 to 25 August. In 2018 there was a notable maximum of 25 to light in The Elms on 27 May.		
70.106 (1799)	Winter Moth <i>Operophtera brumata</i> (Linnaeus)	14 November - 02 May	O
	Recorded in small numbers (up to four) in many years from 1982 to 2024, mostly in December and often at lighted windows. A larva was recorded in the Gullies on 02 May 2022 (DS) and several on Guilford Road on 03 and 04 May 2024 (RL/PS/BH).		
A complex including November Moth <i>Epirrita dilutata</i> , Pale November Moth <i>E chrystyi</i> and Autumnal Moth <i>E autumnata</i> are indistinguishable except by gen det. Unconfirmed individuals recorded regularly at light from 1977 to 2024. Larvae recorded on Guilford Road on 03 May and in The Elms on 04 May 2024 (RL/PS/BH).			
70.107 (1795)	November Moth <i>Epirrita dilutata</i> (Denis & Schiffermüller)	23 October – 01 November	R
	An individual recorded as gen det in early November 1987 (CP), on 24 October 2018 (IDH gen det) and males to light at HQ on 23 (gen det IDH), 24 (IDH, gen det DS) and 28 October and 01 November 2021 (both gen det IDH) and on 31 October 2024 (IDH gen det).		
70.109 (1797)	Autumnal Moth <i>Epirrita autumnata</i> (Borkhausen)		R
	Singles trapped at HQ light on 25 October 2014 (M gen det IDH) and 19 October 2019 (M gen det IDH).		
70.111 (1875)	Small White Wave <i>Asthena albulata</i> (Hufnagel)		R
	Recorded at HQ light on 14 July 1991, 16 July 1991 and 03 June 2004 (P&PH) and at Sandown Road on 15 August 2014 (IDH).		
70.112 (1874)	Dingy Shell <i>Euchoeca nebulata</i> (Scopoli)	09 May - 22 August	O
	One at light on 07 July 1993, one outside the Observatory in early evening on 12 May 1994 and in small numbers annually at HQ light and in the Whitehouse between 2009 and 2024.		
70.113 (1877)	Waved Carpet <i>Hydrelia sylvata</i> (Denis & Schiffermüller)		R
	One at HQ light on 10 July 2010 (PDH, JGCB) and to light in the Haven on 12 July 2022 (FS).		
70.114 (1876)	Small Yellow Wave <i>Hydrelia flammeolaria</i> (Hufnagel)		R
	Recorded at light on 28 June 1954 (JMC-H), 03 July 1994, 13 June 2009, 23 and 24 July 2013 and 14 June and 11 July 2014, at HQ on 18 June and 23 July 2019 (IDH) and in The Elms area on 20 June 2021 (KB).		
70.118 (1791)	Brown Scallop <i>Philereme vetulata</i> (Denis & Schiffermüller)		R
	Mostly found on chalk downs, singles were recorded at HQ light on 10 July 2010 (PDH, JGCB, AP) and 10 July 2015 (DG).		
70.119 (1792)	Dark UMBER <i>Philereme transversata</i> (Hufnagel)		R
	Another species mainly found on chalk downs. Singles recorded at HQ light on 16 July 2014 (JGCB), at the feeders at HQ on 22 July 2019 (JF/IDH), to light on the Estate on 25 June (two) (AM/DS) and 30 July 2020 (KB), at HQ on 25 July 2021 (IDH) and in The Elms on 30 June and at HQ on 17 July 2024.		

- 70.121 (1789) **Scallop Shell** *Hydria undulata* (Linnaeus) 15 June - 24 July R/O
Singles in the Whitehouse on 25 June 2009, at HQ light on 16 July 2013 and at light on 21 June and 11 July 2014, 10 and 15 July 2015, 15 July 2016, 15 June and 04 July 2018, 29 June 2019, to light in the Oasis on 25 June (AM/DS) and at HQ on 02, 03, and 14 July 2020 (IDH et al) and at Sandown Road on 20 July 2021 (SH/IDH). Mainly singles were attracted to light at HQ and on the Estate on eight nights between 22 June and 24 July 2022. Singles attracted to light in The Elms on 30 June and 03 July 2024.
- 70.126 (1781) **Small Waved UMBER** *Horisme vitalbata* (Denis & Schiffermüller) 19 May - 25 August O
Originally reported as annual in small numbers. A single in 2009, one-two on two dates in 2010, two singles in August 2012, three singles in July/August 2013, one in July 2014 and one on 28 August 2015. None were recorded from 2016 to 2018. One was reported from Old Downs Farm on 04 August 2019 (DM) and singles to HQ light on 03 August 2021 (RJD/IDH) and 18 August 2023.
- In 2020 **Cryptic Fern** *Horisme radicularia* (de la Harpe) 70.1271 was confirmed in the UK with retrospectively confirmed records back to 1990.
The following records therefore now need to be treated as Fern agg: recorded in the Haven on 26 July 1995, at HQ light on 26 August 2006 (two) and annually in small numbers (up to four) from 2009 – 2013 and none since until singles to light on the Estate on 11 August 2020 (KB) and in The Elms area on 08 September 2021 (KB).
- 70.127 (1782) **Fern** *Horisme tersata* (Denis & Schiffermüller) R
A male recorded to HQ light on 25 June 2020 (SZW, gen det DS) and singles on 23 August and 09 September 2023 (IDH).
- 70.1271 (1782a) **Cryptic Fern** *Horisme radicularia* (La Harpe) R
Males recorded at HQ light on 09 (IDH, gen det DS) and 12 August 2020 (SZW, gen det DS) and on 07 July 2022 SH/IDH).
- 70.128 (1784) **Pretty Chalk Carpet** *Melanthia procellata* (Denis & Schiffermüller) 14 June - 10 September R
Recorded on the HQ front door on 16 July 1995 and at HQ light on 10 September 2011, 10 August 2012, 24 August 2013, 14 June 2014 and in Middle Field on 23 May 2022 (KB).
- 70.131 (1809) **Twin-spot Carpet** *Mesotype didymata* (Linnaeus) 19 July - September O/R
Recorded at light in July - September 1980, August and September 1981 and on Hundred Acre Field in 1984. Now rare, with records on 19 July 1991, 06/07 August 2000, 29 July 2002, 06 August 2004 and 21 August 2016 and none since.
- 70.132 (1802) **Rivulet** *Perizoma affinitata* (Stephens) R
Recorded at MV light on 30 May 1987 (AJM, AS).
- 70.133 (1803) **Small Rivulet** *Perizoma alchemillata* (Linnaeus) 25 June – 08 August O
Recorded in 1967, at MV light in 1983 (two), at MV light and also in Waldershare Gully in 1995 and in singles at HQ light in 2010, 2011, 2013, 2015 and on 19 and 20 July 2016 and none since until a single to light on Princes Beach on 25 June 2020 (NHM), in The Elms area on 08 August 2021 (KB) and on 12 August 2023 (ASy).
- 70.134 (1804) **Barred Rivulet** *Perizoma bifaciata* (Haworth) 24 June - 24 September O
A larva was taken on Red Bartsia at Sandwich Bay in 24 September 1949 (JMC-H). Recorded at HQ in 1973, 1981, 1993 (the Haven), 1995 (eight at MV light and two in the Whitehouse), 1998, 2002, 2005, 2008 and annually in small numbers on the Estate and at HQ light from 2009 to 2024 including one from the HQ trap on 13 August 2024 (IDH gen det DS).
- 70.137 (1807) **Grass Rivulet** *Perizoma albulata* (Denis & Schiffermüller) 04 May - 31 July C
Formerly common in small numbers but scarcer since about 2000. Resurgent in 2009/10 when up to 30 daily in the Whitehouse/Oasis to 2014. From 2015 to 2024 recorded in greater numbers at HQ, on the Estate or at Sandown Road e.g., 200 in the Whitehouse on 19 June 2015, 80 on 29 May and 100 on 16 June 2017 and 30 on 15 June 2018 and in 2020 four were recorded in the field in the Whitehouse (three) and Elms in May and 11 individuals were recorded to light at HQ, on the Estate and at Sandown Road over ten dates between 12 June and 13 July.
- 70.138 (1808) **Sandy Carpet** *Perizoma flavofasciata* (Thunberg) 08 May - 29 September F
Frequent along the Ancient Highway and Restharrow Dunes Reserve with small numbers regularly attracted to light including at HQ and on the Estate up to 2024 e.g., in 2018 on the Estate and at HQ mostly to light 46 individuals were recorded over 17 dates between 13 May and 30 June with a maximum of 10 in The Elms on 27 May.
- 70.141 (1862) **Double-striped Pug** *Gymnoscelis rufifasciata* (Haworth) 04 March – 09 November F
Small numbers recorded at light in most years to 2024, e.g., in 2016 a total of 18 over 11 dates with a maximum of five on 15 July and in 2017 27 individuals were recorded over 22 dates with a maximum of three on 12 August and similar numbers in 2018. An individual adult was recorded indoors at Sandown Road on 27 December 2022.

- 70.142 (1858) **V-Pug** *Chloroclystis v-ata* (Haworth) 09 March - 05 September O
Widespread in small numbers in many places on the Estate in almost overlapping broods up to 2020, e.g., in 2016 one to four recorded on 11 nights at HQ light between 07 July and 04 August and in 2017 one to two on six dates between 04 April and 07 August and similar numbers in 2018. None were recorded in 2021. In 2022 46 individuals were recorded to light at HQ or on the Estate over 25 nights between 09 March and 27 July and in 2023 19 were recorded over 14 nights between 16 April and 23 August and a similar pattern in 2024.
- 70.143 (1859) **Sloe Pug** *Pasiphila chloerata* (Mabille) R
Recorded at HQ light on 24 May 2018 (SZW, M gen det DS) and 06 (IDH) and 17 (KR) July 2022.
- 70.144 (1860) **Green Pug** *Pasiphila rectangulata* (Linnaeus) 05 May - 27 July O
Recorded sporadically from 1976 – 1995, but more numerous and widespread since 2001 and annual in small numbers from 2009 to 2024, e.g., in 2016 27 were recorded over 12 nights at light in June and July (maximum of seven on 15 July) and two on 06 September. In 2017 seven individuals were recorded over four nights from 29 May to 10 June with similar numbers in 2018. Two larvae were identified on Guilford Road on 03 May 2024 (RL/PS/BH).
- 70.146 (1813) **Haworth's Pug** *Eupithecia haworthiata* (Doubleday) 22 June - 29 July R
Recorded in the Observatory garden on 29 July 1995, in the Whitehouse on 25 June 2009 (FS) and at HQ light on 4 July 2014, 15 July 2016 (IDH), two on 20 July 2018 and singles in the Oasis on 24 and 25 June 2020. In 2022 seven individuals were recorded to light at HQ or on the Estate over five nights between 22 June and 18 July.
- 70.147 (1811) **Slender Pug** *Eupithecia tenuiata* (Hübner) 04 June - 11 August O
Recorded at HQ light in 1989, 1994, 1995 (six) and in small numbers from 2009 to 2024, e.g., in 2016 18 were recorded over nine nights with a maximum of seven on 15 July at light in the Whitehouse and at HQ, in 2017 nine were recorded over six dates with a maximum of three on 16 June and in 2018 a total of five were recorded over two nights in the Whitehouse (FS). In 2022 50 were recorded to light at HQ, Estate or beach over six nights between 06 July and 07 August with maxima in the Haven of 23 on 12 July and 12 on 18 July (both FS).
- 70.148 (1812) **Maple Pug** *Eupithecia inturbata* (Hübner) EN R
One trapped on the golf course on 07 August 2002 (JP), singles to light in The Elms on 09 July (SZW) and in the Oasis on 07 August 2020 (AM/DS) and at HQ on 14 (IDH, F gen det DS) and 17 August 2021 and on 08 July 2022 (SH/IDH). Recorded to light in Middle Field and in The Elms on 19 July 2023 (KB) and at HQ on 17 and 19 and in The Elms on 22 July 2024.
- 70.150 (1816) **Toadflax Pug** *Eupithecia linariata* (Denis & Schiffermüller) NT R
Recorded at HQ MV light on 05 July 2001 (DMB).
- 70.151 (1817) **Foxglove Pug** *Eupithecia pulchellata* (Stephens) 24 May - 14 August R/O
Recorded at Slazengers on 14 August 1977 and to light at Sandown Road on 06 and 09 June 2004, at HQ on 20 July 2009, 24 and 25 June 2010, on 13 and 20 July 2011, 09 August 2012, 20 June 2013, 24 May 2014, 08 June 2016, to light on the Estate on 15 June 2018 (AM et al), at HQ on 13 June 2023 (SZW) and in The Elms on 27 May and at HQ on 03 June 2024.
- 70.152 (1855a) **Channel Islands Pug** *Eupithecia ultimaria* (Boisduval) Nat S 25 June - 25 August R/O
First discovered in Guernsey in 1984 it has since become fairly well established along parts of the south coast of England. One at light on 25 August 2016 (F gen det TD). Annual from 2018 to 2024 e.g. singles on 22 and 30 July and 07 August 2018, at HQ light on 22 and 24 July 2019 (SH/IDH), on 14, 28 and 29 July 2020, on 17 July 2021 and on 17 June (IDH F gen det DS), 04 and 08 (three) July 2022. Recorded to light over five nights at HQ in July and in The Elms on 03 September 2023. 20 larvae were recorded in Slazengers on Tamarisk on 06 July 2019 (SZW).
- 70.153 (1814) **Lead-coloured Pug** *Eupithecia plumbeolata* (Haworth) Nat S 13 May - 14 July O
Recorded in 1983 (Emmet, 1977) with singles at HQ MV light on 07 June 1993, netted in Little Gully on 01 June 1995 and small numbers (up to six) at HQ light annually from 2010 to 2016. In 2017 there were 40 individuals recorded over 11 dates from 22 May to 17 June with a maximum of ten on 16 June and including a male on 28 May (gen det TD). 15 were observed in the Whitehouse on 15 June 2018. A male was recorded to light on Restharrow Scrape on 01 July 2019 (RW, gen det TD). A single was recorded to light in the Oasis on 25 June 2020 (AM/DS). A single was observed in the Whitehouse on 19 May, 21 were attracted to light in the Whitehouse on 02 June and a single at HQ on 18 June 2021. Eight were observed in the Whitehouse on 13 May (SZW) and a single attracted to light at HQ on 28 June (SB) 2022.

- 70.156 (1852) **Brindled Pug** *Eupithecia abbreviata* (Stephens) 09 March - 18 June O
Singles at HQ light on 02 June 1994, 30 April 2009 and 04 June 2010. An exceptional series of records between 06 April – 07 May in 2011 including eight on 20 April. Small numbers in 2012-2014 and 2016-2019. Nine were recorded to light at HQ and Sandown Road between 08 and 15 June 2021 and six were attracted to light at HQ or in The Elms on three nights between 09 March and 19 May 2022 and in The Elms on 07 and 10 May and at HQ on 09 June 2023. 15 individuals were attracted to light at HQ or in The Elms over seven nights between 07 April and 19 May 2024.
- 70.157 (1853) **Oak-tree Pug** *Eupithecia dodoneata* (Guenée) 05 April - 16 June O
Recorded in The Elms on 22 May 1989 and at HQ light on 03 June 1995 and in small numbers in 2009, 2011, 2014 to 2021 e.g., singles were recorded to light in the Whitehouse on 20 April 2017 (SZW), at HQ on 21 April and 26 May 2018, on 23 April and 24 and 25 May 2019 (IDH) and on 21 and at Sandown Road on 23 and 25 May 2020. Three were recorded to light at HQ in June 2021 including a female on 03 June (IDH, gen det DS). Two were recorded to light in The Elms on 09 and 11 May 2022 and on 27 May 2024.
- 70.159 (1855) **Cypress Pug** *Eupithecia phoeniceata* (Rambur) 14 June - 26 September O
One to four recorded at light on the Estate in 14 years from 1997 to 2017 (up to seven in August 2012 and a total of seven in August/September 2016). None were recorded in 2018. A single recorded to light at HQ on 31 July 2019 (DT) and three in Restharrow Dunes on 12 August 2020 (FS). None were recorded in 2021. Individuals were recorded to light at HQ on 19 August, 19 (2) and 20 September and in Middle Field on 25 September (2) 2022 and between 20 August and 26 September 2023 ten were recorded over five nights at HQ or on the Estate.
- 70.160 (1835) **White-spotted Pug** *Eupithecia tripunctaria* (Herrich-Schäffer) NT 07 April - 15 September O
Recorded at light in 1988 with sporadic records of small numbers from 1993 to 2018, though not every year (up to eight in August 2013). Recorded to light at HQ on 16 April, 15 May and 24 July (IDH and SZW) and in Restharrow Dunes on 12 August 2020 (FS), at HQ on 19 July 2021. In 2022 19 individuals were recorded to light at HQ or on the Estate over six nights between 09 May and 15 July including a male on 15 July at HQ (IDH gen det DS). 14 individuals were recorded to light at HQ or on the Estate over 11 nights between 18 July and 15 September 2023 and similar numbers in 2024.
- 70.161 (1851) **Golden-rod Pug** *Eupithecia virgaureata* (Doubleday) R
A species mainly found in the north and west. Recorded to light at HQ on 30 July 2024 (IDH gen det DS).
- 70.163 (1856) **Larch Pug** *Eupithecia lariciata* (Freyer) NT R
Recorded at HQ light on 18 June 2002 (DMB) and 15 May 2004 (P&PH).
- 70.165 (1845) **Pimpinel Pug** *Eupithecia pimpinellata* (Hübner) Nat S 13 July - 12 August O
Adults were bred from larvae taken from Burnet Saxifrage at the Whitehouse (FS). Recorded at light at HQ on 13 July 1994 (ACJ) and 29 July 1995 (ACJ). and there were light records from the Whitehouse or HQ in 2013 to 2020, e.g., maxima of six on 09 August 2013, eight on 07 August 2015 (FS), three on 04 August 2017 and eight on 03 August 2018. A single was recorded to light in Restharrow Dunes on 12 August 2020 (FS). None were recorded in 2021 or 2022.
- 70.166 (1842) **Plain Pug** *Eupithecia simplicata* (Haworth) 22 June - 12 August O
Recorded at light on 09 August 1981, 16 July 1985, 22 June and 06 July 1993, 26 July 1995, on seven dates from 29 June to 30 July 2010, on 26 June and 26 July 2011, 12 and 26 July 2014. Small numbers recorded annually to light at HQ and on the Estate from 2016 to 2024 including singles to light on Restharrow Scrape on 12 July 2019 (RW, M gen det DS) and at HQ on 12 August 2024 (IDH gen det DS).
- 70.168 (1846) **Narrow-winged Pug** *Eupithecia nanata* (Hübner) R
Recorded at HQ light on 13 August 1988 (IDH, confirmed CP), 16 June 1993, 16 May 2017 (IDH), 01 September 2019 (IDH, M gen det DS), 01 September 2021 (IDH) and on 17 June 2022 (IDH).
- 70.169 (1848) **Angle-barred Pug** *Eupithecia innotata* (Crewe) 06 May – 10 September O
One-two recorded in 1995, 1998, 2002, 2003 and annually from 2010 to 2015 and from 2017 to 2024 e.g. in 2017 four were recorded over three dates and in 2018 eight singles were recorded to light at HQ and on the Estate. A single recorded to light in The Elms on 22 May 2019 (SZW). Nine were recorded to light at HQ (SH/IDH) and in Restharrow Dunes (FS) on four dates between 07 and 13 August 2020, singles were recorded to light at HQ on 16 and 19 August 2021 and on 17 June and in the Gullies on 05 August 2022. Singles were recorded at HQ over five nights between 13 July and 10 September 2023.

E. innotata is a rather complex taxonomic group, consisting of a number of forms previously thought to be separate species, but now believed to be different forms of the same species using different foodplants.

- 70.171 (1844) **Ochreous Pug** *Eupithecia indigata* (Hübner) R
Recorded at HQ light on 08 (SZW, M gen det TD) and 28 May 2018 (M gen det DS).
- 70.173 (1825) **Lime-speck Pug** *Eupithecia centaureata* (Denis & Schiffermüller) 27 April - 23 September F
Plentiful throughout the area and up to 10 regularly attracted to light up to 2024, e.g., in 2017 95 individuals were recorded over 53 dates with a maximum of nine on 15 July.
- 70.174 (1820) **Pinion-spotted Pug** *Eupithecia insigniata* (Hübner) **Nat S** 28 April - 05 June O/R
Fairly scarce with about 19 records from 1982 - 2013. A single recorded at HQ light on 23 May 2016 (IDH), a single observed at HQ on 21 May 2019 (SZW/IDH, photo) and recorded to light at HQ over five nights between 28 April and 26 May 2022. Individuals recorded to light at HQ over three nights in the second half of May 2023 including three on 14 May. Seven individuals attracted to light at HQ over six nights between 01 and 17 May 2024.
- 70.175 (1826) **Triple-spotted Pug** *Eupithecia trisignaria* (Herrich-Schäffer) R
Recorded at HQ light on 27 May 2018 (SH/IDH).
- 70.176 (1827) **Freyer's Pug** *Eupithecia intricata ssp. arceuthata* (Freyer) 19 May - 03 July O/R
First recorded in Kent in 1951 with records on the Estate in 1983 and annually between 1993 and 2008. Singles recorded to light at HQ on 29 June, 03, 04 and 05 July 2013 (JGCB) and 19 May and 12 June 2014 (JGCB), in St George's bushes on 02 June 2017 (SZW), at HQ on 29 July 2021 (IDH), in Middle Field on 23 June 2023 (KB) and four in The Elms on 23 June 2024 (KB).
- 70.179 (1830) **Wormwood Pug** *Eupithecia absinthiata* (Clerck) 24 May - 06 September O
Small numbers at light on the Estate and at HQ from 1976 to 2018 and 2020 to 2024, e.g., six singles in July 2009, up to five in August 2013 and singles on 14, 15 and 21 July 2017 with similar numbers in 2018. Nine individuals were recorded to light at HQ and on the Estate on four dates between 09 July and 12 August 2020 (SZW, KB and FS) and individuals were recorded to light The Elms area on 08 August and 01 September (three) (KB) and in Restharrow Dunes on 06 September 2021 (CJH). Between 08 June and 24 August 2022, 28 individuals were recorded at light at HQ or on the Estate over 16 nights. Individuals were attracted to light in The Elms on 12 and 14 June (KA/SZW) and at HQ on 11 August 2023 (IDH) and on 16 July 2024 (IDH gen det DS).
- 70.180 (1833) **Bleached Pug** *Eupithecia expallidata* (Doubleday) Jun-Aug R
A woodland species associated with Golden Rod, also reported from coastal scrub. Recorded at The Elms on 12 July 1989 (PB), in the Whitehouse on 21 July 1989 (PB), at lighted windows on 02 August 1994 (ACJ) and in Little Gully on 30 July 1995 (ACJ).
- 70.182 (1832) **Currant Pug** *Eupithecia assimilata* (Doubleday) 09 April - 04 September O
Recorded in small numbers in 1994, 1995 (Whitehouse), 2004 and annually from 2008 to 2015 and 2017 to 2024 e.g. singles were recorded on the Estate on 09, 13 and 20 April and 23 and 25 August 2017, to light at HQ on 16 June and 20 July and in the Whitehouse on 03 August 2018 and 14 June and 12 July (FS), at HQ on 21 July 2019 (IDH), in Restharrow Dunes on 12 August 2020 (FS), a total of six in The Elms area on 23 June, 23 August and 01 September 2021 and four in Middle Field on 23 May 2022. Singles were recorded to light at HQ or in Middle Field or in The Elms over four nights between 13 May and 03 September 2023.
- 70.183 (1834) **Common Pug** *Eupithecia vulgata* (Haworth) 24 April - 07 August F/O
A common species with small numbers at light annually up to 2024, e.g., up to 15 in June 2010, though only singles in 2015. In 2017 singles or twos were attracted to light on 23 dates with similar numbers in 2018 and a total of 12 (mainly singles) in 2019.
- 70.184 (1819) **Mottled Pug** *Eupithecia exigua* (Hübner) 11 May - 14 July O
20 records in seven years from 1982 - 2007. There were up to four at HQ light on five dates in 2009, up to three on ten dates in 2010 and small numbers annually from 2011 to 2024. In 2017 there were singles on three dates and a similar pattern in 2018 and 2019.
- 70.186 (1841) **Yarrow Pug** *Eupithecia millefoliata* (Rössler) 31 May - 20 August O
One of the first British records was at Sandwich in July 1939. Occasional singles were recorded in six years from 1980 - 2004, with small numbers in 2011-2014, 2016-2020, e.g., three singles in 2017 and two - four on three dates in 2018. Between 12 July and 03 August 2022 16 individuals were recorded to light at HQ or in the Haven over seven nights. Singles were attracted to light at HQ on 20 and 27 July 2023 and 18 July 2024.
- 70.187 (1838) **Tawny Speckled Pug** *Eupithecia icterata* (Villers) **NT** 16 July - 15 October O
Small numbers recorded annually at light up to 2024, e.g., in 2017 seven individuals were recorded over six dates and in 2018 nine individuals were recorded over six nights to light on the Estate and at HQ.

- 70.188 (1839) **Bordered Pug** *Eupithecia succenturiata* (Linnaeus) **NT** 12 June - 23 August **O**
 First recorded in 1969 with one-six almost annually at light from 1980 to 2016. None were recorded in 2017. Individuals were recorded to light on 14 and 26 July (two) at HQ and five in the Whitehouse on 03 August 2018 and singles in the Haven on 30 June (PF), and at HQ on 24 July (SH/IDH) and 22 August 2019 (ME). Nine individuals were recorded to light at HQ or in Restharrow Dunes (two) on four dates between 31 July and 12 August 2020, five singles at HQ in 2021 and individuals to light in the Haven on 12 and at HQ on 13 July 2022 and in Middle Field on 14 and at HQ on 24 June 2023 and at HQ on 17 and 25 June and 19 and 29 July 2024.
- 70.189 (1840) **Shaded Pug** *Eupithecia subumbrata* (Denis & Schiffermüller) 09 May - 17 July **F/O**
 Recorded in 1976, 1987 and annually at light between 2000 and 2024 in small to moderate numbers, with up to 15 in June 2009, up to 22 in July 2010 and 31 in July 2013. In 2017 46 individuals were recorded over 23 nights with maxima of six on 02 and 16 June between 11 May and 21 June.
- 70.190 (1837) **Grey Pug** *Eupithecia subfuscata* (Haworth) **NT** 09 May - 12 August **O**
 Probably much overlooked with records at HQ light in 1976, 1988 and 11 records from 1993 – 2007 (most identified by genitalia). There were 12 records of about 21 individuals at HQ light in 2009, including six on 25 June, and small numbers since up to 2019, with a remarkably late individual on 18 October 2013. In 2017 23 individuals were recorded over 12 dates between 15 May and 16 June with a maximum of eight on 16 June but in 2018 singles were recorded on only two dates in the Whitehouse, in 2019 singles were recorded on two dates at HQ and in June 2020 singles were recorded on two dates at HQ and in the Oasis. None were recorded in 2021. Nine individuals were recorded over six nights between 22 June and 12 August 2022 and singles to light at HQ on 09 and 10 June and 12 July 2023 and in Middle Field (three) on 20 and in The Elms (three) and in Jubilee Field on 30 June 2024.
- 70.192 (1867) **Treble-bar** *Aplocera plagiata* (Linnaeus) 06 May - 19 June, 25 July - 20 September **O**
 Small numbers taken annually at light between 1981 and 2022. A single on 01 September was the only record in 2016. In 2017 three individuals were recorded on 16 May, 23 August and 09 September with a similar pattern in 2018, just a single at HQ light on 25 July 2019 (SH/IDH) and three individuals to light on the Estate and at HQ in 2020 and two at HQ in late August 2021. The only record in 2022 was a single to light at Sandown Road on 19 May. Singles recorded to light at HQ on 19 June and 11, 18 and 21 August 2023.
- 70.193 (1868) **Lesser Treble-bar** *Aplocera efformata* (Guenée) 07 May - 27 September **R/O**
 Recorded at HQ light on 18-19 May 2004 and in small numbers annually from 2009 to 2014. In 2016 a single was recorded at HQ light on 03 August and one was recorded on New Downs on 26 May. Singles were recorded on 14 August (The Elms) and 21 August 2017 (Whitehouse) (SZW). None were recorded in 2018 or 2020. Singles were recorded to HQ light on 23 and 25 July and 10 September 2019 and 11 June and in The Elms area on 08 September 2021. None were recorded in 2022. Singles were recorded to light at HQ on 19 August 2023 and on 14 May 2024.
- 70.195 (1864) **Streak** *Chesias legatella* (Denis & Schiffermüller) **R**
 Singles at HQ light on 28 October 2011 (JGCB) and on 01 November 2024 (SH/IDH).
- 70.196 (1865) **Broom-tip** *Chesias rufata* (Fabricius) **NT** **R**
 Recorded at light in July 1982 (IDH) and one-four on seven nights between 18 June and 05 July in 1983 (IDH).
- 70.198 (1879) **Seraphim** *Lobophora halterata* (Hufnagel) 20 April - 02 June **R/O**
 Two on 22 April (JGCB), one on 21 May 2011 (FS), singles at HQ light on 20 April and 13 May 2018 and singles to light in the Haven on 22 April (SZW), at HQ on 19 and 25 May and 02 June 2019 (IDH), at HQ on 02 and 09 and at Sandown Road on 12 May 2020 and recorded in the field on 26 April, to light at HQ on 05, in The Elms on 09 and at HQ on 16 May 2022 and singles were recorded to light at HQ or in The Elms over six nights between 30 April and 31 May 2023 and singles at HQ on 30 April and 07, 09 and 12 May 2024.
- 70.199 (1882) **Small Seraphim** *Pterapherapteryx sexalata* (Retzius) 08 May - 27 August **F**
 Nine records between 1976 and 1994 and 22 in 1995. Since then, singles at HQ MV light on 01 June 2004 and on the Estate on 20 June 2005, then 12 in the Whitehouse on 25 June 2009 and annually in small numbers at HQ light from 2010 to 2024. In 2017 30 individuals were recorded over 14 dates with a maximum of 12 on 16 June and a similar pattern in 2018.
- 70.200 (1883) **Yellow-barred Brindle** *Acasis viretata* (Hübner) 03 May - 26 July, 07 August - 17 September **O**
 Recorded on the Estate in small numbers from 1980 to 2024 (e.g., up to three in June 2014). In 2017 ones or twos were recorded on four dates – 26 May, 02 and 17 June and 25 August and a similar pattern in 2018.
- 70.201 (1880) **Barred Tooth-striped** *Trichopteryx polycommata* (Denis & Schiffermüller) **Nat S** **R**
 A scarce species, mostly found on the chalk, one was recorded at HQ light on 08 March 2014 (JGCB, IPH).

- 70.202 (1881) **Early Tooth-striped** *Trichopteryx carpinata* (Borkhausen) R
One trapped at HQ on 12 April 2009 (PCH, PH).
- 70.205 (1884) **Magpie Moth** *Abraxas grossulariata* (Linnaeus) 05 June - 31 August O
Recorded annually in The Elms or bushy areas of Whitehouse and in small numbers annually at HQ light up to 2024, e.g., in 2017 seven individuals were recorded over six dates between 12 and 29 June with similar numbers in 2018. Larvae were identified on Guilford Road and in The Elms on 04 May 2024 (RL/PS/BH).
- 70.206 (1885) **Clouded Magpie** *Calospilos sylvata* (Scopoli) R
Recorded at HQ light on 26 July 1985, 16 August 2012 (JGCB), 19 July 2017 (SZW), 24 July 2019 (SH/IDH) and 08 July 2022 (IDH).
- 70.207 (1887) **Clouded Border** *Lomasipilis marginata* (Linnaeus) 09 March - 05 September C
Frequent about clumps of Sallows and common at light with occasional second-generation moths into August/September up to 2024. Up to 19 at HQ light in June 2009, up to 29 in July 2010, 35 in July 2013, 42 in July 2015, 22 in July 2016 and maxima of 20 on 16 June and 30 on 04 August in 2017. A male that had no patterning and was completely grey was recorded at HQ light on 06 August 2021 (IDH, gen det DS).
- 70.208 (1888) **Scorched Carpet** *Ligdia adustata* (Denis & Schiffermüller) 09 March - 11 September O
Recorded at HQ light on 30 August 1994, 18 August 2002, 25 August 2006, in Slazengers on 19 July 1995 and in the Cellars on 05 May with small numbers to light at HQ or on the Estate in 2009, 2010, 2013 to 2015 and 2017 to 2024 e.g., 18 individuals were recorded to light at HQ or on the Estate over nine dates between 20 July and 01 September 2020.
- 70.210 (1888a) **Dorset Cream Wave** *Stegania trimaculata* (Villers) Migrant R
Reported from Dorset in 1978 and again in 2006. Recorded to light at HQ on 15 September 2022 (LS confirmed IDH).
- 70.211 (1889) **Peacock Moth** *Macaria notata* (Linnaeus) 09 May - 29 August O
Recorded on 05 August 1992 and 2000 with small numbers since. Records of up to 10 in July and seven in August 2009. It was absent in 2013 and only one-two singles were recorded in 2014 to 2017. In 2018 11 individuals were recorded to light on the Estate and at HQ over eight dates across the flight period. None were recorded from 2019 to 2022. Singles were recorded to light at HQ on 01 August 2023 and in The Elms on 19 August 2024.
- 70.212 (1890) **Sharp-angled Peacock** *Macaria alternata* (Denis & Schiffermüller) 09 April - 11 September C
A local species recorded on 11 August 1969 and almost annually at light between 1980 and 2024. In 2017 180 were recorded over 66 dates between 14 May and 02 September with a maximum of 35 on 04 August and a similar pattern in 2018.
- 70.214 (1893) **Tawny-barred Angle** *Macaria liturata* (Clerck) 07 May – 07 September O
Recorded in the 1920's, at Slazengers in 1976 and small numbers at HQ light in 1988, 1993, 2002, 2010, 2012 to 2015. None were recorded in 2016. Mainly singles were recorded on seven dates in 2017 with a similar pattern in 2018, nine individuals were recorded over five dates across the flight period in 2019 and 20 were recorded over seven dates between 25 June and 12 August 2020. From 2021 to 2024 small numbers were recorded to light at HQ or on the Estate.
- 70.217 (1896) **Rannoch Looper** *Macaria brunneata* (Thunberg) **Nat S** R
An unprecedented influx into south-east England took place in 2009. Seven were present in Big Gully on 09 June, with one-two there and in Middle Field on the next two days and at light at HQ on 12 and 30 June. Records in 2010 of three on 17 June, one on 24 June and two on 26 June suggested that breeding may have taken place locally. One-three were recorded on three dates between 03 and 10 June 2011. Three individuals were recorded to light at HQ on 16 June 2022 (KR/SZW)
- 70.218 (1894) **Latticed Heath** *Chiasmia clathrata* (Hübner) **NT** 20 April - 21 September F
A common species over rough grassland and regular in small numbers at light up to 2024, e.g., in 2017 54 were recorded over 24 dates between 02 May and 25 August with a maximum of nine on 23 August. 23 individuals were recorded in the field or to light across the Estate or at HQ over 18 dates between 02 May and 12 August 2020.

70.222 (1902)	Brown Silver-line <i>Petrophora chlorosata</i> (Scopoli)	23 April - 07 July	O
	A species associated with Bracken, with up to four recorded in 1982, 1993, 1995, 2002, 2003, 2009 and annually to 2014, with up to 19 in May 2010 and 14 in May 2011. Scarcer since, probably as a result of more diligent bracken control. Four were recorded on 08 May in the Whitehouse (IPH) and singles recorded at HQ light on 10 and 15 June 2016 (IDH). Two were recorded at HQ light on 16 May (IDH) and singles recorded at light on 22 and 24 May (Middle Field and Whitehouse [SZW]) and on 16 June 2017 in the Whitehouse (FS). None were recorded in 2018 and 2019. Singles were recorded to light in the Oasis on 25 and at HQ on 26 June 2020, in the Whitehouse on 02 June 2021, in The Elms on 29 May 2022 (KB) at HQ on 24 May and in Middle Field on 12 and 14 (2) June 2023. A total of four adults were recorded to light at HQ or observed in the Whitehouse on 11 and 13 May 2024.		
70.224 (1904)	Scorched Wing <i>Plagodis dolabraria</i> (Linnaeus)	20 May - 19 July	O
	Recorded at HQ light on 19 and 30 June 2000, 17 and 23 June 2002, 23 June 2006 and in small numbers from 2009 to 2024, though unrecorded in 2012, 2017 and 2021.		
70.226 (1906)	Brimstone Moth <i>Opisthograptis luteolata</i> (Linnaeus)	09 March - 17 October	C
	Common throughout the area and one-five regular at light in two - three generations. Increasingly numerous and recorded annually between 2009 and 2024 (with maxima of 14 at HQ light in 2009, 21 in August 2010, 16 in August 2011, 39 in August 2012, 31 in August 2013, 20 in September 2014 and 23 in August, 22 in September 2016 and 13 in August 2017). A larva was identified on Rowan in The Elms on 16 August 2021 (SZW).		
70.227 (1907)	Bordered Beauty <i>Epione repandaria</i> (Hufnagel)	14 June - 12 October	O
	First recorded on 17 August 1969 with records until 1998 then annually to 2024 in small numbers, e.g., in 2018 13 individuals recorded to light on the Estate and at HQ over ten nights between 21 July and 18 September.		
70.229 (1909)	Speckled Yellow <i>Pseudopanthera macularia</i> (Linnaeus)	May - September	X
	Formerly common in The Elms and other bushy areas of the Estate and occasional at light. However, the only record since 1984 was on 09 July 1991.		
70.230 (1924)	Orange Moth <i>Angerona prunaria</i> (Linnaeus)		R
	One was trapped in Prince's plantation on 04 July 2015 (confirmed IDH).		
70.231 (1910)	Lilac Beauty <i>Apeira syringaria</i> (Linnaeus)		R
	Recorded to light at HQ on 16 and 31 July 2004, 02 July 2009, two in Restharrow Dunes on 12 July 2014, singles in The Elms on 03 and 06 July 2022 (KB), in Middle Field on 23 June and 09 July and in The Elms on 01 (2) and 07 September 2023 and in The Elms on 30 June and 26 August 2024 (KB).		
70.232 (1911)	Large Thorn <i>Ennomos autumnaria</i> (Werneb.)	NT 05 August - 02 October	O
	East Kent is a favoured area of this locally common moth which appeared at light almost annually from 1982 to 2010 (up to three in 2009) and in 2013 and 2014. Two were recorded at HQ light on 26 August 2017 (IDH), five were recorded on four dates between 15 August and 14 September 2018 and a single on 29 August 2019. After none in 2020, there was an influx of 20 individuals across seven dates between 28 August and 18 September 2021 to light at HQ, The Elms and Restharrow Dunes with a maximum of seven in Restharrow Dunes on 06 September. None were recorded in 2022. Nineteen were recorded to light at HQ or in The Elms over five nights between 01 and 07 September 2023. Seven individuals were recorded to light at HQ or in The Elms in the first week of September and there was a very late record at HQ on 09 November 2024 (MG&LN/IDH).		
70.233 (1912)	August Thorn <i>Ennomos quercinaria</i> (Hufnagel)	26 July - 23 September	R
	Recorded at light on 14 August 1981 (DMB), 07 and 23 September 1982 (IDH), 23 August, 05 September 1983 (IDH), 26 July 2013 and a single to light in Restharrow Dunes on 12 August 2020 (FS).		
70.234 (1913)	Canary-shouldered Thorn <i>Ennomos alniaria</i> (Linnaeus)	09 July – 09 November	F
	Small numbers recorded at light up to 2024, e.g., up to five in August 2010 and 2013 and in July 2014. 18 were recorded over 13 dates in 2017 with a maximum of five on 04 August.		
70.235 (1914)	Dusky Thorn <i>Ennomos fuscantaria</i> (Haworth)	NT 14 July – 25 October	F
	Recorded at light on 13 August 1975, 25 October 1977 and 24 and 29 September 1980, with small numbers annually between 2009 and 2024, e.g., in 2017 ones or twos were recorded on 22 dates from 14 July to 26 September.		
70.236 (1915)	September Thorn <i>Ennomos erosaria</i> (Denis & Schiffermüller)	NT	R
	Three recorded at light between 04 and 24 September 1980 (DMB), one on 18 August 2001 and singles in The Elms on 19 July 2023 (KB) and at HQ on 02 July 2024.		

- 70.237 (1917) **Early Thorn** *Selenia dentaria* (Fabricius) 14 March - 09 May, 30 June - 04 September O
Recorded at light in 1969 and annually in small numbers from 1978 to 2024. In 2017 there were 17 records over nine dates from 20 March to 11 April and singles on four dates between 13 July and 04 September. In 2018 there were four early records and 12 late.
- 70.238 (1918) **Lunar Thorn** *Selenia lunularia* (Hübner) R
Singles to light at HQ on 18 August 2012, 17 July 2014, 03 August 2016 (IDH), 15 July 2017 (IDH), 02 and 15 May and 16 July 2018, at Sandown Road on 08 June and at HQ on 10 August 2021 (IDH) and at HQ on 04 May and 13 July 2022.
- 70.239 (1919) **Purple Thorn** *Selenia tetralunaria* (Hufnagel) 15 - 17 April, Mainly July - August O/R
Recorded in small numbers in nine years from 1969 to 2011.
- 70.240 (1920) **Scalloped Hazel** *Odontopera bidentata* (Clerck) R
Recorded at light on 01 June 1983, 27 May 1985 and 16 and 19 May 2014 (JGCB).
- 70.241 (1921) **Scalloped Oak** *Crocallis elinguarina* (Linnaeus) 01 June - 24 September O
Recorded in 1969 with up to 20 annually from 1975 to 2024. During July and August 2017 there were 12 individuals recorded over eight dates with a maximum of four on 10 July.
- 70.243 (1922) **Swallow-tailed Moth** *Ourapteryx sambucaria* (Linnaeus) 14 June - 07 October O
Up to 20 recorded annually up to 2024 at light. In 2017 a total of three individuals were recorded - two on 05 July and a late one on 07 October (IDH).
- 70.244 (1923) **Feathered Thorn** *Colotois pennaria* (Linnaeus) 09 September - 02 December O
Small numbers recorded in many years from 1983 to 2024. Between 01 October and 15 November 2017 there were 21 individuals recorded over 14 dates and in 2018 a total of 14 individuals were recorded. A larva was identified in The Elms on 04 May 2024 (RL/PS/BH).
- 70.245 (1663) **March Moth** *Alsophila aescularia* (Denis & Schiffermüller) 15 February – 08 May O
Small numbers regular at light from 1983 to 2024 (up to 12 in April 2010). In 2017 there were 30 individuals recorded over 13 dates between 10 March and 17 April with a maximum of eight on 14 March. In 2020 two individuals were recorded.
- 70.246 (1925) **Small Brindled Beauty** *Apocheima hispidaria* (Denis & Schiffermüller) R
One at HQ light on 25 February 2015 (IDH).
- 70.247 (1926) **Pale Brindled Beauty** *Apocheima pilosaria* (Denis & Schiffermüller) **VU** 16 December - 20 March O
Recorded at an outside doorway light on 27 February 1987 with another on 06 February 1995 and small numbers (up to six) annually from 2010 to 2015. None were recorded in 2016. Four individuals were recorded over three dates in February (IDH) and March 2017, singles to HQ light on 18 February 2018, on 22 and 23 February 2019 and a field observation of one on 24 January 2020 (CW). None were recorded in 2021. Singles were attracted to light at HQ on 01 March 2022 (GJL/SZW) and on 12 and 19 February and four in The Elms on 15 February 2023. A single was observed at HQ on 11 February and a larva was identified in The Elms on 04 May 2024 (RL/PS/BH).
- 70.248 (1927) **Brindled Beauty** *Lycia hirtaria* (Clerck) 30 March - 12 May O
Recorded in 1983 and almost annually up to 2016 in ones and twos. There were none in 2017. A single was recorded to HQ light on 15 April 2018 and on 05 April 2019 (IDH). There were none in 2020. Singles were recorded to light at HQ on 30 March and in The Elms area on 12 May 2021 and at HQ on 20 April and 03 May 2022. Between 16 April and 02 May 2023 seven individuals were recorded to light at HQ or in The Elms over six nights. Singles were attracted to light at HQ on 07 and 13 and in The Elms on 29 April 2024.
- 70.251 (1930) **Oak Beauty** *Biston strataria* (Hufnagel) 21 February - 17 April O
Recorded at light on 09 April 1983, 17 April 1984, 18, 25 and 28 March 2004 and 23 March 2005, then in small numbers annually from 2010 to 2014. Singles recorded at HQ light on 15 and 29 March 2017 (IDH), 10 and 22 March 2018, 30 March 2019 and 20 March 2020. Singles recorded to light at Sandown Road on five dates between 21 February and 24 March and at HQ on 22 March 2021. None were recorded in 2022 or 2023. A single was attracted to light at HQ on 13 March 2024 (CMI/GJL).
- 70.252 (1931) **Peppered Moth** *Biston betularia* (Linnaeus) 13 May - 12 August F
Fairly common in the area with small numbers at light up to 2024 (up to nine at HQ light in June 2009, eight in July 2014, seven on 15 July 2016 and in 2017 49 individuals were recorded over 26 days from 16 May to 27 July with a maximum of 12 on 30 May). Melanistic and light forms were about equally common but increasingly the light form predominates. An intermediate variety was taken at light in 1984. A melanistic individual was recorded to light at HQ on 31 July and on 18 July 2021 three individuals were recorded – one each of light, intermediate and dark.

- 70.253 (1932) **Spring Usher** *Agriopis leucophaearia* (Denis & Schiffermüller) R
One at HQ light on 16 February 2012 (JGCB), one on 16 February 2017 (IDH) and one on 31 December 2018 (SZW).
- 70.254 (1933) **Scarce Umber** *Agriopis aurantiaria* (Hübner) 30 October - 28 November R
Singles at HQ light on 15 November 2009 (PDH, AP, JGCB), 30 October 2010 (JGCB), 04 and 28 November 2011 (JGCB), two on 17 November 2012, a single observed at HQ on 27 November 2019 (SZW) and two recorded to HQ light on 09 November 2020.
- 70.255 (1934) **Dotted Border** *Agriopis marginaria* (Fabricius) 02 February - 26 April O
Occasionally seen feeding at Sallow catkins in spring, with small numbers at HQ light annually from 2009 to 2024, e.g., in 2017 there were singles on five dates between 11 March and 13 April at light at HQ and in The Elms.
- 70.256 (1935) **Mottled Umber** *Erannis defoliaria* (Clerck) VU 31 August – 17 February O
Recorded on the HQ wall on 22 December 1994 and at light on 10 October 1998, with two on 09 and 10 January and one on 21 December 2012 and small numbers in 2013, 2014 and 2015. A single was recorded at HQ light on 14 November 2017 (SZW). A larva was recorded on the Estate on 15 June 2018 and four adults were attracted to HQ light later in the year. Singles were recorded at HQ light on 23 October and 28 November 2019 (IDH) and at light at Sandown Road on 07 and 08 (two) November and HQ on 08 November 2020. Singles recorded to light at HQ on 15 and 16 November 2021. A larva was recorded in the Gullies on 02 May (DS) and two adults were attracted to light at HQ on 03 January (IDH), singles in Middle Field on 01 October 2022 (KB) and at HQ on 01 January 2023. Singles were recorded to light at Sandown Road on 17 February and at HQ on 31 August and six over five nights between 03 and 15 November 2024 with a larva detected in The Elms on 04 May (RL/PS/BH).
- 70.257 (1936) **Waved Umber** *Menophra abruptaria* (Thunberg) 21 April - 19 July, 26 August O
Recorded in small numbers to light at HQ or on the Estate or at Sandown Road in many years from 1982 to 2024. For example in 2017 singles were recorded at light on the Estate and at HQ on four dates between 11 May and 08 June, in 2018 a total of nine individuals were recorded. Singles were recorded to light at HQ on 23 April and 24 and 26 May 2019 (IDH et al), on 20 and 21 May 2020 and at HQ, on the Estate, at Sandown Road on six dates in June 2021 and up to three recorded to light at HQ or in The Elms on eight nights in May 2022.
- 70.258 (1937) **Willow Beauty** *Peribatodes rhomboidaria* (Denis & Schiffermüller) 06 May - 01 November F
Recorded at light in 1969 and fairly common most years from 1981 to 2024, e.g. in 2017 84 individuals were recorded over 48 dates between 15 May to 30 September at light widely across the Estate and at HQ with a maximum of seven on 02 June.
- 70.265 (1941) **Mottled Beauty** *Alcis repandata* (Linnaeus) 28 May - 18 August O
Recorded in 1976 and annually in small to moderate numbers from 1981 to 2006 and from 2009 to 2024, e.g., up to six in June 2009, 25 in June 2014 and in 2017 30 individuals were recorded at light over ten dates from 28 May to 20 June with a maximum of 12 on 13 June in The Elms. An individual of the variety *conversaria* was attracted to HQ light on 10 July 2019 (SH/IDH). In 2020 two individuals were recorded to light on the Estate.
- 70.268 (1944) **Pale Oak Beauty** *Hypomecis punctinalis* (Scopoli) 08 May - 03 August O
Recorded in 1975 and 1993 but more frequently in small numbers in 15 years from 2002 to 2018, exceptionally up to ten in June 2014 and in 2017 singles were recorded on three dates from 29 May to 21 June. None were recorded in 2019. Singles were recorded to light at HQ, on the Estate or at Sandown Road on five dates between 18 May and 25 June 2020 and on six dates between 08 June and 13 July 2021. Over four nights in the second half of June 2022 seven individuals were recorded to light at HQ or in Middle Field with similar numbers in 2023. A single was attracted to light in Jubilee Field on 30 June 2024 (CV/KM). A larva was identified in The Elms on 16 August 2021 (SZW).
- 70.270 (1947) **Engrailed** *Ectropis crepuscularia* (Goeze) 11 February – 02 October O
Recorded in July/August in 1981, 1987, 1989 (Whitehouse), 1995 (The Elms) and 2005. Small numbers annually at HQ light between 2009 and 2024, e.g., in 2017 15 individuals were recorded at light over 12 dates from 10 March to 26 August with a maximum of three on 23 August.
- 70.272 (1949) **Square Spot** *Paradarisa consonaria* (Hübner) R
Recorded at HQ light on 07 June 2004 (P&PH)
- 70.276 (1954) **Bordered White** *Bupalus piniaria* (Linnaeus) 07 May - 20 July, 23 August O/R
A species associated with pine, recorded on the Hundred Acre Field on 10 June 1986 and in the Green Barn Pines on 24 June 1995 (two). At HQ there have been occasional records from 1983 with small numbers annually from 2009 – 2012 and in 2015. The next record was a single attracted to HQ light on 30 June 2018 followed by singles on 04 June and 02 July 2019 (IDH). Individuals were attracted to light at HQ on 03 June and 23 August 2024 (two)(IDH).

- 70.277 (1955) **Common White Wave** *Cabera pusaria* (Linnaeus) 21 April - 15 September F
Occasionally seen in clumps of Sallows about the Estate with up to six recorded annually at light up to 2015. More frequent in 2009 when up to 14 were recorded at HQ light in June, with up to eight in July. In 2016 21 were recorded over 17 nights between 10 June and 25 August with a maximum of five on 15 July with similar numbers from 2017 to 2024.
- 70.278 (1956) **Common Wave** *Cabera exanthemata* (Scopoli) 09 March - 16 September C
More common than the preceding species and attracted to MV light annually up to 2024. More frequent in 2009 when up to 11 were recorded at HQ light in June, with up to five in July and a peak count of 25 on 20 August. Since then, up to 20 in August 2013 and 26 in August 2014. In 2016 86 were recorded over 56 nights between 23 May and 13 September with a maximum of six on 05 August. In 2017 191 were recorded at light over 65 dates between 10 May and 02 September with maxima of 11 on 21 and 22 August.
- 70.279 (1957) **White-pinion Spotted** *Lomographa bimaculate* (Fabricius) R
Recorded to light in The Elms on 27 May 2018 (SZW).
- 70.280 (1958) **Clouded Silver** *Lomographa temerata* (Denis & Schiffermüller) 30 April - 07 August F
One or two attracted to light from 1976 onwards. More numerous from 2009 to 2024, e.g., in 2016 a total of 78 were recorded over 25 nights between 06 June and 19 July with maxima of nine on 11 June and eight on 07 July and in 2017 there were 34 individuals recorded over 16 dates between 15 May and 10 July with a maximum of 15 in the Whitehouse on 08 June. 14 individuals were recorded to light, mainly at HQ, over eight dates between 21 May and 17 July with a maximum of four on 25 June 2020. A larva was identified on Hawthorn in the Waldershare Gully on 18 August 2021 (SZW).
- 70.282 (1960) **Early Moth** *Theria primaria* (Haworth) **VU** 20 January - 16 March O/R
Recorded on the Observatory kitchen window on 26 February 1985 and at light on 08, 14 and 16 March 1986. Larvae were found feeding on Hawthorn on the Estate on 08 July 1986. One at HQ light on 11 February 2011, up to four in February 2012, two on 15 February 2013, singles on 16 and 18 February 2017 (IDH) and on 13 February 2019. A single was observed in the field on 20 January 2020 (BMa) and at HQ light on 21 February 2021.
- 70.283 (1961) **Light Emerald** *Campaea margaritata* (Linnaeus) 06 May - 08 October F
Singles attracted to light almost annually from 1976 to 2006. Apparently increasing since 2009 when there were eight counts of ten or more, including a peak of 21 on 22 August. Subsequently annual in small to moderate numbers from 2011 to 2024, e.g., in 2017 there were records of 128 individuals attracted to light over 55 dates from 15 May to 29 September with maxima of eight on 21 August at HQ and on 23 August in The Elms.
- 70.284 (1962) **Barred Red** *Hylaea fasciaria* (Linnaeus) 16 May – 08 October O
Recorded at light on 15 July 1987 and at Gullies light on 14 June 1989 (two) with a late example of the green form *H.f. prasinaria* on 25 September 1998. One at HQ light on 09 July 2010, an example of the green form on 27 June 2011, one on 07 September 2012 then annual in small numbers to 2024. Although none in 2016. For example: four individuals over three dates from 22 August to 09 September 2017 were attracted to light in The Elms and at HQ with a similar pattern in 2018. Singles were recorded to light in The Elms on 19 June 2019 (SZW), on 17 (KB) and 21 (CWi) September 2020 and up to three on four dates between 06 June and 19 September 2021. 30 individuals recorded to light at HQ or on the Estate over 14 nights between 16 May and 21 September 2022. Recent records are mostly the green form.
- 70.287 (1964) **Annulet** *Charissa obscurata* (Denis & Schiffermüller) R
Recorded to light on Princes Beach on 18 July 2022 (JC).
- 70.288 (1945) **Brussels Lace** *Cleorodes lichenaria* (Hufnagel) R
Singles were attracted to HQ light on 09 June 2014 (JGCB, IPH), on 25 July 2021 (IDH) and 18 July 2024 (IDH).
- 70.293 (1967) **Straw Belle** *Aspitates gilvaria* (Denis & Schiffermüller) **EN Nat R** R
One at HQ light on 31 July 2013 (JGCB) may well have been an immigrant.
- 70.294 (1968) **Yellow Belle** *Napuca ochrearia* (Rossi) 24 April - 07 July, 01 August – 09 November F
Relatively common throughout the area up to 2024 with up to 10 regularly attracted to light (up to 16 in May 2010 and 15 in July 2015). In 2016 many recorded at HQ light as well as a single recorded as a sight record on 17 May on the spillway at New Downs and three on 16 August. There was a similar pattern in 2017 with sight records of three individuals on 16 May at Restharrow Dunes and a single on 25 August at New Downs. In the early period there were 21 individuals recorded over nine dates between 02 May and 08 June at HQ light with a maximum of nine on 16 May and in the later period, between 21 August and 02 September, ten individuals were recorded over eight dates. A maximum of 17 was recorded in The Elms area on 05 September 2021. Larvae were identified at night on Princes Beach on 03 and in the day in Restharrow Dunes on 04 May 2024 (RL/PS/BH).

- 70.296 (1664) **Rest Harrow** *Aplasta ononaria* (Fuessly) **NT Nat R** 28 May - 08 September C
Something of a Sandwich Bay speciality. Regularly observed along the dunes and rough grassland from Stonelees to Deal, sometimes in quite large numbers e.g., 200 on Princes Beach on 08 June 2018. Annually recorded at light to 2024 at HQ and on the Estate in mainly single figures per night e.g., 28 individuals were recorded to light at HQ or on the Estate over 11 nights between 14 June and 05 September 2021 with a maximum of seven on 05 September and a field observation of 14 in Hundred Acre on 24 June.
- 70.297 (1665) **Grass Emerald** *Pseudoterpna pruinata* (Hufnagel) R
Recorded on the Estate in 1969 (JMC-H) and on 27 June 1990.
- 70.299 (1666) **Large Emerald** *Geometra papilionaria* (Linnaeus) 01 June - 09 August R
An uncommon moth with only 11 records of one or two from 1976 – 2013. In 2022 seven individuals were attracted to light at HQ and in the Haven over five dates from 15 June to 28 July and in The Elms and in Middle field on 19 July 2023 and at HQ on 19 July 2024 (IDH).
- 70.300 (1667) **Blotched Emerald** *Comibaena bajularia* (Denis & Schiffermüller) R
A single was attracted to the HQ light on 16 June 2018 (SH/IDH).
- 70.302 (1673) **Small Emerald** *Hemistola chrysoprasaria* (Esper) 07 June - 10 August O
Up to four almost annually from 1976 – 1987 and in 1995, 1997, 2002 (two), 2009 (three) and 2011 to 2020. Attracted to light in the Haven on 12 July 2022 (FS).
- 70.303 (1674) **Little Emerald** *Jodis lactearia* R
One at HQ light on 28 May 2012 (JGCB) and on 20 July 2022 (GJL/SZW).
- 70.304 (1672) **Sussex Emerald** *Thalera fimbrialis* (Scopoli) **EN Nat R** R
One at HQ light on 03 July 1992 (PAB et al) was either an immigrant or a wanderer from the Dungeness colony; the only breeding site in the county at the time. A worn individual was recorded at HQ light on 01 July 2015 (IDH), singles were recorded to light at HQ on 21 July and 20 August 2021 (IDH), on Princes Beach on 18 (JC) and at HQ on 20 (SZW) and 27 (JH) July 2022, at HQ on 07 and 19 July 2023 and on 04 July and 01 August 2024. A larva was found nocturnally on Wild Carrot basal leaves on Princes Beach on 04 May 2024 (RL/PS/BH).
- 70.305 (1669) **Common Emerald** *Hemithea aestivaria* (Hübner) 06 June – 28 August O
Almost annual in small numbers from 1982 - 2024. 12 individuals were recorded to light at HQ and on the Estate over nine dates between 25 June and 11 August 2020 (IDH et al).

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- 71.001 (2022) **Oak Processionary** *Thaumetopoea prcessionea* (Linnaeus) **Naturalised** R
Singles at light on 05 August 2016 in the Whitehouse (FS), at HQ on 21 July 2018 (SH/IDH), on 30 July and 01 August 2019, at HQ on 31 July and 07 and 08 August and two in the Oasis on 07 August 2020 and in Middle Field on 31 July 2022 (KB).
- 71.003 (1995) **Puss Moth** *Cerura vinula* (Linnaeus) 12 April - 10 August O
Small numbers recorded at light in most years up to 2024. In 2017 there was a single record on 24 May and again a single on 03 June 2018. Larvae often encountered on Poplars around the area and less frequently on *salix* in June/July including one in St Georges Bushes on 19 June 2023 (SZW). Eggs were recorded the Estate on 15 and 17 June 2018 (AM et al/SZW) and in the Little Gully on 13 June 2020 (AM/DS).
- 71.005 (1997) **Sallow Kitten** *Furcula furcula* (Clerck) 27 April - 26 August O
Recorded at light in 1967, 1969 and in most years from 1982 to 2024, e.g., in 2017 mainly singles were recorded on nine dates from 16 June to 24 August. A larva was recorded in the Whitehouse on 28 June 2022 (SAA/SZW).
- 71.007 (1998) **Poplar Kitten** *Furcula bifida* (Brahm) 19 May - 12 August O
Recorded feeding at Privet flowers in the HQ garden in the evening in 1979 then at light in 1983, 1984, 1992, 2000 (seven), 2004, 2009, 2015-2016. Only single records were recorded in 2017 and 2018 and two in 2019 and 2020 with a single in 2021. None were recorded in 2022. Singles were recorded to light at HQ on 13 and 26 June 2023 and in the Whitehouse on 04 July 2024. Larva found in a Poplar hedge on New Downs in 1994.
- 71.009 (1999) **Lobster** *Stauropus fagi* (Linnaeus) R
A larva, found on Hawthorns in The Elms in July 1967, was reared and produced an adult moth on 06 June 1968 (DMB). Our first record of an adult was one to light at HQ on 17 June 2022 (KR).
- 71.011 (2015) **Lunar Marbled Brown** *Drymonia ruficornis* (Hufnagel) R
Reported at HQ light on 06 May 1999 and a single confirmed at HQ light on 07 May 2018 (IDH/SZW).

71.012 (2000)	Iron Prominent <i>Notodonta dromedarius</i> (Linnaeus)	07 April - 05 September	F
	Recorded from 1968 to 1988, then more frequently in small numbers (up to six or seven) from 1992 to 2024. There was an exceptional maximum count of 15 on 03 August 2018. 36 individuals were recorded to light, mainly at HQ, over 20 dates between 14 June and 14 August with a maximum of six in the Oasis on 10 August 2020 (AM/DS). A larva was identified on a bench in the Observatory garden on 11 September 2021 (RJD/SZW).		
71.013 (2003)	Pebble Prominent <i>Notodonta ziczac</i> (Linnaeus)	30 March - 28 August.	F
	First recorded in 1969 and annual at light between 1980 and 2024, e.g., in 2016 87 recorded at HQ light over 40 nights between 03 May and 13 August with a maximum of eight on 05 August. In 2017 75 were recorded over 54 dates between 02 April and 24 August with a maximum of five on 16 May.		
71.015 (2002)	Three-humped Prominent <i>Tritophia tritophus</i> (Denis & Schiffermüller)		R
	A very rare immigrant recorded at HQ light on 24 August 2013 (JGCB, IPH) and on 13 August 2024 (SH/IDH)		
71.017 (2007)	Swallow Prominent <i>Pheosia tremula</i> (Clerck)	07 April - 08 September	C
	Recorded in 1969, 1970 and small numbers annually since 1980. More numerous between 2009 and 2024, e.g., in 2016 92 recorded over 41 nights between 03 May and 04 September with a maximum of 27 on 31 July and in 2017 between 14 April and 26 August 70 were recorded over 37 dates with a maximum of 10 on 14 August.		
71.018 (2006)	Lesser Swallow Prominent <i>Pheosia gnoma</i> (Fabricius)	11 April - 01 September	O
	Recorded at HQ light in 1980, 1994 then annually in small numbers (up to eight) in 13 years from 2001 to 2016. None were recorded in 2017. From 2018 to 2024 between one and eight individuals were recorded to light at HQ or on the Estate.		
71.020 (2011)	Pale Prominent <i>Pterostoma palpina</i> (Clerck)	30 March - 29 August	F
	Two generations now overlap. Recorded almost annually from 1976 to 2024, e.g., in 2016 34 were recorded over 23 nights between 06 May and 27 August and in 2017 between 04 April and 14 August 57 individuals were recorded over 39 dates with a maximum of four on 24 July.		
71.021 (2008)	Coxcomb Prominent <i>Ptilodon capucina</i> (Linnaeus)	14 June - 22 August	O
	One in Slazengers in 1969 and up to eight in seven years from 1978 – 2004. The next record was to light at HQ on 25 May 2019 (DT), another in the Oasis on 31 July 2021 (SBI&GN) and a single to light at HQ on 26 June 2023 (LS/SZW).		
71.022 (2009)	Maple Prominent <i>Ptilodon cucullina</i> (Denis & Schiffermüller)	23 May - 28 August	O
	Recorded in small numbers (up to nine) in 1977, 1982, 1990, 1993, 1994 and 2001 then annually in small numbers and increasingly regular from 2008 to 2024, e.g., in 2017 there was a single record on 13 June from The Elms (SZW), in 2018 a single to HQ light on 23 August and singles or twos to light at HQ on five dates in July and August 2019.		
71.025 (1994)	Buff-tip <i>Phalera bucephala</i> (Linnaeus)	24 April - 10 August	F
	Attracted to light annually in small numbers up to 2024, e.g., between 16 May and 22 July 2017 a total of 16 individuals were recorded in ones or twos on 13 dates. There was a very late record to HQ light on 06 October 2021. Larvae often found in the Recording Area in August/September, e.g., a single larva recorded on Elm in The Elms on 14 August and 19 on Willow at New Downs New Pool on 15 August 2019 (SZW) and one in the Haven on 18 August 2024 (SZW).		
71.026 (2016)	Dusky Marbled Brown <i>Gluphisia crenata</i> (Bray)		R
	Bred in UK in mid-19 th century then no UK records until the first recent record as a migrant on the UK mainland in 2003. Recorded to HQ light on 16 June 2020 (SZW, photo).		
71.027 (2019)	Chocolate-tip <i>Clostera curtula</i> (Linnaeus)	04 April - 23 August	O
	Recorded at HQ light on 17 May 2004 and at HQ on 25 July 2008 (two). More numerous since 2009 when one-two at HQ light on 10 dates, with up to three on 22 dates in 2010, one-two on 21 dates in 2012, up to four on 20 dates in 2013, up to three on 19 dates in 2014, one-two on three dates in 2015, singles on seven dates in 2016 and one-two on 13 dates in 2017 including a very early one on 04 April (IDH). Recorded from 2008-2024.		
71.028 (2017)	Small Chocolate-tip <i>Clostera pigra</i> (Hufnagel)	Nat S	R
	Several specimens attracted to the lighted bungalow in August 1968 (DFH) and at HQ MV light on 11 August 1982 (IDH).		
71.029 (2018)	Scarce Chocolate-tip <i>Clostera anachoreta</i> (Denis & Schiffermüller)	VU Nat R	O
	Double brooded. Recorded in 1876, 1912 (Emmett, 1977), on 03 August 2005, 19 July 2007, on 21 July and daily from 27-31 July 2009 including three on 31 July. Up to three in August 2010, four singles in 2011 and 2012, one-two on five dates in 2013, four singles in 2014, singles on 29 August 2017 (IDH), 19 and 21 July 2018, 27 July 2019 and to HQ light on 07 August 2020 (SH/IDH).		

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- 72.001 (2469) **Herald Scoliopteryx libatrix** (Linnaeus) 15 March - early November O
Recorded in most years at light between 1967 and 2024, e.g., up to five were taken at HQ light in July 2009 and July 2013 and in 2016, 12 were recorded over eight nights with maxima of three on 15 July and 05 August. Mainly singles were recorded on 12 dates in 2017 and a similar pattern in 2018. Observed feeding on over ripe Blackberries in The Elms on 25 September 2021.
- 72.002 (2474) **Straw Dot Rivula sericealis** (Scopoli) 11 May – 09 November C
Recorded in 1969 and 1986 to 2024, e.g., maxima of 13-15 in 2009, 2010 and 2012, 30 in August 2013, 39 in August 2014 and 30 in June 2015. In 2016 211 were recorded over 64 nights between 04 June and 03 October with maxima of 11 on 22 June and 29 on 05 August. In 2017 between 16 May and 24 October 234 individuals were recorded over 86 dates with maxima of 15 on 16 June and ten on 04 August in the Whitehouse and ten on 19 July at HQ.
- 72.003 (2477) **Snout Hypena proboscidalis** (Linnaeus) 16 May – 09 November C
Regularly attracted to light up to 2024, e.g., up to ten in August 2009, 31 in September 2012, 21 in July 2015 and a maximum of 24 on 06 September 2016. In 2017 between 21 May and 29 September 248 individuals were recorded over 80 dates with a maximum of 16 on 22 August.
- 72.004 (2480) **Buttoned Snout Hypena rostralis** (Linnaeus) 05 May - 11 October O
Recorded at light on three nights between 11 and 18 September 1981, on 20 September 1982, 25 September 1985 and 01 June 1994 and on three dates between 17 July and 11 October 2013, on four dates in 2014 and two dates in 2015. An adult was bred from larvae collected from Hops in The Elms in spring 2014. None were recorded in 2016 and 2017. Singles were recorded at HQ light on 27 and 31 May 2018 (IDH & SZW). None recorded in 2019 or 2020. Singles recorded to light in the Whitehouse on 02 and at HQ on 11 June 2021. Singles recorded at light at HQ on 22 May (IDH) and in The Elms on 06 July (KB) 2022, at HQ on 09 June 2023 (GJL) and at HQ on 17 May and 03 June and in The Elms on 03 July 2024.
- 72.006 (2478) **Bloxworth Snout Hypena obsitalis** (Hübner) **Nat S** R
Immigrant but now resident along the south coast. First observed by the Field Centre rubbish bins on 26 September 2018 (SZW). Singles were seen around the HQ on 10 May (CJH) and recorded to light at HQ on 31 July 2022 (SH/IDH), in The Elms on 02 October 2023 (KB) and at HQ on 19 August and 04 September 2024 (IDH).
- 72.008 (2032) **Black V Moth Arctornis l-nigrum** (Müller) **RE** R
A very rare immigrant. A male was recorded to HQ light on 13 June 2020 (SH/IDH et al, photo)
- 72.009 (2031) **White Satin Moth Leucoma salicis** (Linnaeus) 03 June – 11 September O
Recorded up to 1988 then a single at HQ light on 17 July 2004, annual small numbers from 2011 to 2024, e.g., between 14 June and 14 July 2017 one-two were recorded on 12 nights.
- 72.010 (2033) **Black Arches Lymantria monacha** (Linnaeus) 18 July - 19 August R/O
Singles at HQ light on 11 August 2013, 20 July 2015 and 04 August 2016. In 2018 two were attracted to light at HQ on 21 July and singles to light in the Whitehouse on 03 August (FS) and at HQ on 07 and 19 August (SZW). Singles were attracted to light at HQ or Princes Beach on four nights between 23 July and 01 August 2019, at HQ on 18 July 2020 (SH/IDH), in The Elms area on 16 August 2021 (KB), on Princes Beach on 18 July 2022 (JC) and in The Elms on 06, at HQ on 09 and in The Elms on 19 August 2024.
- 72.011 (2034) **Gypsy Moth Lymantria dispar** (Linnaeus) **Naturalised** 30 July – 07 September O
Formerly resident in southern fens but extinct from 1900. Since 1995 a population, originating on the continent, has become resident in South East England feeding on deciduous trees. First recorded in the Recording Area on 03 August 2018, a male to light in the Whitehouse (FS). Recorded to light at Old Downs Farm on 02 August (DM/IDH) and at HQ on 03 August 2019 (SH/IDH), six at HQ and Restharrow Dunes over three dates between 07 and 12 August 2020, seven on the Estate and at HQ over four dates between 22 August and 06 September 2021, and singles on seven dates at HQ, in Middle Field or at Sandown Road between 31 July and 14 August 2022. Twenty-six individuals recorded to light at HQ or in Middle Field over 13 nights between 08 August and 01 September 2023. Twenty-one individuals recorded to light at HQ or in The Elms over 13 nights between 30 July and 07 September 2024 plus three first instar larvae on Guilford Road on 04 May (RL/PS/BH).

- 72.012 (2029) **Brown-tail** *Euproctis chryssorhoea* (Linnaeus) 19 June - 30 August C/Ab
Recorded at light annually in small numbers, but larvae abundant in most years, often defoliating whole bushes of Sea Buckthorn, Sloe and Hawthorn. The appearance of 51 at light on 26 June 2011 and 157 on 04 July 2015 were probably related to an emergence of adults nearby. Recorded up to 2024, e.g., in 2016 74 were recorded over 12 nights between 15 July and 12 August with a maximum of 18 on 15 July and in 2017 20 larval webs were counted in the Hundred Acre area on 03 April (SZW) and 43 Adults were recorded over 16 nights between 19 June and 16 August with a maximum of 11 in The Elms on 10 July (SZW). Ten larvae were identified on Princes Beach on 09 April 2021 and four on 11 May 2022. Up to 50 larvae were recorded across the wider Recording Area between 18 March and 03 May 2024.
- 72.013 (2030) **Yellow-tail** *Euproctis similis* (Fuessly) 22 June - 28 September F
Regular at light up to 2024, e.g., in 2017 one-two were recorded over 18 nights with late records on 26, 27 and 28 September. Larvae, which feed singly before pupating, are often found wandering and are not as damaging as the Brown-tail.
- 72.015 (2028) **Pale Tussock** *Calliteara pudibunda* (Linnaeus) 02 May - 27 June O
Recorded almost annually from 1984 to 2024, e.g., in 2017 there were singles on six dates in May and in 2018 14 individuals were recorded to light at HQ and on the Estate in ones or twos between 13 May and 15 June. A male of the dark form was attracted to HQ light on 12 June 2021. Three larvae were found in the Cellars in October 1988 and a single in The Elms on 25 August 2022.
- 72.017 (2026) **Vapourer** *Orgyia antiqua* (Linnaeus) 04 July - 02 November O
Larvae found occasionally including in Middle Field on 29 May 2024 (SR). Most records are of day flying adults recorded in The Elms in most years from 1972 to 2002. One was attracted to light at HQ light on 25 July 2009, with four singles in 2010 between 29 July and 01 October and up to five by day in October 2011; since then, recorded annually to 2024, e.g., in 2017 there were 11 sight records across the Recording Area on six dates between 17 August and 14 October and a similar pattern in 2018.
- 72.019 (2061) **Buff Ermine** *Spilosoma lutea* (Hufnagel) 29 April - 29 August F
Recorded up to 2024, e.g., in 2016, 65 were recorded over 33 nights between 02 June and 05 August with a maximum of five on 05 July and in 2017 101 recorded over 47 nights from 16 May with a maximum of 10 on 13 June. Two larvae were recorded in Sandown Road garden on 24 August 2024.
- 72.020 (2060) **White Ermine** *Spilosoma lubricipeda* (Linnaeus) 23 April - 22 August F
Often taken at light up to 2024 (up to 29 in June 2009). In 2017 150 individuals were recorded over 45 nights from 29 April to 24 June with maxima of ten in 29 and 30 May.
- 72.021 (2062) **Water Ermine** *Spilosoma urticae* (Esper) **Nat S** 04 May - 28 August O
A marshland insect, favouring boggy areas and ditches on Worth and New Downs. Up to three annually at light up to 2016. From 2017-2020 higher numbers e.g., in 2017 17 individuals were recorded at light on eight dates between 28 May and 21 June with maxima of 4 at HQ on 8 June and in the Whitehouse on 16 June and in 2018 singles were recorded on ten dates. Two singles were recorded in 2021, one on 23 June 2022 at HQ and four between 13 and 28 June 2023.
- 72.022 (2063) **Muslin Moth** *Diaphora mendica* (Clerck) 30 March – 26 September C
Small to moderate numbers regularly attracted to light up to 2024 (up to nine in May 2010 and 11 in May 2011). In 2017 64 individuals were recorded over 36 nights between 01 April and 24 May with maxima of six on 22 and 27 April and a larva was seen on the Estate on 12 October. A remarkable gynandromorphic individual was trapped on 09 May 2014, patterned as male on one side and female on the other. (photo JVDD).
- 72.023 (2059) **Clouded Buff** *Diacrisia sannio* (Linnaeus) R
A single on Royal Cinque Ports Golf Course on 25 June 1971 (DMB 1985), a very fresh male at HQ light on 03 September 2010 (PDH, JGCB), singles to HQ light on 02 June 2018 (SZW), 13 August 2022 (IDH) and 10 June and 17 August 2023 (both SH/IDH).
- 72.024 (2064) **Ruby Tiger** *Phragmatobia fuliginosa* (Linnaeus) 07 April - May, 24 June - 29 September F/C
Only occasional records of day-flying moths in April/May but second brood fairly common in the area and to light up to 2024, e.g., up to 22 in August 2009, 34 in August 2010 and 43 in July 2014, in 2016 113 were recorded over 34 nights between 07 July and 03 September with maxima of 12 on 15 and 26 July. In 2017 there were records of 142 individuals over 38 nights between 05 July and 27 September with a maximum of 29 on 15 July. A larva was identified in the Whitehouse on 28 June 2022 (SAA/SZW).

- 72.026 (2057) **Garden Tiger** *Arctia caja* (Linnaeus) **NT** 31 May - 06 September F/C
Fairly frequent at light up to 2024, e.g., peaks of 15-18 in July and August 2010, July 2013, July 2014 and July 2016 and in 2017 84 were recorded over 33 nights from 20 June to 16 August with a maximum of eight on 24 June. Full grown larvae often seen on Chickweed, Docks and other low weeds in April and May e.g., larvae were recorded in Hundred Acre on 21 May 2017 and 25 April 2018, a late individual on 15 June 2018 (AM et al), one at Roaring Gutter on 07 June 2020 and individual larvae on 20 April (Restharrow Scrape) and 11 (Princes Beach [three]) and 26 May (Princes Golf Course) 2022. Larvae identified across the wider Recording Area between 30 April and 11 July 2024.
- 72.027 (2058) **Cream-spot Tiger** *Arctia villica* (Linnaeus) 14 May - 29 June O/F
Attracted to light in most years up to 2024, e.g., up to four in June 2010, five in May 2014 and a total of 12 individuals in 2016. In 2017 28 individuals were recorded over 16 nights between 22 May and 08 June with a maximum of four on 29 May with a similar pattern in 2018. Much more frequent at the Point and Prince's Golf Course areas and full-grown larvae often seen in Spring, e.g., a larva recorded on 25 March 2017, at HQ on 05 May 2022 and one identified in Little Gully on 03 May 2024 entered pupation stage same date (RL/PS/BH).
- 72.029 (2068) **Scarlet Tiger** *Callimorpha dominula* (Linnaeus) R
Singles recorded at HQ light on 27 June 1994, 01 July 1994 and 09 July 2004. There were nearby colonies at Ham Fen and Kingsdown.
- 72.030 (2067) **Jersey Tiger** *Euplagia quadripunctaria* (Poda) 19 July – 07 September O
A recent colonist of southern England from mainland Europe and the Channel Islands, one was trapped at light in the Whitehouse on 02 August 2014 (FS) and a rather worn specimen on 05 September 2016. An individual of the form *lutescens* was attracted to light in the Whitehouse on 03 August 2018 (FS). Singles recorded at light at HQ on 31 July (DT), 05 and 24 August (SH/IDH) and at St Georges bushes on 01 August 2019 (CM). Eight individuals recorded over four nights to light at HQ and across the Estate between 09 and 12 August with a maximum of three on 11 August 2020. 15 attracted to light on the Estate and at HQ over 11 dates between 08 August and 01 September 2021. Annual in small numbers from 2018 to 2024.
- 72.031 (2069) **Cinnabar** *Tyria jacobaeae* (Linnaeus) 13 April - 10 August C
Common on Ragwort and adults commonly encountered over the dune grassland, with small to moderate numbers attracted to light up to 2024, e.g., up to 19 in May and 17 in August 2010 and in 2017 there were 74 individuals recorded over 28 dates in the field and to HQ light between 20 April and 18 June with a maximum sight record 15 on the Estate on 01 June. 100 larvae were recorded in Restharrow Dunes Reserve on 29 June 2018.
- 72.032 (2053) **Speckled Footman** *Coscinia cribraria* (Linnaeus) **CR Nat R** R
Coscinia cribraria arenaria was recorded in July 1914 (Metcalf, 1914), 1922, 1934 and 07 August 1937 (Bowes, 1961). There were no recent records of this species until a single at HQ light on 24 June 2019 (IDH) and another on 17 June 2022 (KR).
- 72.034 (2054) **Crimson Speckled** *Utetheisa pulchella* (Linnaeus) **Migrant** R
Recorded to light at HQ on 24 October 2022 (GJL/SH/IDH).
- 72.035 (2037) **Rosy Footman** *Mitochrista miniata* (Forster) 16 June - 05 September F
Recorded at MV light on 13 and 15 July 1994, then annually in small numbers from 2009 to 2024, e.g., in 2017 singles were recorded on five dates between 16 June and 16 July and in 2018 20 individuals were recorded over 11 nights to light on the Estate and at HQ between 12 July and 01 September with a maximum of eight on 13 July in the Whitehouse.
- 72.037 (2035) **Round-winged Muslin** *Thumatha senex* (Hübner) 10 June – 03 September O
Recorded at light in most years from 1982 to 2024, e.g., 17 individuals were recorded over 11 nights from 16 June to 16 July 2017 and 30 recorded over 21 nights between 14 June and 24 July with a maximum of five on 21 July 2019.
- 72.038 (2040) **Four-dotted Footman** *Cybosia mesomella* (Linnaeus) R
The first record was on 23 June 2006 (MH). One at HQ light on 08 July 2010, two on 23 June 2014 (JGCB), a male on 20 June and a female on 26 September 2017 (IDH), singles to light in the Oasis on 25 June 2020 (AM/DS) and at HQ on 12 June 2022.
- 72.039 (2041) **Dotted Footman** *Pelosia muscerda* (Hufnagel) **NT Nat R** R
A marshland species that used to occur over Worth. Recorded in 1911 (Chalmers-Hunt) and at MV light on 19 August 1997 and 19 August 2012 and 30 June 2019 (SH/IDH).

- 72.041 (2051) **Four-spotted Footman** *Lithosia quadra* (Linnaeus) 20 June – 08 October R
A migrant, recorded for the first time on 08 October 2013 (F) (JGCB), on 02 August 2014 (F) (JGCB, FS), on 20 June 2017 (IDH), to light in the Oasis on 31 July 2021 (SBI&GN) and in the Whitehouse on 20 July 2022 (GJL/SZW). Seven individuals attracted to light at HQ over four nights between 24 July and 19 September 2024.
- 72.042 (2039) **Red-necked Footman** *Atolmis rubricollis* (Linnaeus) 29 May - 09 July R
First recorded in 2010, with singles on 27 & 29 June, three on 07 July and one on 09 July. Subsequently, singles on 07 July 2013, 12 June 2014, a total of 11 in 2015, including four on 04 July, an early single on 29 May 2017 (SZW), a single in the Oasis on 30 June 2019 (PF), two singles to light on 25 June 2020 – one in the Oasis (AM/DS) and one at HQ (IDH), a single to light at HQ on 17 June 2022 (KR), four individuals to light at HQ or Jubilee Field on three nights between 10 and 13 June 2023 and a single at HQ on 04 July 2024 (IDH).
- 72.043 (2049) **Buff Footman** *Eilema depressa* (Esper) 01 July - 21 August O
One at HQ light on 13 July 2012 then small numbers annually from 2013 to 2016. None were recorded in 2017. A single was recorded to light in the Whitehouse on 13 July 2018 (FS). Singles recorded on four dates between 25 July and 07 August 2019. Nine individuals were recorded to light at HQ on 17, 20 and 20 July 2020 (IDH/KB). After none in 2021, six individuals were recorded to light at HQ, on the Estate or on the beach over four nights between 06 and 28 July 2022 and two in Middle Field on 20 and singles at HQ on 21 August 2023 and 01 July 2024 (IDH).
- 72.044 (2044) **Dingy Footman** *Eilema griseola* (Hübner) 29 May – 02 October C
Small to moderate numbers annually at light from 1975 to 2024, e.g., up to 29 in July 2010, 44 in August 2012, 48 in August 2013 and July 2014 and a maximum of 24 on 25 July 2016. 240 individuals were recorded over 55 dates between 07 July and 04 September 2017 including a maximum of 20 on 19 July and a similar pattern in 2018 and 2019. Individuals of the form *stramineola* were recorded at HQ light on 23 July 2019, 16 August 2020 (SH/IDH), 10 August 2021 and 11 July and 04 August 2022.
- 72.045 (2050) **Common Footman** *Eilema lurideola* (Zincken), 08 May - 09 September C
A common species regular at light up to 2024, e.g., up to 87 in July 2010, 45 in July 2011, 52 in July 2012, 144 in July 2013 and 89 in July 2014. In 2017 between 01 June and 31 July 160 individuals were recorded over 36 nights with a maximum of 16 on 10 July.
- 72.046 (2047) **Scarce Footman** *Eilema complana* (Linnaeus) 24 May - 23 September C
Small to moderate numbers attracted to light in most years. Commoner since 2000, with small to moderate numbers annually from 2009 to 2024, including peak counts of 36 in July 2010, 29 in August 2013, 22 in July 2014 and 19 in July 2016. 197 individuals were recorded on 42 dates between 07 July and 08 September 2017 with a maximum count of 26 on 14 July. A larva was recorded by Restharrow Scrape on 04 May 2020 (SZW)
- 72.047 (2045) **Hoary Footman** *Eilema caniola* (Hübner) 09 May - 28 October O
Singles at HQ light on 23 August 2012 (FS), 21 June 2014 (JGCB), Recorded annually to light at HQ, on the Estate or at Sandown Road from 2017 – 2024 including: in the Whitehouse on 04 August 2017 (FS), a late individual at HQ light on 02 October 2018 (SH/IDH), singles to HQ light on 27 May and 01 June 2019 and seven individuals to light across the Estate and at Sandown Road on six dates between 21 May and 15 September 2020. 52 individuals were attracted to light at HQ, on the Estate and at Sandown Road over 25 dates between 08 June and 26 September 2021 with a maximum of eight at HQ on 14 September.
- 72.048 (2046) **Pigmy Footman** *Eilema pygmaeola ssp pygmaeola* (Doubleday) **NT Nat R** 03 June - 20 August O/F
A local speciality and known as the "Deal Footman". Still not uncommon in dune slacks and damper areas and small to moderate numbers attracted to light most years up to 2024, e.g., up to 21 in July 2010 and between 19 June and 21 July 2017 mainly singles were recorded over nine nights at HQ light and across the Estate area, 30 recorded over 20 dates between 22 June and 07 August 2019 with a maximum of six in the Whitehouse on 12 July. Singles of *ssp pallifrons*, mainly restricted to the Dungeness area, were recorded at HQ light on 25 July 2020 (SH/IDH), on five nights in late July 2021 with a maximum of six on 18 July and on 08 July 2022. Larvae were collected from lichen-encrusted bollards on Royal St. George's Golf Course in June 1978.
- 72.049 (2043) **Orange Footman** *Eilema sororcula* (Hufnagel) 30 April - 27 June O
A woodland species, recorded in the Whitehouse area in May/June 1971 and in small numbers annually at HQ light from 2010 to 2024, e.g., in 2017 singles were recorded at HQ light on 17 and 29 May. In 2020 singles were recorded on 19 and 20 May at Sandown Road. Ten individuals were attracted to light at HQ or in The Elms over eight nights between 11 May and 22 June 2024.

- 72.052 (2493) **Dotted Fan-foot** *Macrochilo cribrumalis* (Hübner) 25 May - 29 August O
A very local species recorded on the Estate between 11 June – 14 July in 1980 (two), 1993, 1994, 1995 (three), 2001 (two), 2003 and 2005 (TD). Found to be regular since 2009, with small numbers annually to 2020, e.g., between 10 June and 29 August 2017 mainly singles were recorded over five dates. None were recorded in 2021. Singles were recorded to light on 29 June and 05 July 2022 and in Whitehouse on 12 and at HQ on 25 June and 21 August 2023 and in 2024 12 individuals were attracted to light at HQ and across the Estate over five nights between 19 June and 06 July.
- 72.053 (2489) **Fan-foot** *Herminia tarsipennalis* (Treitschke) 14 June - 12 August O
There were seven records from 1982 -2000 and five from 2003 - 2006, then annual in small numbers from 2009-2020. Four singles were recorded between 16 June and 16 July 2017. None were recorded in 2021. Fifteen individuals were recorded to light over eight nights at HQ or on the Estate between 22 June and 24 July 2022 and five over four nights at HQ between 08 July and 18 August 2023 and a similar pattern in 2024.
- 72.055 (2492) **Small Fan-foot** *Herminia grisealis* (Denis & Schiffermüller) 18 May - 17 September O
Sporadic records from 1985 to 2010 (four singles in 2010), 2014 (up to three in June), 2015 (three singles in July), a single record on 16 June 2016, singles in the Whitehouse on 24 May and in The Elms on 16 June 2017 and a single attracted to light in The Elms on 15 June 2018 (AM et al). None were recorded in 2019 or 2020. Singles were attracted to light in The Elms area on 08 September 2021 (KB), on 03 July 2022 and on 23 June 2024.
- 72.057 (2488a) **Plumed Fan-foot** *Pechipogo plumigeralis* (Hübner) 09 July - 15 October O
Formerly a rare immigrant to the south-east of England, first recorded in the UK in 1995, it has probably now formed small colonies along the south coast. One at HQ light on 26 July 2014 (JGCB) was the first Observatory record. Small numbers were attracted to light at HQ, on the Estate or at Sandown Road annually from 2017 to 2024 including a single on 09 July and four on 25 September 2017, six on 03 August and 15 October 2018, singles on five dates between 12 July and 03 August 2019 (IDH et al), six individuals on five dates between 25 July and 12 August 2020, on 20 July and 01 August 2021 (IDH) and 15 over six nights between 11 July and 23 August 2022.
- 72.061 (2484) **Pinion-streaked Snout** *Schrankia costaestrigalis* (Stephens) 27 May - 16 October O
Singles at HQ light on 06 September 2009 and annual in small numbers from 2012 to 2015. None were recorded in 2016. Singles were recorded on three dates in August and a late individual on 08 October 2017. In 2018 singles were recorded on the Estate on 27 May, 03 August and 16 October. Singles were attracted to HQ light on 03 June (SZW, F gen det TD) and 15 September 2019 (SH/IDH). None were recorded in 2020. Singles were recorded to light at HQ on 19 September 2021, in the Haven on 12 July 2022, at HQ or in The Elms over five nights between 20 June and 01 September 2023 with a similar pattern in 2024.
- 72.063 (2466) **Blackneck** *Lygephila pastinum* (Treitschke) **NT** 29 May - 28 August O
First recorded in July 1967 and occasional at light since 1981. Annual in small to moderate numbers between 2009 and 2024, including cumulative totals of 36 in 2009, including 14 in the Whitehouse on 25 June and 11 at HQ light on 02 July, 15 in 2010, 20 in 2013, 21 in 2015, nine in 2016 and 14 in 2017.
- 72.066 (2475) **Waved Black** *Parascotia fuliginaria* (Linnaeus) R
First recorded to light at HQ on 16 July 2021 (IDH).
- 72.067 (2470) **Small Purple-barred** *Phytometra viridaria* (Clerck) R
One was reported to be found in a trap in the reed bed next to the Observatory on 23 August 2008 (P&PH). A single was recorded to HQ light on 14 July 2020 (IDH).
- 72.069 (2473) **Beautiful Hook-tip** *Laspeyria flexula* (Denis & Schiffermüller) 22 May – 09 November O
Formerly recorded in a single generation late June to early August but in recent years there has been a second generation in the south in August to September. Singles recorded in Slazengers on 03 July 1976, at HQ light on 14 July 1985 and annual from 2014 to 2024, e.g., singles on 23 June 2014, at HQ light on 17 June and six in Prince's conifers on 04 July 2015. In 2016 singles were recorded at HQ light on 17 and 21 July and 18 September. 2017 singles were recorded on 27 May, 09 July and 14 and 25 September. In 2018 17 individuals were recorded to light across the Estate in the early period with a maximum of five on 31 May at HQ.
- 72.073 (2408) **Small Marbled** *Eublemma parva* (Hübner) R
An occasional migrant from S Europe, recorded for the first time at HQ light on 20 June 2013, with one on 29 August 2015 (FS) swept from Fleabane in the Whitehouse and a single attracted to light in The Elms on 22 June 2022 (KB).
- 72.074 (2407a) **Beautiful Marbled** *Eublemma purpurina* (Denis & Schiffermüller) 16 May - 09 September R/O
A migrant from the European mainland, first recorded in Britain in 2001. Recorded at HQ light on 26 August 2015 (JK), 22 August 2017 (IDH), 17 August 2018 (SH/IDH), 27 August 2019 (SZW), 15 and 17 August 2020 (SH/IDH), 18 June and 09 and 14 September 2021 and 16 May 2022 (CJH/SZW).

- 72.076 (2451) **Clifton Nonpareil** *Catocala fraxini* (Linnaeus) 13 August - 01 October R
Formerly resident in certain parts of Kent and Norfolk during the middle part of the 20th century, but it became extinct as a breeding species and for many years was only recorded as an occasional immigrant. In recent years it has been increasing again and is now considered to be recolonising some southern counties. Singles recorded to light at HQ on 14 and 19 September and 01 October 2018 (IDH), on 13 August 2020, 04 September 2021 (IDH), a male on Princes Beach on 22 September 2022 (JC) and at HQ on 05 September and 09 November 2024.
- 72.078 (2452) **Red Underwing** *Catocala nupta* (Linnaeus) 19 July - 19 October O
Attracted to the MV light or found resting on walls in most years up to 2024, e.g., up to four at light in August 2009 and up to six in September 2012. In 2017 five individuals were attracted to light on four dates mainly in September and there were two field records including a single on 19 October (SZW). In 2018 singles were attracted to light on the Estate and at HQ on nine dates between 29 July and 04 October. 31 individuals were recorded to light at HQ and in The Elms and Whitehouse and observed in the field on 16 occasions between 24 July and 22 September including four or five on the Field Centre building on four dates between 21 and 26 August 2020. In 2024 individuals were attracted to light in The Elms on 19 and six observed around the walls of the Field Centre on 26 August, attracted to light at HQ on 14 and observed near HQ on 16 September.
- 72.081 (2455) **Dark Crimson Underwing** *Catocala sponsa* (Linnaeus) **NT Nat R** R
An occasional migrant species also recorded as breeding in Kent and other southern counties. Recorded at HQ light on 23 (IDH) and 30 July (DT) and in the Whitehouse on 02 August 2019 (FS).
- 72.082 (2454) **Light Crimson Underwing** *Catocala promissa* (Denis & Schiffermüller) **NT Nat R** R
A rare species only found in southern England. Recorded to light in the Oasis on 25 June 2020 (SW/IDH, photo).
- 72.083 (2463) **Burnet Companion** *Euclidia glyphica* (Linnaeus) R
One seen on St George's on 29 May 1995 by ACJ, one seen in the Oasis very close to the Whitehouse fence on 21 June 2016 (AML) and singles observed in the Whitehouse on 19 May (SZW), in Middle Field on 12 June 2020 (AML), in the Whitehouse on 12 June 2022 (SZW) and 23 June 2024 (FS).
- 72.084 (2462) **Mother Shipton** *Callistege mi* (Clerck) 03 April - 22 June O
Singles seen occasionally on the rough golf course grassland and elsewhere on the Estate in many years between 1964 and 2024. Notably, ten were recorded in 2009, including singles in Middle Field, New Downs New Pool, St. George's bushes and the North Stream, with three along the foreshore from Prince's to the Hundred Acre Field on 25 May and on New Downs (including Backsand Scrape) on 18 June. Eleven were found in 2010, in much the same areas. In 2017 six individuals were reported by several observers on five dates across the wider Recording Area from 17 May to 19 June. Larvae were swept from grassland along Prince's upper beach on 02 September 1998.
- NOCTUIDAE**
- 73.001 (2450) **Spectacle** *Abrostola tripartita* (Linnaeus) 14 April - 28 September F
Recorded at light annually up to 2024. Late individuals recorded on 18 October and 13 November in 2012. In 2016 45 were recorded over 32 nights between 09 May and 26 August with a maximum of six on 15 July plus an early sight record at the Observatory building on 20 April. In 2017 47 individuals were recorded over 30 nights between 27 April and 09 September with maxima of four on 24 and 29 August.
- 73.002 (2449) **Dark Spectacle** *Abrostola triplasia* (Linnaeus) 23 April - 07 October O
Recorded at light on 17 August 1969 (Chalmers-Hunt), 1998 (three) and 2003. Recorded annually to 2024, e.g., a total of 17 individuals to HQ light in 2016 and 28 individuals recorded on 19 nights between 14 June and 25 September 2017, maxima of three on 29 August and 04 September.
- 73.003 (2432) **Ni Moth** *Trichoplusia ni* (Hübner) **Migrant** R
A migrant from S Europe and N Africa. The first record was from MH on 24 June 2006 and singles were recorded at HQ light on 11 (PDH) and 19 August 2009 (PDH, JGCB), 28 August 2017 (IDH) and 21 October 2022 (IDH).

- 73.008 (2428) **Golden Twin-spot** *Chrysodeixis chalcites* (Esper) **Migrant** 09 June - 07 November C
A migrant from S Europe sometimes adventive. One was recorded at HQ light on 13 September 1991 (twenty-third record for Britain) with another trapped on the golf course on 18 August 2002 and singles at HQ light on 22 and 25 October 2012, on three dates in 2013, on six dates in 2014, singles (clearly different individuals) on 12 and 13 August 2016, on 13 October 2017 (SZW) and seven singles recorded from 03 August to 15 October 2018. 21 individuals recorded to light at HQ and in the Whitehouse over 17 dates between 01 July and 04 October with maxima of three on 27 and 28 August 2019. It was thought to be resident in the area with 122 individuals recorded over 39 dates to light, mainly at HQ, between 26 July and 15 September with a maximum of 17 on 14 August 2020. However, there was only a single late record to HQ light on 07 November 2021. In 2022 singles were recorded to light in Middle Field on 25 July and 04 August (KB) and to light at HQ on 11 October 2023. Eight individuals were recorded to light at HQ or in the Whitehouse over five nights between 09 June and 08 September 2024.
- 73.010 (2436) **Dewick's Plusia** *Macdunnoughia confuse* (Stephens) 11 July - 29 October R
Rare vagrant and likely colonist. Singles recorded at HQ light on 20 July 2018 (SZW), 11 July 2019 (SH/IDH), 20 September 2020, on 21 July, 08 and 17 September and 14 October plus a sighting at Sandown Road on 10 October 2021. In 2022 singles were recorded to light at HQ on 20, 27 and 31 July and on 29 October at Sandown Road and at HQ on 06 October 2023 and 12 August 2024.
- 73.012 (2434) **Burnished Brass** *Diachrysis chrysitis* (Linnaeus) 08 May - 24 October F
Recorded at HQ in 1967 and annual at light between 1975 and 2024, e.g., in 2017 36 individuals were recorded over 25 nights between 23 May and 24 October with a maximum of three on 23 August.
- 73.015 (2441) **Silver Y** *Autographa gamma* (Linnaeus) 09 March - 04 December C/Ab
An erratic immigrant species, supplemented by local breeding, recorded up to 2024, e.g., up to 377 in July 2010, maxima of 590 (sight record on 24 July) and 133 to HQ light on 27 August 2016. In 2017 317 individuals were recorded over 97 dates between 21 April and 02 November with a maximum of 41 on 19 July. Outside the usual season for migrants, one was recorded on 02 March 2012. A larva was identified in the Observatory garden on Echium on 13 September 2021 (RJD/SZW).
- 73.016 (2442) **Beautiful Golden Y** *Autographa pulchrina* (Haworth) 25 May – 24 August R
Uncommon with one or two specimens recorded in May, June and July in eight years from 1975 to 25 May 2011. Singles were attracted to light at HQ on 08 June 2022 (SH/IDH), 24 August 2023 (SZW) and 24 July 2024 (SH/IDH).
- 73.017 (2443) **Plain Golden Y** *Autographa jota* (Linnaeus) 25 June - 18 July R
Singles recorded in 12 years from 1976 – 2014, including singles to light on 25 June 2009 at HQ (JGCB) and Whitehouse (FS), at HQ on 18 July 2010 (JGCB) and 08 July 2014 (JGCB).
- 73.021 (2447) **Scarce Silver Y** *Syngrapha interrogationis* (Linnaeus) R
First recorded to light at HQ on 16 July 2021 (IDH).
- 73.022 (2439) **Gold Spot** *Plusia festucae* (Linnaeus) 09 May - 29 October C
Attracted to light almost annually between 1982 and 2024, e.g., in 2016 94 were recorded over 38 nights between 10 May and 29 September with a maximum of 11 on 05 August. 47 individuals were recorded in 2017 in ones to threes over 31 nights between 16 May and 18 October 2017.
- 73.024 (2410) **Marbled White Spot** *Protodeltote pygarga* (Hufnagel.) 24 May - 22 July O
One taken in Slazengers on 03 July 1976, two in The Elms on 24 May 2005, two at HQ light on 25 June 2009, singles on 08 June and 10 and 12 July 2010, 15 and 22 July 2013, 14 June 2014 and five in 2015, including four at light on Prince's on 04 July. On 16 June 2017 there were three individuals to light in the Whitehouse (FS) and a single in The Elms (SZW). Singles recorded to light on the Estate on 27 May and 15 June 2018, in Restharrow Dunes on 06 July 2019, at HQ on 09 July 2021 and on 17 (2), and 23 June and 04 July 2022 (IDH et al).
- 73.026 (2412) **Silver Hook** *Deltote uncula* (Clerck) R
The only record is a single moth found on Yellow Flag on Worth Marshes on 06 June 1980 (DMB).
- 73.027 (2413) **Silver Barred** *Deltote bankiana* (Fabricius) **NT Nat R** 14 May - 31 July O
Singles on the Estate on 06 June 1980, 11 June and 03 July 1993, 08 July 1994, 04 July 1995, 26 June 2001 and annually in small numbers from 2009 to 2020, e.g., in 2017 singles were recorded at HQ light on four dates between 01 June and 10 July and two were recorded in the Whitehouse on 16 June (FS). None were recorded in 2021. In 2022 15 individuals were recorded to light at HQ or on the Estate over ten nights between 14 May and 20 July. In June 2023 eight individuals were recorded over four dates either to light at HQ or observed at Chequers or on Royal St. George's Golf Course. Eighteen individuals, mainly singles, were recorded to light at HQ or across the Estate over seven nights between 23 June and 31 July with a maximum of 11 on 04 July in the Whitehouse.

- 73.028 (2415) **Pale Shoulder** *Acontia lucida* (Hufnagel) R
A rare migrant to the south coast. Recorded by the feeders at HQ on 01 August 2019 (DT/IDH) and at Coachman's Cottage, Old Downs Farm on 10 August 2020 (VA confirmed SZW, photo).
- 73.031 (2465) **Four-spotted** *Tyta luctuosa* (Denis & Schiffermüller) **NT Nat R** R
One at HQ light on 10 August 2009 (PDH, AP) and a single to light on the beach on 09 August 2020 (RoW/SZW).
- 73.032 (2425) **Nut-tree Tussock** *Colocasia coryli* (Linnaeus) 30 March - 05 August O
Singles to light at HQ on 31 July and 03 August 1987, 13 July 1995, 16 and 24 April 2002, 25 and 28 April 2010, daily from 03-05 August 2013, on three dates in 2014, in April and August, on 06 May 2016 (IDH), on 30 March and 17 July 2017, in the Whitehouse on 03 August 2018 (FS), at HQ on 22 and 23 July 2019, on 21 and 25 July, at Sandown Road on 22 July 2021 and at HQ on 03 and 04 April 2022 and in The Elms on 14 April and at HQ on 02 August 2024.
- 73.033 (2020) **Figure of Eight** *Diloba caeruleocephala* (Linnaeus) **EN** x
Recorded annually in October from 1982 to 1986 and in 1995. Recorded to light at HQ on 02 July 2009 (JGCB) but none since.
- 73.035 (2290) **Reed Dagger** *Simyra albovenosa* (Goeze) **Nat S** 23 April - 01 October F/O
Several recorded at Worth in 1969 and 1971 but first recorded at HQ light in 1989. This formerly very local species is increasing and cumulative totals include 33 in 2005, 44 in 2009, 46 in 2010, 33 in 2011, 60 in 2012, 80 in 2013, but only eight in 2015, 11 in 2016, seven in 2017 and then a resurgence to 34 in 2018. 40 individuals were recorded to light at HQ and the beaches over 21 dates between 22 July and 24 August 2019. Recorded annually from 2015 to 2024. A larva was identified on Worth on 16 September 2023 (RD/SZW).
- 73.036 (2281) **Alder Moth** *Acronicta alni* (Linnaeus) R
Recorded to light at HQ on 07 July 2024 (MG&LN/IDH)
- 73.0381 (2284x) **Grey/Dark Dagger agg** 17 April – 28 August O
Recorded up to 2024. This complex requires gen det to separate. Up to three Grey/Dark Dagger were recorded on 17 dates from 26 July – 23 August in 2009 and cumulative totals of 73 in 2010 and 72 in 2013 seem to be fairly typical. In 2016 14 individuals were recorded over 13 nights between 07 July and 27 August. Mainly singles were recorded in 2017 with 22 individuals recorded over 16 nights between 17 April and 28 August with a maximum of five on 10 July.
- 73.037 (2283) **Dark Dagger** *Acronicta tridens* (Denis & Schiffermüller) R
Dark Dagger larvae were found on 06 October 1987 (MBo, MC) and 14 September and 07 October 2021 in the Observatory garden (RJD and SZW) and a single adult was attracted to light in the Whitehouse on 17 July 2020 (MB gen det).
- 73.038 (2284) **Grey Dagger** *Acronicta psi* (Linnaeus) R
Grey Dagger larvae were found on Elms near the Cellars on 01 September 2011, on Elms on 20 September 2012 (TD), in the Haven in August 2013, in Restharrow Dunes on 01 July 2018 and in the Oasis on 18 August 2019 (SAA/SZW), at HQ on 28 September 2020 (IDH) and in The Elms on 25 September 2021. A single adult on 15 June 2017 to HQ light (gen det DS) and a male to light at Princes Beach on 25 June 2020 (NHM gen det).
- 73.039 (2279) **Sycamore** *Acronicta aceris* (Linnaeus) 21 May - 13 August O
Almost annual at light in small numbers from 1981 to 2015. After a year with no records in 2016, a single was recorded on 20 June 2017 (IDH) and in 2018 four singles were recorded to light on the Estate and at HQ in mid July. From then until 2024 a very small number attracted annually to light at HQ, on the Estate or at Sandown Road.
- 73.040 (2280) **Miller** *Acronicta leporina* (Linnaeus) 29 May – 09 August O
Singles recorded at light in 1976, 1991, 1992, 1993, 1995, 2001 (four), 2002, 2004 and 2005, then annually in very small numbers from 2009 to 2015 and from 2017 to 2024 e.g. 21 individuals were recorded to light at HQ or on Princes Beach over nine nights between 29 May and 18 July 2022.
- 73.045 (2289) **Knot Grass** *Acronicta rumicis* (Linnaeus) 09 March - 08 October F
Small numbers recorded annually at HQ light up to 2024, e.g., between 11 May and 02 October 2017 23 individuals were recorded over 16 nights with maxima of three on 10, 14 and 15 July.
- 73.046 (2278) **Poplar Grey** *Subacronicta megacephala* (Denis & Schiffermüller) 20 April – 21 September F
Recorded annually between 1980 and 2024, e.g., up to eight-nine in July 2010 and July 2014. In 2016 31 individuals were recorded over 21 nights between 11 May and 30 July. Between 23 May and 04 August 2017 18 individuals were recorded over 13 nights with maxima of three on 14 and 24 June.

- 73.047 (2291) **Coronet *Craniophora ligustri*** (Denis & Schiffermüller) 06 May - 31 August O
Singles caught at HQ light on 27 July 2002, 06 and 13 May and 07 August 2009, then small numbers annually from 2011 to 2024, e.g., a total of 11 individuals in 2016 and seven in 2017.
- 73.048 (2397) **Small Yellow Underwing *Panemeria tenebrata*** (Scopoli) R
Recorded to light at HQ on 21 June 2001 (DMB). Six adults were observed in the Jubilee Field over four dates between 13 May and 07 June 2021 (MBou, AML, SR, SZW et al), on 14 May 2022 (MBou), on 10 June 2023 (MBou) and two on 13 May 2024 (Mbo/SZW).
- 73.050 (2211) **Wormwood *Cucullia absinthii*** (Linnaeus) **Nat S** 08 July - 18 August O
Recorded on 06 August 1998 and at HQ light on 21 July 2009, 18 August 2012 and 28 July and 01 and 05 August 2013, 27 and 30 July and 07 August 2016 (IDH), 27 July and 01 August 2017, 26 July 2018, 23 July 2019 (JF confirmed IDH), in the Whitehouse on 17 July 2020 and at HQ on 23 and 24 July 2021. Eight individuals were recorded to light at HQ or in the Haven over six nights between 08 July and 03 August with a maximum of three in the Haven on 24 July 2022 (FS) and a single to light at HQ on 15 July 2024.
- 73.052 (2216) **Shark *Cucullia umbratica*** (Linnaeus) 09 May - 08 September F
Found resting on fence posts on the Estate in June-July. Recorded at light in small numbers up to 2024, e.g., up to six in July 2010. In 2016 21 individuals were recorded over 13 nights between 11 June and 07 August and in 2017 27 individuals were recorded over 24 nights with a maximum of three on 24 July.
- 73.053 (2214) **Chamomile Shark *Cucullia chamomillae*** (Denis & Schiffermüller) 04 April - 08 June O
Singles in 1988 and 1992 but almost annual in small numbers between 2001 and 2014. The next records were singles to HQ light on 25 May, 05 June (IDH) and 04 July 2019 (ME) and none since.
- 73.055 (2217) **Star-wort *Cucullia asteris*** (Denis & Schiffermüller) **Nat S** 28 June - 11 September O
Small numbers at light in 1980, 1986, 1989, 1991 and 2006 then annually from 2009 to 2019. A single on 01 August was the only record in 2017 and two singles in 2018. In 2019 eight individuals were recorded to light on the Estate and at HQ including a female at HQ on 02 July (IDH gen det TD). None were recorded in 2020. A single was recorded to light at HQ on 25 August 2021 and at HQ on 08 (IDH) and in the Haven (FS) on 12 July 2022. Two larvae were observed in the Hundred Acre on 15 September 2019 (SR/SZW).
- 73.058 (2221) **Mullein *Cucullia verbasci*** (Linnaeus) 06 April - 22 June O
Most frequently found as larvae in July and August feeding on Great Mullein growing around the Estate. In 2017 the only record was of two larvae on 12 June (SZW). In 2018 an adult was recorded on 13 May at HQ light and larvae were observed on Water Figwort in Waldershare Gully on 20 June (CW). Singles were recorded to HQ light on 01 May and observed at HQ on 30 May 2019. Larvae were recorded at Sandown Road on 08 June and on the Estate on 25 June and five adults were recorded on the Estate on 24 May 2020. None were recorded in 2021. A single was attracted to light at HQ on 19 April 2022 and singles on four nights between 12 April and 13 May 2024. Nine larvae were identified on Mullein on 30 May 2024 in the Observatory garden.
- 73.059 (2223) **Toadflax Brocade *Calophasia lunula*** (Hufner) R
Formerly regarded as a rare immigrant but now resident in the south-east of England. Recorded at light on 12 June 1983 and 15 August 2010 and in the Whitehouse on 22 May, on the bank of the North Stream on 27 May 2012, near the shore on 01 August 2013 and at light on 22 July 2014. A larva was identified in the field on 04 September 2016. An observation in the field was recorded on 23 July 2017 (SZW). Seven larvae were recorded on Purple Toadflax in the Observatory garden on 31 August and three on Common Toadflax on the Worth Track on 04 September 2020, one on Purple Toadflax on New Downs on 15 July 2021 (SZW), on 13 (2) and 21 June on Purple Toadflax in the Observatory garden and two at Sandown Road on 09 September 2022 and 14 in the Observatory garden on 06 September 2023.
- 73.062 (2297) **Copper Underwing *Amphipyra pyramidea*** (Linnaeus) 05 July - 17 October O
Annual in small numbers from 1975 to 2024, e.g., between 20 July and 08 September 2017 18 individuals were recorded in ones or twos over 13 nights. A larva was identified in The Elms on 04 May 2024 (RL/PS/BH).
- 73.063 (2298) **Svensson's Copper Underwing *Amphipyra berbera*** (Fletcher) R
Singles were attracted to light at HQ on 30 July 2014 (IDH), 30 July 2018 (IDH), in the Whitehouse on 17 July 2020 (MB), at HQ on 10 and 31 August 2021 (IDH), at Sandown Road on 14 August 2022 (IDH) and at HQ on 23 August 2023 (SH/IDH).
- 73.064 (2299) **Mouse Moth *Amphipyra tragopogonis*** (Clerck) **VU** 26 June - 26 October O
Recorded at the HQ light up to 2023, e.g., up to nine in July 2009, seven in August 2011 and 19 in August 2012. Between 14 July and 17 September 2017 29 individuals were recorded over 19 nights with maxima of three on two nights in July.

- 73.065 (2227) **The Sprawler** *Asteroscopus sphinx* (Hufnagel) **VU** R
Recorded at HQ on 14 November 2018 (SZW) and 23 November 2019 (IDH).
- 73.068 (2245) **Green-brindled Crescent** *Allophyes oxyacanthae* (Linnaeus) 25 September - 09 November O
Frequent at Ivy blossom around Sandwich in October but scarcer at the Bay with up to ten (in October 2011). Recorded annually to 2024, e.g., in 2016 22 individuals were recorded over 15 nights between 02 October and 04 November. The 2017 total of 18 individuals were recorded over 15 nights between 09 and 27 October. In October 2020 nine individuals were recorded to light at HQ or in The Elms over five nights. Six larvae were identified on Guilford Road on 04 May 2024 (RL/PS/BH)
- 73.069 (2243) **Early Grey** *Xylocampa areola* (Esper) 15 February - 26 May O
Recorded annually up to 2024, e.g., in 2016 19 individuals were recorded over 14 nights between 23 March and 10 May. Between 10 March and 28 April 2017 25 individuals were recorded in ones or twos. A late individual was identified at HQ light on 07 August 2022 (IDH).
- 73.070 (2399) **Bordered Sallow** *Pyrrhia umbra* (Hufnagel). 16 May - 18 September O
First recorded in 1967 and recorded annually at light between 1981 and 2024, e.g., between 22 May and 16 June 2017 singles were recorded on six nights.
- 73.072 (2401) **Marbled Clover** *Heliothis viroplaca* (Hufnagel) **Nat S** R
Suspected immigrants were recorded on 13 June 1904 and 03 June 1905 (Chalmers-Hunt) and one at Sandown Road on 02 September 1990 (IDH). The next record was of a single on 01 August 2019 (IDH, photo).
- 73.074 (2403) **Bordered Straw** *Heliothis peltigera* (Denis & Schiffermüller) 23 May - 19 September O
A noted migrant first caught at light on 15 August 1980, then in 1981, 1986, 1994, 1998, 2000, 2002 (seven), 2004 (four), 2005, 2006 (two), 2009 (four), 2010 (three) and 2012 (two), an exceptional total of 26 in 2015, including three on 17 June, in 2016 a single on 25 June and in 2017 14 were recorded at HQ light on 31 July and there was a further single sight record on 11 August. None were recorded from 2018 to 2021. 22 individuals were recorded to light at HQ, Middle Field or Sandown Road over 16 Nights between 23 May and 25 August 2022 and a single at HQ on 24 July 2023 (IDH).
- 73.076 (2400) **Scarce Bordered Straw** *Helicoverpa armigera* (Hübner) 19 July – 09 November O
Singles of this immigrant species were recorded sporadically from 1987 to 2004. There were three records in 2006. Very small but increasing numbers were recorded annually to light at HQ from 2009 to 2024. Exceptionally 68 individuals were recorded over 46 nights between 21 July and 25 October 2017 with a maximum of five on 11 August and between 17 August and 11 October 2023 38 individuals were recorded in ones or twos over 27 nights.
- 73.082 (2292) **Tree-lichen Beauty** *Cryphia algae* (Fabricius) 12 July - 08 September C
Regarded as an immigrant prior to 2001, since when it has established colonies in Kent and other southern English counties. One caught at HQ light on 03 August 2004, then annual in small numbers (up to about 50) from 2009 to 2024, e.g., in 2018 42 individuals were recorded to light at HQ and on the Estate over nine dates between 24 July and 07 August with a maximum of 12 on 03 August in the Whitehouse and in 2020 148 individuals were attracted to light at HQ, across the Estate and at Sandown Road over 32 dates from 13 July to 13 August with a maximum of 16 on 31 July at HQ.
- 73.083 (2294) **Marbled Grey** *Bryophila raptricula* (Denis & Schiffermüller) R
A rare migrant, one was taken at a portable seafront light on 09 August 1969 (Chalmers-Hunt) and one was recorded at HQ light on 12 August 2012 (JGCB).
- 73.084 (2293) **Marbled Beauty** *Bryophila domestica* (Hufnagel) 14 June - 16 September O
Small numbers attracted to light almost annually up to 2016. None were recorded in 2017 or 2018. A female was recorded at HQ light on 02 July 2019 (IDH gen det DS). Singles were recorded to light at Sandown Road on 08 August (IDH) and at Coachmans Cottage on 12 August 2020 (VA) and at Sandown Road on 18 July 2021 and on 30 July and 14 August 2022. Recorded to light in Middle Field on 09 July and at HQ on 11 August 2023 and at HQ on 31 August and 07 September 2024.
- 73.085 (2295) **Marbled Green** *Nictobrya muralis* (Forster) 06 July - 04 September O
A local species with almost annual records between 1992 and 2024, e.g., a total of eight in 2016 and singles on 19 July and 01 August 2017. Nineteen individuals were recorded to light at HQ, on the Estate or on the beach over 11 nights between 06 July and 04 September 2022.
- 73.086 (2413a) **Shining Marbled** *Pseudeustrotia candidula* (Denis & Schiffermüller) R
First recorded in Britain in 2006 with several records since. Recorded at HQ light on 24 July 2019 (SH/IDH, photos) and on 29 August 2023 (LS, confirmed via photo by SZW).

- 73.087 (2385) **Small Mottled Willow** *Spodoptera exigua* (Hübner) 01 June - 29 October O
A migrant species recorded in most years from 1982 to 2020. Exceptionally, 14 were recorded in 2009 between 01 June – 27 August, including three on 01 and 20 July, but this was surpassed by a total of 123 in 2015, including 12-16 on 10 and 11 July and nine on 03 August. In 2016 two were recorded in June and three singles in August. In 2017 a single was recorded on 21 June, three were recorded in July and two in August. A total of 11 individuals were recorded at HQ light on 15 and 16 October 2018 (IDH/SZW). None were recorded in 2021. Between 05 September and 29 October 2022 six individuals were recorded to light at HQ or in The Elms over four nights. Recorded to light at HQ on 18 August and 04 September 2023 and 19 individuals over 11 nights between 27 July and 26 October 2024.
- 73.092 (2387) **Mottled Rustic** *Caradrina morpheus* (Hufnagel) 06 May - 13 October C
Regular at light in small numbers up to 2024 with occasional individuals in September - October. More numerous since 2009 when up to 15 were attracted to HQ light in June and peak counts in July reached 46 on the 20th, with 19-25 daily from the 1st-4th. Up to 55 were recorded in July 2010, up to 40 were trapped in June 2011, with similar numbers to 2015. In 2016 89 were recorded over 35 nights with a maximum of nine on 15 July. In 2017 between 12 May and 26 July 162 individuals were recorded over 56 nights with a maximum of 10 on 14 June and then four singles were recorded between 20 September and 12 October, almost certainly evidence of second brood activity locally.
- 73.093 (2387a) **Clancy's Rustic** *Platyperigea kadenii* (Freyer) 04 June – 10 November O
Singles at HQ light on 10, 13 and 15 October 2009, on 21 June and five dates between 08-14 October 2010, on 01 October 2011, 30 September 2013, 04 October 2015 (IDH) and 01 October 2018. Annual in small numbers from 2019 to 2023 e.g. eight individuals recorded over seven nights between 25 September and 10 October 2019. Between 04 June and 18 October 2020 mainly singles were recorded to light over 15 nights at HQ, on the Estate or at Sandown Road. Ten individuals were attracted to light at HQ and in The Elms area over six dates between 11 July and 14 October 2021. Between 27 May and 06 October 2022 41 individuals were recorded to light at HQ or on the Estate over 20 nights with a maximum of 13 in Middle Field on 25 September with similar numbers to 2024.
- 73.095 (2389) **Pale Mottled Willow** *Caradrina clavipalpis* (Scopoli) 17 April - 25 November C
Recorded at light annually up to 2024, e.g., up to 11 in June and August 2009 and in 2016 30 individuals were recorded over 23 nights between 12 May and 29 September with a maximum of four on 19 September. 71 individuals were recorded over 41 nights between 29 April and 31 October 2017 with a maximum of ten on 29 May.
- 73.0961 (2381x) The following two species are sometimes recorded as an aggregate. 11 June – 20 July C
e.g. in 2024 75 individuals were recorded at HQ over 11 nights between 11 June and 20 July.
- 73.096 (2381) **Uncertain** *Hoplodrina octogenaria* (Goeze) 31 May - 21 September C
First recorded in 1967 and annual between 1980 and 2024. Up to 40 were captured at HQ light in July 2009, up to 98 in July 2010, in 2016 338 individuals were recorded over 49 nights between 22 June and 19 August with a maximum of 29 on 15 July and in 2017 372 individuals were recorded over 56 nights between 08 June and 20 August with a maximum of 19 on 15 July.
- 73.097 (2382) **Rustic** *Hoplodrina blanda* (Denis & Schiffermüller) 30 May – 01 October C
Attracted to HQ light up to 2024, e.g., up to 62 in July 2010 and 56 in July 2013. In 2017 250 individuals were attracted to light over 40 nights between 16 June and 14 August with a maximum of 21 on 15 July.
- 73.099 (2384) **Vine's Rustic** *Hoplodrina ambigua* (Denis & Schiffermüller) 08 May - 29 October C
Recorded at light in overlapping generations up to 2024. Peak counts include 27 in June and August 2009, 119 in August 2010 and 153 in August 2013. In 2017 1,046 individuals were recorded over 88 dates between 14 May and 26 September with maxima of 72 on 14 and 21 August and 71 on 23 August.
- 73.100 (2391) **Silky Wainscot** *Chilodes maritima* (Tauscher) 04 June - 07 August O
A local reed-bed species. Up to four recorded in nine years between 1980 and 2009 and small numbers (up to 12) annually from 2013-2024, e.g., singles were recorded to light on 09 and 17 June 2017, in the Whitehouse on 03 August 2018, at HQ on 23 June and 09 and 11 July 2019 (IDH) and in the Haven on 12 July 2022 (FS).
- 73.101 (2380) **Treble Lines** *Charanyca trigrammica* (Hufnagel) 28 April - 15 August Ab/C
Recorded annually at light up to 2024, e.g., up to 35 in May 2009, 136 in June 2010 and 80 in May 2011. In 2017 496 individuals were recorded over 49 dates from 01 May to 26 June with maxima of 53 on 16 May and 52 on 17 May.
- 73.102 (2302) **Brown Rustic** *Rusina ferruginea* (Esper) 09 June - August R/O
Three recorded between June and August in 1982 and 1983 followed by singles on 30 June 1987, 08 July 2001, 24/25 June 2005, 11/12 June 2013, 09 June 2014, 16 June 2017 to light in the Whitehouse (FS), at HQ on 14 June 2020 (SZW) and on 18 June 2022 (IDH).

- 73.104 (2392a) **Porter's Rustic** *Athetis hospes* (Freyer) R
Recorded to light at HQ on 22 August 2023 (SH/IDH, gen det DS) and on 11 June (SZW) and 28 August (IDH) 2024.
- 73.105 (2301) **Bird's Wing** *Dypterygia scabriuscula* (Linnaeus) 05 May - 11 August O
Occasional at light since 1981 and annual in small numbers between 2009 and 2024 with a total of nine in 2009, including four on 25 June. In 2017 ten individuals were recorded on nine nights in June with another, very late, individual on 04 August.
- 73.106 (2304) **Orache Moth** *Trachea atriplicis* (Linnaeus) RE R
This rare immigrant, formerly resident in the UK, was recorded at HQ light on 26 June 2011 (JGCB), 05 July 2012 (JGCB) and 26 August 2015 (JK). First recorded again at HQ light on 20 and 23 July 2022 (GJL/SZW)
- 73.107 (2300) **Old Lady** *Mormo maura* (Linnaeus) 04 July - 26 October O
Recorded at light or in buildings in small numbers in 17 years from 1969 to 2015. Recorded to light or in the field at HQ, on the Estate or at Sandown Road in low single figures from 2017 to 2024 including on 19 July and 23 August 2017, 09 September 2018 and to light in the Whitehouse on 20 June (FS) and at HQ on 22 July 2019 (ME). A single was observed having been killed by a car in Sandown Road on 16 July 2020 (IDH). Seven individuals were recorded to light at HQ or on the Estate over six dates in 2021. Singles were recorded in the field on 20 and 24 July and to light at HQ on 05 September 2022.
- 73.109 (2303) **Straw Underwing** *Thalpophila matura* (Hufnagel) 22 July - 07 September F/C
One in 1969 and small numbers (up to seven) at light almost annually between 1976 and 2024, with up to 17 in August 2013. In 2017 there were 34 individuals recorded over 19 nights from 04 to 30 August with a maximum of five on 25 August.
- 73.113 (2306) **Angle Shades** *Phlogophora meticulosa* (Linnaeus) 20 January; 23 February - 24 November C
Recorded at light in two overlapping generations up to 2024. One was recorded on 20 January 2012. There has been a modest increase in numbers since 2009. In 2016 there was a maximum of 19 on 04 September. In 2017 215 individuals were recorded over 90 nights between 01 April and 16 November (none recorded in July) with maxima of 17 on 29 May and 14 on 25 September. The maxima in 2020, both at HQ light, were 18 on 22 April and 27 on 23 April.
- 73.114 (2305) **Small Angle Shades** *Euplexia lucipara* (Linnaeus) 24 June - 01 August R
Singles recorded to light on 15 July 1982, 30 June and 01 August 1987, 11 July 1995 and 24 June 2005, at HQ on 19 July 2021 and at HQ or in the Haven on 27 June and 12 and 20 July 2022.
- 73.119 (2368) **Crescent** *Helotropha leucostigma* (Hübner) 14 July - 03 October O
Recorded at light from 1981 to 2024 (a cumulative total of 13 in 2012, including three on 16 August, and 15 in 2013). In 2017 singles were recorded on four dates between 23 July and 14 August. A single was recorded to HQ light on 16 August 2020 and two on 03 October 2022.
- 73.120 (2352) **Dusky Sallow** *Eremobia ochroleuca* (Denis & Schiffermüller) 24 June – 05 September C
Regular at light between 1976 and 2022, e.g., up to 49 at HQ light in July 2009, up to 62 in July 2010 and up to 71 in August 2013. In 2016 173 individuals were recorded on 28 nights in July and August with a maximum of 21 on 05 August. 169 individuals were recorded over 25 nights in July 2017 with a maximum of 38 on 15 July. A larva was recorded on the Estate on 15 June 2018.
- 73.121 (2364) **Frosted Orange** *Gortyna flavago* (Denis & Schiffermüller) 14 August - 17 October F/O
Small numbers recorded at light between 1981 and 2024. There were cumulative totals of 30 in 2009, 70 in 2010 (including eight on 26 September and 04 October), 42 in 2011, 32 in 2012, 49 in 2013, and 20 in 2015. In 2017 between 21 August and 16 October 47 individuals were recorded over 26 nights with maxima of five.
- 73.123 (2361) **Rosy Rustic** *Hydraecia micacea* (Esper) 02 July – 09 November C
Regular at light in small to moderate numbers up to 2024, e.g., in 2009 there were peaks of 11-18 in each month from July – September and similar numbers occurred in 2010, 2013 and 2014. Over 63 nights between 06 July and 28 September 2017 185 individuals were recorded with a maximum of 16 on 31 July.
- Ear Moth species require gen det to separate.
Past records have been attributed to Saltern Ear and Ear but we now record as Ear Moth agg.
- 73.1281 (2360x) Ear Moth agg
Recorded up to 2024 12 July to 07 October.
- 73.126 (2358) **Saltern Ear** *Amphipoea fucosa* (Freyer) (R)
A single to HQ light on 15 July 2017 (M gen det DS) and one to light in the Whitehouse on 17 July 2020 (MB gen det).

- 73.128 (2360) **Ear Moth** *Amphipoea oculatea* (Linnaeus) (R)
A single to HQ light on 04 August 2017 (M gen det DS) and one to light in the Whitehouse on 17 July 2020 (MB gen det).
- 73.131 (2353) **Flounced Rustic** *Luperina testacea* (Denis & Schiffmüller) 04 June – 09 November Ab
Recorded throughout the area, sometimes with large numbers at light up to 2024. Peak counts in 2009 included 73 on 20 August, with six other counts of 50+ during the month, and up to 140 were recorded in August 2010. In 2017 556 individuals were recorded over 74 dates between 04 June and 04 October with maxima of 42 on 29 and 50 on 30 August.
- 73.132 (2354) **Sandhill Rustic** *Luperina nickerlii* (Freyer) **Nat S** R
A variable species that has several distinct colonies around the coast of England and Wales. Recorded on 23 September 2020 to light at HQ (SH/IDH).
- 73.134 (2375) **Large Wainscot** *Rhizedra lutosa* (Hübner) 30 July - 27 November C/F
Regular in moderate numbers at light up to 2024, e.g., up to 27 in October 2009, up to 21 in October 2010, up to 28 in October 2011, 18 in October 2013 and 21 in October 2014. Between 23 September and 16 November 2017, over 45 nights, 379 individuals were recorded with maxima of 36 on 18 and 25, 41 on 16 and 43 on 17 October.
- 73.136 (2369) **Bulrush Wainscot** *Nonagria typhae* (Thunberg) 14 July - 13 October O
Recorded in 1976 and annually between 1982 and 2017. There were cumulative totals of 25 in 2009 and 18 in 2013. Since 2017 this species appears to be declining at Sandwich Bay, e.g., in 2017 a single was recorded on 14 and two on 15 July and singles on 09 and 27 September. None were recorded in 2018. Singles were recorded at HQ light on 31 July (DT) and 02 October 2019 (IDH). None were recorded in 2020. Eight individuals were recorded to light at HQ over six dates between 17 August and 17 September 2021. Recorded to light on 04 (Middle Field (three) and 10 August and 17 September (HQ) 2022. Mainly singles were recorded to light at HQ or in Middle Field over seven nights between 21 August and 25 September 2023 with a similar pattern in 2024.
- 73.137 (2377) **Fen Wainscot** *Arenostola phragmitidis* (Hübner) 22 June - 07 September F/O
Regularly attracted to light up to 2024, e.g., up to 22 in July 2010 and 29 in August 2013. In a two-week period in 2017 from 05 to 19 July 32 individuals were recorded over eight nights with a maximum of 11 on 15 July and including one from HQ on 01 August 2024 (IDH gen det DS).
- 73.139 (2370) **Twin-spotted Wainscot** *Lenisa geminipuncta* (Haworth) 18 July - 18 September O
Attracted to light in most years between 1985 and 2024, e.g., in 2017 four singles and a two were recorded between 10 July and 04 August.
- 73.141 (2371) **Brown-veined Wainscot** *Archanara dissoluta* (Treitschke) 11 July - 08 September O
Small numbers recorded at MV light in many years from 1969 to 2024 e.g. In 2017 singles were recorded on 16 and 31 July and 18 individuals were recorded over 14 dates between 18 July and 15 August 2021.
- 73.142 (2379) **Small Rufous** *Coenobia rufa* (Haworth) 11 July - 05 September O
Recorded in 1969, 1975 (two), 1994, 1995, 2000, then annually in small numbers from 2010 to 2014, though absent from 2015 to 2017. Singles were recorded at HQ light on 03 August 2018 (IDH) and on 23 and 26 July 2019 and 13 individuals were recorded to HQ light over nine dates between 13 July and 20 August 2020. None were recorded in 2021. Recorded to light at HQ or on the Estate on four nights between 12 and 31 July 2022 and similar patterns to 2024.
- 73.144 (2350) **Small Wainscot** *Denticucullus pygmina* (Haworth) 08 July - 08 October O
Small numbers recorded between 1975 and 2024, e.g., in 2017 22 individuals were recorded over 16 nights with a maximum of four on 04 August.
- 73.145 (2349) **Mere Wainscot** *Photedes fluxa* (Hübner) 21 June - 11 August R
Two were recorded at light on 11 August 1949 (Embry & Youden, 1949) and singles were caught at HQ light on 01 July 2009 and 20 July 2010, with small numbers annually from 2013 to 2015. There were none in 2016. Singles recorded on 21 June 2017 (CM), in the Whitehouse on 13 July 2018 (FS) and 02 August 2019 and two in the Oasis on 07 August 2020 (AM/DS). Four recorded to light on Princes Beach on 18 July 2022 and a single at HQ on 20 July 2024 (GJL/SZW).
- 73.147 (2345) **Small Dotted Buff** *Photedes minima* (Haworth) 13 June - 30 July O
Recorded in the last few days of July 1982, on 30 July 2002, two in the Oasis 23 June 2006 (MH) one-two on eight dates from 09-22 July 2010, singles in July 2013, 13 June 2014, at HQ light 06 July 2019 (SZW) and to light on the Estate on 30 July 2020 (KB). Recorded to light in the Haven on 12 (one) and 24 (two) July 2022.

73.149 (2347)	Concolorous <i>Photedes extrema</i> (Hübner)	Nat S	R
	One at HQ MV light on 01 July 1994 (ACJ, EB) was the fifth record for Kent. Singles were trapped at HQ light on 27 June 2011 (JGCB), on 20 May 2020 (RJD/SZW photo) and in Jubilee Field on 13 June 2023 (SB confirmed via photo SZW).		
73.151 (2373)	Webb's Wainscot <i>Globia sparganii</i> (Esper)	22 June - 04 October	O
	Recorded at light in 1975, 1995 (two), 2004 (four), 2007 and annually between 2009 and 2024, e.g., in 2017 mainly singles were recorded on nine nights between 15 July and 03 September.		
73.152 (2374)	Rush Wainscot <i>Globia algae</i> (Esper)	Nat S	R
	Recorded in HQ MV trap 27 August 2005 (P&PH gen det DA).		
73.154 (2330)	Dusky Brocade <i>Apamea remissa</i> (Hübner)	22 May - 13 August	O
	Small numbers regularly at light almost annually between 1978 and 2024, e.g., up to seven in June 2009 and up to ten in June 2010. In 2017 29 individuals were recorded over 17 nights between 22 May and 24 July with a maximum of three on 16 June.		
73.155 (2327)	Clouded Brindle <i>Apamea epomidion</i> (Haworth)	20 May – 14 August	O
	Recorded at light on 01 July 1967, 01 July 1986, 19 June 2004, 11 July 2009, 25 and 28 June 2011, 23 June 2014, 22 May 2015, 17 June 2017, 17 June 2018, at HQ on 20 May (IDH) and in the Whitehouse on 12 July 2019 (FS), at Sandown Road on 26 June 2020 (SH/IDH), 20 July 2021 and 14 August 2022 and at HQ on 11 June 2024 (SZW).		
73.156 (2326)	Clouded-bordered Brindle <i>Apamea crenata</i> (Hufnagel)	11 May - 29 July	O
	Recorded at MV light on the KWT Reserve Buffer Zone on 24 June 1985, 17 June 1987 and 01 June 1994, with small numbers at HQ light in 2009, 2010, 2011, 2013, 2014 and 2016. In 2017 singles were recorded on 16, 23 and 29 May. None were recorded in 2018 or 2019. A single was recorded to HQ light on 23 May 2020 (RJD/SZW). Singles were recorded to light at HQ or on the Estate on five dates in June 2021, seven individuals recorded over five nights between 16 May and 22 June 2022 and on 09 June and 16 and 21 August 2023 and on 23 May 2024.		
73.157 (2333)	Large Nutmeg <i>Apamea anceps</i> (Denis & Schiffermüller)	NT	R
	Singles recorded at light on 07 June 1994 (ACJ), 06 June 2004, 23 June 2006 (TD) and 31 May 2014 (JGCB).		
73.158 (2334)	Rustic Shoulder-knot <i>Apamea sordens</i> (Hufnagel)	23 April - 18 July	F
	Scarce in the 1990s but now recorded annually at MV light up to 2024, e.g., up to 10 in May 2009 and up to 40 in June 2010. In 2017 167 individuals were recorded over 36 nights between 28 April and 15 June with a maximum of 19 on 16 May.		
73.159 (2331)	Small Clouded Brindle <i>Apamea unanimitis</i> (Hübner)	11 May - 26 July	O
	First recorded on 06 June 1946 (Embry & Youlden, 1949). Almost annual in small numbers between 1982 and 2024, becoming more common since 2003. In 2017 12 individuals were recorded over eight nights between 22 May and 16 June with a maximum of three on 29 May.		
73.160 (2335)	Slender Brindle <i>Apamea scolopacina</i> (Esper)		R
	Recorded to light at HQ on 06, 15 and 18 (GJL/IDH) and in the Haven on 24 July 2022 (FS).		
73.161 (2325)	Crescent Striped <i>Apamea oblonga</i> (Haworth)	Nat S 13 July - 23 August	O/R
	A species of saltmarsh, where it is common. Recorded on the Estate in 1981 (Emmett, 1977), 03 August 1982, 23 August 1984, 14 July 1995, 13 and 25 July 1997 and 07 August 2009, with one-three on seven dates from 18 July – 08 August 2010, one on 30 July 2011 and one to light in Hundred Acre on 01 August 2019 (DT).		
73.162 (2321)	Dark Arches <i>Apamea monoglypha</i> (Hufnagel)	13 May - 15 November	Ab
	Abundant up to 2024, e.g., 1,950 recorded at HQ light on 31 nights in July 2016 with a maximum of 141 on 15, with occasional individuals in September - November. In 2017 2,057 individuals were recorded over 73 nights between 26 May and 26 August with maxima of 126 on 15 July and 133 on 22, 156 on 24 and 184 on 23 June; and ten, mainly singles, were also recorded on eight nights between 08 October and 15 November.		
73.163 (2322)	Light Arches <i>Apamea lithoxylaea</i> (Denis & Schiffermüller)	23 May - 14 August	C/F
	Regular at light up to 2024. Peak counts include 77 in June 2009, 92 in July 2010 and 51 in July 2013. In 2017 80 individuals were recorded over 20 nights between 08 June and 10 July with a maximum of 17 on 23 June.		
73.164 (2323)	Reddish Light Arches <i>Apamea sublustris</i> (Esper)	24 May - 07 August	C
	Regular at light up to 2024. Abundant in 2009 when peak counts included 41 on 22 June and 52 on 03 July. In 2017 over 27 nights between 27 May and 08 July 265 individuals were recorded with maxima of 25 on 16 and 18 June.		

73.165 (2329)	Confused <i>Apamea furva</i> (Denis & Schiffermüller)		R
	Recorded to light at HQ on 17 June 2022 (IDH).		
73.168 (2336)	Double Lobed <i>Lateroligea ophiogramma</i> (Esper)	17 June - 22 August	O
	Recorded annually at light between 1978 and 2024 with up to six-seven at HQ light. In 2017 singles were recorded on 21 June and 09 July with two recorded on 16 July.		
73.1691 (2343x)	Common/Lesser Common Rustic agg <i>Mesapamea secalis/didyma agg</i>	13 June - 11 October	Ab
	These species require gen det to separate. Past records have been attributed to Common Rustic and Lesser Common Rustic but we now record as Common Rustic agg. Recorded up to 2023, e.g., in 2016 from 16 June to 13 September with a maximum of 118 on 04 August. In 2017 they were recorded between 16 June and 21 September with a maximum of 94 on 19 July.		
73.169 (2343)	Common Rustic <i>Mesapamea secalis</i> (Linnaeus)		C
	Males were recorded at HQ light on 11 July and a single on 16 July 2018 (all gen det DS).		
73.170 (2343a)	Lesser Common Rustic <i>Mesapamea didyma</i> (Esper)		R
	Two individuals identified by genitalia on 14 July 1993 (two) (EB) and 30 August 1994 (EB).		
73.171 (2342)	Rosy Minor <i>Litologia literosa</i> (Haworth)	NT 28 June - 05 September	C
	Quite common and one-five regularly taken at light up to 2024. More numerous since 2009 when up to 39 were caught at HQ light in July, with up to 74 in July 2010 and 48 in August 2013. In 2017 90 individuals were recorded over 21 nights between 10 July and 04 August with a maximum of 13 on 10 July.		
73.172 (2341)	Cloaked Minor <i>Mesoligia furuncula</i> (Denis & Schiffermüller)	19 May - 10 September	F/C
	Quite common and small numbers attracted to light up to 2024, e.g., up to eight in August 2009, 20 in July 2010, 28 in August 2012 and 49 in August 2013. Between 09 July and 21 August 2017 27 individuals were recorded over 20 nights with a maximum of four on 15 July. A melanistic individual was recorded at HQ light on 30 June 2019.		
73.1731 (2337x)	Marbled/Tawny Marbled/Rufous Minor agg (<i>Oligia strigilis/latruncula/versicolor agg</i>)		C
	09 May – 07 September These form a complex of three species, which can only reliably be separated by dissection of the genitalia. Recorded at HQ light to 2024, e.g., in 2016 between 09 May and 23 July. In 2017 269 individuals were recorded over 46 nights from 11 May to 23 June with a maximum of 30 on 29 May.		
73.173 (2337)	Marbled Minor <i>Oligia strigilis</i> (Linnaeus)		(R)
	Two on 16 and singles on 20 and 25 May 2017 at HQ light (all M gen det DS) and a male to light on Princes Beach on 25 June 2020 (NHM gen det).		
73.174 (2339)	Tawny Marbled Minor <i>Oligia latruncula</i> (Denis & Schiffermüller)	27 May - 14 June	(R)
	Single males at HQ light on 27 May and 08 June, a female on 14 June 2018 (all IDH, gen det DS) and singles to light at Sandown Road on 11 June (IDH, gen det DS), in the Oasis on 25 June 2020 (AM/DS gen det) and at HQ on 17 June 2022 (IDH F gen det DS) and on 03, 07 and 11 June 2024 (all IDH gen det DS).		
73.175 (2338)	Rufous Minor <i>Oligia versicolor</i> (Borkhausen)		(R)
	Two recorded on 08 July 1977 (gen det Brit. Mus. MH).		
73.176 (2340)	Middle-barred Minor <i>Oligia fasciuncula</i> (Haworth)	16 May - 19 August	F
	Recorded from 2009-2024, e.g., in 2017 81 individuals were recorded over 26 nights between 24 May and 21 June with a maximum of 17 on 02 June.		
73.179 (2271)	Orange Sallow <i>Tiliacea citrago</i> (Linnaeus)	18 September - 13 October	R
	Singles trapped to light at HQ on 30 September 2009, 28 September 2010, 26 September 2011, 06 October 2013, 27 September 2017 (IDH), 18 September and 03 October 2018 (SZW), in The Elms on 25 September 2021 and on Princes Beach (JC) on 22 September and at HQ (IDH) on 01, 12 and 13 October 2022. None were recorded in 2023.		
73.180 (2272)	Barred Sallow <i>Tiliacea aurago</i> (Denis & Schiffermüller)	05 September - 27 October	O
	Recorded at light in Slazengers in 1977, at HQ light in 1995 (three) and annually between 2009 and 2021, e.g., in 2017 singles were recorded on nine dates between 08 September and 27 October and in 2019 only a single was recorded at HQ light on 27 September (IDH) and individuals were recorded on four dates in 2020. None were recorded in 2022. Between 06 September and 22 October 2023 25 individuals were recorded to light at HQ or at Sandown Road over 11 nights. A single was recorded to light in The Elms on 04 October 2024 (KB).		

- 73.181 (2273) **Pink-barred Sallow** *Xanthia togata* (Esper) 27 August - 29 October F
Occasional at light in small numbers from 1994 to 2006. Annual between 2009 and 2024. In 2016 68 individuals were recorded over 24 nights between 12 September and 29 October with a maximum of eight on 09 October. In 2017 there were records of 71 individuals over 26 nights between 30 August and 18 October with a maximum of nine on 26 September.
- 73.182 (2274) **Sallow** *Cirrhia icteritia* (Hufnagel) NT 28 August - 04 November F
Often found feeding at Ivy blooms in the autumn. Recorded regularly at light between 2009 and 2024, e.g., up to 11 in September and October since 2009, with up to 18 in September 2011. In 2016 64 individuals were recorded over 26 nights between 11 September and 04 November with a maximum of 10 on 07 October. In 2017 114 individuals were recorded over 30 nights between 16 September and 23 October with a maximum of 13 on 27 September.
- 73.183 (2275) **Dusky-lemon Sallow** *Cirrhia gilvago* (Denis & Schiffermüller) NT 01 September - 21 October O
Up to three at HQ light in 1975, 1987, 1995, 1998 and annually between 2009 and 2024. In 2017 15 individuals were recorded over eight dates between 23 September and 17 October with a maximum of four on 03 October. A larva was found on 03 May 2024 in The Elms on nettles but probably dropped down from Elm tree. The larva was reared (RL/PS/BH).
- 73.184 (2276) **Pale-lemon Sallow** *Cirrhia ocellaris* (Borkausen) Nat S 23 September - 15 October R/O
Singles at HQ light on 30 September, 04 October 2010, 07 October 2012 and one-two on three dates from 06-15 October 2013. Singles were recorded on 23 September (CM) and 27 September 2017 (IDH), on 03, 05 and 09 October 2018, on 09 October 2019 (SH/IDH, photo) and on 11 October 2021.
- 73.186 (2267) **Beaded Chestnut** *Agrochola lychnidis* (Denis & Schiffermüller) NT 11 September - 13 November C
Frequent on Ivy blossom. Recorded regularly at light up to 2024, e.g., up to five in September/October annually between 2009 and 2016, with up to 28 in October 2013. In 2016 69 individuals were recorded over 28 nights between 13 September and 02 November with a maximum of seven on 07 October. Over 27 dates between 25 September and 26 October 2017 79 individuals were recorded with a maximum of 11 on 14 October.
- 73.187 (2266) **Brown-spot Pinion** *Anchoscelis litura* (Linnaeus) 10 September - 24 October O
Singles at HQ light in September 1989, 1990 and 1992, October 2010, September 2011, October 2012 and 2013, September 2014. From 2016 to 2024 small numbers were recorded to light at HQ or in The Elms.
- 73.189 (2263) **Red-line Quaker** *Leptologia lota* (Clerck) 20 August - 21 December F
Often found at Ivy blossom. Recorded annually at HQ light up to 2024, e.g., in 2009 up to 29 were recorded in October, in a cumulative total of 177. In 2016 42 individuals were recorded over 19 nights between 29 September and 15 November with a maximum of six on 27 October. In 2017 135 individuals were recorded over 23 nights between 22 September and 21 December with a maximum of five on 02 November.
- 73.190 (2264) **Yellow-line Quaker** *Leptologia macilenta* (Hübner) 07 September - 03 December O
Recorded at a lighted window on 03 December 1990, at light on 14, 19 and 20 October 1995. Small numbers at light annually between 2009 and 2021. In 2017 singles were recorded on 23 (Whitehouse) and 25 (HQ) October. In 2018 14 were recorded over six nights between 16 October and 05 November, singles were recorded to light at HQ on 28 October 2019 (IDH) and on 26 and 27 September 2020. None were recorded in 2022 or 2023. Singles were attracted to light at HQ on 07 September and 03 November 2024.
- 73.192 (2262) **Brick** *Sunira circellaris* (Hufnagel) 25 August - 20 November O
Recorded regularly from 1977 to 2024, e.g., in 2009 up to 25 were recorded in September, with up to five in October in a cumulative total of 83 at HQ light. In 2017 recorded singly or in twos on 10 nights between 27 September and 15 November. Singles were recorded to HQ light on four dates in October 2019 and similarly in 2020. Also recorded on Ivy blossom at Slazenger's on 23 October 1998.
- 73.193 (2270) **Lunar Underwing** *Anchoscelis lunosa* (Haworth) 09 August - 10 November Ab
Often abundant at light up to 2024. In 2016 1,009 individuals were recorded over 44 nights between 29 August and 30 October with a maximum of 64 on 26 September. In 2017 1,488 individuals were recorded over 49 nights between 16 September and 02 November with over 100 recorded on four nights in September including a maximum of 187 on 29 September.
- 73.194 (2258) **Chestnut** *Conistra vaccinii* (Linnaeus) 20 September - 05 May O
Sometimes found at Ivy blossom in the autumn and Sallow catkins in April. Recorded at light in small numbers up to 2024. In 2016 one was recorded on 02 November. In 2017 singles were recorded on 09, 18 and 20 March and 27 September, 16 November and 21 December.

- 73.195 (2259) **Dark Chestnut** *Conistra ligula* (Esper) 05 October - 16 April O
Recorded in 1977, 1983, 1988 and 1995, then in small numbers annually from 2009 to 2024, e.g., in 2017 11 individuals were recorded over eight dates between 10 October and 16 November with a maximum of three on 17 October.
- 73.196 (2259a) **Black-spotted Chestnut** *Conistra rubiginosa* (Scopoli) R
This species was recorded for the first time in the UK in November 2011 when two singles were trapped in Dartford, Kent. One was attracted to MV light at HQ on 22 December 2011 (JGCB, IPH, AML et al).
- 73.197 (2260) **Dotted Chestnut** *Conistra rubiginea* (Denis & Schiffermüller) 04 October - 20 May R/O
Singles were recorded at HQ light on 04 October 2011, 19 April and 16 October 2012, 08 May and 16 and 29 October 2013, 05 April 2014 and 01 and 04 April 2017. In 2018 a total of nine individuals were recorded between 05 October and 14 May, singles were recorded over three dates in March/April 2019 (IDH). Singles were recorded at HQ light on 23 September 2020 and on 29 March 2021. None were recorded in 2022. Singles were recorded to light at HQ on five nights between 07 October and 20 May 2023.
- 73.198 (2261) **Red-headed Chestnut** *Conistra erythrocephala* (Denis & Schiffermüller) RE R
An immigrant that breeds in N France. Singles were recorded at HQ light on 10 October 2010 (JGCB) and 21 October 2023 (IDH).
- 73.200 (2235) **Tawny Pinion** *Lithophane semibrunnea* (Haworth) 14 October - 24 May O
Recorded at sugar on 25 October 1977 (Chalmers-Hunt) and in small numbers at HQ MV light on 23 April 1993, 14 October 1995, on four dates in 2010, in May 2012, in March-April 2014 and September 2015. A single was recorded on 05 April 2017 and one to light at HQ on 17 March 2023 (SH/IDH).
- 73.201 (2236) **Pale Pinion** *Lithophane socia* (Hufnagel) 03 March - 16 June O
Recorded on 19 September 1998 and annually in small numbers at HQ light from 2009 to 2014, but absent in 2015 and 2016. In 2017 singles were recorded at HQ light on 24 and 30 March (IDH/SZW) and in the Whitehouse on 16 June (FS). In 2018 singles were attracted to light in the Whitehouse on 24 March and 19 April and at HQ on 06 April. A single was attracted to HQ light on 19 March 2019. None were recorded in 2020. Singles were recorded to light at HQ or on the Estate on four dates between 25 March and 27 April 2021. 16 individuals were recorded to light at HQ or in The Elms over six nights between 03 March and 13 April 2022 with a maximum of ten on 23 March in The Elms. Recorded to light in The Elms on 16 April and 03 May 2023 and at HQ on 17 and on 19 March and 14 April in The Elms.
- 73.202 (2237) **Grey Shoulder-knot** *Lithophane ornitopus* (Hufnagel) 23 October - 16 May R
Singles in November 2009, April and May 2010, April 2011, March and April 2012, March and April 2014, on 23 October 2019 (SH/IDH) and to light at HQ on 05 and 18 October and at Sandown Road on 07 November 2020 and at HQ on 10, 21 and 26 October 2023.
- 73.206 (2240) **Blair's Shoulder-knot** *Lithophane leautieri* (Boisduval) 19 September - 16 December O
Formerly rare along the south coast, but then established and widespread wherever *Cupressus* hedging is grown and almost annual between 1982 and 2013, e.g., the cumulative total in 2009 was 56, including three records of five-eight at HQ light between 28 September and 10 October, and totals of 24, 22, 17 and 33 were recorded in 2010, 2011, 2012 and 2013 respectively. Less regular or abundant since e.g., in 2016 singles were recorded on 29 September and 04 November. None were recorded in 2017. Recorded from 2018 to 2023 including in 2018 singles were recorded at HQ light on 14 and 16 October and on Worth on 08 December (IDH/SZW) and ones or twos were recorded on six dates in October 2019, at HQ (IDH) on 08 and in The Elms (KB) on 09 October 2020, singles were recorded to light at HQ on five dates between 10 October and 18 November 2021. Eleven individuals were recorded to light at HQ over nine nights between 30 September and 28 October 2022 and five individuals over 08, 09 and 16 October 2024.
- 73.209 (2241) **Red Sword-grass** *Xylena vetusta* (Hübner) R
A rare immigrant in Kent, very local elsewhere in Britain, one was trapped at HQ light on 15 October 2014 (IDH).
- 73.210 (2256) **Satellite** *Eupsilia transversa* (Hufnagel) 08 September - 15 April O/F
One-two recorded at HQ light in eleven years from 1977 to 2005. More numerous in 2009 when there were peak counts of three-four in October and November, with similar numbers in 2011 and 2012 and up to three between 2013 and 2015. In 2016 singles were recorded on 30 March, 30 October and 06 December. In 2017 a larva was recorded on 09 May in The Elms (SZW) and singles were recorded at HQ light on 18 February (IDH) and 22, 23 and 25 October. In 2018 37 individuals were recorded over 24 dates between 08 September and 08 April with a maximum of nine on 16 October. Nine individuals were recorded at HQ light over six dates between 01 March and 19 October 2019 with a broadly similar pattern in 2020. Singles were recorded to light at HQ on 21 February, 09 October and 16 and 17 November 2021. 12 individuals were recorded to light at HQ over nine nights between 17 September and 10 March 2022 and similar to 2024.

73.212 (2311)	Double Kidney <i>Ipimorpha retusa</i> (Linnaeus)	July - September	R
	A single was attracted to actinic light in the Big Gully on 19 July 2017 (SZW).		
73.213 (2312)	Olive <i>Ipimorpha subtusa</i> (Denis & Schiffermüller)	23 June - 16 August	O
	Singles were recorded at HQ light on 08 July 1990, 10 and 28 July 1995 and 20 July and 03 August 2004. More numerous between 2009-2016, with small numbers (up to five) annually. Singles were recorded on 17 July 2017, 22 and 23 July 2018, 24 July and 01 August 2019 (SH/IDH) and to light in the Haven on 12 July 2022 (FS). Recorded to light in The Elms on 23 June and at HQ on 19, 20 and 30 July 2024.		
73.215 (2316)	Lesser-spotted Pinion <i>Cosmia affinis</i> (Linnaeus)	18 July - 15 September	R
	Singles were recorded to light at HQ on 12 August 2011 (JGCB), in the Whitehouse on 07 August 2015 (FS), at HQ on 18 July 2017 (SZW) and on the Estate on 30 July 2020 (KB). Recorded in small numbers to light at HQ or on the Estate from 2021 to 2024. Larvae were recorded in The Elms on 03 (five) and 04 May 2024 (RL/PS/BH).		
73.216 (2318)	Dun-bar <i>Cosmia trapezina</i> (Linnaeus)	06 June - 11 September	O
	Recorded in 1969, and small numbers at light almost annually from 1981 to 2024, e.g., in 2009 up to 34 were caught at HQ light in July. In 2017 12 individuals were recorded over ten nights between 06 July and 04 August.		
73.217 (2319)	Lunar-spotted Pinion <i>Cosmia pyralina</i> (Denis & Schiffermüller)	06 July - 02 September	O
	Recorded at HQ light on 14 July 1982, 01 August 1983, 26 July 2005, 23 July and 18 August 2010 and 02 September 2011, with small numbers from 2013 to 2016. None were recorded in 2017 or 2018. Individuals were recorded to HQ light on 12 (two), 14 and 22 (two) July 2019 (SH/IDH), on 13 and 17 July 2020 and on 25 July 2021. Recorded to light at HQ or on the Estate on eight nights in July 2022 and similar in 2023. A single was recorded to light at HQ on 02 July 2024.		
73.219 (2269)	Centre-barréd Sallow <i>Atethmia centrago</i> (Haworth)	29 August - 27 October	O/F
	One-two recorded in 1977, 1981, 1986, 1993, 2003 – 2006 and annually from 2009 to 2024 e.g., up to four in September 2010 and a total of six individuals in 2016. In 2017 12 individuals were recorded over ten nights in the second part of September.		
73.220 (2225)	Minor Shoulder-knot <i>Brachylomia viminalis</i> (Fabricius) NT	July	R
	Singles trapped on 4 July 2009 (PDH, JGCB), 12 and 19 July 2010 (PDH, JGCB) and two at HQ light on 24 June 2019 (IDH).		
73.221 (2268)	Suspected <i>Parastichtis suspecta</i> (Hübner)	03 July - 23 August	R
	Recorded in Slazengers on 03 July 1976, at HQ light on 19 July 1997 (MG, IL), two on 23 August 2009 (PDH, JGCB, AP) and a single to light in the Haven on 13 July 2018 (RoW).		
73.222 (2314)	Dingy Shears <i>Apterogenum ypsilon</i> (Denis & Schiffermüller)	25 May - 12 August	O
	12 recorded in six years from 1982 to 1988 then in small numbers in 1995, 2001, 2004, 2010, 2011, 2013, 2014 and 2015. In 2017 singles were attracted to light in the Whitehouse on 16 June (FS) and at HQ on 23 June (SH/IDH). Singles were attracted to light at HQ on 25 May, 30 June and 26 July and in the Whitehouse on 12 July 2019, in the Oasis on 25 June (AM/DS) and at HQ on 01 July 2020 (RJD/IDH), on 14, 18 and 19 July and at Sandown Road on 18 July 2021 and at HQ on 23 June and 04 July 2022. Recorded to light at HQ on 25 June and in the Oasis on 04 and at HQ on 11 July 2024.		
73.223 (2246a)	Oak Rustic <i>Dryobota labecula</i> (Esper)	Nat S 16 September – 15 December	R/O
	The first Observatory records were singles at HQ light on 11 and 18 October and 02 November 2017 (IDH & SZW). Also recorded to light on 16, 17, 19 and 23 October 2018, 27 October 2019 and seven individuals recorded over four dates between 07 and 17 November 2020 at HQ and Sandown Road including a single of the paler form at Sandown Road on 07 November. A single recorded to light at HQ on 12 November 2021. In 2022 12 individuals were recorded to light at HQ or at Sandown Road over seven nights between 16 and 29 October with a maximum of three on 29 October at Sandown Road. Recorded to light at HQ on 22 and 25 October 2023 and on five nights between 16 September and 15 December 2024.		
73.224 (2247)	Merveille du Jour <i>Griposia aprilina</i> (Linnaeus)	29 September - 29 October	O
	Singles at light on 20 October 1982, 09 October 1986, 03 October 1995, 11 October 2003, 13 October 2009, 18 October 2010, October 2011 (three), 23 October 2013, October 2014 (two), October 2015 (three), 28 October 2016, 25 October 2017, 14 (2), 17 and 19 October 2018 (IDH/SZW), 09 October 2020 and 13 October 2021. Singles were recorded on consecutive nights from 26 to 29 October 2022 at HQ or Sandown Road and at HQ on 06 October 2023 and on 23 October 2024.		

73.225 (2248)	Brindled Green <i>Dryobotodes eremita</i> (Fabricius)	03 September - 09 October	R
	Recorded on successive days at light from 03 to 05 September 1975, with singles on 25 September 1998, 01 and 06 October 2010, 28 and 30 September 2011, 04 and 09 October 2012 and 21 September and 04 October 2013, in The Elms on 25 September 2021 (MS/PS/DL) and in Middle Field on 21 September 2022.		
73.229 (2251)	Flame Brocade <i>Trigonophora flammea</i> (Esper)	migrant/ recent colonist	R
	Recorded at HQ light on 17 October 2022 (SH/IDH).		
73.230 (2230)	Feathered Brindle <i>Aporophyla australis</i> (Boisduval)	Nat S 09 September - 02 November	C
	Regularly attracted to light in late autumn up to 2024, e.g., up to eight in October 2009, 10-12 in September and October 2010, 14-15 in October 2011 and 2012, exceptionally up to 67 in October 2013 and up to 24 in October 2014. In 2016 154 individuals were recorded over 28 nights between 18 September and 29 October with maxima of 16 on 28 September and 17 on 08 October. In 2017 178 individuals were recorded over 32 nights between 23 September and 19 October with maxima of 13 on 29 September and 13 October.		
73.231 (2231)	Deep-brown Dart <i>Aporophyla lutulenta</i> (Denis & Schiffermüller)	19 September - 28 October	C
	Originally recorded as Deep-brown Dart <i>A. lutulenta</i> : Small numbers recorded on many nights annually to 2000, then unrecorded until 2009 since when recorded annually at HQ light up to 2024. In 2016 46 individuals were recorded over 24 nights between 25 September and 23 October with a maximum of eight on 07 October. In 2017 35 individuals were recorded over 19 nights between 20 September and 17 October with a maximum of four on 01 October. In 2018 maxima of 12 on 01 and 14 on 05 October. <i>A. lutulenta</i> is now considered to be a valid species in Europe but not considered to have been recorded in UK. These specimens are now considered to be <i>A. lueneburgensis</i> Deep-brown Dart. The vernacular Northern Deep-brown Dart is no longer in use.		
73.232 (2231a)	Deep-brown Dart <i>Aporophyla lueneburgensis</i> (Freyer)	19 September - 30 October	C
	Formerly split into Deep-brown Dart <i>Aporophyla lutulenta</i> and Northern Deep-brown Dart <i>A. lueneburgensis</i> . The species code and scientific name changed in 2024 after work undertaken by David Lees and Mark Sterling of the Natural History Museum on specimens collected from SBBO with DNA bar-coding suggests that we have only one species in Britain, <i>A. lueneburgensis</i> which is now renamed Deep-brown Dart. Recorded under this name and number from 2024: In 2024 28 individuals were recorded mainly singles at HQ except a maximum of 12 in The Elms on 04 October (KB).		
73.233 (2232)	Black Rustic <i>Aporophyla nigra</i> (Haworth)	05 August - 09 November	C
	Recorded annually in small to moderate numbers up to 2024, e.g., up to eight at HQ light in September 2009, up to 11-13 in October 2010 and 2011, up to 16 in October 2012 and up to 24-27 in September and October 2013. In 2016 55 individuals were recorded over 22 nights between 19 September and 04 November with a maximum of eight on 29 September. In 2017 100 individuals were recorded over 28 nights with maxima of 10 on 25 and 27 September. A larva was swept nocturnally on Princes Beach on 03 May 2024 (RL/PS/BH).		
73.235 (2255)	Feathered Ranunculus <i>Polymixis lichenea</i> (Hübner)	26 July - 09 November	O
	Small numbers regular at light in late autumn up to 2024, e.g., up to five in September in 2009 and 2011 and seven in October 2013. In 2016 20 individuals were recorded over 12 nights between 25 September and 22 October with a maximum of six on 05 October. In 2017 15 individuals were recorded over 10 nights between 27 September and 18 October with a maximum of four on 09 October.		
73.237 (2252)	Large Ranunculus <i>Polymixis flavicincta</i> (Denis & Schiffermüller)		R
	Singles taken in 1933, 18 September 1954 (both CH) and 27 September 2004.		
73.241 (2179)	Pine Beauty <i>Panolis flammea</i> (Denis & Schiffermüller)	08 March - 08 June	O
	Almost annual in small numbers from 1990 to 2014. (absent in 2015 and 2016). Singles were recorded at HQ light on 31 March and 12 April 2017 (SH/IDH), 14 and 22 April and 13 May 2018 and on five dates between 24 March and 20 April 2019. None were recorded in 2020 or 2021. Recorded to light in The Elms on 09 March and 09 May 2022 and on 29 March and at HQ on 07 and 10 May 2023 and 13 individuals recorded over five nights at HQ or in The Elms between 09 March and 29 April 2024.		
73.242 (2188)	Clouded Drab <i>Orthosia incerta</i> (Hufnagel)	04 February – 13 August	C/F
	Occasionally seen at Sallow catkins in the spring. Recorded annually at light up to 2024, e.g., up to 21 in April 2010, 18 in March 2011 and 15 in March 2012, 45 in March 2014 and 11 on 12 April 2016 from a total of 114 individuals. In 2017 142 individuals were recorded over 46 nights between 09 March and 08 May with a maximum of 14 on 18 March.		

- 73.243 (2183) **Blossom Underwing** *Orthosia miniosa* (Denis & Schiffermüller) 31 March - 22 April R
Two at HQ light on 19 April 2011 (JGCB), singles on 01/02 April 2014 (JGCB), on 31 March 2017 (SH/IDH), on 15 and 22 April 2019 (IDH) and on 19 April 2022 (IDH).
- 73.244 (2187) **Common Quaker** *Orthosia cerasi* (Fabricius) 03 February - 20 June C/F
Small to moderately large numbers regularly at light up to 2024, e.g., up to 15 in April 2009, 52 in March 2010, 42 in March 2011 and 54 in April 2014. In 2016 116 individuals were recorded over 36 nights between 01 March and 12 May with a maximum of 11 on 23 March. In 2017 297 individuals were recorded over 58 nights between 08 March and 24 May with a maximum of 31 on 18 March. A larva was identified in The Elms on 04 May 2024 (RL/PS/BH).
- 73.245 (2182) **Small Quaker** *Orthosia cruda* (Denis & Schiffermüller) 01 March - 13 May O
Small numbers recorded annually up to 2024, though up to 12 at HQ light in April 2010 and, exceptionally, up to 78 in March 2012. In 2017 six singles were recorded between 08 March and 01 April.
- 73.246 (2185) **Lead-coloured Drab** *Orthosia populeti* (Fabricius) 15 March - 03 May R/O
One at HQ light on 11 April 2015. In 2016 two were recorded on 13 April and a single on 03 May (IDH). In 2017 singles were recorded on 15 and 18 March (SZW/IPH). In 2018 13 individuals were recorded at HQ light over eight dates between 24 March and 19 April, and singles on 30 March 2019 and 08 March 2020.
- 73.247 (2186) **Powdered Quaker** *Orthosia gracilis* (Denis & Schiffermüller) 09 March - 29 May F/O
Small to moderate numbers annually at light up to 2024, e.g., up to six in April 2009, 24 in April 2010 and 15 in April 2011. In 2017 42 individuals were recorded over 23 nights between 21 March and 25 April with a maximum of four on 20 April.
- 73.248 (2184) **Northern Drab** *Orthosia opima* (Hübner) R
Singles at HQ light on 28 April 2011, on three dates between 19 and 28 April 2014, on 20 May 2015 and on 22 April 2019 (IDH).
- 73.249 (2190) **Hebrew Character** *Orthosia gothica* (Linnaeus) 04 February - 27 July C
Regular at light since 1967 and up to 2024 in moderate numbers, e.g., up to 11 in April 2009, 58 in April 2010 and 26 in March 2012. In 2016 377 individuals were recorded over 43 nights between 10 March and 12 May with a maximum of 27 on 30 March. In 2017 786 individuals were recorded over 75 nights between 08 March and 09 May with a maximum of 31 on 29 March and more than 20 individuals recorded on each of 11 nights.
- 73.250 (2189) **Twin-spotted Quaker** *Orthosia munda* (Denis & Schiffermüller) 09 March - 28 April O
Small numbers recorded at light annually at HQ, on the Estate or at Sandown Road up to 2024 except in 2020, e.g. on four dates in late March 2021 and on 09 March and 12 April 2022 and at HQ on 16 March and in The Elms on 20 March and 16 April 2023 and in The Elms or at HQ on 09, 13 and 25 March 2024.
- 73.252 (2177) **Hedge Rustic** *Tholera cespitis* (Denis & Schiffermüller) **VU** 23 July - 10 October F
First recorded in 1975 and in most years from 1981 to 2024. Scarcer since 1998, although up to eight were recorded at HQ light in September 2010 and up to 12 were recorded in August 2013. In 2016 32 individuals were recorded over 18 nights between 10 August and 13 September with maxima of four on 25 August and 05 and 06 September. In 2017 singles were recorded on nine dates between 14 August and 09 September.
- 73.253 (2178) **Feathered Gothic** *Tholera decimalis* (Poda) 15 August - 09 November C
Small to moderate numbers regularly attracted to light up to 2024, e.g., up to 14 in August and 19 in September 2009, 18 in September 2010, 26 in September 2011 and 23-26 in August and September 2013. In 2016 183 individuals were recorded over 20 nights between 25 August and 20 September with maximum of 35 on 05 September. In 2017 24 individuals were recorded over 13 nights between 29 August and 09 September with a maximum of four on 04 September.
- 73.254 (2176) **Antler Moth** *Cerapteryx graminis* (Linnaeus) 09 July - 11 September O/R
Occasional at light 1975 - 1982 but uncommon thereafter. None have been recorded since 2015.
- 73.255 (2145) **Nutmeg** *Anarta trifolii* (Hufnagel) 14 April - 19 September C
Regular at light in fairly small numbers, e.g., up to 10 in July 2012 between 1981 and 2024. In 2017 145 individuals were recorded over 56 dates between 11 May and 06 September with a maximum of 11 on 04 August plus a late single on 02 October is a suspected immigrant (IDH).
- 73.261 (2150) **Grey Arches** *Polia nebulosa* (Hufnagel) R
Singles found resting on palings in June 1971 (DMB) and in Slazengers on 03 July 1976 and to light at HQ on 08 July 2022 (SH/IDH).
- 73.263 (2157) **Light Brocade** *Lacanobia w-latinum* (Hufnagel) 29 April - 12 July O
First recorded in 1972 and occasionally until 2001 since when it has become almost annual in small numbers up to 2024. In 2016 singles were recorded on 28 May and 03, 11 and 13 June. In 2017 17 individuals were recorded over 12 nights between 29 April and 03 June.

- 73.264 (2158) **Pale-shouldered Brocade** *Lacanobia thalassina* (Hufnagel) 16 May - 03 August O
Small numbers recorded in 1992 and almost annually from 1999 to 2006 but scarce since, with singles on 18 May 2010, on 17 May and three dates in July 2015 and 29 May and three dates in July 2016. None were recorded in 2017. Singles were recorded at HQ light on 08 May 2018 and 19 June 2019 (SH/IDH). There were none recorded in 2020 to 2022. A single was attracted to light at HQ on 04 July 2023.
- 73.266 (2159) **Dog's Tooth** *Lacanobia suasa* (Denis & Schiffermüller) 23 April - 10 September F
First recorded in 1969 and annually up to 2024 in small numbers, e.g., up to four in May and three in June in 2009, five in August 2010 and seven in August 2015. 12 singles were recorded between 16 May and 09 August 2017. 24 individuals were recorded over 20 dates between 19 May and 10 August 2020.
- 73.267 (2160) **Bright-line Brown-eye** *Lacanobia oleracea* (Linnaeus) 24 March - 21 November C
Regular at light in two overlapping broods up to 2024. In 2017 503 individuals were recorded over 123 dates between 24 March and 23 October with a maximum of 18 on 24 August.
- 73.268 (2160a) **Splendid Brocade** *Lacanobia splendens* (Hübner) 25 June - 27 July O
First identified in the UK at Portland in 2003. Recorded for the first time at the Bay in 2010 in a record arrival of the species along the south coast, including one-two on eight dates from 02 – 27 July. Subsequently, singles on 25 June 2011, 01 July 2013, 26 June 2014, five in 2015 including three on 12 July and 11 June 2016. None were recorded in 2017 or 2018. A single was recorded to light at the Observatory feeders on 05 July 2019 (SZW). None recorded in 2020 or 2021. Singles were recorded to light on three nights in July 2022 and at HQ on 18 and 27 June and 11 July 2023.
- 73.270 (2155) **Dot Moth** *Melanchra persicariae* (Linnaeus) 24 June - 11 September O
Small numbers taken at light almost annually between 1967 and 2020, e.g., in 2017 singles were recorded on 17, 20 and 26 July. None were recorded in 2021. Singles were recorded to light at HQ (IDH) on 12 and in Middle Field (KB) on 25 July 2022 and at HQ on 26 June 2023.
- 73.271 (2163) **Broom Moth** *Ceramica pisi* (Linnaeus) **VU** Late April - mid July x?
Formerly up to four almost annually at light on many nights since 1967, but much less frequent since and unrecorded from 2009 to 2022 apart from one to light at HQ on 02 July 2014 (JGCB).
- 73.273 (2147) **Shears** *Hada plebeja* (Linnaeus) 05 May - 09 September F
Double brooded. First taken at light in July 1978 and annually in small numbers from 1981 to 2016, e.g., up to seven in June 2010 but only a single in 2016 on 06 June. None were recorded in 2017. Ones or twos were recorded on four dates in 2018 and singles on three dates in 2019. Four singles were recorded at light at HQ and Sandown Road in May 2020. Three singles were recorded to light at HQ or in The Elms in June 2021 and a single was recorded to light at HQ on 11 May 2023. Larvae were found on White Campion on the dunes in June 1971.
- 73.274 (2154) **Cabbage Moth** *Mamestra brassicae* (Linnaeus) 11 April - 09 October C
Small to moderate numbers regularly attracted to light up to 2024, e.g., up to 24 in August 2010. In 2017 752 individuals were recorded over 87 dates between 20 April and 02 October with maxima of 45 on 19 July and 23 August.
- 73.275 (2152) **White Colon** *Sideridis turbida* (Esper) **Nat S** 09 May - 13 September O
A local and uncommon species found on coastal sandhills with several attracted to sugar patches in The Elms in 1967. Taken at light in 1977 and annual in small numbers up to 2015. Not recorded in 2016. In 2017 singles were recorded on 26, 28 and 29 May and 16 and 19 June. Singles were recorded on seven dates in both 2018 and 2019 including a male on 24 June 2019 (IDH gen det TD), on 18 May 2020 (SZW). Eight individuals were recorded to light at HQ or on the Estate over six dates from 31 May to 21 June 2021. Singles were recorded to light on the beach or in the Haven on three nights between 15 June and 12 July 2022 and at HQ on five nights between 13 May and 02 July 2024.
- 73.276 (2166) **Campion** *Sideridis rivularis* (Fabricius) 09 May - 28 August O
Taken at light in July 1975 and almost annually from 1982 to 2002. Scarcer in recent years with small and diminishing numbers at HQ light annually from 2009 to 2015. Not recorded in 2016. Singles were recorded on 15 July 2017, 30 July 2018 and 05 August 2019 (IDH) but none in 2020. Singles were recorded to light at HQ on five dates between 09 June and 04 August 2021. Singles were recorded to light at HQ or on the Estate on five nights between 09 May and 22 July 2022 and at HQ on 31 July 2023. Larvae found in the calyx of White Campion on the Estate in 1970.
- 73.277 (2153) **Bordered Gothic** *Sideridis reticulata* (Goeze) **CR (PE) Nat R** x
A rare and declining species, Embry & Youden (1949) stated that it had been taken at Sandwich Bay. Not recorded since.

- 73.279 (2164) **Broad-barred White** *Hecatera bicolorata* (Hufnagel) NT 09 May - 30 August O
Found resting on seafront paling fences several times in 1970/71 and 1978 with small numbers at light almost annually to 2024. A single recorded on 17 May 2016. Singles were recorded on 13 June, 16 July and 21 August 2017, on four dates in 2018, ten over nine dates in 2019 and a similar pattern in 2020 (SZW/IDH). Recorded to light at Sandown Road on 21 July and in The Elms on 08 October 2021.
- 73.280 (2165) **Small Ranunculus** *Hecatera dysodea* (Denis & Schiffermüller) R
Formerly a relatively common species in the south-east, it had become extinct by the early part of the 20th century. It has become re-established in a small area of Kent and Essex and expanding. Recorded to light in the Haven on 24 July 2022 (FS).
- 73.281 (2173) **Lychnis** *Hecatera bicruris* (Hufnagel) 12 April - 29 September F/O
Small numbers attracted to light almost annually between 1967 and 2024 in two more or less overlapping broods, e.g., up to six in 2009 and 2010. In 2016 mainly singles were recorded on 13 nights between 25 May and 24 August with maxima of two on 30 July and 10 August. In 2017 68 individuals were recorded over 36 dates between 18 April and 25 August with a maximum of seven on 19 July.
- 73.282 (2170) **Varied Coronet** *Hecatera compta* (Denis & Schiffermüller) 21 June - 06 September R
Recorded at light in the Whitehouse on 30 June 1989 and at HQ light on 06 September 1989, 04 July 1995, 25 June 2009, 10 July 2010, 14 July 2013, 21 June and 02/03 July 2014 and 16 July 2016. A single was recorded to light at Sandown Road on 18 June 2020 and at HQ on 27 June 2023.
- 73.283 (2171) **Marbled Coronet** *Hecatera confusa* (Hufnagel) R
Recorded at HQ light in July 1972 (DMB), 08 June 1986 (NO) and mainly single records in 2000, 2001, 2004, 2009, 2020, 2013, 2014, 2016 and on 20 May 2019 (DT).
- 73.284 (2172) **White Spot** *Hadena albimacula* (Borkhausen) NT Nat R R
A species that feeds on Nottingham Catchfly *Silene nutans*, the nearest colony of which is on the cliffs either side of the South Foreland. One at HQ light on 08 May 2014 (JGCB, IPH) and 15 September 2015.
- 73.286 (2167) **Tawny Shears** *Hecatera perplexa* (Denis & Schiffermüller) 16 May - 22 July, 11 - 29 August O/R
First recorded in 1985 but only irregularly taken at light since, with none in 2011, or 2015 to 2018. A single recorded at HQ light on 25 May 2019 (DT). Singles attracted to light at HQ or on the Estate over four nights between 16 May and 22 July 2022 and at HQ on 23 June 2023.
- 73.289 (2196) **Striped Wainscot** *Mythimna pudorina* (Denis & Schiffermüller) 10 June - 07 August O
Recorded in small numbers intermittently from 1972 to 2010 and annually from 2013 to 2021. In 2017 a single was recorded on 10 June on the beach (DG) and subsequently on 14, 16 (CM), 21 and 22 June. None were recorded in 2022.
- 73.290 (2192) **Brown-line Bright-eye** *Mythimna conigera* (Denis & Schiffermüller) 19 June - 02 September O
Common at light from 1967 – 1972. Gradually scarcer to 1991 and less frequent since with most recent records of up to three in 2007 and annually from 2009-2014, but absent in 2015. In 2016 a single was recorded on 15 July and four on 04 August. Four individuals were recorded over three dates in July 2017. None were recorded in 2018. Six individuals were recorded over three nights at HQ or on the Estate beach in 2019 and a single on 26 July 2020. Singles were recorded on 12 July 2022 at HQ and in the Haven and at HQ on 21 July 2023.
- 73.291 (2199) **Common Wainscot** *Mythimna pallens* (Linnaeus) 05 May – 09 November C/Ab
A very common species regularly attracted to light up to 2024. Exceptional numbers occurred in 2009, including 676 at HQ light on 15 August. In 2017 640 individuals were recorded over 109 dates between 12 May and 30 September with maxima of 43 on 21 and 23 August. A total of 500+ individuals were recorded on 10 August 2020.
Agassiz, D.J.L., Beavan S.D. & Heckford R.J., 2024, *Checklist of the Lepidoptera of the British Isles* Second Edition treats the formally understood species **Mathew's Wainscot** *Mythimna favicolor* as a coastal form of **Common Wainscot** (*Mythimna pallens*) occurring in saltmarsh habitats from southern Suffolk to East Kent and from West Sussex to western Hampshire. Prior to that, moths attributed to **Mathew's Wainscot** *Mythimna favicolor* were recorded in mainly very small numbers in 1966, in 14 years from 1984 to 2017 and from 2019 to 2022 and 2024.
- 73.293 (2198) **Smoky Wainscot** *Mythimna impura* (Hübner) 12 May - 12 November Ab/C
Regular at light up to 2024 and sometimes abundant, such as in 2009 when there were exceptional numbers, including 132 on 14 July and 632 on 20 July. In 2017 872 individuals were recorded over 55 dates between 02 June and 08 September with a maximum of 76 on 15 July.
- 73.294 (2197) **Southern Wainscot** *Mythimna straminea* (Treitschke) 23 May - 29 September C/Ab
Taken at sugar in 1949 and annually at light between 1975 and 2024, e.g., in 2016 112 individuals were recorded over 39 nights between 07 July and 26 September with a maximum of 11 on 05 August. In 2017 109 individuals were recorded over 36 nights between 10 June and 29 September with a maximum of 15 on 19 July.

- 73.295 (2195) **Delicate** *Mythimna vitellina* (Hübner) 11 April - 15 November C
A migrant first recorded in 1945 with a total of around 78 from 1991 to 2015. This includes six singles in 2010, one-two on 11 dates in 2012, a total of 14 in 2013, all but one of which occurred in October. More common from 2016 to 2024, e.g., 49 individuals over 32 dates between 17 June and 02 November 2017 with a maximum of five on 02 October and a similar pattern in 2018. 156 individuals attracted to light, almost exclusively at HQ, over 51 dates from 22 June to 28 October with maxima of 12 on 27 and 29 September 2019.
- 73.297 (2194) **White-point** *Mythimna albipuncta* (Denis & Schiffermüller) 30 April - 11 November C
Previously a migrant species that is now breeding in Kent. At least 50 have been caught in most years from 2004 to 2024. In 2009 there was a cumulative total of 386 between 06 May and 27 October, most of which (297) were recorded in August, including 65 on 16 August. Subsequently, up to 100 in August 2010, 33 in August 2011, 80 in August 2012, 96 in August 2013, 36 in August 2014, 19 in August 2015. In 2016 a total of 490 individuals were recorded over 73 nights between 01 May and 09 October with maxima of 28 on 24 August and 07 September. A total of 581 individuals were recorded over 111 dates between 03 May and 02 November 2017 with a maximum of 32 on 12 August.
- 73.298 (2193) **Clay** *Mythimna ferrago* (Fabricius) 28 May - 09 September C
Attracted to light annually up to 2024, e.g., up to 13 in July 2009, 23 in July 2010, 17 in July 2013, 25 in July 2014 and 26 in July 2015. In 2016 a total of 173 individuals were recorded over 42 nights between 21 June and 23 August with a maximum of 20 on 15 July. Over 41 dates between 28 May and 11 August 2017 179 individuals were recorded with a maximum of 12 on 15 July.
- 73.299 (2201) **Shore Wainscot** *Mythimna litoralis* (Curtis) **Nat S** 13 June - 29 September R/O
A coastal species recorded in 1950 and on 27 June 1969, 15 July 2013, 12 July 2015, 06 July 2016, in the Whitehouse on 13 July (FS) and two to HQ light on 29 September 2018 and to HQ light on 23 June 2019. In 2020 15 were recorded to light on the Beach on 13 (AM/DS) and three on 25 June (NHM) and two in Hundred Acre on 17 July 2020. Singles were recorded to light at HQ on 29 June and 02 July 2021, in the Haven on 12 July 2022 (FS) and on the beach (two) on 16 June 2023 (KB) and at HQ on 18 July 2024 (IDH). A larva was swept nocturnally on Princes Beach on 03 May 2024 (RL/PS/BH).
- 73.300 (2202) **L-album Wainscot** *Mythimna l-album* (Linnaeus) 18 May - 31 October F
Formerly a scarce immigrant but now resident and breeding in rough grassland by the sea. Recorded in small numbers from 1993 to 2008, but increased significantly between 2009 and 2024 annually at light, including cumulative totals of 164 in 2009, 137 in 2010, 133 in 2011, 186 in 2012, 67 in 2016 and 107 in 2017 with a maximum of 13 on 25 September, for example. An individual of the form *o-album* was recorded at HQ light on 01 October 2019 (IDH).
- 73.301 (2205) **Shoulder-striped Wainscot** *Leucania comma* (Linnaeus) 12 May - 27 July O
Small numbers were regular at light until the 1990s, then very much scarcer until a resurgence of records in 2004 and 2005, then annually in small numbers between 2009 and 2023. In 2017 13 individuals were recorded over eight dates between 02 and 19 June with maxima of three on 02 and 03 June.
- 73.302 (2204) **Obscure Wainscot** *Leucania obsoleta* (Hübner) 06 May - 14 August O
A very local species first recorded in 1976 and 1977 with small numbers taken at light annually between 1982 and 2024. A total of 33 in 2011, including a peak of four on 28 June. Records for 2017 at Sandwich Bay showed mainly singles on five dates between 03 and 21 June. 20 individuals recorded over nine nights to light at HQ between 10 June and 19 July 2023 with a maximum of four on 28 June.
- 73.304 (2208) **Cosmopolitan** *Leucania loreyi* (Duponchel) R
A rare migrant recorded at HQ light on 12 August 2011 (JGCB).
- 73.305 (2209) **Flame Wainscot** *Senta flammea* (Curtis) **Nat S** R
A fen species, and possible immigrant, only recorded on 31 May 1982 (IDH), 06 June 1982 (IDH) and 13 May 2009 (JGCB).
- 73.307 (2119) **Pearly Underwing** *Peridroma saucia* (Hübner) 25 April – 10 November O
Recorded feeding at Ivy blossom on the Estate on 04 October 1971. Up to six at light in most years up to 2024. In 2017 singles were recorded on 27 May, 23 August, 07 and 20 September and 11, 24 and 25 October. In 2018 there was a single record on 13 September. 37 Individuals were recorded to light at HQ over 28 nights between 21 May and 10 November 2022 with maxima of four on 20 and 21 August.
- 73.308 (2099) **Portland Moth** *Actebia praecox* (Linnaeus) R
Singles at HQ light on 30 August 2006 and 15 August 2012 (JGCB, IPH).
- 73.313 (2081) **White-line Dart** *Euxoa tritici* (Linnaeus) **VU** 06 June - 21 September C
Attracted to light annually up to 2024 and often numerous, e.g., up to 146 in July 2010, 174 in July 2011 and 242 in August 2012. In 2017 383 individuals were recorded over 59 dates between 13 June and 27 August with a maximum of 30 on 19 July.

- 73.314 (2082) **Garden Dart** *Euxoa nigricans* (Linnaeus) **VU** 06 July - 17 September **O**
Small numbers were regular; but now much reduced and there have been few records since 2001, the most recent of which were singles on 18 July 2011 and 03 and 09 August 2015.
- 73.316 (2084) **Light Feathered Rustic** *Agrotis cinerea* (Denis & Schiffermüller) **Nat S** **R**
One at HQ light on 08 May 2011 (JGCB).
- 73.317 (2089) **Heart & Dart** *Agrotis exclamationis* (Linnaeus) 24 April - 26 October **Ab**
One of the most numerous species in the MV light up to 2024, e.g., up to 149 in July 2009, 137 in June 2014, 138 in June 2015 and a peak count for 2016 of 106 on 19 June with occasional individuals in September and October. In 2017 there were 1,130 individuals recorded over 97 dates from 27 April to 08 September with a maximum of 73 on 23 June.
- 73.319 (2087) **Turnip Moth** *Agrotis segetum* (Denis & Schiffermüller) 12 April - 20 November **C**
Recorded throughout the area and attracted to light up to 2024, e.g., up to 20 in August 2010. In 2016 ones to threes were recorded over 42 nights between 03 June and 19 July and 05 August and 14 November. In 2017 ones to threes were recorded over 54 dates between 02 May and 01 November with one record of nine individuals on 04 August. There was an unusual maximum at HQ light of 27 on 09 July 2018 and a very early record on 25 February 2021 at Sandown Road. 30 were found on ivy blossom at Slazenger's on 23 October 1998.
- 73.320 (2088) **Heart & Club** *Agrotis clavis* (Hufnagel) 24 May – 20 October **C**
Recorded at light in most years up to 2024 often in double figures, e.g., up to 77 in July 2009, 117 in July 2010, 126 in June 2011 and 96 in June 2015. In 2016 a total of 118 individuals were recorded over 31 nights between 14 June and 17 July with a maximum of 11 on 29 June. In 2017 there were 159 recorded over 29 nights between 03 June and 14 August with a maximum of 15 on 23 June.
- 73.322 (2085) **Archer's Dart** *Agrotis vestigialis* (Hufnagel) 25 May - 28 September **C**
Recorded at light up to 2024 e.g., peaks of 15-17 in July and August 2009, 21-22 in August 2010 and September 2011 and 44 in August 2012. In 2016 a total of 78 individuals were recorded over 36 nights between 10 July and 14 September with a maximum of eight on 11 August. In 2017 a total of 79 individuals were recorded over 37 nights between 13 June and 07 September with maxima of six on 14 and 24 August. There were double figure counts on six dates in 2019 including a maximum of 32 to light at Princes beach on 28 July.
- 73.323 (2093) **Sand Dart** *Agrotis ripae* (Hübner) **Nat S** 10 May – 17 October **O**
A seashore species, first recorded at sugar in The Elms in June 1978 and almost annual in small numbers at light from 1981 to 2012 and in 2015. Not recorded in 2016 or 2017. A male was recorded at HQ light on 17 October 2018 (SZW gen det TD). Recorded at HQ light on 26 May (SZW), 02 June (IDH) and on the Estate beach on 30 June 2019 (PF). Singles recorded to light at HQ on 19 and 21 May and in the Oasis on 25 June 2020. On 14 June 2021 individuals were recorded to light at HQ (one) and on Princes Beach (three). Singles recorded to light at HQ on 17 and 23 May 2022 and on the Beach on 12 June 2023 (SB). Larvae were found in sand beneath Sea Rocket near the Point on 12 August and 02 September 1998.
- 73.325 (2092) **Shuttle-shaped Dart** *Agrotis puta* (Hübner) 30 March - 28 October **C**
Double-brooded and recorded up to 2024, e.g., annual peaks of 53-67 between 2009 and 2014. In 2016 a total of 117 individuals were recorded over 59 nights between 06 May and 28 October with a maximum of nine on 05 August. In 2017 a total of 176 individuals were recorded over 73 nights between 17 April and 13 October with maxima of seven on 16 May and 17 July. More abundant in 2019 with several nights of double figure counts.
- 73.327 (2091) **Dark Sword-grass** *Agrotis ipsilon* (Hufnagel) 14 March - 09 December **F**
A regular migrant species recorded up to 2024. There have been cumulative totals of 132 in 2009, 89 in 2012, an exceptional 392 in 2013, of which 114 were recorded in August and 113 were recorded in October, and 81 in 2015. In 2016 one to four individuals were recorded over 29 nights between 30 March and 14 November. In 2017 a total of 136 individuals were recorded over 65 nights between 03 April and 15 November with a maximum of 11 on 01 August.
- 73.328 (2098) **Flame** *Axylia putris* (Linnaeus) 07 May - 30 September **C**
Regularly attracted to light up to 2024, e.g., up to 52 in June 2009, 49 in July 2013 and 61 in June 2014 with smaller numbers in the second generation. In 2016 a total of 215 individuals were recorded over 50 nights between 03 June and 15 September with a maximum of 22 on 04 July. In 2017 a total of 210 individuals were recorded over 51 nights between 16 May and 29 August with maxima of 18 on 14 and 16 June.
- 73.329 (2102) **Flame Shoulder** *Ochroleura leucogaster* (Linnaeus) 09 March - 24 September **C**
A common, double-brooded species, frequently numerous at light up to 2024, e.g., peaks in 2009 of 56 in May and 60 in August, 82 in August 2012, 106 in August 2013 and 74 in August 2016. In 2017 a total of

452 individuals were recorded over 113 nights between 11 April and 17 September with a maximum of 32 on 16 May.

- 73.330 (2102a) **Radford's Flame Shoulder** *Ochropleura plecta* (Freyer) 17 July -10 November R
Singles recorded to light at HQ on 25 October (IDH), 08 and 10 November 2020 (RJD/SZW), from 10 to 12 October and 09 November 2021 (all IDH), on 26 October 2022 (GJL) and on five nights between 08 and 21 October 2023.
- 73.332 (2122) **Purple Clay** *Diarsia brunnea* (Denis & Schiffermüller) 27 May - 28 June R
Singles recorded at light on 27 May 1981, 27/28 June 1982, 06 June 2014 and 22 and 24 June 2017 (IDH, IPH).
- 73.333 (2120) **Ingrailed Clay** *Diarsia mendica* (Fabricius) 26 May - 11 August O
One-two attracted to light in 1969, 1987, 1989, 2002, 2008, 2009 and 2010. Singles were recorded at light on 08 (SZW), 09 (SZW), 10 (PF/RoW) and 16 (FS) June 2017 and 23 and 25 June 2019 (IDH). Recorded to light in The Elms on 01 and 08 and in Middle Field on 08 and 15 June 2022 (KB) and at HQ on 06 June 2024 (MG&LN/IDH).
- 73.334 (2123) **Small Square-spot** *Diarsia rubi* (Vieweg) 04 May - 09 November F
Recorded at MV light up to 2024, e.g., up to 37 in September 2009, 53 in August 2014, 42 in August 2015 and a peak count of 102 in August 2016. In 2017 a total of 314 individuals were recorded over 76 nights between 15 May and 25 September with a maximum of 29 on 03 June. Ones or twos recorded to HQ light on 19 dates in 2019.
- 73.336 (2139) **Red Chestnut** *Cerastis rubricosa* (Denis & Schiffermüller) 15 February - 21 May F/O
Up to three recorded annually historically, increasing in more recent years, with peaks of 12 in April 2010, six in April 2013 and 11 in March 2014, though no more than three in 2015. In 2016 a total of 24 individuals were recorded over 15 nights between 22 March and 10 May. Singles to three individuals were recorded over 19 nights between 14 March and 02 May 2017. Recorded up to 2024.
- 73.338 (2118) **True Lover's Knot** *Lycophotia porphyrea* (Denis & Schiffermüller) **VU** R
Recorded at HQ light on 30 July and 07 August 2002 (KW).
- 73.339 (2105) **Dotted Rustic** *Rhyacia simulans* (Hufnagel) 28 June - 30 September O
Up to three almost annually from 1982, but the only recent records are of singles at HQ light on 03 August 2012 and in the Whitehouse on 16 June 2017 (FS).
- 73.342 (2107) **Large Yellow Underwing** *Noctua pronuba* (Linnaeus) 23 April - 23 November Ab
Abundant throughout the area and often abundant at MV light up to 2024. Peak counts in 2009 included up to 139 in August and 258 in September and in the run-up to National Moth Nights on 18/19 September, of 544 moths that were marked (mostly Large Yellow Underwings), only 26 were re-trapped, suggesting a considerable turnover of insects. In 2017 a total of 3,028 individuals were recorded over 166 nights between 23 April and 02 November with maxima of 169 on 19 July and 162 on 29 August. A larva was identified in the field on 04 April 2020 (RJD/SZW).
- 73.343 (2110) **Broad-bordered Yellow Underwing** *Noctua fimbriata* (Schreber) 14 June - 22 October C/F
Recorded annually at light in small numbers up to 2023, e.g., up to eight in August 2010, with exceptional numbers in 2013 when up to 70 were recorded in September. In 2017 a total of 94 individuals were recorded over 49 nights between 14 June and 01 October with a maximum of 12 on 19 July.
- 73.345 (2109) **Lesser Yellow Underwing** *Noctua comes* (Hübner) 27 May - 17 November C
Usually more abundant than the previous species and common at light up to 2024, e.g., up to 65 in July 2009 and 84 in August 2013. In 2017 a total of 407 individuals were recorded over 86 nights between 12 June and 16 November with maxima of 29 on 19 July, 24 on 25 September and 23 on 29 September. Larvae swept nocturnally on Princes Beach on 03 and in The Elms on 04 May 2024 (RL/PS/BH).
- 73.346 (2112) **Least Yellow Underwing** *Noctua interjecta* (Hübner) 23 June – 09 November C
Annual at light up to 2024, e.g., up to 22 in July 2009, 57 in August 2013 and 30 in July 2014. In 2017 a total of 90 individuals were recorded over 30 nights between 10 July and 05 September with a maximum of 13 on 15 July.
- 73.347 (2110a) **Langmaid's Yellow Underwing** *Noctua janthina* (Denis & Schiffermüller) 17 June - 05 October F/C
One at HQ light on 05 July 2009, five singles between 25 July – 05 October 2010 and annual from 2011 to 2024. Including up to five in July 2014 and a total of eight in July 2016. In 2017 a total of 27 individuals were recorded over 16 nights between 23 June and 16 August with maxima of four on 15 and 19 July. 138 individuals were recorded to light over 40 dates at HQ, on the Estate or at Sandown Road between 20 June and 10 August with a maximum of 16 on 09 July 2020.

- 73.348 (2111) **Lesser Broad-bordered Yellow Underwing** *Noctua janthina* (Borkhausen) 14 June - 09 November C
Recorded annually at light in small to moderate numbers up to 2024, e.g., up to 32 in August 2009, 39 in August 2010, 41 in August 2012 and 59 in August 2013. In 2016 a total of 163 individuals were recorded over 36 nights between 15 July and 06 September with a maximum of 18 on 13 August. In 2017 a total of 276 individuals were recorded over 67 nights between 24 June and 16 October with a maximum of 18 on 14 August.
- 73.349 (2113) **Stout Dart** *Spaelotis ravida* (Denis & Schiffermüller) **CR Nat R** R
The only records of this marshland species which is declining throughout Europe are singles taken on the Cinque Ports Golf Course on 13 July 1946 (Embry and Youden) and at HQ light on 30 July 1985 (MP).
- 73.350 (2137) **Great Brocade** *Eurois occulta* (Linnaeus) **Nat S** 04 August - 11 September R
An uncommon migrant from N Europe, with singles on 21 and 26 August 1995 (ACJ), 09 September 1996, 11 September 2015 (IDH photo SH), 04 August 2019 (SH/IDH, photo) and 27 August 2022 (IDH).
- 73.351 (2114) **Double Dart** *Graphiphora augur* (Fabricius) **NT** R
Recorded as "uncommon" on Worth Marshes in 1949 and subsequently recorded at SBBO on 14 July 1987 (AJM, MJP) and 09 July 1991 (PB et al).
- 73.352 (2138) **Green Arches** *Anaplectoides prasina* (Denis & Schiffermüller) 01 June - 18 August R
Singles on 01 June 1992 and 07 July 2010 and 12 July and two on 18 August 2014.
- 73.357 (2134) **Square-spot Rustic** *Xestia xanthographa* (Denis & Schiffermüller) 20 July - 09 November Ab
Plentiful throughout the area up to 2024 and readily attracted to light and sugar patches. In 2009, up to 300 were recorded in August, with up to 288 in September, and up to 297 were recorded in September 2013, though up to only 18 in 2015. In 2016 a total of 887 individuals were recorded over 76 nights between 24 July and 29 October with a maximum of 66 on 26 September. In 2017 a total of 633 individuals were recorded over 71 nights between 11 August and 16 October with a maximum of 92 on 25 September. A larva was identified at HQ on 24 March 2024.
- 73.358 (2133) **Six-striped Rustic** *Xestia sexstrigata* (Haworth) 01 August - 29 September C/F
First recorded on 09 August 1969 and seen feeding on Ragwort and Sea Aster flowers in August 1972. Historically up to 25 attracted to light annually. In 2016 a total of 125 individuals were recorded over 23 nights between 15 August and 10 September with a maximum of 24 on 27 August. In 2017 a total of 236 individuals were recorded over 40 nights between 11 August and 27 September with maxima of 19 on 25 and 29 August. Recorded up to 2024.
- 73.359 (2126) **Setaceous Hebrew Character** *Xestia c-nigrum* (Linnaeus) 17 April - 23 November Ab
Abundant throughout the area. Recorded up to 2024. Peak counts include up to 515 in August 2009, 309 in September 2013 and 752 on 06 September 2016. In 2017 a total of 3,405 individuals were recorded over 160 nights between 02 May and 16 November with over 100 individuals recorded on five dates including a maximum of 162 on 29 August.
- 73.361 (2128) **Double Square-spot** *Xestia triangulum* (Hufnagel) 25 May - 09 August F/O
Historically up to four recorded annually at light. In more recent years, up to 2020, the totals have been a little higher - up to ten in July 2010, 15 in June 2014, a total of 11 individuals in July 2016 and in 2017 44 individuals recorded over 14 nights between 15 June and 17 July with a maximum of six on 16 June. In 2021 there was a single record to HQ light on 24 June. Between 15 June and 26 July 2022 29 individuals were recorded to light at HQ and on the Estate over 13 nights. Recorded to light in Middle Field on 09 and at HQ on 14 July and 29 August 2023. Singles recorded to light in The Elms on 23 and 30 June and at HQ on 07 July 2024.
- 73.365 (2117) **Autumnal Rustic** *Eugnorisma glareola* (Esper) **NT** 11 September - 25 October C
Recorded at HQ light on 06 October 1998, with small numbers annually at light between 2009 and 2024, e.g., up to 14 in September 2013. In 2016 a total of 34 individuals were recorded over 19 nights between 19 September and 19 October with a maximum of five on 07 October. In 2017 a total of 68 individuals were recorded over 27 nights between 15 September and 18 October with a maximum of 11 on 24 September.
- 73.368 (2136) **Gothic** *Naenia typica* (Linnaeus) 15 May - 11 August R
Found uncommonly in the dunes areas in 1949 (Embry and Youden). Up to four occurred in 1976 (MAA, JVDD), 1981-1987 (DMB et al), 1989 (WEF), 1992 (PB et al), 1994 (MW et al), 1995 (ACJ et al), 2001 (IDH) and between 2009 and 2019 only recorded to light at HQ on 30 June 2010 and 15 September 2015. A single on 14 July 2022 was the first since 2015.

NOLIDAE

- 74.002 (2076) **Kent Black Arches** *Meganola albula* (Denis & Schiffmüller) 13 June - 16 October F
Recorded at light in many years from 1982 to 2024, e.g., up to nine in July 2009 and 10 in July 2013. In 2016 a total of 22 individuals were recorded over 13 nights between 06 and 31 July with a maximum of five on 15 July. In 2017 a total of 19 individuals were recorded over nine nights between 13 June. Singles were also recorded on 21 (SH) and 25 (SZW) September and 08 October (SZW) which may have been a late generation or immigrants. This idea was further strengthened with three individuals attracted to HQ light during September/October 2018 but none in this later period in 2019, one in 2020, none in 2021, one in 2022, none in 2023 and three in 2024.
- 74.003 (2077) **Short-cloaked Moth** *Nola cucullatella* (Linnaeus) 15 June - 05 September O
Recorded to 2024, e.g., 13 on 27 June 1983. In 2016 one or two were recorded on five nights between 14 and 22 July. In 2018 ten individuals were recorded at light on the Estate and at HQ light over seven dates between 11 June and 05 September. Larvae have been found on the Hawthorns on the Sampher.
- 74.004 (2078) **Least Black Arches** *Nola confusalis* (Herrich-Schäffer) 07 April - 16 June O
Several were found resting on palings on the Estate in May 1968 and since then recorded at Slazengers garden (1982 and 1994) and at HQ light in 2004. Recently, small numbers at light annually from 2010 to 2024. In 2016 a single recorded on 16 June. In 2017 singles were recorded on 13 and 22 April and two were recorded on 16 May. Singles were recorded on 08, 11 and in The Elms on 27 May 2018, 24 May 2019 and at Sandown Road on 11 April (IDH) and in The Elms on 17 May 2020 (SZW).
- 74.005 (2079) **Scarce Black Arches** *Nola aerugula* (Hübner) 04 July - 28 July R
An immigrant and transitory resident. Singles found on the wall of the Whitehouse on 28 July 1970, at HQ light on 22 July 2001, 04 July 2009 and in Restharrow Dunes on 04 July 2018 (GT).
- 74.007 (2421) **Scarce Silver-lines** *Bena bicolorana* (Fuessly) R
Singles to light at HQ on 27 June 2011, 15 July 2014, 03 September 2016 (IDH), in the Haven on 12 July 2022(FS) and at Sandown Road on 01 July 2024 (SH/IDH).
- 74.008 (2422) **Green Silver-lines** *Pseudoips prasinana* (Linnaeus) 23 May - 31 August R
For many years the only record of this woodland species was one on Royal St. George's Golf Course on 01 July 1979. However, in 2010 there were five singles between 07-12 July and four on 11 August, one was recorded at HQ light on 22 July 2013, followed by singles on 23 May and 31 August 2014, a total of seven in 2015, a single on 13 June 2017 and singles on 05 [HQ (SZW) and Estate beach (ME)] and 11 July 2019 [HQ, (IDH)].
- 74.009 (2423) **Oak Nycteoline** *Nycteola revayana* (Scopoli) 23 April - 16 October O
One at HQ light on 22 July 2010, singles on 23 April and on three dates from 27 June – 15 August 2011, one on 22 September 2013, up to three in 2014, four singles in July 2015. Singles were recorded on 15 and 16 May, 21 and 22 June, 14 July and 27 September 2017 and in the field in the Whitehouse on 15 June (FS) and attracted to HQ light on 16 October (IDH) 2018 and 18 August 2019 (JM/IDH). Singles were recorded to light in the Oasis on 25 June (AM/DS), at HQ on 02 July (RJD/IDH) and at Restharrow Dunes on 12 August 2020 (FS) and at HQ on 22 August 2021. Singles were recorded on three nights in July 2022. Recorded to light at HQ on 15 July and in The Elms on 04 October 2024.
- 74.011 (2418) **Cream-bordered Green Pea** *Earias clorana* (Linnaeus) 07 May - 04 September C/F
A local species of Osier beds that has increased in recent years, regularly recorded at light. Several recorded at light on the beach on 23 June 2005. Annual between 2009 and 2024, including peak counts of 22 in July 2009, 37 in July 2010, 23 in June 2011 and 25 in July 2013. In 2016 a total of 121 individuals were recorded over 44 nights between 07 June and 27 August with a maximum of 13 on 15 July. In 2017 a total of 101 individuals were recorded over 62 nights between 11 May and 25 August with a maximum of 15 on 16 June.

Recorders

DA David Agassiz
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MAA Mick Allen
BA Bob Arnfield
VA Verna Atkinson
SAA Simon Aubrey-Killen
DMB Dennis Batchelor
JGCB John Beugg
SBi Steve Bird
TBi Tom Bird
MB Marc Botham
MBo M Boreham
MBou Martin Boucher
EB Eric Bradford
DB D Brown
PB P Brown
SBr Sean Browne
SB Seb Buckton
TB Terry Butcher
KB Kevin Button
LCa Lucy Carden
JMC-H Chalmers-Hunt
MC M Chapman
JHC Dr J H Clarke
PC Patrick Clement
LC Leonard Cooper
TD Tony Davis
RD Bob Dean
RJD Becky Downey
RE Roger Edmonson
AME A Maitland Emmet
ME Martin Evans
SF Steven Falk
PF Paul Fallon
JF Justin Farthing
IF Ian Fisher
WEF Bill Fletcher
LTF L T Ford
RFra R Frampton
RF R French
MG M Game
MGo Mark Golley
HG Herbert Goss
AG Andrew Graham
DG Dave Grundy
CG C Gummer
PHA Peter Hall
MHa Mark Hammond
DFH Dennis Harle
TH Tony Harman
CH Colin Hart
NH Norman Heal
P&PH Peter and Pauline Heathcote
BH Barry Henwood
KH Ken Heron
CJH Carla Hill
IPH Ian Hodgson
JNH John Hollyer
MH Martin Honey
PDH Paul Howe
HCH H C Huggins
IDH Ian Hunter
JH James Hunter
SH Sally Hunter
ACJ Andy Johnson
JAJ Jenny Jones
NJ Nigel Jones

RJ Roger Jones
JK John Knowler
GJL Greg Lee
DL David Lees
RL Rebecca Levey
AML Andrew Lipczynski
IL I Lycett
JL John Langmaid
AJM Andy MacKay
CM Chris Manley
BMa Bill Martin
KM Karen May
DM David McGeever
DMcL Duncan McLean
CMi Charlotte Middleton
AM Andrew Millar
JM Jim Morgan
TM Tony Morris
BM (NH) British Museum expedition
IPN
NHM Natural History Museum expedition 2020 (Mark Sterling and David Lees)
GN Gina Nichol
LN Lynette Nicholson
SN Sue North
PTO Patrick Old
NO Nigel Odin
AO Ashen Oleander
TO/CM Tim Orr and Christine Morgan
JEO J E Owen
SP Stephen Palmer
AP Amanda Parker
MPa Mark Parsons
MP Mike Pennington
CP Colin Plant
JP J Platts
MJP Mike Pollard
SPR
SR Steve Reynaert
GSR G S Robinson
TR Tony Rowse
TMR T Ruck
KR Kevin Rylands
JDS
AS Aaron Sapsford
LS Leonie Selwyn
DS David Shenton
BS Bernard Skinner
LSm Lesley Smith
WS Will Soar
FS Francis Solly
MS Mark Sterling
PS Phil Sterling
ASy Andy Symes
AT A Taylor
DT Darren Taylor
ST S Terrier
SWT Steve Tookey
GT George Tordoff
JVDD John van der Dol
CV Chris Vincent
RW Richard Wall
RoW Ron Walters
SZW Steffan Walton
CW Claire Ward
KW Kevin Webb
JW J Wells
BKW B K West

SW Steve Whitehouse
SWi Sean Wileman
CWi Chris Wilkinson
MW M Williams
HW Heather Willis

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