



**Moths of Poole Harbour is a project of
Birds of Poole Harbour**

Moths in Poole Harbour 2017 – 2020

The ‘Moths of Poole Harbour’ project was set up in 2017 to gain knowledge of moth species occurring in Poole Harbour, Dorset, their distribution, abundance and to some extent, their habitat requirements. The study area uses the same boundaries as the Birds of Poole Harbour project.



Birds of Poole Harbour recording area

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The Moths of Poole Harbour project

The project was established in Summer 2017. Abigail Gibbs and Chris Thain, previous Wardens on Brownsea Island, were invited by Birds of Poole Harbour to undertake a study of moths in the Poole Harbour recording area. This is an area of some 175 square kilometres stretching from Corfe Castle in the south to Canford Heath in the north of the conurbation and west as far as Wareham.

4 moth traps were purchased for the project; 3 Mercury Vapour (MV) Robinson traps with 50m extension cables and one Actinic, Ultra-violet (UV) portable Heath trap running from a rechargeable battery. This was the capability that was deployed on most of the ensuing 327 nights of trapping.

Locations were selected using a number of criteria: Habitat, accessibility, existing knowledge (previously well-recorded sites were generally not included), potential for repeat visits, site security and potential for public engagement.

As the project got underway a number of invitations came in for help and inclusion in specific moth-related projects and public wildlife events.

Field work commenced from late July 2017. In 2018 work began on the heaths in March and continued until October. However, 2018 proved an interesting summer as unusually low rainfall coupled with a heatwave turned into potentially unrepresentative conditions for moth recording. Certainly, by July overall catches dropped to significantly lower totals than in the previous year.

In 2019 work began again on the heaths in early April and continued again until October. In 2020 the global Coronavirus pandemic severely impacted the start of the summer season and trapping did not begin until the beginning of June. However, Joe Parker (BoPH) was able to undertake a couple of sessions of trapping at Carey Estate in March and May and the results are included within this report and the Carey report.



Fig. 2 Moths of Poole Harbour Logo & Business Card

History of moth recording in Poole Harbour

Records of moths in Poole Harbour date back to the late 19th century.

In the 1930's Captain Cyril Diver, first Director-General of the Nature Conservancy, undertook a meticulous survey recording and mapping the flora and fauna of the Studland peninsula. Macro, and to a lesser extent, micro-moths formed a significant component of this work. Between 2013 and 2015 the National Trust undertook a major survey across Studland replicating as much as possible the work of 80 years previously. The original Cyril Diver moth recordings comprise the earliest significant data-set on moths. [The Cyril Diver Project | National Trust](#)

In 1962 the National Trust acquired Brownsea Island. The first Warden (latterly Property Manager), Alan Bromby, undertook extensive trapping, mostly behind the quay cottages, from 1962. As with the 1930's data from Studland, records from this time exist as little more than a list of species recorded with occasional annotations on frequency or numbers.

Recording continues on Brownsea and a very significant data-set has been built up over more than half a century. In the early 1980's a considerable number of micro-moth records were generated by A. A. Allen but it has not proved possible so far to pin down who this individual was. From the mid-1980's onwards considerable recording was undertaken on the Dorset Wildlife Trust Nature Reserve with a heavy emphasis on activity around the Villa on the central northern part of the island. Brownsea is an exceptionally important site for wildlife with a highly varied mix of rich habitats in a comparatively small site (c 200ha). Over 800 species have been recorded and considering certain areas and habitats have received comparatively little attention, it is likely that the real picture is even more productive. The moth recording on Brownsea is important in the context of habitat change and management. Past conservation issues such as the considerable expanse of *Rhododendron ponticum* have largely been eradicated but it will most probably be decades before the true benefit becomes apparent. In the meantime, newer issues, such as the prevalence of browsing by high numbers of non-native Sika Deer and the subsequent impact on woodland habitats and, in particular, a very important freshwater reedbed have become serious conservation problems.

There has been a long history of moth recording at Arne, dating back to the 1970's. This has included studies for the Rothamsted insect survey. During this time the land-holding of the RSPB has expanded considerably and there are new areas of the reserve network with comparatively little recording undertaken to date.

The Dorset Wildlife Trust has been actively recording most weeks at the Urban Wildlife Centre adjacent to Corfe Mullen tip for a number of years.

Elsewhere in the Harbour there has been considerable local recording by many different individuals. Nick Hull for example has a considerable data-set from adjacent to Lytchett Bay and Robin Heaward regularly trapped at Longfleet School within the conurbation. Over a number of years some co-ordinated efforts have been made by many interested recorders to target specific species. For instance, there have now been extensive efforts, including our own, to search for Speckled Footman formerly a regional speciality on Purbeck and now apparently seriously threatened. The discovery of a single individual at Coldharbour in 2020 will hopefully galvanise yet more efforts to find the species.

The timing of the current moth survey has proved most timely with the formation of the new National Nature Reserve in Purbeck combining a number of existing protected habitats. In particular heaths, into a large management super-unit. It is anticipated that over time this will bring significant benefits to the wildlife of Purbeck. However, some concerns exist around the extent to which the introduction of additional domestic livestock grazing, given the existing levels of deer browsing, may negatively impact some of the rarer species. For example, the Red Data Book species Dingy Mocha depends on very young age Sallow and its apparent recent strong decline may be linked to deer browsing.

TABLE 1. Trapping effort by site

LOCATION Number of sub-sites, where applicable, in brackets	NUMBER OF TRAPPING VISITS	YEAR VISITED	TOTAL NUMBER OF SPECIES RECORDED
Arne Moors (3)	44	2018, 2019, 2020	340
Ballard	30	2018, 2019, 2020	377
Canford Heath (3)	14	2018, 2019, 2020	123
Carey Estate (5)	58	2019, 2020	470
Corfe Castle	9	2017, 2018	162
Corfe River Meadow	2	2020	81
Creech Heath*	4	2019	33
Goathorn	27	2017,2018, 2019	249
Godlingstone Heath*	3	2018	15
Grange Heath*	3	2018	15
Ham Common	1	2019	57
Hamworthy	48	2019, 2020	306
Hartland Moor (2)	12	2018, 2019	139
Holton Heath	1	2018	52
Holton Lee (4)	42	2017, 2018, 2019	347
Longfleet School	1	2019	51
Round Island	1	2018	56
Sandford Gardens	2	2018, 2019	144
Slepe Heath (5)	20	2017, 2018, 2019	248
Stoborough Heath*	4	2018	15
Talbot Heath	1	2018	79
Upton Heath	1	2019	29
Wareham Forest	1	2019	71

*These sites were visited in very early season only (March and April) with the specific aim of recording *Acleris hyemana* as part of the 'Back from the Brink' project on Purbeck Mason Wasp (*Pseudopipona herrichii*).

In addition to the light trapping, separate small studies were undertaken in daytime to make use of pheromone lures, primarily for Clearwing species, and for leaf-mines. The results are incorporated into the main body of this report. There are separate project summaries for the pheromone project and leaf-mine work.

TABLE 2. Notable species recorded 2017-2020

A total of 57 species are considered notable in a national context and are summarised in Table 2 below. The designations are; Nationally Scarce A or Notable A (Na) (recorded in 16 – 30 10km squares since 1980), Nationally Scarce B or Notable B (Nb) (recorded from 31 – 100 10km squares since 1980) and Red Data Book (RDB) (recorded from fewer than 15km squares in Britain). Micro-moths are in italics in Latin and macro moths use the common English name.

A number of these species are in fact locally common in East Dorset. For example, both Horse Chestnut (Notable B) and L-album Wainscot (Notable B) are amongst the 50 commonest species recorded numerically. In the case of the latter this is mainly the result of recording at one apparent stronghold for the species (Hamworthy).

Some species are covered under Section 41 of the Natural Environment and Rural Communities Act 2006 which are defined as: “of principal importance for the purpose of conserving biodiversity” covered under section 41 [England] of the NERC Act 2006). These are listed in Table 3 below.

SPECIES	STATUS	TIMES RECORDED	NUMBER RECORDED	SITES RECORDED
<i>Acleris umbrana</i>	Na	1	1	Hamworthy
<i>Anania verbascalis</i>	Nb	3	3	Slepe Heath, Carey
<i>Assara terebrella</i> *	Na	1	1	Wareham Forest
<i>Bactra lacteana</i> *	Nb	1	1	Arne Moors
<i>Bactra robustana</i>	Nb	4	7	Arne Moors
Bordered Grey	Na	1	1	Slepe Heath
<i>Cnephasia conspersana</i>	Nb	1	1	Ballard
<i>Cosmopterix scribaiella</i>	Na	1	5	Holton Lee
<i>Crambus hamella</i>	Nb	7	38	Arne Moors, Holton Heath, Canford Heath
<i>Crambus silvella</i>	RDB	9	9	5 sites
<i>Crambus uliginosellus</i>	Nb	2	2	Arne Moors, Carey
Cream-bordered Green Pea	Nb	10	14	6 sites
<i>Cydia conicolana</i> *	Nb	1	1	Goathorn
<i>Cydia coniferana</i> *	Nb	1	1	Slepe Heath
<i>Cydia cospmopherana</i> *	Nb	1	1	Arne Moors
Dingy Mocha	RDB	2	2	Holton Heath, Slepe Heath
<i>Dioryctria sylvestrella</i>	Nb	4	5	Arne Moors, Carey
<i>Dolicharthria punctalis</i>	Nb	1	1	Ballard
<i>Donocaula mucronella</i>	Nb	2	2	Arne Moors, Goathorn
Dotted Border Wave	Nb	8	24	5 sites
Dotted Chestnut	Nb	1	1	Slepe Heath
<i>Elegia similella</i> *	Nb	1	1	Carey
<i>Eudonia delunella</i>	Nb	13	27	4 sites
<i>Evergestis limbata</i>	Nb	5	5	Ballard, Holton Heath, Carey
Festoon	Nb	10	15	7 sites
Flame Wainscot	Na	4	5	Holton Lee
Four-spotted Footman	Na	43	111	8 sites
<i>Glyphipterix schoenicolella</i> *	Na	4	9	Arne Moors, Ballard
Goat Moth	Nb	1	2	Carey
Grass Eggar	Na	4	11	Arne Moors, Slepe Heath
Horse Chestnut	Nb	78	398	18 sites
Jersey Tiger	Nb	16	29	4 sites

Kent Black Arches	Nb	21	47	9 sites
L-album Wainscot	Nb	45	206	5 sites
Marsh Oblique-barred	Nb	2	3	Arne Moors, Slepe Heath
Mocha	Nb	2	2	Goathorn, Holton Lee
<i>Monochroa lutulentella</i> *	Nb	1	1	Corfe River Meadow
<i>Monochroa palustrellus</i> *	Nb	1	1	Arne Moors
<i>Oncocera semirubella</i>	Nb	12	32	8 sites
Orange-tailed Clearwing	Nb	1	1	Carey Estate
<i>Pediasia contaminella</i>	Nb	24	120	6 sites
<i>Pempelia genistella</i>	Nb	24	47	11 sites
<i>Platyedra subcinerea</i>	Nb	1	1	Ballard
Purple-bordered Gold	Nb	4	3	Arne Moors, Goathorn, Holton Lee
Red-tipped Clearwing	Nb	3	7	Hatch Pond, Pockets Park
Ringed Carpet	Na	7	19	4 sites
Rosy Wave	Nb	14	27	Arne Moors, Goathorn, Holton Lee
Scarce Merveille du Jour	RDB	1	1	Carey Estate
<i>Scrobipalpa ocellatella</i> *	Nb	1	2	Ballard
<i>Scrobipalpa salicorniae</i> *	Na	1	1	Round Island
Six-belted Clearwing	Nb	5	18	Hatch Pond, Nuffield Estate, Christopher Crescent
Small Chocolate-tip	Nb	2	3	Arne Moors, Slepe Heath
Small Grass Emerald	Na	1	1	Wareham Forest
Southern Chestnut	RDB	12	27	7 sites
<i>Sparganothis pilleriana</i> *	Na	1	2	Arne Moors, Hamworthy
Webb's Wainscot	Nb	4	6	Arne Moors, Holton Lee
Yellow-legged Clearwing	Nb	2	1	Hatch Pond

*Verified by Dr Phil Sterling

TABLE 3. Section 41 species (“of principal importance for the purpose of conserving biodiversity” covered under Section 41 [England] of the NERC Act 2006) recorded by MoPH

SPECIES	TIMES RECORDED	NUMBER RECORDED	SITES RECORDED
Anomalous	3	3	Goathorn, Slepe Heath
Autumnal Rustic	11	13	Arne Moors, Ballard, Corfe Castle, Goathorn, Holton Lee, Hartland, Carey
Beaded Chestnut	16	92	Arne Moors, Ballard, Holton Lee, Carey, Hamworthy
Blood-vein	26	37	Corfe River Meadow, Arne Moors, Ballard, Holton lee, Carey
Brindled Beauty	7	10	Goathorn, Slepe, Hartland, Creech, Carey
Brindled Ochre	1	1	Hamworthy
Broom Moth	26	67	Arne Moors, Goathorn, Holton Lee, Slepe, Hartland, Talbot, Carey

Buff Ermine	60	161	15 sites
Centre-barred sallow	8	43	Corfe castle, Holton Lee, Carey
Cinnabar	25	84	Corfe River, Arne Moors, Ballard, Holton Lee, Sandford, Hartland, Grange Heath, Carey
Crescent	14	26	Corfe River, Arne Moors, Ballard, Holton Lee, Carey
Dark-barred Twin-spot Carpet	4	7	Ballard, Corfe Castle, Holton Lee
Deep-brown Dart	2	7	Carey, Hamworthy
Dingy Mocha	2	2	Slepe, Holton Heath
Dot Moth	3	3	Carey
Dusky Brocade	13	68	Arne Moors, Ballard, Corfe Castle, Goathorn, Hartland
Dusky Thorn	30	72	Ballard, Corfe castle, Holton Lee, Holton Heath, Sandford, Carey, Hamworthy
Ear Moth†	12	52	† Recorded as aggregate on 5 sites
Feathered Gothic	23	88	Arne Moors, Ballard, Corfe Castle, Goathorn, Holton Lee, Slepe, Carey
Flounced Chestnut	6	7	Ballard, Goathorn, Slepe
Galium Carpet	5	7	Corfe castle, Ballard
Garden Tiger	28	84	Arne Moors, Ballard, Corfe Castle, Holton Lee, Slepe, Carey
Ghost Moth	5	5	Ballard, Canford, Carey
Goat Moth	1	2	Carey
Green-brindled Crescent	5	6	Ballard, Holton Lee, Carey, Hamworthy
Grey Dagger†	9	13	† Recorded as aggregate at 6 sites
Heath Rustic	9	18	Arne Moors, Goathorn, Holton Lee, Carey
Hedge Rustic	11	19	Arne Moors, Ballard, Corfe Castle, Carey
Knot Grass	36	54	12 sites
Lackey	7	10	Corfe River Meadow, Ballard, Talbot
Large Wainscot	9	21	Arne Moors, Corfe Castle, Goathorn, Holton Lee, Canford, Carey
Minor Shoulder-knot	1	1	Sandford Gardens
Mottled Rustic	25	49	9 sites
Mouse Moth	6	7	Arne Moors, Goathorn, Holton Lee, Slepe
Neglected Rustic	10	13	Corfe Castle, Goathorn, Holton Lee, Talbot, Carey
Oak Hook-tip	34	55	8 sites
Oblique Carpet	18	58	Arne Moors, Holton Lee
Powdered Quaker	3	3	Slepe, Creech, Carey
Pretty Chalk Carpet	8	14	Ballard
Rosy Minor	3	3	Ballard, Carey
Rosy Rustic	29	75	Arne Moors, Ballard, Corfe Castle, Holton Lee, Carey, Hamworthy
Rustic†	88	683	†Recorded as aggregate at 15 sites
Sallow	9	11	Ballard, Corfe Castle, Goathorn, Slepe, Talbot, Carey, Hamworthy
September Thorn	5	8	Arne Moors, Ballard, Goathorn
Shoulder-striped Wainscot	30	104	8 sites

Small Emerald	2	4	Ballard, Holton Lee
Small Phoenix	13	20	Holton Lee, Carey
Small Square-spot	43	82	8 sites
White Ermine	31	98	8 sites
White-line Dart	14	18	9 sites

†Aggregate species

TABLE 4. Species recorded by MoPH known from 5 or fewer 1km squares in Living Record 2000-2019

SPECIES	NUMBER of 1km SQUARES	SITES RECORDED
<i>Achroia grisella</i>	4	Holton Lee, Carey Estate
<i>Acleris cristana</i>	2	Ballard
<i>Acleris kochiella</i>	2	Holton Lee
<i>Acleris literana</i>	4	Holton Lee
<i>Acleris notana</i>	4	Slepe Heath
<i>Acleris rhombana</i>	1	Carey Estate
<i>Acleris schalleriana</i>	3	Ballard, Talbot Heath
<i>Acleris umbrana</i>	2	Hamworthy
<i>Acrobasis consociella</i>	2	Arne Moors
<i>Acrobasis marmoreal*</i>	5	Corfe River Meadow, Carey Estate, Hamworthy
<i>Acrobasis repandana</i>	1	Canford Heath, Carey Estate
<i>Aethes beatricella</i>	X	Corfe River Meadow
<i>Aethes rubigana</i>	1	Ballard
<i>Agapeta zoegana</i>	5	Corfe River Meadow, Arne Moors, Carey Estate
<i>Agdistis bennetii</i>	4	Hamworthy, Round Island
<i>Agonopterix heracliiana*</i>	1	Carey Estate
<i>Agonopterix nervosa</i>	3	Carey Estate
<i>Alabonia geoffrella</i>	1	Carey Estate, Hamworthy
<i>Anacamptis blattariella*</i>	X	Carey Estate
<i>Anania perlucidalis</i>	3	Arne Moors, Holton Lee
<i>Anania verbascalis</i>	4	Sandford Gardens, Carey Estate
<i>Ancylis badiana*</i>	1	Ballard
<i>Ancylis geminana</i>	1	Slepe Heath
<i>Ancylis unguicella*</i>	1	Sandford Gardens
<i>Aproerema anthyllidella*</i>	4	Ballard
<i>Argyresthia albistria</i>	2	Goathorn, Holton Lee, Carey Estate, Talbot Heath
<i>Argyresthia cupressella</i>	4	Hamworthy
<i>Argyresthia curvella</i>	1	Hamworthy
<i>Argyresthia pruniella</i>	3	Carey Estate
<i>Argyresthia semifusca*</i>	2	Ballard
<i>Argyresthia spinosella*</i>	2	Ballard
<i>Assara terebrella*</i>	X	Wareham Forest
<i>Bactra furfurana*</i>	3	Arne Moors
<i>Bactra lacteana*</i>	1	Arne Moors
<i>Bactra robustana*</i>	4	Arne Moors, Holton Lee
Beautiful Carpet	1	Ballard
Beautiful Snout	5	Goathorn, Holton Lee, Carey Estate

Blackneck	1	Ballard
Blair's Mocha	1	Hamworthy
<i>Blastodacna hellerella</i>	3	Carey Estate
Blotched Emerald	5	Arne Moors, Holton Lee, Hamworthy
Bordered Grey	3	Slepe Heath
Brindled Ochre	X	Hamworthy
Brindled White-spot	4	Carey Estate
Broad-barred White	3	Hamworthy
Broad-bordered Bee Hawk	4	Holton Lee, Hartland Moor
Brown-veined Wainscot	4	Arne Moors, Holton Lee, Sandford Gardens
<i>Bryotropha domestica</i>	3	Hamworthy
Bulrush Wainscot	3	Holton Lee
<i>Caloptilia alchimiella</i>	1	Holton Lee, Talbot Heath
<i>Caloptilia azeella</i> *	4	Hamworthy
<i>Caloptilia betulicola</i>	4	Carey Estate
<i>Calybites phasianipennella</i>	5	Ballard, Holton Lee, Carey Estate, Hamworthy
Campion	4	Ballard, Goathorn
<i>Capperia britanniodactylus</i> *	4	Goathorn
<i>Capua vulgana</i> *	2	Hartland Moor
<i>Caryocolum fraternella</i> *	X	Carey Estate
Clancy's Rustic	3	Hamworthy
Cloaked Carpet	X	Carey Estate
<i>Cnephasia asseclana</i> *	X	Holton Lee
<i>Cnephasia stephensiana</i> *	3	Carey Estate
<i>Cochylimorpha straminea</i> *	5	Ballard, Goathorn, Holton Lee
<i>Cochylis nana</i>	4	Goathorn, Holton Lee
<i>Coleophora alticolella</i> *	3	Arne Moors
<i>Coleophora deauratella</i> *	X	Slepe Heath
<i>Coleophora glaucicolella</i> *	3	Arne Moors
<i>Coleophora lineolea</i> *	X	Ballard
<i>Coleophora mayrella</i> *	X	Carey Estate
<i>Coleophora taeniipennella</i> *	2	Arne Moors
<i>Coleophora trifolii</i> *	1	Holton Lee
Convolvulus Hawk	5	Ballard, Holton Lee, Hamworthy
<i>Cosmopterix scribaella</i>	3	Holton Lee
Cream-spot Tiger	3	Carey Estate
<i>Crociosema plebejana</i> *	3	Sandford Gardens
<i>Cydia conicolana</i> *	2	Goathorn
<i>Cydia coniferana</i> *	1	Slepe Heath
<i>Cydia cosmopherana</i> *	0	Arne Moors
<i>Cydia fagiglandana</i> *	5	Arne Moors, Goathorn, Carey Estate
Devon Carpet	2	Holton Lee
Dewick's Plusia	1	Carey Estate
<i>Digitalva pulicariae</i> *	3	Holton Lee, Sandford Gardens
<i>Dolicharthria punctalis</i>	2	Ballard
<i>Donacaula mucronella</i>	2	Arne Moors, Goathorn
Dotted Clay	2	Holton Lee, Slepe Heath
Dusky Sallow	4	Ballard, Carey Estate
<i>Ectoedemia argyropeza</i>	X	Slepe Heath
<i>Ectoedemia intimella</i>	X	Ballard
<i>Elachista albifrontella</i>	1	Carey Estate
<i>Elachista argentella</i>	5	Ballard, Corfe Castle
<i>Elachista atricomella</i> *	2	Ballard, Corfe Castle, Carey Estate

<i>Elachista canapennella</i>	1	Carey Estate
<i>Elachista freyerella*</i>	1	Holton Lee
<i>Elegia similella*</i>	2	Carey Estate
<i>Enarmonia formosana</i>	5	Hamworthy
<i>Endothenia marginana*</i>	5	Arne Moors, Ballard, Hamworthy
<i>Endothenia oblongana</i>	1	Corfe River Meadow
<i>Endothenia quadramaculana*</i>	2	Corfe River Meadow, Holton Lee, Slepe Heath
<i>Ephestia uniclorella*</i>	5	Carey Estate, Hamworthy
<i>Epiblema costipunctana*</i>	1	Ballard
<i>Epiblema scutulana*</i>	2	Arne Moors, Goathorn
<i>Epinota cruciana*</i>	X	Holton Lee
<i>Epinota immundana*</i>	4	Hamworthy
<i>Esperia sulphurella</i>	4	Ballard
<i>Eucosma hohenwartiana*</i>	4	Arne Moors, Carey Estate
<i>Eucosma obumbratana*</i>	3	Ballard, Canford Heath, Hamworthy
<i>Evergestis extimalis</i>	2	Talbot Heath, Hamworthy
<i>Evergestis pallidata</i>	2	Carey Estate
Feathered Brindle	1	Goathorn
Fern	2	Ballard
Flame Wainscot	3	Holton Lee
Flounced Chestnut	4	Ballard, Goathorn, Slepe Heath
Galium Carpet	4	Ballard, Corfe Castle
<i>Glyphipterix schoenicolella*</i>	5	Arne Moors, Ballard
<i>Glyphipterix simpliciella</i>	4	Arne Moors, Ballard
Goat Moth	3	Carey Estate
<i>Grapholita funebrana*</i>	1	Ballard
<i>Grapholita janthinana*</i>	5	Ballard, Hamworthy
Grass Eggar	4	Arne Moors, Slepe Heath
<i>Hedya ochroleucana*</i>	4	Arne Moors, Carey Estate
<i>Hedya salicella</i>	5	Hartland Moor
<i>Homeosoma sinuella*</i>	4	Ballard, Hamworthy
<i>Hypatima rhomboidella</i>	1	Corfe Castle
Little Emerald	2	Goathorn
<i>Lobesia littoralis*</i>	1	Hamworthy
<i>Lobesia reliquana</i>	2	Carey Estate
Lunar-spotted Pinion	3	Ballard, Goathorn
Marsh Oblique-barred	5	Arne Moors, Slepe Heath
<i>Matilella fusca</i>	4	Goathorn. Talbot Heath
<i>Metalampra italic*</i>	1	Hamworthy
<i>Metzneria lappella</i>	3	Ballard
<i>Micropterix aruncella*</i>	1	Ballard
Minor Shoulder-knot	3	Sandford Gardens, Hartland Moor
Mocha	4	Goathorn, Holton Lee
<i>Mompha propinquella</i>	5	Sandford Gardens, Carey Estate
<i>Mompha subbistrigella</i>	2	Hamworthy
<i>Monochroa lucidella*</i>	1	Arne Moors
<i>Monochroa lutulentella*</i>	X	Corfe River Meadow
<i>Monochroa palustrellus*</i>	1	Arne Moors
<i>Monopis weaverella</i>	4	Arne Moors, Ballard, Carey Estate
<i>Nematopogon metaxella</i>	1	Carey Estate
<i>Nemophora degeerella</i>	4	Ballard
<i>Nephopterix angustella</i>	3	Ballard
<i>Notocelia rosaecolana*</i>	5	Ballard

<i>Notocelia trimaculana</i>	5	Ballard
Oak Processionary	X	Carey Estate, Hamworthy
<i>Oegoconia quadripuncta</i>	4	Holton Heath
Orange-tailed Clearwing	0	Carey Estate
<i>Orthotelia sparganella</i>	2	Arne Moors
Pale Oak Beauty	1	Carey Estate
Pale-shouldered Brocade	5	Arne Moors, Corfe Castle, Sandford Gardens, Carey Estate
<i>Palpita vitrealis</i>	4	Hamworthy
<i>Pandemis cinnamomeana</i>	2	Corfe Castle
<i>Paraswammerdamia albicapitella*</i>	1	Ballard
<i>Paraswammerdamia nebulella</i>	4	Hamworthy
<i>Parornix torquilella*</i>	1	Hamworthy
<i>Phalonidia affinitana*</i>	2	Round Island
<i>Phtheochroa inopiana</i>	3	Carey Estate
<i>Phycitodes binaevella</i>	3	Arne Moors, Carey Estate
<i>Phycitodes maritima*</i>	2	Carey Estate, Hamworthy
<i>Phycitodes saxicola*</i>	3	Holton Lee, Hamworthy
<i>Phyllonorycter joannisi</i>	5	Carey Estate
<i>Platyedra subcinerea</i>	X	Ballard
<i>Pleurota bicostella*</i>	5	Slepe Heth
<i>Prays ruficeps</i>	2	Carey Estate
Pretty Chalk Carpet	1	Ballard
<i>Ptocheuusa paupella*</i>	3	Ballard
<i>Pyralis farinalis</i>	2	Hamworthy
<i>Pyrausta cingulata</i>	1	Goathorn
Reddish Light Arches	3	Corfe Castle, Ballard
Red-tipped Clearwing	1	Hatch Pond, Pocket's Park
Ringed Carpet	5	Arne Moors, Goathorn, Creech Heath, Grange Heath
Rivulet	3	Ballard, Corfe Castle
Rosy Marbled*	5	Corfe Castle, Goathorn, Hartland Moor
Rosy Underwing	1	Holton Lee
Rustic Shoulder-knot	5	Carey Estate
Satin Beauty	5	Carey Estate
Scarce Merveille du Jour	2	Carey Estate
<i>Scoparia basistrigalis</i>	5	Goathorn, Holton Lee
Scorched Carpet	5	Ballard
<i>Scrobipalpa ocellatella*</i>	1	Ballard
<i>Scrobipalpa salicorniae*</i>	X	Round Island
<i>Scythropia crataegella</i>	4	Ballard, Hamworthy
<i>Semioscopis steinkellneriana</i>	3	Hartland Moor
September Thorn	5	Arne moors, Ballard, Goathorn
Shaded Pug	1	Ballard
Six-belted Clearwing	X	Hatch Pond, Nuffield Estate, Christopher Crescent
Small Chocolate-tip	3	Arne Moors, Slepe Heath
Small Clouded Brindle	4	Arne Moors, Ballard
Small Dotted Buff	5	Arne Moors, Ballard, Carey Estate
Small Waved Umber	5	Ballard, Corfe Castle, Carey Estate
<i>Sophronia semicostella</i>	4	Hartland Moor
<i>Stenoptilia zophodactylus*</i>	5	Carey Estate
Svensson's Copper Underwing	3	Arne Moors
<i>Syncopacma larseniella*</i>	5	Ballard, Holton Heath, Carey Estate

<i>Syndemis musculana</i>	3	Ballard
Tawny Speckled Pug	1	Carey Estate
Tawny Marbled Minor*	2	Corfe Castle
Tawny Shears	2	Ballard
<i>Teleiodes vulgella</i> *	2	Ballard, Hamworthy
<i>Tinea semifulvella</i>	4	Ballard, Carey Estate
Twin-spot Carpet	1	Ballard
<i>Udea lutealis</i>	4	Slepe Heath
White-speck	3	Goathorn, Hamworthy
White-spotted Pug	2	Carey Estate
Wood Carpet	1	Ballard
Yellow-legged Clearwing	X	Hatch Pond
<i>Yponomeuta rorella</i> *	5	Arne Moors, Sandford Gardens
<i>Ypsolopha parenthesella</i>	4	Holton Lee
<i>Ypsolopha scabrella</i>	3	Ballard, Canford Heath

*Verified by Dr Phil Sterling

TABLE 5. Species recorded on a single site in Poole Harbour 2017-2020

*Species in **Bold** were recorded on more than one occasion at the site*

BALLARD	HOLTON LEE	CAREY ESTATE	HAMWORTHY
<i>Acleris cristana</i>	<i>Acleris kochiella</i>	<i>Acleris rhombana</i>	<i>Acleris umbrana</i> *
<i>Acleris laterana</i> *	<i>Acleris literana</i>	<i>Agonopterix heracliiana</i>	<i>Argyresthia cupressella</i>
<i>Acleris sparsana</i>	<i>Acrobasis suavella</i>	<i>Agonopterix nervosa</i>	<i>Argyresthia curvella</i>
<i>Aethes rubigana</i>	Bulrush Wainscot	<i>Anacamptis blattariella</i> *	Blair's Mocha
<i>Agonopterix arenella</i>	<i>Cnephasia asseclana</i> *	<i>Aphelia paleana</i>	Brindled Ochre
<i>Ancylys badiana</i> *	<i>Coleophora trifolii</i> *	<i>Apotomis betuletana</i> *	Broad-barred White
<i>Argyresthia albistria</i>	<i>Cosmopterix scribaella</i>	<i>Argyresthia pruniella</i>	<i>Bryotropha domestica</i>
<i>Argyresthia semifusca</i> *	Devon Carpet	<i>Batia lunaris</i>	<i>Caloptilia azelella</i>*
<i>Argyresthia spinosella</i> *	<i>Elachista freyerella</i> *	<i>Blastodacna hellerella</i>	Clancy's Rustic
Beautiful Carpet	<i>Epinotia cruciana</i> *	Brindled White-spot	<i>Clavigesta purdeyi</i> *
Blackneck	Flame Wainscot	<i>Caloptilia betulicola</i>	<i>Enarmonia formosana</i>
<i>Caloptilia semifascia</i>*	<i>Gypsonoma dealbana</i>	<i>Caryocolum fraternella</i> *	<i>Epinotia immundana</i> *
<i>Cnephasia conspersana</i> *	<i>Gypsonoma sociana</i>	Clay Triple-lines	<i>Lobesia littoralis</i> *
<i>Cochylis hybridella</i>	Marbled Beauty	Cloaked Carpet	<i>Metalampra italica</i> *
<i>Coleophora lineolea</i> *	<i>Prays fraxinella</i>	<i>Cnephasia incertana</i> *	<i>Mompha subbistrigella</i>
<i>Dolicarthria punctalis</i>	Rosy Underwing	<i>Cnephasia stephensiana</i>*	Mottled Umber
<i>Epiblema costipunctana</i>*	<i>Schoenobius gigantella</i>	<i>Cochylis dubitana</i>*	<i>Palpita vitrealis</i>
<i>Esperia sulphurella</i>	Vapourer	<i>Coleophora mayrella</i> *	<i>Paraswammerdamia nebulella</i>
Fern	<i>Ypsolopha parenthesella</i>	Cream-spot Tiger	<i>Parornix devoniella</i>
<i>Grapholita funebrana</i> *		Cream Wave	<i>Parornix torquiellecta</i> *
<i>Hedya nubiferana</i>		Currant Pug	<i>Phyllonorycter blancardella</i> *
<i>Lozotaenia forsterana</i>		Dewick's Plusia	<i>Phyllonorycter leucographella</i>
<i>Metzneria lappella</i>		Dot Moth	<i>Pyralis farinalis</i>
<i>Micropterix aruncella</i> *		<i>Elachista canapennella</i>	<i>Stigmella floslactella</i>
<i>Nemophora degeerella</i>		<i>Elegia similella</i> *	
<i>Nephopterix angustella</i>		<i>Evergestis pallidata</i>	

<i>Notocelia rosaecolana</i>*		Flame Carpet	
<i>Notocelia trimaculana</i>		Frosted Green	
<i>Paraswammerdamia albicapitella</i> *		<i>Lobesia reliquana</i>	
<i>Platyedra subcinerea</i>		<i>Nematopogon metaxella</i>	
Pretty Chalk Carpet		Oak-tree Pug	
<i>Ptocheusa paupella</i>*		Orange-tailed Clearwing	
Scorched Carpet		Pale Oak Beauty	
<i>Scrobipalpa occelatella</i> *		<i>Pammene aurita</i>	
Shaded Pug		<i>Phtheochroa inopiana</i>	
Slender Pug		<i>Phyllonorycter geniculella</i>	
<i>Syndemis musculana</i>		<i>Phyllonorycter joannisi</i>	
Tawny Shears		<i>Phyllonorycter tristrigella</i>	
Twin-spot Carpet		<i>Prays ruficeps</i>	
White Satin		<i>Psyche casta</i>	
<i>Zeiraphera isertana</i>		<i>Pterophorus pentadactyla</i>	
		Purple Clay	
		Rustic Shoulder-knot	
		Sandy Carpet	
		Satin Beauty	
		Scarce Merveille du Jour	
		Scarce Silver-lines	
		<i>Stenoptilia zophodactylus</i> *	
		<i>Stigmella tityrella</i>	
		Tawny-speckled Pug	
		<i>Tischeria ekebladella</i>	
		Twin-spotted Quaker	
		White-spotted Pug	

*Verified by Dr Phil Sterling

ARNE MOORS	GOATHORN	SLEPE HEATH	HARTLAND MOOR
<i>Acleris hastiana</i> *	<i>Acrocercops brongniardella</i>	<i>Acleris aspersana</i>	Barred Yellow
<i>Acleris notana/ferrugana</i>	<i>Capperia brittanioidactylus</i> *	<i>Ancylis geminana</i>	<i>Capua vulgana</i> *
<i>Acrobasis consociella</i>	<i>Cydia cinicolana</i> *	Bordered Grey	<i>Gracillaria syringella</i>
<i>Bactra furfurana</i>*	Feathered Brindle	<i>Coleophora deauratella</i>	<i>Hedya salicella</i>
<i>Bactra lacteana</i> *	Little Emerald	Common Heath	<i>Semioscopis steinkellneriana</i>
<i>Coleophora alticolella</i> *	<i>Pyrausta cingulata</i>	<i>Cydia coniferana</i> *	<i>Sophronia semicostella</i>
<i>Coleophora glaucicolella</i>*		Dotted Chestnut	Yellow-horned
<i>Coleophora taeniipenella</i> *		Dotted Clay	
<i>Cydia cosmopherana</i>		Feathered Thorn	
Marbled Green		Grass Wave	
<i>Monochroa lucidella</i> *		<i>Pleurota bicostella</i> *	
<i>Monochroa palustrellus</i> *		Sycamore	
<i>Orthotelia sparganella</i>			
<i>Parornix betulae</i> *			
Suspected			
Svensson's Copper Underwing			

*Verified by Dr Phil Sterling

CORFE RIVER MEADOW	CORFE CASTLE	SANDFORD GARDENS	ROUND ISLAND
<i>Aethes beatricella</i>	<i>Crambus lathoniellus*</i>	<i>Ancylis unguicella*</i>	<i>Depressaria daucella</i>
<i>Endothenia oblongana</i>	<i>Hypatima rhomboidella</i>	<i>Crociosema plebejana*</i>	<i>Phalonidia affinitana*</i>
<i>Monochroa lutulentella*</i>	Tawny Marbled Minor*	<i>Dichomeris marginella</i>	<i>Scrobipalpa salicorniae*</i>

*Verified by Dr Phil Sterling

HOLTON HEATH	HAM COMMON	WAREHAM FOREST	HATCH POND
<i>Oecogonia quadripucta*</i>	<i>Anarsia spartella</i>	<i>Assara terebrella*</i>	Burnet Companion
		Small Grass Emerald	Yellow-legged Clearwing

*Verified by Dr Phil Sterling

TABLE 6. The 50 commonest species recorded by MoPH

SPECIES	NUMBER RECORDED	TIMES RECORDED	NUMBER OF SITES
Large Yellow Underwing	8,722	231	18
<i>Chrysoteuchia culmella</i>	2,910	96	16
<i>Synaphe punctalis</i>	1,414	77	14
True Lover's Knot	1,818	87	18
<i>Agriphila straminella</i>	1,692	93	16
Heart and Dart	1,651	108	16
<i>Aroga velocella</i>	1,429	31	8
Smoky Wainscot	1,370	71	13
Dark Arches	1,346	103	18
Common Wainscot	1,017	110	14
Setaceous Hebrew Character	860	122	10
Square-spot Rustic	747	76	8
<i>Agriphila tristella</i>	736	66	9
Rustic / Uncertain aggregate	687	89	15
Common Rustic aggregate	680	94	15
Vine's Rustic	586	92	11
Scarce Footman	573	60	15
<i>Aristotelia ericinella</i>	453	18	7
Horse Chestnut	398	78	18
Silver Y	370	92	14
Flame Shoulder	344	131	15
<i>Agriphila selasella</i>	337	28	6
Broad-bordered Yellow Underwing	316	66	12
Bright-line Brown-eye	299	90	15
Riband Wave	286	65	13
Elephant Hawk-moth	280	77	16
<i>Epiphyas postvittana</i> (Light Brown Apple Moth)	280	81	14
<i>Cydalima perspectalis</i> (Box-tree Moth)	272	27	3
<i>Blastobasis adustella</i>	268	60	13
Dingy Footman	264	46	11
Double-striped Pug	261	119	19
<i>Eudonia mercurella</i>	259	80	15
<i>Endotricha flammealis</i>	252	48	12
<i>Bactra lancealana</i>	247	47	9
Buff Footman	245	45	11
Lunar Underwing	244	49	8

Straw Dot	239	82	13
<i>Celypha lacunana</i>	226	73	9
Lesser Yellow Underwing	221	87	13
<i>Nymphula nitidulata</i> (Beautiful China-mark)	219	26	5
Beautiful Yellow Underwing	219	34	10
<i>Plutella xylostella</i> (Diamond-back)	212	68	17
Narrow-winged Pug	211	44	13
Treble Lines	210	34	7
Flounced Rustic	209	44	8
L-album Wainscot	206	45	5
Black Rustic	205	43	9
Grey Pine Carpet	203	37	6
Black Arches	198	45	11
<i>Pleuroptya ruralis</i> (Mother of Pearl)	190	50	12

SPECIES LIST

The following species list contains all the species recorded by MoPH 2017 – 2020. For ease of use, species are in alphabetical order. Micro-moths are listed in *italic* with the Latin name used, with any common vernacular names appearing in brackets. Each species has its individual ‘Bradley & Fletcher’ (BF) moth number which appears at the start of each entry. Macro moths use the English name first with Latin name following.

Where a species has a national designation, owing to its rarity, the abbreviation is entered in bold immediately after the species name. The designations are; Nationally Scarce A or Notable A (**Na**) (recorded in 16 – 30 10km squares since 1980), Nationally Scarce B or Notable B (**Nb**) (recorded from 31 – 100 10km squares since 1980) and Red Data Book (**RDB**) (recorded from fewer than 15km squares in Britain). Certain species are covered under Section 41 of the NERC Act 2006 which are: **“of principal importance for the purpose of conserving biodiversity” covered under section 41 [England] of the NERC Act 2006**. If this is the case ‘(S41)’ will appear after the species name.

Distribution, local status and larval food plant is given where this knowledge exists and this is taken from the Dorset Moth Group website. It should be noted that some of this information is a little bit old and naturally there is a tendency for the status of species to change over time, but it is provided for context.

The sites where each species was recorded by MoPH is listed followed by brackets with two numbers. The first is the number of times the species was recorded and the second is the total number of individuals. For instance, Holton Lee (2,17) would mean a species was recorded on 2 occasions at Holton Lee and the total number of moths of that species was 17. For significant or scarcely recorded species, specific dates may be included as well as the name of the verifier. It should be noted that the MoPH figures are a compendium from all the traps (normally 4 each night) that were operated on any given occasion.

A detailed breakdown of each site and each night’s trapping (again with amalgamated totals from all traps) is available in additional site-based spreadsheets.

Finally, the number of 1km squares in which each species has been recorded on Living Record for the Poole Harbour recording area is included at the end. This is unlikely to be a wholly definitive figure as many recorders have yet to use Living Record, but it provides the best assessment of the known status of moths since the year 2000.

1331 *Acentria ephemerella* (Water Veneer) – A fairly common and widely distributed resident in Dorset. Larvae feed on pondweed. Recorded at Holton Lee in July 2018, Arne Moors in August 2018 and Carey July 2019. Only found once at each site, singles at Arne Moors (Site 2) and around the pond at Carey but 30 trapped by actinic light by the small heath pond (with viewing platform) at Holton Lee. Unusually, the larvae are entirely aquatic. Holton Lee (1,30) Arne Moors (1,1) Carey Estate (1,1). Recorded in 10 squares on Living Record 2000-2019.



1426 *Achroia grisella* (Lesser Wax Moth) – Scarce and thinly distributed resident in Dorset. 2 records, from Holton Lee in 2019 (confirmed by Tony Davis) and Carey Estate on 28th September 2020. Larvae of this species feed on the wax of honeycomb in bee hives and nests. Holton Lee (1,1) Carey Estate (1,1). Recorded in 4 squares on Living Record 2000-2019.

Fig. 3 Lesser Wax Moth

1043 *Acleris aspersana* – An uncommon and thinly distributed resident in Dorset. Single record, 2 on Sleppe Heath on 17th July 2017. The larvae feed on a range of herbaceous plants in open areas such as grassland, downs and heath. Sleppe Heath (1,2). Recorded in 7 squares on Living Record 2000-2019.

1054 *Acleris cristana* – An uncommon and thinly distributed resident in Dorset. A single record from Ballard in September 2018. The adult is very distinctive with raised scales and the larvae feed on Hawthorn and Blackthorn which are abundant at the site. Ballard (1,1). Recorded in only 2 squares on Living Record 2000-2019.

1045 *Acleris ferrugana* / *notana* aggregate – The 2 species are effectively indistinguishable without genitalia examination. In Dorset both species are considered scarce and local residents. The larvae of *A. ferrugana* feed on Oaks and Sallow and the larvae of *A. notana* feed on Birch. Corfe River Meadow (1,1) Goathorn (1,4) Holton Lee (2,4) Hartland (1,1) Carey Estate (1,2) Talbot Heath (1,3). Recorded in 4 squares on Living Record 2000-2019.

1036 *Acleris forsskaleana* – An uncommon and thinly distributed resident in Dorset. The larvae feed on Field Maple and Sycamore. Recorded at Sleppe Heath in July 2018, Carey in August 2019 and a garden in Hamworthy in August 2020. The larvae feed on Field Maple and Sycamore. Carey Estate (1,1) Hamworthy (1,1) Sleppe Heath (1,1). Recorded in 11 squares on Living Record 2000-2019.

1053 *Acleris hastiana* – An uncommon and thinly distributed resident in Dorset. Recorded once at Arne Moors in June 2018. Identification confirmed by Dr Phil Sterling. The larvae feed on small-leaved willows. Arne Moors (1,1). Recorded in 5 squares on Living Record 2000-2019.

1055 *Acleris hyemana* – A scarce and thinly distributed heathland resident, the larvae feeding on heather species. This species was extensively looked for on the heaths in the early seasons of 2018 and 2019, in collaboration with the Back from the Brink project for Purbeck Mason Wasp which feed their own larvae on the caterpillars of this species. Found on all of the wasp sites where it was sought as well as at Holton Lee. Only small numbers were trapped in March and April. Grange Heath (1,1) Sleppe Heath (1,2) Hartland Moor (3,7) Soldier's Road (2,2) Godlingstone Heath (2,2) Creech Heath (1,1) Stoborough Heath (1,1) Holton Lee (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019. A separate report summarising the specific *Acleris hyemana* project has been produced by MoPH.

1050 *Acleris kochiella* – A scarce and thinly distributed resident the larvae feed on Elm. One at Holton Lee 8th July 2018. Holton Lee (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1038 *Acleris laterana* / *comariana* – *Acleris laterana* is a common and widespread resident whilst *comariana* is rare and very local in Dorset. The two species are considered to require examination of genitalia for determination so are more commonly aggregated. The aggregate species was recorded at Ballard, Corfe Castle, Goathorn, Sandford Gardens, Carey Estate and Hamworthy. Recorded in 2 x 1km squares on Living Record 2000-2019.

1038 *Acleris laterana* – Common and widespread. One at Ballard on 8th September 2020, a male, was confirmed by Dr Phil Sterling. This was the only definitive identification of the 2 species. Ballard (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1061 *Acleris literana* – An uncommon and thinly distributed resident. Larvae feed on Oak. A single record at Holton Lee on 12th September 2019. Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.



Fig. 4 *Acleris literana*

1045 *Acleris notana* – A scarce and local resident, the larvae feed on Birch. See *Acleris notana / ferrugana* above. One on Slepe Heath on 19th July 2018, a male, confirmed by Dr Phil Sterling, is the only definitive record. (Slepe Heath 1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1042 *Acleris rhombana* (Rhomboid Tortrix) – An uncommon and thinly distributed resident. Foodplants include Hawthorn, Blackthorn, Dog Rose, Hazel and Oak. Single recorded at Carey Estate on 23rd July 2020. Carey (1,1). Recorded in 1 x 1km squares on Living Record 2000-2019.

1047 *Acleris schalleriana* – A scarce and thinly distributed resident, the larvae feeding on Wayfaring Tree, Guelder Rose and cultivated Viburnum. Recorded from Talbot Heath on 29th June 2018 and Ballard on 19th October 2020. Talbot Heath (1,1) Ballard (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1041 *Acleris sparsana* – An uncommon and thinly distributed resident, the larvae feed on Beech and Sycamore. One on Ballard on 15th October 2018. Ballard (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 5 *Acleris umbrana*

1052 *Acleris umbrana* (Na) – A very rare resident in Dorset, the larvae feed on Blackthorn. One in Hamworthy on 12th July 2020 confirmed from a photograph, by Jack Oughton. Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1048 *Acleris variegana* (Garden Rose Tortrix) – A fairly common and widespread resident. The larvae feed on various fruit-bearing plants and shrubs. Recorded from Arne Moors (2,2) Ballard (3,6) Sandford Gardens (1,2) Carey Estate (1,1) and Hamworthy (6,8). Recorded in 13 x 1km squares on Living Record 2000-2019.

1439 *Acrobasis advenella* – A fairly common and widely distributed resident. Larvae feed on Blackthorn, Hawthorn and Rowan. Recorded from Ballard (4 on 6th August 2018) and Hamworthy (1 on 9th August 2020). Recorded in 11 x 1km squares on Living Record 2000-2019.

1437 *Acrobasis consociella* – A scarce and thinly distributed resident, larvae feed on Oak. Recorded at Arne Moors on 4th August 2020. Arne Moors (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1440 *Acrobasis marmorea* – An uncommon and thinly distributed resident. The larvae feed on Blackthorn, Hawthorn and Sorbus spp. Recorded at Corfe River Meadow (7th July 2020), Carey Estate (twice, on 8th and 15th June 2020) and Hamworthy (31st July 2020), confirmed by Dr Phil Sterling. Corfe River Meadow (1,1) Carey Estate (2,2) Hamworthy (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

1436 *Acrobasis repandana* – A scarce and thinly distributed resident. The larvae feed on Oak. As part of an apparent large influx of the species it was recorded on Canford Heath on 8th July 2020 and Carey Estate On 29th June 2020. Canford Heath (1,1) Carey Estate (1,1). Recorded in 1 x 1km squares on Living Record 2000-2019.



Fig. 6 *Acrobasis repandana*

1438 *Acrobasis suaveilla* – An uncommon and thinly distributed resident, the larvae feed on Blackthorn. Recorded at Holton Lee (1 on 22nd July 2018) and Hamworthy (2 on 26th July 2020). Holton Lee (1,1) Hamworthy (1,2). Recorded in 12 x 1km squares on Living Record 2000-2019.

313 *Acrocerops brongniardella* – Rare and very local resident, the larvae feed on Oaks and Holm Oak. Goathorn one on 28th June 2018. Goathorn (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1517 *Adaina microdactyla* (Hemp-agrimony Plume) – A scarce and thinly distributed resident, the larvae feed on Hemp Agrimony. Recorded from Carey Estate (1 in September 2019 and 2 in July 2020), Ballard (4 on 28th May 2018) and Hamworthy (26th July 2020). Ballard (1,4) Carey Estate (3,3) Hamworthy (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



951 *Aethes beatricella* – A rare and very local resident. One at Corfe River Meadow on 2nd July 2020, where the larval foodplant, Hemlock, is common. Corfe River Meadow (1,1). No other records on Living Record 2000-2019. Elsewhere recorded on Brownsea Island in 2002 and 2014.

Fig. 7 *Aethes beatricella* in tube

945 *Aethes cnicana* – An uncommon and thinly distributed resident, the larvae feed on thistles. Recorded from Arne Moors, Goathorn, Hartland Moor and Carey Estate. Arne Moors (7,18) Goathorn (1,3) Hartland Moor (1,1) Carey Estate (3,9). Recorded in 7 x 1km squares on Living Record 2000-2019.

946 *Aethes rubigana* – An uncommon and thinly distributed resident, the larvae feed on Burdock. One on Ballard on 9th July 2018. Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

937 *Agapeta hamana* – A common and widespread resident, the larvae feed on Thistle. Recorded on 6 sites. Corfe River Meadow (2,3) Arne Moors (3,3) Ballard (8,29) Goathorn (3,3) Holton Lee (4,9) Carey Estate (9,15). Recorded in 18 x 1km squares on Living Record 2000-2019.

938 *Agapeta zoegana* – An uncommon and thinly distributed resident, the larvae feed on Knapweed. Arne Moors singles on 9th and 24th July 2019, Corfe River Meadow 1 on 2nd July and 2 on 7th Jul 2020, Carey Estate 1 on 8th June 2020. Arne Moors (2,2) Corfe River Meadow (2,3) Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 8 *Agapeta zoegana*

1488 *Agdistis bennetii* (Saltmarsh Plume) – A scarce and thinly distributed resident, the larvae feed on Sea Lavender. Recorded at Round Island (4 on 12th August 2018) and Hamworthy (singles on 3 occasions in 2019 and 2020). Round Island (1,4) Hamworthy (3,3). Recorded in 4 x 1km squares on Living Record 2000-2019.



Fig. 9 Saltmarsh Plume

697 *Agonopterix arenella* – A fairly common and widely distributed resident. Larvae feed on Thistles, Knapweeds and Burdock. One on Ballard 28th May 2018. Ballard (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

688 *Agonopterix heracliiana* – A fairly common and widespread resident, the larvae feed on Umbellifers. One on Carey Estate on 20th July 2019. Carey Estate (1,1). Recorded in 1 x 1km squares on Living Record 2000-2019.

706 *Agonopterix nervosa* – An uncommon and thinly distributed resident, the larvae feed on Broom, Gorse and Greenweed. One on Carey Estate on 25th June 2020. Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

701 *Agonopterix ocellana* – An uncommon and thinly distributed resident, the larvae feed on Willows and Sallow. Carey Estate (1 on 26th July 2020), Ballard (1 on 8th September 2020). Ballard (1,1) Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

705 *Agonopterix umbellana* – A scarce and restricted resident, the larvae feed on Gorse and Greenweed. Recorded on Goathorn (1 on 1st May 2019) Canford Heath (1 on 4th August 2017) and Grange Heath (1 on 22nd April 2019). Canford Heath (1,1) Grange Heath (1,1) Goathorn (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



Fig. 10 *Agonopterix umbellana*, Grange Heath. Photo ©Terry Bagley

1309 *Agriphila geniculea* – Fairly common but thinly distributed or restricted resident, the larvae feed on short fine grasses. Recorded on 8 sites: Carey Estate (10,46) Holton Lee (2,2) Ballard (2,5) Corfe Castle (2,3) Arne Moors (2,4) Canford Heath (1,8) Hamworthy (13,76) Sleppe Heath (3,7). Recorded in 27 x 1km squares on Living Record 2000-2019.

1306 *Agriphila inquinatella* – Fairly common and widely distributed resident. Larvae feed on grasses. Recorded from 14 sites. Carey Estate (4,11) Holton Lee (2,3) Ballard (1,1) Arne Moors (3,6) Canford Heath (6,42) Goathorn (3,3), Hamworthy (8,16) Sleppe Heath (8,50) Holton Heath (1,8) Sandford Gardens (1,1) Round Island (1,17) Ham Common (1,4) Wareham Forest (1,6). Recorded in 28 x 1km squares on Living Record 2000-2019.

1307 *Agriphila latistria* – An uncommon and thinly distributed and restricted resident. Larvae feed on grasses. Arne Moors (1,2) Goathorn (4,5) Holton Lee (2,3) Sleppe Heath (2,4) Canford Heath (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

1303 *Agriphila selasella* – An uncommon and thinly distributed or restricted resident. Larvae feed on Common Saltmarsh-grass and Sheep's Fescue. Arne Moors (11,302) Holton Lee (6,8) Canford Heath (1,1) Carey Estate (8,24) Wareham Forest (1,1) Hamworthy (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1304 *Agriphila straminella* – Very common and widespread resident. The larvae feed on various short grasses, especially Sheep's-fescue. Arne Moors (22,605) Ballard (4,27) Goathorn (5,14) Holton Heath (1,40) Holton Lee (9,162) Sandford Gardens (1,62) Canford Heath (8,28) Round Island (1,2) Carey Estate (23,521) Longfleet School (1,3) Hamworthy (9,64) Wareham Forest (1,50) Corfe River Meadow (1,5) Slepe Heath (7,136) Ham Common (1,4). Recorded in 41 x 1km squares on Living Record 2000-2019.

1305 *Agriphila tristella* – A very common and widespread resident. Larvae feed on various grasses. Arne Moors (1,2) Ballard (5,13) Corfe Castle (1,1) Goathorn (3,6) Holton Lee (15,76) Sandford Gardens (1,1) Slepe Heath (5,10) Carey Estate (14,213) Hamworthy (8,48). Recorded in 34 x 1km squares on Living Record 2000-2019.



652 *Alabonia geoffrella* – An uncommon and thinly distributed resident. The larvae feed on rotting wood. Recorded twice. Hamworthy 2 on 2nd June 2020, Carey Estate 1 found by Brittany Maxted on 3rd June 2020. Carey Estate (1,1) Hamworthy (1,2). Recorded in 1 x 1km squares on Living Record 2000-2019.

Fig. 11 *Alabonia geoffrella*

2281 Alder Moth – *Acrionicta alni* – An uncommon and thinly distributed or restricted resident. Larvae feed on broad-leaved trees, especially Alder. Ballard singles on 14th and 28th May 2019. Carey Estate, 3 trapped by Joe Parker on 21st May 2020. Ballard (2,2) Carey Estate (1,3). Recorded in 9 x 1km squares on Living Record 2000-2019.

1032 *Aleimma loeflingiana* – Fairly common and widespread resident. Larval foodplant is Oak. Corfe River Meadow 1 on 2nd July 2020, Holton Lee 1 on 22nd June 2018, Hamworthy 1 on 2nd June 2020. Corfe River Meadow (1,1) Holton Lee (1,1) Hamworthy (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1288 *Alucita hexadactyla* (Twenty-plume Moth) – Common and fairly widespread resident, the larvae feed on Honeysuckle. Holton Lee (1,1) Carey Estate (6,18) Hamworthy (1,1) Sandford Gardens (1,1) Round Island (1,1). Recorded in 19 x 1km squares on Living Record 2000-2019.

1497 *Amblyptilia acanthadactyla* (Beautiful Plume) – An uncommon and thinly distributed or restricted resident. Larvae feed on a large range of plants. Slepe Heath 1 on 24th July 2027, Carey Estate 1 on 11th August 2020, Hamworthy (recorded 5 times in 2019 and 2020, Ham Common 1 on 6th August 2019. Slepe Heath (1,1) Carey Estate (1,1) Hamworthy (5,7) Ham Common (1,1). Recorded in 19 x 1km squares on Living Record 2000-2019.

854 *Anacampsis blattariella* – A scarce and thinly distributed resident, the larvae feed on Birch. A single on Carey Estate on 10th August 2020, a female, was confirmed by Dr Phil Sterling. Carey Estate (1,1). This is apparently the first record for the Harbour this century as the species is not recorded on Living Record 2000-2019. One recorded on Brownsea Island in 1980.

1378 *Anania coronata* – Fairly common and widely distributed resident. Larval foodplant is Elder. Recorded at Longfleet School, 6 on 15th July 2019 and Hamworthy, 1 on 21st June 2020. Longfleet School (1,6) Hamworthy (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1385 *Anania crocealis* – Uncommon and thinly distributed or restricted resident, the larvae feed on Common Fleabane and Ploughman's Spikenard. Arne Moors (1,1) Ballard (4,4) Canford Heath (1,1) Carey Estate (4,5) Wareham Forest (1,2). Recorded in 11 x 1km squares on Living Record 2000-2019.

1376 *Anania hortulata* (Small Magpie) – Very common and widespread resident, the larvae feed on nettles. Ballard (2,2) Corfe Castle (3,8) Holton Lee (3,3) Sandford Gardens (1,1) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (9,9) Hamworthy (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1377 *Anania lancealis* – Fairly common and widely distributed resident, the larvae feed on Hemp Agrimony. Ballard 2 on 9th July 2018, 3 on 8th July 2019, Holton Lee 1 on 8th June 2018, Carey Estate 8 recorded on 5 occasions in 2019 and 2020. Ballard (2,5) Carey Estate (5,8) Holton Lee (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1380 *Anania perlucidalis* – Rare and very local resident, the larvae feed on Thistles. Arne Moors, 1 on 12th June 2018, Holton Lee, 1 on 15th June 2018. Arne Moors (1,1) Holton Lee (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1382 *Anania verbascalis* (Nb) – A scarce and thinly distributed resident, the larvae feed on Wood Sage. Sandford, 1 on 21st July 2018, Carey Estate singles on 5th July 2019 and 15th June 2020. Sandford Gardens (1,1) Carey Estate (2, 2). Recorded in 4 x 1km squares on Living Record 2000-2019.



Fig. 12 *Anania verbascalis*

856 *Anarsia spartiella* – An uncommon and thinly distributed resident. Larval foodplants Gorse and Broom. One on Ham Common 6th August 2019. Ham Common (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1115 *Ancylis achatana* – An uncommon and thinly distributed resident, larvae feed on Hawthorn and Blackthorn. Ballard 12 on 2nd July 2018, 2 on 8th July 2019, Carey Estate 1 on 27th June 2019. Ballard (2,14) Carey Estate (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1126 *Ancylis badiana* – An uncommon and thinly distributed resident, larvae feed on Pea, Vetch and Clover species. Ballard one on 28th May 2018 confirmed by Dr Phil Sterling. Recorded as leaf-mine on Clover there November 2020. Ballard (2,2). This is the only site for the species in Living Record 2000-2019.

1119 *Ancylis geminana* – Very rare resident. A single record from Slepe on 30th May 2019. The sole record for MoPH. Slepe (1,1). There are no other records in Living Record 2000-2019.

1117 *Ancylis unguicella* – A rare and restricted resident. Larvae feed on Bell Heather. One in Sandford gardens on 20th July 2019 confirmed by Dr Phil Sterling. Sandford Gardens (1,1). There are no other records in Living Record 2000-2019.

2306 Angle Shades *Phlogophora meticulosa* – A very common and widespread resident, larvae feed on herbaceous and woody plants. Arne Moors (8,15) Ballard (11,16) Corfe Castle (5,22) Goathorn (9,18) Holton Lee (6,8) Slepe Heath (5,5) Round Island (1,1) Creech Heath (1,1) Carey Estate (10,18) Hamworthy (23,58) Hartland Moor (2,2) Canford Heath (1,1). Recorded in 46 x 1km squares on Living Record 2000-2019.

1964 Annulet *Charissa obscurata* – A scarce and restricted resident, larvae feed on Sea Campion, Thrift and Common Rock-rose. Ballard, 1 on 3rd September 2018, Slepe Heath 2 on 13 July 2017, 1 on 31st July 2017. Slepe Heath (2,3) Ballard (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

2394 Anomalous *Stilbia anomala* (S41) – Scarce and restricted resident, the larvae feed on various grasses especially Wavy Hair-grass. Goathorn, 1 on 12th September 2018, Slepe Heath singles on 28th August and 4th September 2017. Goathorn (1,1) Slepe Heath (2,2). Recorded in 7 x 1km squares on Living Record 2000-2019.

385 *Anthophila fabriciana* – Common and widespread resident. The larvae of this day-flying species feed on Nettles. Found at Holton Lee 5+ on 10th August 2020 and Hartland Moor 1 on 20th June 2018. Holton Lee (1,5) Hartland Moor (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



2176 Antler Moth *Ceraapteryx graminis* – Scarce and restricted resident in Dorset. Larvae feed on Grasses, Sedges and Rushes. Recorded at Slepe Heath, single on 24th July 2017 and at Arne Moors where a strong colony exists and 34 were recorded on 11 occasions in 2018, 2019 and 2020. Slepe Heath (1,1) Arne Moors (11,34). Recorded in 7 x 1km squares on Living Record 2000-2019.

Fig. 13 Antler Moth

989 *Aphelia paleana* (Timothy Tortrix) – An uncommon and thinly distributed resident, larvae feed on various herbaceous plants and grasses. Carey Estate 1 on 1st August 2019, the sole record. Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1428 *Aphomia sociella* (Bee Moth) – Common and widespread resident, the larvae feed on honeycomb in hives. Ballard (1,1) Slepe Heath (1,2) Talbot Heath (1,1) Carey Estate (6,8) Hamworthy (2,3) Sandford Gardens (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

1093 *Apotomis betuletana* – An uncommon and thinly distributed resident. Larvae feed on Birch. Carey Estate, one on 10th August 2020, a male, confirmed by Dr Phil Sterling. Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1094 *Apotomis capreana* – An uncommon and thinly distributed resident, the larvae feed on Goat Willow. Ballard 2 on 2nd July 2018, Holton Lee 2 on 8th June and 1 on 1st July 2018, Carey Estate 2 on 7th July 2019. Ballard (1,2) Holton Lee (2,3) Carey Estate (1,2). Recorded in 5 x 1km squares on Living Record 2000-2019.

1092 *Apotomis turbidana* – An uncommon and thinly distributed resident. Larvae feed on Silver and Downy Birches. Corfe Castle 2 on 31st May 2018, Goathorn 3 on 7th June 2018, Holton Lee 2 on 8th June, 1 on 15th June 2018, Slepe Heath 1 on 17th July 2017, Hartland Moor one on 17th June 1 on 20th June 2018. Corfe Castle (1,2) Goathorn (1,3) Holton Lee (2,2) Slepe Heath (1,1) Hartland Moor (2,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

843 *Approaerema anthyllidella* – Scarce and thinly distributed resident, the larvae feed on Kidney Vetch and other herbaceous plants. Ballard 1 on 3rd September 2019, 2 on 8th September 2020, Hamworthy 1 on 15th August 2020, verified by Dr Phil Sterling. Ballard (2,3) Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

2085 Archer's Dart *Agrotis vestigialis* – An uncommon and restricted resident, the larvae feed on herbaceous plants. Arne Moors (2,2) Ballard (1,1) Slepe Heath (4,4) Round Island (1,1) Ham Common (1,1) Wareham Forest (1,2). Recorded in 13 x 1km squares on Living Record 2000-2019.



Fig. 14 Archer's Dart

977 *Archips podana* (Large Fruit-tree Tortrix) – Common and widespread resident, larvae feed on a variety of deciduous trees. Ballard (7,27) Corfe Castle (1,1) Carey Estate (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

422 *Argyresthia albistria* – A scarce and thinly distributed resident, larvae feed on Blackthorn. 1 on Ballard 27th August 2018. Ballard (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

410 *Argyresthia brockeella* – Uncommon and thinly distributed and restricted resident. Larvae feed on Birch and Alder. Goathorn (1,1) Holton Lee (2,11) Talbot Heath (1,2) Carey Estate (2,2). Recorded in 16 x 1km squares on Living Record 2000-2019.

409b *Argyresthia cupressella* (Cypress Tip Moth) – Very rare resident. Larvae feed on Cypress and Juniper. Hamworthy 3 on 2nd June 2020 and singles on 4th and 7th June 2020. Hamworthy (3,5). Recorded in 4 x 1km squares on Living Record 2000-2019.

414 *Argyresthia curvella* – Very rare resident, the larvae feed on Apple. Hamworthy, 1 on 2nd June 2020. Hamworthy (1,1). There are no other records in Living Record 2000-2019.

411 *Argyresthia goedartella* – Uncommon and thinly distributed resident, larvae feed on Birch and Alder. A surprising maximum of 63 from 2 traps at Hamworthy on 9th August 2020. Arne Moors (2,12) Goathorn (1,1) Holton Lee (6,34) Slepe Heath (1,10) Sandford Gardens (1,1) Carey Estate (5,10) Ham Common (1,4) Hamworthy (15,104). Recorded in 20 x 1km squares on Living Record 2000-2019.

420 *Argyresthia pruniella* (Cherry Fruit Moth) – Scarce and thinly distributed resident, larvae feed on Cherry species. Carey Estate, one on 20th August 2019. Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

419 *Argyresthia semifusca* – Scarce and thinly distributed resident, the larvae feed on Hawthorn and Rowan. One on Ballard 21st August 2018, confirmed by Dr Phil Sterling. Ballard (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

417 *Argyresthia spinosella* – Scarce and thinly distributed resident, the larvae feed on Blackthorn. Ballard, one on 4th June 2018, confirmed by Dr Phil Sterling. Ballard (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

974 *Argyrotaenia ljugiana* – Uncommon and thinly distributed and restricted resident, larvae feed on Bog-myrtle and Heather. Goathorn one on 26th July 2018, Slepe Heath one on 24th July 2017, 4 on 19th July 2018 Wareham Forest 1 on 22nd July 2019. Goathorn (1,1) Slepe Heath (2,5) Wareham Forest (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

752 *Aristotelia ericinella* – Uncommon and restricted resident, larvae feed on Heather. Arne Moors (2,71) Goathorn (5,44) Sandford Gardens (1,3) Slepe Heath (7,320) Holton Heath (1,13) Hamworthy (1,1) Ham Common (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

796 *Aroga velocella* – Scarce and restricted resident, the larvae feed on Sheep's Sorrel. Occasionally attracted in very large numbers i.e. 1,090 from 4 traps at Carey on 10th August 2010. Corfe River Meadow (1,3) Arne Moors (4,209) Carey Estate (15, 1,192) Holton Lee (2,6) Slepe Heath (2,2) Hartland Moor (2,5) Hamworthy (4,10) Wareham Forest (1,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

294 *Aspilapteryx tringipennella* – Fairly common and thinly distributed resident. Larval foodplant is Ribwort Plantain. Ballard (9,51), Arne Moors (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.



1461 *Assarra terebrella* (Na) – Scarce and thinly distributed resident, the larvae feed on cones of Norway Spruce. Single record from Wareham Forest 22nd July 2019, confirmed by Dr Phil Sterling. This species does not appear on Living Record for the Poole Harbour recording area 2000-2019. Wareham Forest (1,1). There are no other records in Living Record 2000-2019.

Fig. 15 *Assarra terebrella*

2117 Autumnal Rustic *Eugnorisma glareosa* (S41) – Uncommon and thinly distributed resident, larvae feed on herbaceous plants and heathers. Arne Moors (1,1) Corfe Castle (2,4) Ballard (1,1) Goathorn (1,1) Holton Lee (4,4) Hartland Moor (1,1) Carey Estate (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1110 *Bactra furfurana* – Scarce and local resident, larvae feed on Common Club-rush and Compact Rush. Singles recorded at Arne Moors on 26th June 2018 and 11th August 2020, both confirmed by Dr Phil Sterling. Arne Moors (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

1111a *Bactra lacteana* (Nb) – A very rare resident, probably overlooked, larvae feed on Rushes, especially Carnation Sedge. One on Arne Moors on 31st July 2018, confirmed by Dr Phil Sterling. Apparently, the sole record for Poole Harbour this century. Arne (1,1). This is the only record in Living Record 2002-2019.

1111 *Bactra lancealana* – Fairly common and widespread resident. Larvae feed on various Rushes. Arne Moors (19,197) Ballard (4,11) Corfe Castle (2,5) Goathorn (2,3) Holton Lee (15,32) Holton Heath (1,1) Slepe Heath (5,6) Hartland Moor (2,2) Carey Estate (1,1). Recorded in 20 x 1km squares on Living Record 2000-2019.

1112 *Bactra robustana* (Nb) – Rare and restricted coastal resident, the larvae feed on Sea Club-rush. Arne Moors, singles on 26th June 2018 and 11th August 2020 confirmed by Dr Phil Sterling, 4 on 15th May 2018, Holton Lee one on 26th August 2017. Arne Moors (3,6) Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1962 Barred Red *Hylaea fasciaria* – Uncommon and fairly widespread resident, the larvae feed on Scots Pine and Norway Spruce. Ballard (1,1) Holton Lee (2,2) Round Island (1,3) Carey Estate (5,5) Hamworthy (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

2272 Barred Sallow *Xanthia aurago* – Uncommon and thinly distributed resident, the larvae feed on Field Maple and Beech. Arne Moors (1,1) Ballard (5,11) Carey Estate (8,39) Hamworthy (6,8). Recorded in 13 x 1km squares on Living Record 2000-2019.

1758 Barred Straw *Eulithis pyraliata* – Very common and widespread resident, the larvae feed on Cleavers and Bedstraw. Corfe River Meadow (1,1) Ballard (5,11) Carey Estate (4,5). Recorded in 8 x 1km squares on Living Record 2000-2019.

1765 Barred Yellow *Cidaria fulvata* – Fairly common and widespread resident, larvae feed on Dog-rose and other wild Roses. Hartland Moor, 1 on 4th July 2019. Hartland Moor (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

641 *Batia lambdella* – Uncommon and thinly distributed resident. Larvae feed on Gorse. Goathorn 1 on 7th June 2018, Slepe 1 on 17th July 2017, Carey Estate 1 on 10th August 2020. Goathorn (1,1) Slepe Heath (1,1) Carey Estate (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

640 *Batia lunaris* – Uncommon and thinly distributed resident, larvae feed on fungus and decaying wood. Carey Estate, 1 on 14th July 2019. Carey Estate (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

2267 Beaded Chestnut *Agrochola lychnidis* (S41) – Very common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (1,1) Ballard (6,63) Holton Lee (1,6) Carey Estate (5,19) Hamworthy (3,3). Recorded in 14 x 1km squares on Living Record 2000-2019.

2156 Beautiful Brocade *Lacanobia contigua* – A scarce and restricted resident, the larvae feed on woody plants. Talbot Heath 3 on 29th June 2018, Upton Heath 1 on 2nd July 2019. Talbot (1,3) Upton Heath (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

1748 Beautiful Carpet *Mesoleuca albicillata* – Very scarce and local resident, larvae feed on Bramble, Dewberry, Raspberry and Hazel. Ballard Down one on 9th July 2018 the sole record. Ballard (1,1). There are no other records in Living Record 2000-2019.

2473 Beautiful Hook-tip *Laspeyria flexula* – An uncommon and thinly distributed resident, the larvae feed on lichens. Arne Moors (2,2) Ballard (1,1) Holton Lee (1,2) Slepe Heath (2,5) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (7,11). Recorded in 25 x 1km squares on Living Record 2000-2019.

2476 Beautiful Snout *Hypena crassalis* – A rare and very local resident, the larvae feed on Bilberry. Goathorn 1 on 28th June 2018, Holton Lee 2 on 28th July 2018, Carey Estate 1 on 27th June 2019. Goathorn (1,1) Holton Lee (1,2) Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 16 Beautiful Snout

2142 Beautiful Yellow Underwing *Anarta myrtilli* – Scarce and restricted resident, the larvae feed on Heather and Bell Heather. Arne Moors (2,2) Ballard (1,1) Goathorn (5,41) Holton Heath (1,5) Slepe Heath (9,121) Canford Heath (9,24) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (7,11) Wareham Forest (1,10). Recorded in 31 x 1km squares on Living Record 2000-2019.

1677 Birch Mocha *Cyclophora albipunctata* – Scarce and restricted resident, the larvae feed on Downy and Silver Birch. Goathorn (1,2) Holton Lee (2,2) Sandford Gardens (1,3) Slepe Heath (3,3) Canford Heath (1,1) Carey Estate (1,1). Recorded in 17 x 1km squares on Living Record 2000-2019.

2301 Bird's Wing *Dypterygia scabriuscula* – Scarce and restricted resident, larvae feeding on Docks, Sorrels and Knotgrass. Corfe River Meadows (1,2) Arne Moors (3,7) Goathorn (1,1) Holton Lee (1,1) Hartland Moor (2,3) Talbot Heath (1,1) Carey Estate (9,18) Hamworthy (2,2). Recorded in 26 x 1km squares on Living Record 2000-2019.

2033 Black Arches *Lymantria monacha* – Common and widespread resident, the larvae feed on various trees. Arne Moors (8,17) Ballard (1,1) Goathorn (3,6) Holton Lee (9,44) Sandford Gardens (2,8) Slepe Heath (1,1) Canford Heath (1,2) Round Island (1,1) Carey Estate (17,116). Recorded in 30 x 1km squares on Living Record 2000-2019.

2232 Black Rustic *Aporophyla nigra* – Common and widespread resident, the larvae feed on herbaceous and woody plants. Arne Moors (2,5) Ballard (6,43) Corfe Castle (1,1) Goathorn (4,27) Holton Lee (4,10) Slepe Heath (2,7) Hartland Moor (1,1) Carey Estate (7,38) Hamworthy (13,68). Recorded in 35 x 1km squares on Living Record 2000-2019.

2466 Blackneck *Lygephila pastinum* – Scarce and local resident, larvae feed on Tufted Vetch. Ballard – total of 21 recorded on 4 occasions in July 2018 and June and July 2019. Maximum 10 on 25th June 2019. Ballard (4,21). No other records in Living Record 2000-2019.



1678 Blair's Mocha *Cyclophora puppillaria* – Very scarce migrant / wanderer. The larvae feed on Holm Oak, Strawberry Tree and Rock Roses. Hamworthy, one on 26th September 2019 appears to be the only record for Poole Harbour this century. Hamworthy (1,1).

Fig. 17 Blair's Mocha

2240 Blair's Shoulder-knot *Lithophane leautieri* – A fairly common and thinly distributed resident. The larvae feed on Monterey Cypress, Lawson Cypress, Leyland Cypress and Juniper. Carey Estate, 1 on 31st October 2019 Hamworthy, singles recorded twice in 2019 and twice in 2020. Carey Estate (1,1) Hamworthy (4,4). Recorded in 11 x 1km squares on Living Record 2000-2019.

873 *Blastobasis adustella* – Fairly common and widespread resident, larvae feed on a variety of foodstuffs and decaying matter. Arne Moors (4,6) Ballard (6,16) Goathorn (1,1) Holton Lee (2,2) Sandford Gardens (1,10) Slepe Heath (1,1) Hartland Moor (1,1) Round Island (1,3) Carey Estate (17,147) Wareham Forest (1,1) Ham Common (1,10) Hamworthy (14,80). Recorded in 28 x 1km squares on Living Record 2000-2019.

874 *Blastobasis lacticolella* – Uncommon and thinly distributed resident. Larvae feed on a wide variety of vegetation, stored products and leaf litter. Arne Moors (1,1) Ballard (1,2) Corfe Castle (1,1) Goathorn (5,10) Talbot Heath (1,2) Carey Estate (7,10) Hamworthy (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

905 *Blastodacna hellerella* – Scarce and thinly distributed resident. Larvae feed on Hawthorn. Carey Estate, singles on 7th July 2019 and 15th June 2020. Carey Estate (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

1682 Blood-vein *Timandra comae* (S41) – Common and fairly widespread resident, larvae feed on Docks, Common Orache, Common Sorrel. Corfe River Meadow (1,1) Ballard (7,8) Arne Moors (4,10) Holton Lee (4,8) Carey Estate (10,10). Recorded in 23 x 1km squares on Living Record 2000-2019.

1667 Blotched Emerald *Comibaena bajularia* – Scarce and very local resident, larvae feed on Pedunculate and Sessile Oaks. Arne Moors singles on 12th and 19th June 2018, Holton Lee 3 on 15th June 2018, 1 on 22nd June 2018, Hamworthy 1 on 2nd June 2020. Arne Moors (2,2) Holton Lee (2,4) Hamworthy (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

1766 Blue-bordered Carpet *Plemyria rubiginata* – A scarce and thinly distributed resident, the larvae feed on Alder and Blackthorn. Ballard one on 1st July 2019, Carey Estate, singles on 5th July 2019 and 8th June 2020. Ballard (1,1) Carey Estate (2,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

1907 Bordered Beauty *Epione repandaria* – Fairly common and thinly distributed resident the larvae feed on Sallow, Grey Willow and Black Poplar. Ballard 1 on 23rd July 2017, Holton Lee one on 12th September 2019, Carey Estate singles on 14th July and 2nd August 2019. Ballard (1,1) Holton Lee (1,1) Carey Estate (2,2). Recorded in 14 x 1km squares on Living Record 2000-2019.

1938 Bordered Grey *Selidosema brunnearia* (Na) – Scarce and restricted resident, apparently declining. Larvae feed on heathland plants including Heather species and Bird's-foot Trefoil. Slepe Heath one on 7th August 2017 the sole record. Slepe (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.



Fig. 18 Bordered Grey

2399 Bordered Sallow *Pyrrhia umbra* – Scarce and local resident, the larvae feed on Spiny Restharrow. Arne Moors one on 3rd July 2018, 2 on 24th July 2018, Slepe Heath 1 on 17th July 2017, 4 on 19th July 2019. Arne Moors (2,3) Slepe Heath (2,5). Recorded in 5 x 1km squares on Living Record 2000-2019.

1954 Bordered White *Bupalus piniaria* – Uncommon and restricted resident, larvae feed on Scots and Corsican Pine. Goathorn 4 on 7th June 2018, Talbot Heath 1 on 29th June 2018. Goathorn (1,4) Talbot Heath (1,1). Recorded in 17 x 1km squares on Living Record 2000-2019.

866 *Brachmia blandella* – Uncommon and thinly distributed resident, larvae feeding on Gorse. Arne Moors (1,1) Goathorn (3,10) Holton Lee (1,1) Slepe Heath (4,4) Carey Estate (5,9) Hamworthy (1,1). Recorded in 18 x 1km squares on Living Record 2000-2019.

2262 Brick *Agrochola circumcellaris* – Uncommon and thinly distributed or restricted resident, larvae feed on Wych Elm, Aspen, Poplars, Sallow, Ash. Arne Moors 1 on 9th October 2018, Ballard, singles on 8th and 15th October 2018, Carey Estate 3 on 31st October 2019. Arne Moors (1,1) Ballard (2,2) Carey Estate (1,3). Recorded in 8 x 1km squares on Living Record 2000-2019.

2160 Bright-line Brown-eye *Lacanobia oleracea* – Abundant and widespread resident, the larvae feed on herbaceous and woody plants. Arne Moors (15,47) Ballard (13,28) Carey Estate (13,20) Corfe Castle (3,15) Goathorn (5,6) Holton Lee (6,13) Sandford Gardens (1,3) Slepe Heath (3,4) Canford Heath (2,4) Hartland Moor (5,18) Talbot Heath (1,8) Hamworthy (20,116) Corfe River Meadow (1,2) Longfleet School (1,12). Recorded in 44 x 1km squares on Living Record 2000-2019.

1906 Brimstone Moth *Opisthograptis luteolata* – Widespread and abundant resident, larvae feed on Blackthorn, Hawthorns, Plum and Bullace. Arne Moors (2,4) Ballard (16,36) Corfe Castle (7,13) Goathorn (3,4) Holton Lee (8,9) Sandford Gardens (1,4) Slepe Heath (5,6) Canford Heath (2,4) Round Island (1,3) Carey Estate (13,20) Hamworthy (14,23). Recorded in 50 x 1km squares on Living Record 2000-2019.

1927 Brindled Beauty *Lycia hirtaria* (**S41**) – Uncommon and thinly distributed resident, the larvae feed on broadleaved trees. Goathorn (1,2) Slepe Heath (1,1) Hartland Moor (1,1) Creech Heath (2,2) Carey Estate (2,4). Recorded in 16 x 1km squares on Living Record 2000-2019.

2248 Brindled Green *Dryobotodes eremita* – Uncommon and thinly distributed resident, the larvae feed on Pedunculate and Sessile Oak. Corfe Castle 1 on 15th September 2018, Holton Lee singles on 15th and 19th October 2018, Carey Estate 4 in 2019 and 2020, Hamworthy singles in 2019 and 2020. Holton Lee (2,2) Corfe Castle (1,1) Carey Estate (4,4) Hamworthy (2,2). Recorded in 11 x 1km squares on Living Record 2000-2019.



2229 Brindled Ochre *Dasypolia templi* (**S41**) – Scarce and mainly coastal resident, the larvae feed on Hogweed and Angelica. Hamworthy, one on 18th October 2020, apparently the only harbour record this century. Hamworthy (1,1).

Fig. 19 Brindled Ochre

1852 Brindled Pug *Eupithecia abbreviata* – Uncommon and widespread resident, the larvae feed on Pedunculate and Sessile Oaks and Hawthorns. Ballard (2,3) Corfe Castle (2,2) Goathorn (1,1) Slepe Heath (1,1) Creech Heath (2,2) Carey Estate (1,4). Recorded in 20 x 1km squares on Living Record 2000-2019.

1950 Brindled White-spot *Parectropis similaria* – Uncommon and restricted resident, the larvae feed on Oak and Birch. Carey Estate, singles on 7th July 2019 and 21st May 2020 (by Joe Parker). Carey Estate (2,2). Recorded in 4 x 1km squares on Living Record 2000-2019.

2164 Broad-barred White *Hecatera bicolorata* – Scarce and thinly distributed or restricted resident, the larvae feed on Hawkweeds, Hawk's-beards, Sow Thistles etc. Hamworthy, one on 26th July 2020. Hamworthy (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.



Fig. 20 Broad-barred White

1983 Broad-bordered Bee Hawk-moth *Hemaris fuciformis* (Nb) – One recorded adjacent to Hartland Moor 2019 by Tom Weston, one photographed at Holton Lee by Paul Miller 2019. Hartland (1,1) Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

2110 Broad-bordered Yellow Underwing *Noctua fimbriata* – Common and widespread resident, larvae feed on herbaceous plants. Arne Moors (10,117) Ballard (9,20) Corfe Castle (3,8) Goathorn (8,18) Holton Lee (11,17) Holton Heath (1,4) Slepe Heath (8,61) Canford Heath (7,20) Hartland Moor (1,6) Carey Estate (19,54) Sandford Gardens (1,2) Wareham Forest (1,11) Hamworthy (8,19). Recorded in 44 x 1km squares on Living Record 2000-2019.

1773 Broken-barred Carpet *Electrophaes corylata* – Fairly common and widespread resident, the larvae feed on broadleaved trees. Ballard 2 on 28th May 2018, Corfe Castle 4 on 1st June 2018. Ballard (1,2) Corfe Castle (1,4). Recorded in 12 x 1km squares on Living Record 2000-2019.

2163 Broom Moth *Ceramica pisi* (S41) – Fairly common but restricted resident, the larvae feed on various herbaceous plants. Arne Moors (10,31) Goathorn (5,11) Holton Lee (1,1) Slepe (3,3) Hartland (5,19) Talbot Heath (1,1) Carey Estate (1,1). Recorded in 24 x 1km squares on Living Record 2000-2019.

2302 Brown Rustic *Rusina ferruginea* – Fairly common and widespread resident, larvae feed on herbaceous plants, Corfe River Meadow (1,1) Arne Moors (1,1) Hartland (1,2) Talbot Heath (1,4). Recorded in 8 x 1km squares on Living Record 2000-2019.

1902 Brown Silver-line *Petrophora chlorosata* - Fairly common and widespread resident, the larvae feed on Bracken. Arne Moors (2,5) Ballard (1,2) Corfe Castle (3,15) Goathorn (7,42) Holton Lee (7,24) Slepe Heath (1,1) Canford Heath (1,1) Talbot Heath (1,7) Carey Estate (9,12) Upton Heath (1,3). Recorded in 33 x 1km squares on Living Record 2000-2019.

2029 Brown-tail *Euproctis chrysorrhoea* – Uncommon and local resident, the larvae feed on Bramble, Hawthorn, Blackthorn, Dog-rose, Sallow. Corfe River Meadow (1,1) Ballard (4,9) Arne Moors (7,22) Goathorn (1,10) Holton Lee (1,3) Sandford Gardens (2,6) Slepe Heath (3,11) Carey Estate (12,26) Longfleet School (1,1) Hamworthy (2,2) Wareham Forest (1,2). Recorded in 33 x 1km squares on Living Record 2000-2019.

2371 Brown-veined Wainscot *Archanara dissoluta* – Scarce and restricted resident, the larvae feed on Common Reed. Arne Moors 2 on 24th July 2019, Holton Lee 9 on 3rd August 2018, Sandford Gardens 1 on 21st July 2018. Arne Moors (1,2) Holton Lee (1,9) Sandford Gardens (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1945 Brussels Lace *Cleorodes lichenaria* – Fairly common and widespread resident, the larvae feed on lichens. Arne Moors (4,4) Ballard (3,4) Corfe Castle (2,2) Goathorn (1,1) Holton Lee (4,6) Carey Estate (19,41) Hamworthy (4,6) Sandford (1,1). Recorded in 30 x 1km squares on Living Record 2000-2019.

789 Bryotropha domestica – Scarce and thinly distributed resident, the larvae are thought to feed on mosses. Hamworthy, one on 15th August 2020 the only record. Hamworthy (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

787 Bryotropha terrella – Uncommon and thinly distributed resident, the larvae feed on various grassy stems. Arne Moors one on 4th August 2020, Carey Estate 4 recorded on 3 occasions, Hamworthy, 10 recorded on 4 occasions. Arne Moors (1,1) Carey Estate (3,4) Hamworthy (4,10). Recorded in 8 x 1km squares on Living Record 2000-2019.

274 Bucculatrix ulmella – Rare and local resident, the larvae feed on Oak. Holton Lee 1 on 22nd August 2017, Hamworthy one on 15th August 2020. Holton Lee (1,1) Hamworthy (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

1653 Buff Arches *Habrosyne pyritoides* – Very common and widespread resident, the larvae feed on Bramble and Dewberry. Corfe River Meadow (1,1) Arne Moors (3,6) Ballard (4,20) Goathorn (3,5) Holton Lee (3,5) Sandford Gardens (1,1) Slepe Heath (1,1) Canford Heath (4,11) Hartland Moor (2,3) Talbot Heath (1,7) Carey Estate (11,27) Longfleet School (1,1). Recorded in 35 x 1km squares on Living Record 2000-2019.

2061 Buff Ermine *Spilosoma luteum* (S41) – Very common and widespread resident, larvae feed on herbaceous plants. Corfe River Meadow (5,15) Arne Moors (11,16) Ballard (7,33) Corfe Castle (5,15) Goathorn (2,5) Holton Lee (4,13) Sandford Gardens (2,13) Slepe Heath (2,3) Canford Heath (1,1) Hartland Moor (3,5) Talbot Heath (1,7) Carey Estate (14,27) Longfleet School (1,1) Wareham Forest (1,6) Hamworthy (1,1). Recorded in 41 x 1km squares on Living Record 2000-2019.

2049 Buff Footman *Eilema depressa* – Fairly common and widespread resident, larvae feed on lichens. Arne Moors (4,7) Ballard (2,6) Goathorn (2,3) Holton Lee (5,12) Holton Heath (1,1) Canford Heath (1,5) Round Island (1,9) Carey Estate (23,189) Wareham Forest (1,6) Ham Common (1,1) Hamworthy (1,2). Recorded in 34 x 1km squares on Living Record 2000-2019.

1994 Buff-tip *Phalera bucephala* – Very common and widespread resident, the larvae feed on broadleaved trees, Birches, Sallow, Oaks, Hazel. Corfe River Meadow (2,3) Arne Moors (13,23) Corfe Castle (3,4) Goathorn (4,9) Holton Lee (8,17) Sandford Gardens (2,2) Slepe Heath (2,5) Canford Heath (2,4) Hartland Moor (5,13) Talbot Heath (1,1) Carey Estate (18,49) Upton Heath (1,1) Hamworthy (2,3). Recorded in 44 x 1km squares on Living Record 2000-2019.

2369 Bulrush Wainscot *Nonagria typhae* – Scarce and thinly distributed or restricted resident, the larvae feed on Reedmace and Lesser Reedmace. Holton Lee one on 26th July 2017 the only record. Holton Lee (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.



2463 Burnet Companion *Euclidea glyphica* – Scarce and Looking resident, the larvae feed on Clovers, Bird's-foot Trefoil, and other vetches and trefoils. A day-flying species, at Hatch Pond found 4 times in 2019 and 2020. Hatch Pond (4,7) Recorded in 7 x 1km squares on Living Record 2000-2019.

Fig. 21 Burnet Companion

2434 Burnished Brass *Diachrysia chrysitis* – Common and widespread, the larvae feed on common Nettle and other plants. Arne Moors (2,2) Ballard (3,3) Corfe Castle (6,10) Holton Lee (2,2) Hartland Moor (3,3) Carey Estate (9,10). Recorded in 21 x 1km squares on Living Record 2000-2019.

2154 Cabbage Moth *Mamestra brassicae* – Fairly common and widespread resident. Larvae feed on Brassicas, cabbages etc. Arne Moors (2,2) Ballard (1,1) Corfe Castle (1,1) Carey Estate (3,3) Wareham Forest (1,1) Hamworthy (5,8). Recorded in 17 x 1km squares on Living Record 2000-2019.

1292 Calamatropha paludella – Uncommon and thinly distributed and restricted resident, larval foodplant is Reedmace. Recorded at 4 sites. Arne Moors (9,27) Holton Lee (6,11) Carey Estate (9,40) Hamworthy (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

286 Caloptilia alchimiella – Uncommon and local resident, the larvae feed on Oak. Holton Lee, singles on 22nd August 2017 and 8th July 2018, Talbot Heath 1 on 29th June 2018. Holton Lee (2,2) Talbot Heath (1,1).

285 Caloptilia azaleella (Azalea Leaf Miner) – Very scarce recent adventive. Larvae feed on Azalea and Rhododendron. Hamworthy, singles on 2nd June, 11th September and 8th October 2020, confirmed by Dr Phil Sterling. Leaf-mine found on Camelia in the garden on 17th November 2020. Hamworthy (3,3). Recorded in 4 x 1km squares on Living Record 2000-2019.

283 Caloptilia betulicola – Uncommon and local resident, the larvae feed on Birch. Carey Estate singles on 25th June and 30th October 2020. Hamworthy one on 31st July 2020. Carey Estate (2,2) Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

286 *Caloptilia alchimiella / robustella* aggregate species – Carey Estate, one on 10th August 2020. Hamworthy (5,9). Recorded in 7 x 1km squares on Living Record 2000-2019.

281 *Caloptilia populetorum* – Very rare resident, larvae feed on Birch. Ballard one on 23rd July 2018, Holton Lee 2 on 22nd July 2018, Carey Estate one on 1st August 2019. Ballard (1,1) Holton Lee (1,2) Carey Estate (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

287 *Caloptilia robustella* – Uncommon and local resident. Larvae feed on Oak. Holton Lee (1,2) Carey Estate (2,2). Recorded in 7 x 1km squares on Living Record 2000-2019.

290 *Caloptilia semifascia* – Rare and restricted resident, larvae feed on Field Maple, sometimes Sycamore. Ballard singles on 9th July 2018, a male, and 21st August 2018 verified by Dr Phil Sterling. Recorded as leaf-mine there on Field Maple, November 2020. Hamworthy 1 on 9th August 2020. Ballard (2,2) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

288 *Caloptilia stigmatella* – Common and thinly distributed resident, the larvae feed on Willow and Poplar. Corfe River Meadow (1,1) Holton Lee (1,1) Carey Estate (4,4). Recorded in 18 x 1km squares on Living Record 2000-2019.

296 *Calybites phasianipennella* – Scarce and restricted resident, larvae feed on Water Docks, Loosestrifes and Knotgrass. Ballard (2,2) Holton Lee (2,2) Carey Estate (6,7) Hamworthy (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

366a *Cameraria ohridella* (Horse-Chestnut Leaf Miner) – Fairly common and thinly distributed recent resident, the larvae feed on Horse Chestnut. Goathorn (2,2) Holton Lee (2,3) Slepe (1,1) Carey Estate (2,2) Hamworthy (3,4). Recorded in 11 x 1km squares on Living Record 2000-2019.

2166 *Campion Hadenia rivularis* – Uncommon and thinly distributed or restricted resident. The larvae feed on Red, White or Sea Campion. Ballard one on 9th July 2018, Goathorn one on 22nd May 2019. Ballard (1,1) Goathorn (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1913 *Canary-shouldered Thorn Ennomos alniaria* – Common and fairly widespread resident, the larvae feed on Downy and Silver Birch, Alder, Limes and Elms. Arne Moors (12,14) Ballard (2,2) Corfe Castle (3,3) Goathorn (4,9) Holton Lee (11,15) Slepe (3,6) Canford (2,2) Round Island (1,1) Carey Estate (12,30) Ham Common (1,1) Hamworthy (3,3). Recorded in 43 x 1km squares on Living Record 2000-2019.

1494 *Capperia brittaniodyctylus* (Wood Sage Plume) (**Nb**) – Scarce and thinly distributed and restricted resident, larvae feed on Wood Sage. Goathorn, one on 28th June 2018, confirmed by Dr Phil Sterling. Goathorn (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1007 *Capua vulgana* – Scarce and thinly distributed resident, larvae feed on Alder, Rowan and Bilberry. Hartland Moor, one on 30th June 2019, confirmed by Dr Phil Sterling. Hartland Moor (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.



Fig. 22 *Capua vulgana*

658 *Carcina quercana* – Fairly common and widespread resident, larvae feed on Oak and Beech. Arne Moors (1,1) Ballard (3,3) Goathorn (2,2) Holton Lee (5,5) Sandford Gardens (1,1) Carey Estate (3,4). Recorded in 26 x 1km squares on Living Record 2000-2019.

830 *Caryocolum fraternella* – A rare and very local resident, the larvae feed on Stitchwort and Common Mouse-ear. Carey Estate one on 23rd July 2020, a male, confirmed by Dr Phil Sterling, is apparently the only Poole Harbour record for the species. Carey Estate (1,1). This is apparently a new species for Poole Harbour.

1354 *Cataclysta lemnata* (Small China-mark) – Uncommon and thinly distributed or restricted resident, the larvae feed on Duckweed. Arne Moors (6,14) Goathorn (1,1) Holton Lee (13,26) Sandford Gardens (1,2) Carey Estate (13,28) Hamworthy (2,2). Recorded in 13 x 1km squares on Living Record 2000-2019.

1316 *Catoptria falsella* – Fairly common and widely distributed resident, the larvae feed on mosses. Arne Moors (1,1) Goathorn (2,2) Holton Lee (2,2) Carey Estate (7,12) Hamworthy (2,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

1313 *Catoptria pinella* – Fairly common and widespread resident, larvae feed on Grasses in damp areas. Arne Moors (1,1) Ballard (1,1) Goathorn (1,1) Holton Lee (1,1) Sandford Gardens (1,1) Slepe Heath (3,8) Canford Heath (3,3) Carey Estate (6,7) Hamworthy (2,2). Recorded in 22 x 1km squares on Living Record 2000-2019.

1076 *Celypha lacunana* – A very common and widespread resident, larvae feed on herbaceous plants. Arne Moors (8,18) Ballard (15,75) Corfe Castle (6,11) Holton Lee (16,49) Slepe Heath (1,1) Godlingstone Heath (2,3) Talbot Heath (1,1) Carey Estate (22,65) Hamworthy (2,2). Recorded in 28 x 1km squares on Living Record 2000-2019.

1063 *Celypha striana* – Common and widespread resident, larvae feed on Dandelion. Corfe River Meadow (1,2) Ballard (4,4) Holton Lee (2,2) Hartland Moor (1,1) Talbot Heath (1,1) Longfleet School (15) Carey Estate (1,3) Hamworthy (5,6) Sandford Gardens (1,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

2269 Centre-barred Sallow *Atethmia centrago* (S41) – Fairly common but thinly distributed resident, the larvae feed on Ash. Corfe Castle (4,21) Holton Lee (2,2) Carey Estate (2,20). Recorded in 9 x 1km squares on Living Record 2000-2019.

2258 Chestnut *Conistra vaccinii* – Common and widespread resident, larvae feed on Oaks, Elms, Blackthorn, Hawthorn, Birch and Docks. Arne Moors (1,1) Ballard (1,1) Goathorn (1,2) Slepe Heath (1,11) Carey Estate (2,3). Recorded in 21 x 1km squares on Living Record 2000-2019.

1755 Chevron *Eulithis testata* – Scarce and restricted resident, occasional wanderer, the larvae feed on Sallow, Willows, Aspen and Poplars. Arne Moors (3,4) Goathorn (6,8) Holton Heath (1,3) Sandford Gardens (1,1) Slepe Heath (5,17) Canford Heath (3,13). Recorded in 15 x 1km squares on Living Record 2000-2019.

1290 *Chilo phragmitella* – Uncommon and thinly distributed or restricted resident, the larvae feed on Common Reed and Reed Sweet-grass. Corfe River Meadow (1,3) Arne Moors (7,8) Holton Lee (4,4) Carey Estate (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1651 Chinese Character *Cilix glaucata* – Fairly common and widespread resident, the larvae feed on Blackthorn, Hawthorn, Crab Apple. Arne Moors (1,1) Ballard (11,21) Corfe Castle (1,1) Slepe Heath (3,3) Carey Estate (1,1) Hamworthy (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

2019 Chocolate-tip *Clostera curtula* – Fairly common and widespread resident, the larvae feed Aspen, Poplars, Sallow and Willows. Ballard one on 21st May 2019, Slepe Heath one on 7th May 2018, the only records. Ballard (1,1) Slepe Heath (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1293 *Chrysoteuchia culmella* (Garden Grass-veneer) – Abundant and widespread resident, the larvae feed on various grasses. Corfe River Meadow (2,446) Arne Moors (19,678) Ballard (10,139) Goathorn (2,33) Holton Lee (6,59) Holton Heath (1,1) Sandford Gardens (2,39) Slepe Heath (4,95) Canford Heath (5,13) Hartland Moor (4,49) Talbot Heath (1,6) Carey Estate (23, 1,229) Upton Heath (1,6) Longfleet School (1,1) Wareham Forest (1,28) Hamworthy (14,98). Recorded in 44 x 1km squares on Living Record 2000-2019.

2069 Cinnabar *Tyria jacobaeae* (S41) – Common and widespread resident, larvae feed on Common Ragwort. Corfe River Meadow (1,1) Arne Moors (2,3) Ballard (1,2) Holton Lee (3,7) Hartland Moor (4,9) Grange Heath (1,1) Carey Estate (12,60) Sandford (1,1). Recorded in 47 x 1km squares on Living Record 2000-2019.



2387a Clancy's Rustic *Platyperigea kadenii* – Recent arrival, probable rare resident, the larvae feed on various herbaceous plants. Recorded at Hamworthy on 5 occasions in September 2019 and September 2020, total 8 moths. Hamworthy (5,8). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 23 Clancy's Rustic

1207 Clavigesta purdeyi (Pine Leaf-mining Moth) – A scarce and thinly distributed resident, the larvae feed on Pine species. Hamworthy one on 31st July 2020, confirmed by Dr Phil Sterling. Hamworthy (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

2193 Clay *Mythimna farrago* – Common and widespread resident, the larvae feed on Grasses. Corfe River Meadow (2,5) Arne Moors (5,5) Ballard (5,24) Holton Lee (2,4) Sandford Gardens (2,4) Slepe Heath (3,6) Canford Heath (3,16) Hartland Moor (3,5) Carey Estate (7,12) Longfleet School (1,6) Wareham Forest (1,5) Hamworthy (8,22). Recorded in 38 x 1km squares on Living Record 2000-2019.

1681 Clay Triple-lines *Cyclophora linearia* – A scarce and local resident, the larvae feed on Beech. Carey Estate, 7 recorded on 6 occasions in 2019 and 2020. Carey Estate (6,7). Recorded in 9 x 1km squares on Living Record 2000-2019.

994 Clepsid consimilana – Fairly common and widely distributed resident, the larvae feed on Privets, Lilac, Honeysuckle, Ivy and Apple. Ballard (1,1) Corfe Castle (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 17 x 1km squares on Living Record 2000-2019.

993 Clepsid spectrana (Cyclamen Tortrix) – Uncommon and thinly distributed resident, larvae feed on a wide variety of herbaceous plants. Corfe River Meadow (1,1) Arne Moors (2,2) Ballard (1,1) Holton Lee (7,13) Round Island (1,1) Carey Estate (2,2). Recorded in 8 x 1km squares on Living Record 2000-2019.

2451 Clifden Nonpareil *Catocala fraxini* – Scarce migrant / wanderer, probable resident. Larvae feed on Aspen and Poplars. Ballard one on 15th October 2018, Carey Estate 3 on 3 dates in September and October 2019, one on 10th August 2020 and a remarkable run of 12 between 16th September and 30th October 2020. Assumed to be breeding at Carey Estate. Ballard (1,1) Carey Estate (9,16). Recorded in 7 x 1km squares on Living Record 2000-2019.

1793 Cloaked Carpet *Euphyia biangulata* (Nb) – Uncommon and thinly distributed resident the larvae feed on Chickweed species. Carey Estate, one trapped by Joe Parker on 21st May 2020 is apparently the only record for Poole Harbour this century. Carey Estate (1,1).

2341 Cloaked Minor *Mesoligia furuncula* – Fairly common and widespread resident, the larvae feed on grasses. Ballard (2,3) Holton Lee (1,1) Carey Estate (2,3) Hamworthy (2,5) Sandford Gardens (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1887 Clouded Border *Lomaspilis marginata* – Common and widespread resident, larvae feed on Aspen, Poplars, Sallow and Willows. Corfe River Meadow (2,7) Arne Moors (8,21) Ballard (7,14) Corfe Castle (2,3) Goathorn (3,6) Holton Lee (8,30) Hartland Moor (1,1) Talbot Heath (1,9) Carey Estate (18,48) Hamworthy (2,2). Recorded in 43 x 1km squares on Living Record 2000-2019.

2327 Clouded Brindle *Apamea epomidion* – A scarce and thinly distributed or restricted resident, larvae feed on grasses. Arne Moors (1,1) Ballard (2,4) Goathorn (1,1) Holton Lee (1,1) Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



Fig. 24 Clouded Brindle

2059 Clouded Buff *Diacrisia sannio* – Uncommon and restricted resident, larvae feed on herbaceous plants and Heathers. Arne Moors (5,11) Holton lee (1,1) Hartland Moor (4,14). Recorded in 11 x 1km squares on Living Record 2000-2019.

2188 Clouded Drab *Orthosia incerta* – Very common and widespread resident, on the wing early in the season. Larvae fed on broadleaved trees, Oak, Birches, Sallow etc. Slepe Heath (3,4) Grange Heath (1,1) Creech Heath (1,1) Carey Estate (1,1). Recorded in 24 x 1km squares on Living Record 2000-2019.

1958 Clouded Silver *Lomographa temerata* – Common and widespread resident, the larvae feed on Blackthorn, Hawthorn, Plum, Cherry, Crab Apple. Ballard (3,7) Corfe Castle (2,4) Holton Lee (3,3) Carey Estate (6,7) Hamworthy (2,2). Recorded in 24 x 1km squares on Living Record 2000-2019.



2326 Clouded-bordered Brindle *Apamea crenata* – Fairly common and thinly distributed and restricted resident, larvae feed on grasses. Arne Moors (2,2) Corfe Castle (3,8) Carey Estate (3,3). Recorded in 6 x 1km squares on Living Record 2000-2019.

Fig. 25 Clouded-bordered Brindle

1021 Cnephasia asseclana (Flax Tortrix) – Uncommon and thinly distributed resident. Larvae feed on a wide range of herbaceous plants including Ox-eye Daisy, Buttercups and Docks. Holton Lee one on 8th July 2018, a female, confirmed by Dr Phil Sterling. Holton Lee (1,1). Apparently, the only Poole Harbour record this century.

1019 Cnephasia conspersana (Nb) – Rare and thinly distributed coastal resident. Larvae feed on rosaceous plants. Ballard one on 9th July 2018, a female, confirmed by Dr Phil Sterling. Ballard (1,1). This is the only record for Poole Harbour this century, and possibly new to the Harbour.

1024 Cnephasia incertana (Light Grey Tortrix) – Fairly common and widespread resident, larvae feed on Greater Plantain, Ribwort Plantain, Common and Sheep's sorrels. Carey Estate one on 15th June 2020, a female, confirmed by Dr Phil Sterling. Carey Estate (1,1). The only Poole Harbour record this century and possibly new to the Harbour.

1020 Cnephasia stephensiana (Grey Tortrix) – Fairly common and widespread resident, larvae feed on a wide range of herbaceous plants. Carey Estate, 3 on 7th July 2019 (one male), one on 15th June 2020, also male, confirmed by Dr Phil Sterling. Carey Estate (2,4). Recorded in 3 x 1km squares on Living Record 2000-2019.

936 Cochylimorpha straminea – Uncommon and thinly distributed or restricted resident, larvae feed on Common Knapweed. Ballard (3,3) one, a male, confirmed by Dr Phil Sterling, Goathorn (1,1) Holton Lee (1,3). Recorded in 5 x 1km squares on Living Record 2000-2019.

966 *Cochylis atricapitana* – Fairly common and thinly distributed and restricted resident. The larval foodplant is Ragwort. Arne Moors (1,1) Ballard (6,7) Corfe Castle (2,2) Holton Lee (7,17) Canford Heath (1,1) Round Island (1,1) Carey Estate (9,12) Hamworthy (4,5) Sandford Gardens (1,2). Recorded in 23 x 1km squares on Living Record 2000-2019.

964 *Cochylis dubitana* – Rare and local resident, larvae feed on Ragwort, Hawkweed, and Goldenrod amongst other similar plants. Carey Estate singles on 15th June and 10th August 2020 a male, confirmed by Dr Phil Sterling). Carey Estate (2,2). Recorded in 1 x 1km squares on Living Record 2000-2019.

965 *Cochylis hybridella* – Uncommon and thinly distributed and restricted resident, larvae feed on Oxtongue and Hawkweed species. Ballard one on 8th July 2019 confirmed by Dr Phil Sterling. Ballard (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

964a *Cochylis molliculana* – Uncommon and thinly distributed and restricted resident, larvae feed on Bristly Oxtongue. Ballard (3,3) Holton Lee (1,1) Canford Heath (1,1) Hamworthy (3,3). Recorded in 7 x 1km squares on Living Record 2000-2019.

968 *Cochylis nana* – Scarce and thinly distributed and restricted resident, larvae feed on Downy and Silver Birch. Goathorn (1,2) Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

584 *Coleophora alticolella* – Scarce and thinly distributed resident, the larvae feed on Soft-rush and Heath Rush. Arne Moors one on 22nd May 2018 confirmed by Dr Phil Sterling. Arne Moors (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

519 *Coleophora deauratella* – Scarce and thinly distributed resident, larvae feed on Red Clover. Slepe one on 19th July 2018, a male, confirmed by Dr Phil Sterling. Slepe (1,1). None recorded on Living Record 2000-2019.

582 *Coleophora glaucicolella* – Scarce and thinly distributed resident, larvae feed on Compact Rush. Soft-rush, Hard Rush and Saltmarsh Rush. Arne Moors singles on 26th June and 3rd July 2018, a male, confirmed by Dr Phil Sterling. Arne Moors (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

522 *Coleophora lineolea* – Scarce and thinly distributed resident, larvae feed on Hedge Woundwort, Betony and Black and White Horehound. Ballard One on 8th September 2020, a female, confirmed by Dr Phil Sterling. Ballard (1,1). Apparently, the only Poole Harbour record this century.

518 *Coleophora mayrella* – Uncommon and thinly distributed resident, larvae feed on White Clover. Carey Estate one on 15th June 2020, a male, confirmed by Dr Phil Sterling. There is one previous Harbour record, on Brownsea Island in 2011. Carey Estate (1,1).

581 *Coleophora taeniipennella* – Rare and very local resident, the larvae feed on Jointed Rush and Sharp-flowered Rush. Arne Moors one on 3rd July 2018, a female, confirmed by Dr Phil Sterling. Arne Moors (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

516 *Coleophora trifolii* – Scarce and thinly distributed resident, larvae feed on Ribbed Melilot and Tall Melilot. Holton Lee one on 8th July 2018, a male, confirmed by Dr Phil Sterling. Holton Lee (1,1). Apparently, the only record for Poole Harbour this century.

1738 Common Carpet *Epirrhoe alternata* – Very common and widespread resident, the larvae feed on Cleavers, Hedge and other Bedstraws. Arne Moors (10,12) Ballard (18,45) Holton Lee (9,15) Sandford Gardens (1,1) Slepe Heath (1,1) Canford Heath (1,1) Carey Estate (1,1). Recorded in 28 x 1km squares on Living Record 2000-2019.

1669 Common Emerald *Hemitea aestivaria* – Common and widespread resident, the larvae feed on Hawthorn, Blackthorn, Hazel, Oaks, Willows etc. Arne Moors (1,1) Ballard (1,1) Canford Heath (2,2) Hartland Moor (1,1) Carey Estate (7,12) Longfleet School (1,3) Wareham Forest (1,2) Hamworthy (4,5). Recorded in 34 x 1km squares on Living Record 2000-2019.

2050 Common Footman *Eilema lurideola* – Abundant and widespread resident, the larvae feed on lichens. Arne Moors (7,18) Corfe River Meadow (1,1) Ballard (4,10) Goathorn (4,10) Holton Lee (5,6) Holton Heath (1,1) Sandford Gardens (2,8) Slepe Heath (4,13) Canford Heath (1,1) Hartland Moor (2,3) Round Island (1,3) Talbot Heath (1,8) Carey Estate (16,79) Longfleet School (1,2) Wareham Forest (1,8) Hamworthy (2,6). Recorded in 42 x 1km squares on Living Record 2000-2019.

1952 Common Heath *Ematurga atomaria* – Scarce and restricted resident, the larvae feed on Heathers. Slepe one on 30th May 2019, flying by day, the sole record. Slepe (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1657 Common Lutestring *Ochropacha duplaris* – Fairly common and thinly distributed resident, the larvae feed on Birches, Alder, Hazel and Oaks. Ballard (1,1) Holton Lee (1,1) Canford (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1764 Common Marbled Carpet *Chloroclysta truncata* – Abundant and widespread resident, the larvae feed on woody plants. Ballard (6,6) Corfe Castle (4,4) Goathorn (1,1) Holton Lee (3,3) Talbot Heath (1,1) Carey Estate (11,12) Hamworthy (5,8). Recorded in 28 x 1km squares on Living Record 2000-2019.

1834 Common Pug *Eupithecia vulgata* – Common and widespread resident, the larvae feed on trees including Hawthorn and Sallow. Ballard (2,6) Corfe Castle (1,1) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (5,6) Hamworthy (2,8). Recorded in 26 x 1km squares on Living Record 2000-2019.

2187 Common Quaker *Orthosia cerasi* – Abundant and fairly widespread resident, the larvae feed on broadleaved trees, Birches, Sallow, Oaks and Hazels. Arne Moors (1,2) Ballard (1,1) Goathorn (1,1) Slepe Heath (2,5) Hartland Moor (4,7) Stoborough Heath (1,2) Godlingstone Heath (1,1) Grange Heath (1,1) Creech Heath (2,2) Carey Estate (3,28). Recorded in 35 x 1km squares on Living Record 2000-2019.

2343 / 2343a Common Rustic / Lesser Common Rustic aggregate *Mesapamea secalis / didyma* – Abundant and widespread resident the Common Rustic and Lesser Common Rustic are treated as aggregate species without dissection of the genitalia. Larval foodplant is grasses. Corfe River Meadow (1,5) Arne Moors (19,71) Ballard (9,84) Goathorn (2,2) Holton Lee (8,26) Sandford (2,43) Slepe (6,29) Canford (7,18) Hartland (1,2) Carey Estate (23,268) Ham Common (1,2) Longfleet School (1,4) Wareham Forest (1,53) Hamworthy (12,73). Recorded in 42 x 1km squares on Living Record 2000-2019.

17 Common Swift *Hepialus lupulinus* – Abundant and widespread resident, the larvae feed on grasses and herbaceous plants. Arne Moors (4,12) Ballard (7,63) Corfe Castle (3,27) Holton Lee (3,7) Carey Estate (6,37). Recorded in 19 x 1km squares on Living Record 2000-2019.

2199 Common Wainscot *Mythimna pallens* – Abundant and widespread resident, the larvae feed on grasses. Corfe River Meadow (1,1) Arne Moors (20,83) Ballard (25,801) Corfe Castle (8,20) Goathorn (5,9) Holton Lee (18,38) Holton Heath (1,1) Slepe Heath (1,1) Canford Heath (1,1) Hartland Moor (1,2) Round Island (1,2) Carey Estate (16,37) Wareham Forest (1,1) Hamworthy (11,20). Recorded in 37 x 1km squares on Living Record 2000-2019.

1956 Common Wave *Cabera exanthemata* – Common and widespread resident, the larvae feed on Goat Willow, Grey Willow, Sallow and Poplars. Arne Moors (2,2) Corfe Castle (1,1) Goathorn (2,3) Holton Lee (7,11) Sandford Gardens (1,2) Slepe Heath (1,1) Canford Heath (1,1) Round Island (1,1) Carey Estate (6,8) Ham Common (1,1) Hamworthy (1,1). Recorded in 33 x 1km squares on Living Record 2000-2019.

1955 Common White Wave *Cabera pusaria* – Common and widespread resident, larvae feed on Downy and Silver Birch, Alder and Sallow. Arne Moors (4,4) Ballard (2,2) Goathorn (1,1) Holton Lee (7,8) Canford Heath (2,2) Hartland Moor (1,2) Round Island (1,1) Talbot Heath (1,4) Carey Estate (6,7). Recorded in 35 x 1km squares on Living Record 2000-2019.

1972 Convolvulus Hawk-moth *Agrius convolvuli* – Scarce and local migrant / wanderer, the larvae feed on Bindweeds and other convolvulaceae. Ballard Down one on 21st August 2018, 2 on 9th September 2018, Holton Lee one photographed by a visitor, September 2018, Hamworthy one on 26th September 2019. Ballard (2,3) Holton Lee (1,1) Hamworthy (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 26 Convolvulus Hawk-moths

2297 Copper Underwing *Amphipyra pyramidea* – An uncommon and thinly distributed resident. Larvae feed on Hawthorns, Blackthorn, Crab Apple, Hazel, Honeysuckle. The species is separable from Svensson's Copper Underwing if shading on the underside of the hindwing is visible. Most are recorded as aggregates therefore. Arne Moors (1,1) Ballard (1,1) Goathorn (1,1) Carey Estate (2,2). Recorded in 11 x 1km squares on Living Record 2000-2019.

2297 /2298 Copper Underwing / Svensson's Copper Underwing aggregate (see comment above). Arne Moors (1,2) Carey Estate (7,11) Hamworthy (1,1).

125 Coptotriche marginea – Uncommon and thinly distributed resident, the larval foodplant is Bramble. Arne Moors (2,2) Ballard (8,22) also as leaf-mine there, Goathorn (3,5) Slepe Heath (1,1) Carey Estate (2,2) Ham Common (1,1) Hamworthy (5,9). Recorded in 22 x 1km squares on Living Record 2000-2019.

2291 Coronet *Craniophora ligustri* – Fairly common and widespread resident, the larvae feed on Ash and Wild Privet. Corfe River Meadow (1,1) Ballard (2,5) Holton Lee (3,6) Slepe Heath (1,1) Canford Heath (1,1) Talbot Heath (1,1) Carey Estate (8,11) Hamworthy (1,2). Recorded in 23 x 1km squares on Living Record 2000-2019.



896a Cosmopterix scribaiella (Na) – A very rare resident, larvae feed on Phragmites. Holton Lee 5 on 8th June 2018 confirmed from photos by Jack Oughton. Holton Lee (1,5). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 27 *Cosmopterix scribaiella*, in tubes

2008 Coxcomb Prominent *Ptilodon capucina* – Common and widespread resident, the larvae feed on broadleaved trees. Arne Moors one on 23rd June 2020, Holton Lee one on 25th May 2018, Slepe Heath one on 24th July 2017, Carey Estate one on 20th July 2020. Arne Moors (1,1) Holton Lee (1,1) Slepe Heath (1,1) Carey Estate (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1299 *Crambus hamella* (Nb) – Scarce and thinly distributed and restricted resident, larvae feed on Wavy Hair-grass. Arne Moors (2,6) Holton Lee (3,3) Slepe Heath (2,29). Recorded in 7 x 1km squares on Living Record 2000-2019.



Fig.28 *Crambus hamella*

1301 *Crambus lathoniellus* – Fairly common and widely distributed resident, larvae feed on various grasses. Corfe Castle, one on 1st June 2018. Corfe Castle (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

1294 *Crambus pascuella* – Fairly common and widespread resident, the larvae feed on various grasses. Arne Moors (7,30) Corfe Castle (1,1) Holton Lee (1,1) Slepe Heath (1,1) Hartland Moor (4,31) Carey Estate (1,1). Recorded in 26 x 1km squares on Living Record 2000-2019.

1302 *Crambus perlella* – Common and widespread resident, larvae feed on various grasses. Arne Moors (4,10) Ballard (5,61) Corfe Castle (1,1) Holton Lee (2,3) Slepe Heath (1,1) Hartland Moor (1,1) Talbot Heath (1,1) Carey Estate (4,4). Recorded in 25 x 1km squares on Living Record 2000-2019.

1296 *Crambus silvella* (RDB3) – Scarce and thinly distributed and restricted resident, larvae feed on various sedges. Arne Moors (4,4) Ballard (1,1) Holton Lee (2,2) Sandford Gardens (1,1) Carey Estate (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1297 *Crambus uliginosellus* (Nb) – Scarce and thinly distributed and restricted resident, larvae feed on various grasses. Arne Moors one on 16th June 2020, Carey Estate one on 27th June 2019. Arne Moors (1,1) Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

642 *Crassa unitella* – Uncommon and thinly distributed resident, larvae feed on fungus and dead wood. Arne Moors (1,2) Ballard (1,1) Holton Lee (1,1) Carey Estate (6,8) Wareham Forest (1,1) Hamworthy (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

2418 Cream-bordered Green Pea *Earias clorana* (Nb) – Scarce and restricted resident, larvae feed on Sallow and Willows. Corfe River Meadow (1,1) Arne Moors (3,3) Goathorn (2,3) Holton Lee (1,1) Carey Estate (2,5) Hamworthy (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.



2058 Cream-spot Tiger *Arctia villica* – Fairly common and thinly distributed and restricted resident. Larvae feed on herbaceous plants. Carey Estate one on 29th May 2019 the sole record. Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 29 Cream-spot Tiger

1693 Cream Wave *Scopula floslactata* – Scarce and local resident, the larvae feed on Bedstraws, Woodruff and Bush Vetch. Carey Estate, singles on 21st May (Joe Parker) 15th and 25th June 2020. Carey Estate (3,3). Recorded in 6 x 1km squares on Living Record 2000-2019.

2368 Crescent *Helotropha leucostigma* (S41) – Uncommon and thinly distributed or restricted resident, larvae feed on Yellow Iris, Great Fen-sedge. Corfe River Meadow (1,5) Arne Moors (8,15) Ballard (2,3) Holton Lee (2,2) Carey Estate (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.



Fig. 30 Crescent

1157 Crocidosema plebejana – Fairly common but thinly distributed resident, the larvae feed on Tree-mallow. Sandford Gardens one on 20th July 2019, confirmed by Dr Phil Sterling. Sandford Gardens (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1433 Crytoblabe bistriga – Uncommon and thinly distributed or restricted resident, larvae feed on Oak and Alder. Goathorn (1,1) Holton Lee (1,1) Hamworthy (2,2). Recorded in 11 x 1km squares on Living Record 2000-2019.

1832 Curren Pug *Eupithecia assimolata* – Uncommon and thinly distributed or restricted resident, larvae feed on Wild Hop, Black Currant, Red Currant. Carey Estate one on 7th July 2019 the sole record. Carey Estate (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1409a Cydalima perspectalis (Box Tree Moth) – Recent colonist. The larvae feed on Box. Ballard one on 15th September 2020, Carey Estate 3 on 21st September 2020. Hamworthy, recorded on 24 occasions in 2019 and 2020, totalling 265 moths with an extraordinary maximum of 124 from 2 traps on 20th September 2020. Ballard (1,1) Carey Estate (1,3) Longfleet School (1,3) Hamworthy (24,265). Recorded in 11 x 1km squares on Living Record 2000-2019.

1262 Cydia amplana – Uncommon and thinly distributed migrant. The larvae feed on nuts of Oak, Beech, Hazel and Walnut, not confirmed breeding in Britain. Arne Moors one on 11th August 2020, Carey Estate one on 18th August 2020. Arne Moors (1,1) Carey Estate (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

1269 Cydia conicolana (Nb) – Rare and very local resident, the larvae feed on Scots and Corsican Pine. Goathorn one on 7th June 2018, confirmed by Dr Phil Sterling. Goathorn (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1268 Cydia coniferana (Nb) – Scarce and thinly distributed or restricted resident, larvae feed on Scots and Corsican Pines. Slepe Heath one on 30th May 2019, confirmed by Dr Phil Sterling. Slepe (1,1). Apparently, the sole record for Poole Harbour this century.

1267 Cydia cosmopherana (Nb) – Rare and very local resident, the larvae feed on Scots and Corsican Pine. Arne Moors one on 11th August 2020, a female, confirmed by Dr Phil Sterling is apparently the first record for the Poole Harbour recording area and probably new to the Harbour. Arne Moors (1,1).

1259 Cydia fagiglandana – Uncommon and thinly distributed resident, larvae feed on Beech. Arne Moors one on 28th July 2020, Goathorn one 7th June 2018, Carey Estate 5 recorded on 4 occasions with one male confirmed by Dr Phil Sterling on 7th July 2019. Arne Moors (1,1) Goathorn (1,1) Carey Estate (4,5). Recorded in 5 x 1km squares on Living Record 2000-2019.

1261 Cydia pomonella (Codling Moth) – Fairly common and widely distributed resident, the larvae feed on various fruit trees. Carey Estate singles on 7th July 2019 and 29th June 2020, Hamworthy 7 recorded on 5 occasions in June to September 2020. Sandford Gardens (1,3,) Carey Estate (2,2) Hamworthy (5,7). Recorded in 10 x 1km squares on Living Record 2000-2019.

1260 *Cydia splendana* – Fairly common and widely distributed resident, larvae feed on Oak and Sweet Chestnut. Corfe River Meadow (1,1) Arne Moors (6,6) Ballard (2,3) Goathorn (4,9) Holton Lee (8,33) Holton Heath (1,3) Sandford Gardens (1,4) Slepe Heath (4,7) Canford Heath (2,2) Carey Estate (14,33) Wareham Forest (1,1) Hamworthy (9,24) Ham Common (1,1). Recorded in 25 x 1km squares on Living Record 2000-2019.

1255 *Cydia ulicetana* – Fairly common and widely distributed resident, larvae feed on Gorse and Broom. Ballard (2,2) Goathorn (2,2) Holton Lee (3,7) Holton Heath (1,1) Slepe Heath (3,5) Grange Heath (1,1) Ham Common (1,45) Hamworthy (1,2) 2 males confirmed by Dr Phil Sterling. Recorded in 19 x 1km squares on Living Record 2000-2019.

1777a Cypress Carpet *Thera cypressata* – Recent colonist to Dorset, larvae feed on Monterey and Leyland Cypresses. Carey Estate singles on 29th June and 30th October 2020, Hamworthy singles recorded 3 times in 2019 and 2020. Carey Estate (2,2) Hamworthy (3,3). Recorded in 12 x 1km squares on Living Record 2000-2019.

1855 Cypress Pug *Eupithecia phoeniceata* – Scarce and thinly distributed and restricted resident, larvae feed on Monterey Cypress and other cultivated species. Carey Estate one on 21st September 2020, Hamworthy 6 recorded on 4 occasions in 2019 and 2020. Carey Estate (1,1) Hamworthy (4,6). Recorded in 15 x 1km squares on Living Record 2000-2019.

2321 Dark Arches *Apamea monoglypha* – Abundant and widespread resident, the larvae feed on grasses. Corfe River Meadow (2,13) Arne Moors (20,139) Ballard (10,542) Corfe Castle (1,1) Goathorn (3,12) Holton Lee (6,17) Holton Heath (1,16) Sandford Gardens (2,24) Slepe Heath (6,58) Canford Heath (7,9) Round Island (1,1) Talbot Heath (1,1) Carey Estate (25,214) Upton Heath (1,10) Longfleet School (1,8) Wareham Forest (1,6) Hamworthy (12,82). Recorded in 55 x 1km squares on Living Record 2000-2019.

2259 Dark Chestnut *Conistra ligula* – Uncommon and thinly distributed or restricted resident, the larvae feed on Blackthorn, Hawthorn, Sallow, Oaks, Docks. Holton Lee (1,1) Carey Estate (1,2) Hamworthy (1,2). Recorded in 8 x 1km squares on Living Record 2000-2019.

2449 Dark Spectacle *Abrostola triplasia* – Scarce and thinly distributed or restricted resident, the larvae feed on Common Nettle and Hop. Ballard (4,4) Corfe Castle (5,8) Carey Estate (1,1) Hamworthy (2,3). Recorded in 11 x 1km squares on Living Record 2000-2019.

2091 Dark Sword-grass *Agrotis ipsilon* – Common and fairly widespread migrant / wanderer, the larvae feed on herbaceous plants. Corfe River Meadow (1,1) Arne Moors (4,4) Ballard (8,14) Goathorn (3,6) Holton Lee (1,1) Slepe Heath (5,16) Canford Heath (3,4) Carey Estate (1,1) Hamworthy (4,5). Recorded in 35 x 1km squares on Living Record 2000-2019.

2027 Dark Tussock *Dicallomera fascelina* – Scarce and restricted resident, the larvae feed on heathland plants including Heather, Broom, Hawthorn, Bramble and Creeping Willow. Arne Moors (2,2) Goathorn (1,1) Wareham Forest (1,2). Recorded in 14 x 1km squares on Living Record 2000-2019.

1725 Dark-barred Twin-spot Carpet *Xanthorhoe ferrugata* (S41) – Scarce and thinly distributed resident, the larvae feed on herbaceous plants. Ballard (2,5) Corfe Castle (1,1) Holton Lee (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2231 Deep-brown Dart *Aporophyla lutulenta* (S41) – Scarce and very local resident, the larvae feed on grasses and bushes, moorland populations feed on heather. Carey Estate 5 on 21st September and one on 8th October 2020. Hamworthy one on 18th October 2020. Carey Estate (1,6) Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

2195 Delicate *Mythimna vitellina* – Uncommon and thinly distributed migrant, the larvae feed on grasses. Ballard (11,26) Corfe Castle (1,4) Hartland Moor (1,2) Carey Estate (3,4) Hamworthy (3,6). Recorded in 13 x 1km squares on Living Record 2000-2019.

670 *Depressaria daucella* – Uncommon and thinly distributed resident, the larvae feed on Water Dropwort and similar species. Round Island, one on 12th August 2018. Round Island (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.



1751 Devon Carpet *Lampropteryx otregiata* (Nb) – Very scarce and restricted resident, the larvae feed on Marsh Bedstraw and Fen Bedstraw. Holton Lee, one on 20th May 2018, the sole record. Holton Lee (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 31 Devon Carpet, inside tube

2436 Dewick's Plusia *Macdunnoughia confusa* – Rare, mainly coastal migrant, the larvae feed on Common Nettle and other plants. Carey Estate one on 4th October 2019 the sole record. Carey Estate (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.



Fig. 32 Dewick's Plusia

862 *Dichomeris marginella* (Juniper Webber) – Scarce and thinly distributed resident, the larvae feed on wild and cultivated Juniper. Recorded twice from a garden in Sandford Gardens. Sandford Gardens (2,4). Recorded in 6 x 1km squares on Living Record 2000-2019.

472 *Digitivalva pulicariae* – Uncommon and thinly distributed resident, the larvae feed on Common Fleabane. Holton Lee one on 8th July 2018, Sandford Gardens one on 21st July 2018 confirmed by Dr Phil Sterling. Holton Lee (1,1) Sandford Gardens (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

2044 Dingy Footman *Eilema griseola* – Very common and widespread resident, the larvae feed on lichens. Arne Moors (10,33) Ballard (3,54) Goathorn (2,3) Holton Lee (5,23) Holton Heath (1,1) Sandford Gardens (2,9) Canford Heath (2,2) Round Island (1,1) Carey Estate (16,126) Wareham Forest (1,3). Recorded in 41 x 1km squares on Living Record 2000-2019.



1675 Dingy Mocha *Cyclophora pendularia* (RDB3) (S41) – Scarce and restricted resident, the larvae feed on young-stage Willow species. Slepe one on 17th July 2017. Holton Heath one on 16th July 2018 the only records. Slepe Heath (1,1) Holton Heath (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

Fig. 33 Dingy Mocha

1874 Dingy Shell *Euchoeca nebulata* – Uncommon and thinly distributed resident, the larvae feed on Alder. Holton Lee (1,1) Canford Heath (3,7) Carey Estate (2,3). Recorded in 7 x 1km squares on Living Record 2000-2019.

1454 *Dioryctria abietella* – Uncommon and thinly distributed or restricted resident, the larvae feed on Scots Pine. Arne Moors (1,1) Goathorn (1,1) Slepe Heath (2,3) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1455 *Dioryctria simplicella* – Uncommon and thinly distributed or restricted resident, the larvae feed on Scots Pine. Ballard (1,1) Sandford Gardens (1,1) Slepe Heath (1,1) Carey Estate (6,6) Hamworthy (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1454b *Dioryctria sylvestrella* (Nb) – Uncommon and thinly distributed or restricted resident, the larvae feed on Pine. Arne Moors, Site 2, one on 9th July 2019. Carey Estate 4 recorded on 3 occasions in 2019 and 2020. Arne Moors (1,1) Carey Estate (3,4). Recorded in 9 x 1km squares on Living Record 2000-2019.



Fig. 34 *Dioryctria sylvestrella*

1010 *Ditula angustiorana* (Red-barred Tortrix) – Fairly common and widespread resident, the larvae feed on various plants. Corfe River Meadow (1,1) Arne Moors (2,2) Goathorn (1,1) Holton Lee (2,4) Talbot Heath (1,8) Hamworthy (2,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

2159 Dog's tooth *Lacanobia suasa* – Uncommon and very local resident, the larvae feed on herbaceous plants. Arne Moors (14,22) Ballard (1,1) Slepe Heath (1,1) Holton Lee (2,2) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.



1399 *Dolicharthria punctalis* (Nb) – Uncommon and thinly distributed and restricted coastal resident, the larvae feed on Bird's-foot Trefoil, Red Clover, and Buckshorn Plantain. Ballard one on 23rd July 2018 the sole record. Ballard (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 35 *Dolicharthria punctalis*

1329 *Donacaula forcifella* – Uncommon and thinly distributed and restricted resident, the larvae feed on Common Reed. Arne Moors (11,22) Holton Lee (4,4) Slepe Heath (1,1) Carey Estate (5,6). Recorded in 8 x 1km squares on Living Record 2000-2019.

1330 *Donacaula mucronella* (Nb) – Rare and very local resident, the larvae feed on Reeds and Sedges. Arne Moors, Site 1, one on 27th August 2019, Goathorn one on 5th July 2018. Arne Moors (1,1) Goathorn (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

2155 Dot Moth *Melanchra persicariae* (S41) – Common and fairly widespread resident, the larvae feed on herbaceous and woody plants. Surprisingly only recorded from Carey Estate, with singles on 5th and 20th July 2019 and 29th June 2020. Carey Estate (3,3). Recorded in 15 x 1km squares on Living Record 2000-2019.

1701 Dotted Border Wave *Idaea sylvestraria* (Nb) – Scarce, larval foodplant unknown in the wild. Goathorn (3,14) Holton Heath (1,4) Slepe Heath (2,3) Canford Heath (1,2) Wareham Forest (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

2260 Dotted Chestnut *Conistra rubiginea* (Nb) – Scarce and thinly distributed resident, the larvae feed on various deciduous trees including Apple, Oak and Sallow. Slepe one on 22nd April 2018 the sole record. Slepe (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

2130 Dotted Clay *Xestia baja* – Local, the larvae feed on various herbaceous plants. Slepe one on 19th July 2018. One Holton Lee on 2nd September 2019. Slepe (1,1) Holton Lee (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.



Fig. 36 Dotted Clay

2336 Double Lobed *Apamea ophiogramma* – Uncommon and thinly distributed or restricted resident, the larvae feed on grasses. Arne Moors singles on 9th and 24th July 2019. Carey Estate 3 on 5th July and singles on 7th and 14th July 2019. Arne Moors (2,2) Carey Estate (3,5). Recorded in 10 x 1km squares on Living Record 2000-2019.

2128 Double Square-spot *Xestia triangulum* – Very common and fairly widespread resident, the larvae feed on herbaceous plants. Corfe River Meadow (2,3) Goathorn (1,1) Canford Heath (1,2) Hartland Moor (1,1) Talbot Heath (1,5) Carey Estate (10,28). Recorded in 19 x 1km squares on Living Record 2000-2019.

1862 Double-striped Pug *Gymnoscelis rufifasciata* – Common and widespread resident, the larvae feed on many plants. Arne Moors (9,23) Ballard (7,11) Corfe Castle (3,6) Goathorn (12,22) Holton Lee (13,21) Sandford Gardens (2,6) Slepe Heath (8,15) Canford Heath (7,13) Hartland Moor (2,2) Round Island (1,1) Godlingstone Heath (3,6) Talbot Heath (1,2) Grange Heath (1,4) Creech Heath (3,6) Carey Estate (22,64) Longfleet School (2,2) Ham Common (1,3) Hamworthy (22,50) Stoborough Heath (1,4). Recorded in 55 x 1km squares on Living Record 2000-2019.

1640 Drinker *Euthrix potatoria* – Common and fairly widespread resident, larvae feed on coarse grasses and reeds. Arne Moors (17,67) Ballard (4,9) Goathorn (1,2) Holton Lee (7,16) Holton Heath (1,1) Sandford Gardens (2,3) Slepe Heath (4,6) Carey Estate (7,22) Wareham Forest (1,3). Recorded in 30 x 1km squares on Living Record 2000-2019.

2318 Dun-bar *Cosmia trapezina* – Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. Arne Moors (6,6) Ballard (3,4) Goathorn (1,1) Holton Lee (3,7) Holton Heath (1,1) Sandford Gardens (2,7) Slepe Heath (3,3) Canford Heath (2,2) Carey Estate (7,15) Longfleet School (1,4) Hamworthy (2,3). Recorded in 32 x 1km squares on Living Record 2000-2019.

2330 Dusky Brocade *Apamea remissa* (S41) – Very common and widespread resident, the larvae feed on grasses. Arne Moors (6,32) Ballard (1,2) Corfe Castle (1,1) Goathorn (1,2) Hartland Moor (4,31). Recorded in 22 x 1km squares on Living Record 2000-2019.

2352 Dusky Sallow *Eremobia ochroleuca* – Fairly common and widespread resident, the larvae feed on grasses. Ballard one on 23rd July 2018, Carey Estate one on 25th July 2020 the only records. Ballard (1,1) Carey Estate (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1914 Dusky Thorn *Ennomos fuscantaria* (S41) – Fairly common and widespread resident, the larvae feed on Ash. Ballard (3,4) Corfe Castle (5,28) Holton Lee (8,10) Holton Heath (1,1) Sandford Gardens (1,1) Carey Estate (11,26) Hamworthy (1,2). Recorded in 21 x 1km squares on Living Record 2000-2019.

1705 Dwarf Cream Wave *Idaea fuscovenosa* – Scarce and very local resident foodplant is little known in the wild. Corfe River Meadow (1,1) Arne Moors (1,1) Corfe Castle (1,1) Goathorn (3,5) Sandford Gardens (1,2) Slepe Heath (1,2) Canford Heath (1,1) Hartland Moor (1,1) Talbot Heath (1,1) Carey Estate (5,10) Longfleet School (1,3) Hamworthy (5,7). Recorded in 32 x 1km squares on Living Record 2000-2019.

2358/2360 Ear Moth aggregate *Amphipoea oculea* agg. (S41) – Uncommon and thinly distributed or restricted resident, the larvae feed on grasses. The Ear Moth species are only identifiable from genitalia dissection, so are treated as an aggregate species. Ballard (1,1) Holton Lee (3,5) Sandford Gardens (2,29) Slepe Heath (3,13) Carey Estate (2,3) Wareham Forest (1,1). Recorded as aggregates in 21 x 1km squares on Living Record 2000-2019.

2243 Early Grey *Xylocampa areola* – Common and widespread resident, the larvae feed on Honeysuckle. Slepe Heath (3,3) Hartland Moor (1,4) Stoborough Heath (3,3) Godlingstone Heath (2,4) Grange Heath (2,3) Creech Heath (2,5) Carey Estate (1,5). Recorded in 28 x 1km squares on Living Record 2000-2019.

1917 Early Thorn *Selenia dentaria* – Very common and widespread resident, the larvae feed on Blackthorn, Hawthorn, Hazel and other broadleaved trees. Ballard (2,3) Sandford Gardens (2,3) Canford Heath (1,1) Round Island (1,1) Carey Estate (3,3). Recorded in 29 x 1km squares on Living Record 2000-2019.



23 *Ectoedemia argyropeza* – Very rare resident, the larvae fed on Aspen. Slepe Heath recorded as leaf-mine on 22nd November 2020. Slepe Heath (1, leaf-mine). Confirmed by Jack Oughton. This may constitute the first record for Poole Harbour this century.

Fig. 37 *Ectoedemia argyropeza*, tenanted leaf-mine on Aspen

25 *Ectoedemia intimella* – Very rare resident, the larvae feed on Willows. Ballard, recorded as leaf-mine on Willow, 11th November 2020. Ballard (1, leaf-mine). Recorded in 3 x 1km squares on Living Record 2000-2019.

610 *Elachista argentella* – Uncommon and thinly distributed resident, the larvae feed on various grasses. Ballard (5,18) Corfe Castle (2,8). Recorded in 5 x 1km squares on Living Record 2000-2019.

597 *Elachista atricomella* – Uncommon and thinly distributed resident, the larvae feed on Cock's-foot. Ballard (7,13) verified by Dr Phil Sterling, Corfe Castle (1,1) Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

607 *Elachista canapennella* – Uncommon and thinly distributed resident, the larvae feed on various grasses. Carey Estate one on 28th September 2020 the sole record. Carey Estate (1,1). Recorded in 1 other 1km square on Living Record 2000-2019.

631 *Elachista freyerella* – Rare and very local resident, the larvae feed on various grasses. Holton Lee one on 31st August 2018, a female, confirmed by Dr Phil Sterling. Holton Lee (1,1). Apparently, the sole Poole Harbour record this century.

1449 *Elegia similella* (Nb) – Rare and local resident the larvae feed on Oak. Carey Estate one on 2nd August 2019. Carey Estate (1,1). Recorded in one other 1km square on Living Record 2001-2019.



Fig. 38 *Elegia similella* in tube

1991 Elephant Hawk-moth *Deilephila elpenor* – Common and widespread resident, the larvae feed on Rosebay Willowherb, other willowherbs and bedstraws. Corfe River Meadow (2,8) Arne Moors (15,75) Ballard (8,26) Corfe Castle (1,3) Goathorn (3,4) Holton Lee (6,26) Holton Heath (1,1) Sandford Gardens (2,3) Slepe Heath (3,6) Canford Heath (2,3) Hartland Moor (6,48) Talbot Heath (1,2) Carey Estate (14,47) Upton Heath (1,1) Longfleet School (1,1) Hamworthy (11,26). Recorded in 44 x 1km squares on Living Record 2000-2019.

1345 *Elophila nymphaeata* (Brown China-mark) – Fairly common and widely distributed resident, the larvae feed on various aquatic plants and pondweed. Arne Moors (10,26) Ballard (1,1) Holton Lee (9,14) Goathorn (3,5) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (10,26) Hamworthy (1,1) Longfleet School (1,1). Recorded in 31 x 1km squares on Living Record 2000-2019.

1524 *Emmelina monodactyla* (Common Plume) – Common and widespread resident, the larvae feed on Bindweed species. Ballard (1,1) Corfe Castle (2,2) Holton Lee (1,1) Hartland Moor (1,1) Talbot Heath (1,1) Longfleet School (1,1) Hamworthy (11,12). Recorded in 23 x 1km squares on Living Record 2000-2019.



1643 Emperor Moth *Saturnia pavonia* – Scarce and restricted resident. The larvae feed on woody plants, Heathers, Bramble, Hawthorns etc. Arne Moors (1,2) Holton Lee (1,1) Slepe Heath (2,8) Hartland Moor (2,7) Godlingstone Heath (1,7) Grange Heath (2,2) Creech Heath (2,3) Stoborough Heath (1,1). Recorded in 25 x 1km squares on Living Record 2000-2019.

Fig. 39 Emperor Moth

1216 *Enarmonia formosana* (Cherry Bark Moth) – Scarce and thinly distributed resident, the larvae feed on various rosaceous trees, especially Apple, Cherry trees and Rowan. Hamworthy singles recorded on 3 occasions in 2020. Hamworthy (3,3). Recorded in 5 x 1km squares on Living Record 2000-2019.

1099 *Endothenia marginana* – Scarce and thinly distributed resident, the larvae feed on flower and seed-heads of Teasel, Ribwort Plantain, Betony, Yellow Rattle, amongst others. Arne Moors (1,1) a male confirmed by Dr Phil Sterling, Ballard (7,8) including five males and one female, confirmed by Dr Phil Sterling, Hamworthy (1,1) a female, confirmed by Dr Phil Sterling. Recorded in 5 x 1km squares on Living Record 2000-2019.

1098 *Endothenia oblongana* – Scarce and thinly distributed resident, the larvae feed on Knapweed. Corfe River Meadow one on 7th July 2020. The foodplant is abundant. Corfe River Meadow (1,1). Recorded in 1 x 1km square on Living Record 2000-2019.

1104 *Endothenia quadrimaculana* – Uncommon and thinly distributed resident, the larvae feed on Marsh Woundwort and Spearmint. Corfe River Meadow (1,2) Holton Lee (1,1) Slepe Heath (1,1) confirmed by Dr Phil Sterling. Recorded in 2 x 1km squares on Living Record 2000-2019.

1424 *Endotricha flammealis* – Common and widespread resident, the larvae feed on various plants and deciduous trees including Sallow and Oak. Arne Moors (5,19) Ballard (2,2) Goathorn (3,35) Holton Lee (6,73) Holton Heath (1,1) Sandford Gardens (2,17) Slepe Heath (4,8) Canford Heath (6,25) Carey Estate (8,20) Upton Heath (1,4) Longfleet School (1,17) Hamworthy (9,31). Recorded in 35 x 1km squares on Living Record 2000-2019.

648 *Endrosis sarcitrella* (White-shouldered House Moth) – Uncommon and thinly distributed resident, the larvae feed on household detritus, dried goods, cereal, grain. Arne Moors (1,1) Ballard (2,2) Goathorn (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1947 *Engrailed Ectropis crepuscularia* – Fairly common and widespread resident, the larvae feed on woody plants. Corfe River Meadow (1,1) Arne Moors (2,5) Corfe Castle (1,1) Slepe (1,1) Carey Estate (9,11). Recorded in 13 x 1km squares on Living Record 2000-2019.

106 *Epagoge grotiana* – Uncommon and thinly distributed resident, the larvae feed on Oak, Hawthorn and Bramble. Holton Lee one on 12th August 2017, Talbot Heath one on 29th June 2018, Carey Estate one on 27th June 2019. Holton Lee (1,1) Talbot Heath (1,1) Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1474 *Ephestia unicolor* – Fairly common and widely distributed resident, the larvae feed on dried leaves and plant matter. Carey Estate (3,3) two, both males confirmed by Dr Phil Sterling on 27th June and 14th July 2019, Hamworthy (7,26). Recorded in 5 x 1km squares on Living Record 2000-2019.

1187 *Epiblema costipunctana* – Scarce and thinly distributed resident, the larvae feed on Ragwort. Ballard singles on 9th July 2018 and 8th July 2019, a male, confirmed by Dr Phil Sterling. Ballard (2,2). Apparently, the only Poole Harbour record this century.

1184 *Epiblema scutulana* – Uncommon and thinly distributed resident, the larvae feed on Musk Thistle and Spear Thistle. Arne Moors one on 5th June 2018, Holton Lee one on 22nd July 2018 confirmed by Dr Phil Sterling. Arne Moors (1,1) Holton Lee (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1133 *Epinotia bilunana* – Common and thinly distributed or restricted resident, the larvae feed on Birch. Ballard (1,1) Goathorn (1,1) Carey Estate (2,2) Ham Common (1,1) Hamworthy (5,16). Recorded in 14 x 1km squares on Living Record 2000-2019.

1147 *Epinotia cruciana* (Willow Tortrix) – Scarce and thinly distributed resident, the larvae feed on Sallow and Willows, including Creeping Willow. Holton Lee one on 8th July 2018, a male, confirmed by Dr Phil Sterling. The sole record. Holton Lee (1,1). Apparently, the only record for Poole Harbour this century and possibly new for the Harbour.

1136 *Epinotia immundana* – Uncommon and thinly distributed resident, the larvae feed on Alder and Birch. Hamworthy 2 on 9th November 2020, confirmed by Dr Phil Sterling. Hamworthy (1,2). Recorded in 4 x 1km squares on Living Record 2000-2019.

1138 *Epinotia nisella* – Uncommon and thinly distributed resident, the larvae feed on Sallow and Poplar. Ballard one on 6th August 2018, a male, confirmed by Dr Phil Sterling, 3 on 21st August 2018, Hamworthy one on 31st July 2020. Recorded in 9 x 1km squares on Living Record 2000-2019.

1134 *Epinotia ramella* – Uncommon and thinly distributed resident, the larvae feed on Birch and Sallow. Goathorn (2,2) Holton Lee (4,9) Round Island (1,1) Carey Estate (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.



Fig. 40 *Epinotia ramella* ©Chris Fox

998 *Epiphyas postvittana* (Light Brown Apple Moth) – Abundant and naturalised resident, larvae feed on many plants. Arne Moors (10,24) Ballard (14,55) Corfe Castle (4,16) Goathorn (3,4) Holton Lee (7,14) Sandford Gardens (2,14) Sleppe Heath (2,3) Canford Heath (1,1) Round Island (1,1) Carey Estate (7,8) Longfleet School (1,3) Ham Common (1,1) Hamworthy (32,140). Recorded in 42 x 1km squares on Living Record 2000-2019.

649 *Esperia sulphurella* – Uncommon and thinly distributed resident, the larvae feed on rotting wood and associated fungi. Ballard one on 21st May 2018 the sole record. Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1197 *Eucosma campoliliana* – Uncommon and thinly distributed or restricted resident, the larvae feed on Common Ragwort. Ballard (5,10) Hartland (2,2) Carey Estate (4,5). Recorded in 7 x 1km squares on Living Record 2000-2019.

1201 *Eucosma cana* – Fairly common and widely distributed resident, the larvae feed on Thistles, common Knapweed, Black Knapweed. Arne Moors (6,9) Ballard (2,2) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (2,2) Sleppe Heath (1,2) Carey Estate (3,6). Recorded in 14 x 1km squares on Living Record 2000-2019.

1200 *Eucosma hohenwartiana* – Uncommon and thinly distributed or restricted resident, the larvae feed on Knapweed species and Saw-wort. Arne Moors singles on 3rd and 31st July 2018, Carey Estate one on 15th June 2020, a female, confirmed by Dr Phil Sterling. Arne Moors (2,2) Carey Estate (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1202 *Eucosma obumbratana* – Scarce and thinly distributed resident, larvae feed on Perennial Sow-thistle. Ballard one on 9th July 2018, Canford Heath one on 11th July 2020 confirmed by Dr Phil Sterling, Hamworthy one on 12th July 2020. Ballard (1,1) Canford Heath (1,1) Hamworthy (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1342 *Eudonia angustea* – Common and widespread resident the larvae feed on lichens and mosses. Ballard (3,3) Corfe Castle (3,4) Holton Lee (4,10) Hartland Moor (1,1) Carey Estate (2,2) Hamworthy (11,37). Recorded in 22 x 1km squares on Living Record 2000-2019.

1343 *Eudonia delunella* (Nb) – Uncommon and thinly distributed or restricted resident, the larvae feed on lichens and mosses. Arne Moors (4,6) Holton Lee (3,11) Carey Estate (5,9) Longfleet School (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1338 *Eudonia lacustrata* – Fairly common and widely distributed resident, larvae feed on mosses. Arne Moors (2,2) Ballard (3,13) Goathorn (2,2) Holton Lee (3,4) Talbot Heath (1,2) Carey Estate (8,16). Recorded in 24 x 1km squares on Living Record 2000-2019.

1334 *Eudonia mercurella* – Common and widespread resident, the larvae feed on mosses. Corfe River Meadow (1,2) Arne Moors (10,20) Ballard (2,9) Goathorn (5,6) Holton Lee (13,27) Holton Heath (1,3) Sandford Gardens (2,10) Slepe Heath (5,9) Canford Heath (3,7) Hartland Moor (1,4) Round Island (1,1) Carey Estate (25,139) Wareham Forest (1,6) Ham Common (1,3) Hamworthy (9,13). Recorded in 35 x 1km squares on Living Record 2000-2019.

1336 *Eudonia pallida* – Fairly common and widely distributed resident, the larvae feed on mosses. Arne Moors (13,50) Ballard (14,23) Corfe Castle (1,1) Goathorn (3,5) Holton Lee (17,44) Slepe Heath (3,4) Canford Heath (1,1) Hartland Moor (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 23 x 1km squares on Living Record 2000-2019.

1340 *Eudonia truncicolella* – Uncommon and thinly distributed or restricted resident, the larvae feed on mosses. Goathorn (3,5) Holton Lee (6,9) Round Island (1,1) confirmed as a male by Dr Phil Sterling. Recorded in 9 x 1km squares on Living Record 2000-2019.

954 *Eupoecilia angustana* – Uncommon and thinly distributed resident, the larvae feed on Plantains, wild herbs, Heather, Sitka Spruce. Ballard (7,14) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (1,1) Holton Heath (1,1) Slepe Heath (4,16) Canford Heath (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1470 *Euzophera pinguis* – Fairly common and widely distributed resident, the larvae feed on Ash. Holton Lee (1,2) Slepe Heath (1,1) Carey Estate (7,13) Hamworthy (4,4). Recorded in 7 x 1km squares on Living Record 2000-2019.

1357 *Evergestis extimalis* – Uncommon and thinly distributed or restricted resident, the larvae feed on various brassicas. Talbot Heath one on 29th June 2018, Hamworthy one on 9th August 2020. Talbot Heath (1,1) Hamworthy (1,1). Apparently, the only records for Poole Harbour this century.

1356 *Evergestis forficalis* (Garden Pebble) – Common and widespread resident, the larvae feed on various brassicas. Corfe Castle (1,2) Holton Lee (1,1) Hamworthy (6,7). Recorded in 13 x 1km squares on Living Record 2000-2019.



1356a *Evergestis limbata* (Nb) – Rare and very local recent resident, the larvae feed on Hedge Mustard and Garlic Mustard. Ballard (2,2) Sandford Gardens (1,1) Carey Estate (2,2). Recorded in 9 x 1km squares on Living Record 2000-2019.

Fig. 41 *Evergestis limbata*

1358 Evergestis pallidata – Scarce and thinly distributed or restricted resident, the larvae feed on various brassicas. Carey Estate singles on 26th July 2019, 30th July and 10th August 2020. Carey Estate (3,3). Recorded in 2 x 1km squares on Living Record 2000-2019.

1980 Eyed Hawk-moth *Smerinthus ocellata* – Uncommon and thinly distributed or restricted resident, the larvae feed on Willow, Sallow, Apple, Crab Apple. Arne Moors (8,11) Ballard (2,2) Corfe Castle (2,3) Holton Lee (3,3) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (5,7). Recorded in 23 x 1km squares on Living Record 2000-2019.

2489 Fan-foot *Zanclognatha tarsipennalis* – Common and fairly widespread resident, the larvae feed on fallen leaves from Oaks, Beech etc. Arne Moors (1,1) Holton Lee (3,4) Hartland Moor (1,1) Carey Estate (6,12) Hamworthy (1,1). Recorded in 29 x 1km squares on Living Record 2000-2019.

2230 Feathered Brindle *Aporophyla australis* (Nb) – Uncommon and mainly coastal resident, the larvae feed on Sea Campion and coastal grasses. Goathorn one on 28th September 2017 the sole record. Goathorn (1,1). The only record in Living Record 2000-2019.



Fig. 42 Feathered Brindle in tube

2178 Feathered Gothic *Tholera decimalis* (S41) – Uncommon and thinly distributed or restricted resident, the larvae feed on grasses. Arne Moors (3,24) Ballard (4,4) Corfe Castle (5,32) Goathorn (3,6) Holton Lee (4,8) Sleppe Heath (1,1) Carey Estate (3,13). Recorded in 20 x 1km squares on Living Record 2000-2019.

2255 Feathered Ranunculus *Polymixis lichenea* – Uncommon and restricted resident, the larvae feed on herbaceous plants. Ballard 6 on 3 occasions in October 2018, Corfe Castle singles on 2 occasions in September 2017. Ballard (3,6) Corfe Castle (2,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

1923 Feathered Thorn *Colotois pennaria* – Fairly common and fairly widespread resident, the larvae feed on broadleaved trees. Sleppe Heath one on 14th October 2017 the sole record. Sleppe Heath (1,1). Recorded in 16 x 1km squares on Living Record 2000-2019.

2377 Fen Wainscot *Arenostola phragmitidis* – Uncommon and restricted resident the larvae feed on Common Reed. Arne Moors (1,1) Goathorn (1,1) Holton Lee (5,18) Sandford Gardens (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1782 Fern *Horisme tersata* – Uncommon and thinly distributed resident, the larvae feed on Traveller's Joy. Ballard, singles on 2nd July 2018 and 17th June 2019. The foodplant is abundant. Ballard (2,2). Recorded in 2 x 1km squares on Living Record 2000-2019.

173 Festoon *Apoda limacodes* (Nb) – Scarce and restricted resident, the larvae feed on Oak and Beech. Corfe River Meadow (1,1) Arne Moors (1,1) Ballard (1,1) Goathorn (1,1) Longfleet School (1,1) Carey Estate (4,8) Wareham Forest (1,2). Recorded in 24 x 1km squares on Living Record 2000-2019.

2098 Flame *Axylia putris* – Very common and fairly widespread resident, larvae feed on many low growing plants. Arne Moors (2,2) Ballard (4,22) Corfe Castle (3,28) Holton Lee (1,1) Hartland (1,3) Talbot Heath (1,1) Carey Estate (10,22) Upton Heath (1,1) Longfleet School (1,1) Wareham Forest (1,1) Hamworthy (2,2). Recorded in 33 x 1km squares on Living Record 2000-2019.

1722 Flame Carpet *Xanthorhoe designata* – Common and fairly widespread resident. Only recorded at Carey Estate where 6 were caught on 5 occasions. Carey Estate (5,6). Recorded in 8 x 1km squares on Living Record 2000-2019.

2102 Flame Shoulder *Ochropleura plecta* – Abundant and widespread resident the larvae feed on herbaceous plants. Corfe River Meadow (1,2) Arne Moors (27,72) Ballard (15,48) Corfe Castle (5,8) Holton Lee (20,56) Sandford Gardens

(2,3) Slepe (10,27) Hartland (2,2) Carey Estate (31,102) Wareham Forest (1,1) Ham Common (1,2) Hamworthy (9,13). Recorded in 52 x 1km squares on Living Record 2000-2019.



2209 Flame Wainscot *Mythimna flammea* (Na) – Very rare and very local migrant / wanderer. Larvae feed on Common Reed. Recorded only from the reedbed at Holton Lee with 5 trapped on 4 occasions. Holton Lee (4,5). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 43 Flame Wainscot

2265 Flounced Chestnut *Agrochola helvola* (S41) – Scarce and local resident, the larvae feed on broadleaved trees. Ballard singles on 23rd October 2018 and 19th October 2020, Goathorn one on 27th September 2018 and 2 on 4th October 2018, Slepe 2 on 14th October 2018 and 1 on 2nd October 2019. Ballard (2,2) Goathorn (2,3) Slepe (2,2). Recorded in 4 x 1km squares on Living Record 2000-2019.



Fig. 44 Flounced Chestnut

2353 Flounced Rustic *Luperina testacea* – Abundant and widespread resident, the larvae feed on grasses. Arne Moors (4,33) Ballard (6,9) Corfe Castle (6,82) Goathorn (2,2) Holton Lee (10,21) Carey Estate (12,54) Wareham Forest (1,1) Hamworthy (9,16). Recorded in 45 x 1km squares on Living Record 2000-2019.

2040 Four-dotted Footman *Cybosia mesomella* – Fairly common but restricted resident, the larvae feed on algae and lichens on woody plants. Arne Moors (4,29) Goathorn (4,24) Holton Lee (3,8) Sandford Gardens (1,1) Slepe Heath (1,1) Canford Heath (2,12) Talbot Heath (1,32) Carey Estate (5,5). Recorded in 29 x 1km squares on Living Record 2000-2019.

2051 Four-spotted Footman *Lithosia quadra* (Na) – Migrant, recent colonist, the larvae feed on Dog Lichen and other lichens. Arne Moors (7,22) Corfe Castle (1,1) Goathorn (4,5) Holton Lee (3,3) Slepe Heath (5,5) Sandford Gardens (2,6) Round Island (1,6) Carey Estate (20,63). Recorded in 29 x 1km squares on Living Record 2000-2019.

1638 Fox Moth *Macrothylacia rubi* – Uncommon and restricted resident, the larvae feed on Heathers, Bilberry, Creeping Willow, Brambles. Arne Moors (4,11) Ballard (1,2) Corfe Castle (2,3) Goathorn (2,2) Holton Lee (2,3) Slepe Heath (2,13) Hartland Moor (2,3) Creech Heath (1,1). Recorded in 26 x 1km squares on Living Record 2000-2019.

1817 Foxglove Pug *Eupithecia pulchellata* – Uncommon and fairly widespread resident, the larvae feed on Foxglove. Holton Lee (1,1) Goathorn (1,1) Slepe Heath (1,2) Carey Estate (4,5). Recorded in 22 x 1km squares on Living Record 2000-2019.

1660 Frosted Green *Polyphoca ridens* – Fairly common and widespread resident, the larvae feed on Pedunculate, Sessile and Turkey Oaks. Carey Estate one on 21st April 2019, the sole record. Carey Estate (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

2364 Frosted Orange *Gortyna flavago* – Common and fairly widespread resident, the larvae feed on herbaceous plants, Thistles, Burdocks, Foxglove. Arne Moors (5,8) Ballard (3,4) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (5,5) Carey Estate (5,7). Recorded in 18 x 1km squares on Living Record 2000-2019.



1740 Galium Carpet *Epirrhoe galiata* (S41) – Uncommon and restricted resident, the larvae feed on Lady's, Heath and Hedge Bedstraws. Ballard Down 5 recorded on 4 occasions in 2018, 2019 and 2020. Corfe Castle two on 1st June 2018. Ballard (4,5) Corfe Castle (1,2). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 45 Galium Carpet

1728 Garden Carpet *Xanthorhoe fluctuata* – Very common and widespread resident, the larvae feed on herbaceous plants. Ballard (2,2) Corfe Castle (2,2) Carey Estate (1,1) Longfleet School (1,1) Hamworthy (6,9). Recorded in 31 x 1km squares on Living Record 2000-2019.

2057 Garden Tiger *Arctia caja* (S41) – Common and widespread resident, the larvae feed on herbaceous plants, Nettle, Docks, Burdocks etc. Arne Moors (11,57) Ballard (5,13) Corfe Castle (1,1) Holton Lee (2,3) Sleppe Heath (2,3) Carey Estate (7,7). Recorded in 21 x 1km squares on Living Record 2000-2019.

14 Ghost Moth *Hepialus humili* (S41) – Common and widespread resident, the larvae feed on grasses and herbaceous plants. Ballard (1,1) Canford Heath (1,1) Carey Estate (3,3). Recorded in 8 x 1km squares on Living Record 2000-2019.

393 Glyphipterix *schoenicolella* (Na) – Rare and restricted resident, the larvae feed on Black Bog-rush. Arne Moors one on 11th August 2020, Ballard one on 3rd September 2018, both verified by Dr Phil Sterling. Arne Moors (1,1) Ballard (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

391 Glyphipterix *simpliciella* – Common and fairly widespread resident, larvae feed on Cocksfoot. Arne Moors (1,1) Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

397 Glyphipterix *thrasionella* – Fairly common but restricted resident, the larvae feed on Rush species. Arne Moors (3,4) Ballard (1,1) Hartland Moor (1,1) Hamworthy (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

162 Goat Moth *Cossus cossus* (Nb) (S41) – A rare and very local resident, the larvae feed mainly on Poplar and Willow species, and various deciduous trees. Carey Estate 2 adults trapped on 25th June 2020. Carey Estate (1,2). Recorded in 3 x 1km squares on Living Record 2000-2019.



Fig. 46 Goat Moth

2439 Gold Spot *Plusia festucae* – Uncommon and local resident, the larvae feed on Sedges, Yellow Iris, Bur-reed, Water Plantain. Arne Moors (16,49) Goathorn (4,7) Holton Lee (8,19) Sandford Gardens (1,1) Sleppe Heath (2,2) Carey Estate (12,16). Recorded in 22 x 1km squares on Living Record 2000-2019.

16 Gold Swift *Hepialus hecta* – Uncommon and thinly distributed and restricted resident, the larvae feed on Bracken. Arne Moors one on 21st June 2018, Holton Lee 5 recorded on 4 occasions in 2018 and 2019. Arne Moors (1,1) Holton Lee (4,5). Recorded in 3 x 1km squares on Living Record 2000-2019.

293 *Gracillaria syringella* – Common and fairly widespread resident, the larvae feed on Privet and Lilac. Hartland Moor, one on 30th June 2019 the sole record. Hartland Moor (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1247 *Grapholita funebrana* (Plum Fruit Moth) – Uncommon and thinly distributed resident, the larvae feed on Plums, Cherry and Blackthorn. Ballard one on 27th August 2018, a male, confirmed by Dr Phil Sterling, the sole record. Ballard (1,1). This is the only record for Poole Harbour on Living Record this century, though the species was recorded at Studland during the modern era Cyril Diver project.

1245 *Grapholita janthinana* – Scarce and thinly distributed resident, the larvae feed on Hawthorn. Ballard one on 15th September 2020, Hamworthy singles on 28th June and 31st July 2020. Confirmed by Dr Phil Sterling. Ballard (1,1) Hamworthy (2,2). Recorded in 5 x 1km squares on Living Record 2000-2019.



1636 Grass Eggar *Lasiocampa trifolii* (Na) – A rare and restricted resident, the larvae feed on various grasses and plants. Slepe Heath, 10 recorded on 3 occasions in August 2017, Arne Moors, one on 11th August 2020. Slepe Heath (3,10) Arne Moors (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 47 Grass Eggar

1665 Grass Emerald *Pseudoterpna pruinata* – A scarce and local resident, the larvae feed on Gorse, Broom Petty Whin. Corfe River Meadow (1,1) Arne Moors (1,1) Ballard (1,1) Goathorn (2,8) Holton Lee (2,2) Holton Heath (1,3) Slepe Heath (5,13) Canford Heath (6,14) Hartland Moor (3,4) Talbot Heath (1,7) Carey Estate (1,1). Recorded in 32 x 1km squares on Living Record 2000-2019.

1970 Grass Wave *Perconia strigillaria* – Scarce and restricted resident, the larvae feed on Heathers & Broom. Slepe Heath 3 on 30th May 2019 the sole record. Slepe (1,3). Recorded in 8 x 1km squares on Living Record 2000-2019.

2005 Great Prominent *Peridea anceps* – Uncommon and restricted resident, the larvae feed on Pedunculate and Sessile Oaks. Arne Moors (1,4) Goathorn (2,6) Holton Lee (1,1) Slepe Heath (1,1) Grange Heath (2,5) Creech Heath (3,12) Carey Estate (8,37). Recorded in 16 x 1km squares on Living Record 2000-2019.

1776 Green Carpet *Colostygia pectinataria* – Very common and widespread resident, the larvae feed on Bedstraws. Arne Moors (5,9) Ballard (12,73) Corfe Castle (4,8) Holton Lee (12,27) Hartland Moor (1,1) Carey Estate (3,5). Recorded in 28 x 1km squares on Living Record 2000-2019.

1860 Green Pug *Pasiphila rectangulata* – Common and widespread resident, the larvae feed on Crab Apple, Pear, Apple, Hawthorn, Blackthorn and Cherry. Carey Estate singles on 27th June, 5th July and 7th July 2019, Hamworthy 4 on 2nd June, 1 on 12th June 2020. Carey Estate (3,3) Hamworthy (2,5). Recorded in 8 x 1km squares on Living Record 2000-2019.

2422 Green Silver-lines *Pseudoips prasinana* – Fairly common but thinly distributed resident, the larvae feed on broadleaved trees. Arne Moors (1,1) Holton Lee (1,2) Hartland Moor (1,1) Talbot Heath (1,1) Carey Estate (2,2). Recorded in 19 x 1km squares on Living Record 2000-2019.

2245 Green-brindled Crescent *Allophyes oxycanthae* (S41) – Fairly common and widespread resident, the larvae feed on Hawthorns, Blackthorn, Dog-rose, Crab Apple. Ballard (1,1) Holton Lee (1,1) Carey Estate (2,2) Hamworthy (1,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

2150 Grey Arches *Polia nebulosa* – Scarce and thinly distributed or restricted resident, the larvae feed on woody plants, Hazel, Birches, Honeysuckle etc. Corfe River Meadow (1,1) Ballard (4,6) Goathorn (1,2) Hartland Moor (3,3) Carey Estate (10,38) Hamworthy (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

2283 / 2284 Grey / Dark Dagger aggregate *Acronicta tridens / psi* (S41) – Scarce and local resident the larvae feed on broadleaved trees and shrubs. The 2 species are considered separable only by dissection of the genitalia so are recorded as an aggregate species. Ballard (1,1) Holton Lee (1,1) Sandford Gardens (1,3) Canford Heath (1,1) Carey Estate (3,5) Hamworthy (2,2). Recorded in 7 x 1km squares on Living Record 2000-2019.

1768 Grey Pine Carpet *Thera obeliscata* – Fairly common and widespread resident, the larvae feed on coniferous trees, Pine, Spruce, Cypress. Arne Moors (2,2) Ballard (2,2) Corfe Castle (1,3) Goathorn (11,51) Holton Lee (9,17) Sandford Gardens (1,4) Slepe Heath (3,7) Canford Heath (1,1) Grange Heath (1,1) Carey Estate (25,109) Hamworthy (6,6). Recorded in 42 x 1km squares on Living Record 2000-2019.

1837 Grey Pug *Eupithecia subfuscata* – Uncommon and fairly widespread resident, the larvae feed on herbaceous plants. Carey Estate one on 8th June 2020, Wareham Forest one on 22nd July 2019, Hamworthy one on 12th July 2020. Carey Estate (1,1) Wareham Forest (1,1) Hamworthy (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

2237 Grey Shoulder-knot *Lithophane ornitopus* – Uncommon and thinly distributed resident, the larvae feed on Oak. Goathorn one on 18th October 2018, Carey Estate one on 21st March 2020 (Joe Parker). Goathorn (1,1) Carey Estate (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

1169 *Gypsonoma dealbana* – Uncommon and thinly distributed resident, the larvae feed on various trees and shrubs including Hawthorn, Hazel, Poplar and Sallow. Only recorded at Holton Lee, 9 on 3 occasions in July 2018. Holton Lee (3,9). Recorded in 12 x 1km squares on Living Record 2000-2019.

1168 *Gypsonoma sociana* – Scarce and thinly distributed resident, the larvae feed on Aspen, Black Poplar and Sallow. Holton Lee one on 25th September 2017 the sole record. Holton Lee (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2088 Heart and Club *Agrotis clavis* – Fairly common and thinly distributed resident, the larvae feed on herbaceous plants. Ballard (2,3) Hartland Moor (5,8) Carey Estate (3,4) Hamworthy (7,13). Recorded in 24 x 1km squares on Living Record 2000-2019.

2089 Heart and Dart *Agrotis exclamationis* – Abundant and widespread resident, the larvae feed on herbaceous plants. Corfe River Meadow (2,16) Arne Moors (15,29) Ballard (16,770) Corfe Castle (5,166) Goathorn (7,18) Holton Lee (12,24) Sandford Gardens (2,20) Slepe Heath (1,2) Hartland Moor (5,38) Round Island (1,2) Talbot Heath (1,1) Carey Estate (24,289) Upton Heath (1,2) Longfleet School (1,28) Wareham Forest (1,2) Hamworthy (15,272). Recorded in 57 x 1km squares on Living Record 2000-2019.

2135 Heath Rustic *Xestia agathina* (S41) – Scarce and thinly distributed or restricted resident, the larvae feed on Heather. Arne Moors (1,1) Goathorn (6,15) Holton Lee (1,1) Carey Estate (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

2190 Hebrew Character *Orthosia gothica* – Abundant and widespread resident, the larvae feed on herbaceous plants, bushes and trees. Arne Moors (1,2) Ballard (3,3) Goathorn (1,2) Slepe Heath (3,5) Hartland Moor (4,7) Godlingstone Heath (1,1) Grange Heath (3,4) Creech Heath (4,12) Carey Estate (4,29) Hamworthy (2,4). Recorded in 34 x 1km squares on Living Record 2000-2019.

2177 Hedge Rustic *Tholera cespitis* (S41) – A scarce and local resident, the larvae feed on grasses. Arne Moors (3,5) Ballard (2,5) Corfe Castle (5,8) Carey Estate (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1083 *Hedya nubiferana* (Marbled Orchard Tortrix) – Uncommon and thinly distributed resident, the larvae feed on various trees and shrubs including Hawthorn, Blackthorn and Wild Cherry. Ballard Down 4 recorded on 3 occasions. Ballard (3,4). Recorded in 8 x 1km squares on Living Record 2000-2019.

1084 *Hedya ochroleucana* – Scarce and thinly distributed resident, the larvae feed on Rose and Apple. Arne Moors one on 3rd July 2018, Carey Estate 2 on 23rd August 2019, confirmed by Dr Phil Sterling. Arne Moors (1,1) Carey Estate (1,2). Recorded in 4 x 1km squares on Living Record 2000-2019.

1082 *Hedya pruniana* (Plum Tortrix) – Fairly common and thinly distributed or restricted resident. The larval foodplants are wild fruit trees, also Hawthorn and Hazel. Ballard (5,6) Corfe Castle (2,4) Holton Lee (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1086 *Hedya salicella* – Uncommon and thinly distributed resident, the larvae feed on White and Goat Willows, Aspen and Black Poplar. Hartland Moor one on 30th June 2019 the sole record. Hartland Moor (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

868 *Helcystogramma rufescens* – Fairly common and widespread resident, the larvae feed on a selection of grasses, especially Wood Small-reed and False Brome. Ballard singles on 9th June and 8th July 2019, Carey Estate 4 recorded, twice in 2019 and once in 2020. Ballard (2,2) Carey Estate (3,4). Recorded in 8 x 1km squares on Living Record 2000-2019.



Fig. 48 *Helcystogramma rufescens*

2469 Herald *Scoliopteryx libatrix* – Uncommon and thinly distributed resident, the larvae feed on Willows, Aspen and Poplars. Corfe River Meadow (1,1) Arne Moors (2,2) Slepe Heath (3,3) Hartland Moor (1,1) Carey Estate, found overwintering in outbuildings (5,9). Recorded in 23 x 1km squares on Living Record 2000-2019.

647 *Hofmanophila pseudospretella* (Brown House Moth) – Fairly common and widespread resident, the larvae feed on household detritus. Arne Moors (1,3) Ballard (1,1) Corfe Castle (1,1) Goathorn (1,2) Holton Lee (2,3) Sandford Gardens (1,1) Carey Estate (3,3) Longfleet School (1,1) Hamworthy (7,16). Recorded in 26 x 1km squares on Living Record 2000-2019.



1481 *Hoemosoma sinuella* – Uncommon and thinly distributed or restricted resident, the larvae feed on Ribwort Plantain and other plantains. Ballard one on 27th August 2018, Hamworthy one on 12th June 2020. Ballard (1,1) Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 49 *Hoemosoma sinuella*

1905 Horse Chestnut *Pachycnemia hippocastanaria* (Nb) – Uncommon and restricted resident, the larvae feed on Heather and Cross-leaved Heath. Arne Moors (5,12) Ballard (1,1) Corfe Castle (1,1) Goathorn (11,32) Holton Heath (1,2) Sandford Gardens (2,4) Slepe Heath (17,93) Canford Heath (9,74) Hartland (10,90) Stoborough Heath (3,6) Godlingstone Heath (3,43) Talbot Heath (1,15) Grange Heath (2,4) Creech Heath (2,2) Carey Estate (3,4) Wareham Forest (1,9) Ham Common (1,2) Hamworthy (3,3). Recorded in 50 x 1km squares on Living Record 2000-2019.

1984 Hummingbird Hawk-moth *Macroglossum stellatarum* – Fairly common and widespread migrant, the larvae feed on Lady's Bedstraw, other Bedstraws and Wild Madder. Corfe Castle one on 16th September 2017, Carey Estate 2 on 18th August 2019, 2 on 23rd August 2019, one on 21st September 2020, Hamworthy one on 27th October 2019. Corfe Castle (1,1) Carey Estate (3,5) Hamworthy (1,1). Recorded in 32 x 1km squares on Living Record 2000-2019.

858 *Hypatima rhomboidella* – Scarce and thinly distributed resident, the larvae feed on Gorse. Corfe Castle one on 23rd September 2017 the sole record. Corfe Castle (1,1). Apparently, the only record for Poole Harbour this century.

1413 *Hypsopygia costalis* (Gold Triangle) – Common and widespread resident the larvae feed on dry vegetable matter, hay and dead grasses. Arne Moors (2,2) Ballard (1,1) Goathorn (1,1) Holton Lee (3,6) Slepe Heath (2,3) Sandford Gardens (1,1) Carey Estate (3,4) Hamworthy (3,3). Recorded in 19 x 1km squares on Living Record 2000-2019.

1415 Hypsopygia glaucinalis – Fairly common and widely distributed resident, the larvae feed on hay, straw, bird's nests. Arne Moors (1,1) Carey Estate (2,2) Hamworthy (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

2120 Ingrailed Clay *Diarsia mendica* – Very common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (1,1) Ballard (7,26) Corfe Castle (2,2) Goathorn (1,1) Holton Lee (1,1) Hartland Moor (3,5) Carey Estate (6,90). Recorded in 25 x 1km squares on Living Record 2000-2019.

2000 Iron Prominent *Notodonta dromedarius* – Fairly common and widespread resident, the larvae feed on Birch and Alder. Arne Moors (7,11) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (7,10) Sleppe Heath (4,8) Canford Heath (4,6) Hartland Moor (1,1) Round Island (1,1) Godlingstone Heath (1,1) Grange Heath (1,2) Creech Heath (2,4) Carey Estate (16,27) Ham Common (1,1) Hamworthy (1,1). Recorded in 41 x 1km squares on Living Record 2000-2019.

2067 Jersey Tiger *Euplagia quadripunctaria* (Nb) – Fairly common and mainly coastal resident / wanderer, the larvae feed on herbaceous plants including nettles. Arne Moors (2,2) Ballard (4,7) Carey Estate (2,3) Hamworthy (8,20). Recorded in 9 x 1km squares on Living Record 2000-2019.

1734 July Belle *Scotopteryx luridata* – Uncommon and restricted resident, the larvae feed on Gorse, Petty Whin, Dyer's Greenweed. Holton Lee one on 2nd September 2017, Canford Heath 14 recorded on 4 occasions in 2017 and 2020. Holton Lee (1,1) Canford Heath (4,14). Recorded in 11 x 1km squares on Living Record 2000-2019.

1777 July Highflyer *Hydriomena furcata* – Common and widespread resident, the larvae feed on Hazel, Sallow, Willows and others. Arne Moors (1,1) Ballard (2,2) Sandford Gardens (1,1) Carey Estate (1,1). Recorded in 20 x 1km squares on Living Record 2000-2019.

2076 Kent Black Arches *Meganola albula* (Nb) – Uncommon and restricted resident, the larvae feed on Dewberry, Bramble, Raspberry and Strawberry. Corfe River Meadow (1,3) Arne Moors (5,8) Ballard (5,16) Goathorn (2,12) Holton Lee (1,1) Holton Heath (1,1) Sleppe Heath (1,1) Hartland Moor (1,1) Carey Estate (4,4). Recorded in 29 x 1km squares on Living Record 2000-2019.

2289 Knot Grass *Acronicta rumicis* (S41) – Very common and widespread resident, the larvae feed on herbaceous and woody plants. Corfe River Meadow (1,1) Arne Moors (5,7) Ballard (5,8) Corfe Castle (2,3) Goathorn (1,1) Holton Lee (2,3) Holton Heath (1,1) Sandford Gardens (1,1) Sleppe Heath (4,4) Carey Estate (8,11) Longfleet School (1,1) Hamworthy (5,13). Recorded in 38 x 1km squares on Living Record 2000-2019.

1634 Lackey *Malacosoma neustria* (S41) – Common and widespread resident, the larvae feed on broadleaved trees and shrubs including the rose family. Corfe River Meadow (1,1) Ballard (5,8) Talbot Heath (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2202 L-album Wainscot *Mythimna l-album* (Nb) – Scarce and mainly coastal resident and local wanderer, the larvae feed on Marram and other grasses. The species was found to be especially numerous in a garden in Hamworthy. Arne Moors (1,1) Ballard (12,32) Corfe Castle (5,20) Carey Estate (3,4) Hamworthy (24,149). Recorded in 22 x 1km squares on Living Record 2000-2019.



Fig. 50 L-album Wainscot

1666 Large Emerald *Geometra papilionaria* – Uncommon and fairly widespread resident, the larvae feed on Birches, Hazel and Alder. Corfe River Meadow (1,1) Arne Moors (2,3) Holton Lee (1,1) Sandford Gardens (1,1) Sleppe Heath (1,1) Canford Heath (1,1) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (5,6). Recorded in 25 x 1km squares on Living Record 2000-2019.

2375 Large Wainscot *Rhizodra lutosa* (S41) – Common and thinly distributed or restricted resident, the larvae feed on Common Reed. Arne Moors (3,4) Corfe Castle (1,1) Goathorn (2,8) Holton Lee (4,6) Canford Heath (1,1) Carey Estate (1,1). Recorded in 16 x 1km squares on Living Record 2000-2019.

2107 Large Yellow Underwing *Noctua pronuba* – An abundant and widespread resident. The larvae feed on herbaceous plants and grasses. Recorded by MoPH at 18 locations, occasionally in very high numbers (e.g 2,251 individuals counted from 4 traps at Ballard Down on 25th June 2019 and 978 from 4 traps at the same site on 1st July 2019). At most sites regularly visited, the moth was found on multiple occasions. For instance, recorded on 23 of the 27 visits made to Ballard Down and on 31 out of 42 visits to Holton Lee, though the maximum recorded there on any night was 78 individuals. Arne Moors (17, 873) Ballard Down (33, 3,868) Carey Estate (38, 851) Corfe River Meadow (1,7) Corfe Castle (8,188) Goathorn (16,210) Hamworthy (19,237) Holton Lee (31,280) Holton Heath (1,2) Sandford Gardens (2,10) Slepe Heath (13,756) Canford Heath (9,101) Hartland Moor (7,739) Upton Heath (1,1) Longfleet School (1,5) Wareham Forest (1,266). Recorded in 72 x 1km squares on Living Record 2000-2019.

1219 Lathronympha strigana – Uncommon and thinly distributed or restricted resident, the larvae feed on St. John's-wort. Ballard (4,4) Ham Common (1,6). Recorded in 6 x 1km squares on Living Record 2000-2019.

2078 Least Black Arches *Nola confusalis* – Fairly common and thinly distributed resident, the larvae feed on Lime, Oak, various broadleaved trees. Ballard (3,4) Holton Lee (2,2). Recorded in 13 x 1km squares on Living Record 2000-2019.

2112 Least Yellow Underwing *Noctua interjecta* – Fairly common and thinly distributed resident, the larvae feed on herbaceous plants. Arne Moors (4,4) Ballard (3,4) Goathorn (1,2) Holton Lee (2,2) Slepe Heath (5,6) Canford Heath (1,2) Round Island (1,1) Carey Estate (4,9) Wareham Forest (1,1) Ham Common (1,2). Recorded in 25 x 1km squares on Living Record 2000-2019.



161 Leopard Moth *Zeuzera pyrina* – Uncommon and fairly widespread resident, the larvae feed on many woody plants and deciduous trees. Arne Moors (1,1) Holton Lee (2,2) Carey Estate (5,10). Recorded in 10 x 1km squares on Living Record 2000-2019.

Fig. 51 Leopard Moth

2111 Lesser Broad-bordered Yellow Underwing *Noctua janthe* – Abundant and widespread resident, the larvae feed on herbaceous plants. Arne Moors (5,16) Ballard (6,9) Goathorn (4,5) Holton Lee (9,25) Slepe Heath (6,18) Canford Heath (6,14) Round Island (1,2) Carey Estate (18,93) Longfleet School (1,2) Wareham Forest (1,2) Ham Common (1,3) Hamworthy (16,63). Recorded in 39 x 1km squares on Living Record 2000-2019.

1692 Lesser Cream Wave *Scopula immutata* – Rare and very local resident, the larvae feed on Meadowsweet, Common Valerian. Corfe River Meadow (1,4) Arne Moors (2,3) Holton Lee (1,1) Slepe Heath (2,2) Carey Estate (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2006 Lesser Swallow Prominent *Pheosia gnoma* – Fairly common but restricted resident, the larvae feed on Birch. Corfe River Meadow (1,2) Arne Moors (17,43) Corfe Castle (1,1) Goathorn (7,15) Holton Lee (6,9) Sandford Gardens (2,4) Slepe Heath (8,12) Canford Heath (2,4) Round Island (1,2) Hartland Moor (3,4) Stoborough Heath (2,2) Godlingstone Heath (1,1) Grange Heath (1,3) Creech Heath (2,7) Carey Estate (24,60) Ham Common (1,1) Hamworthy (2,2). Recorded in 38 x 1km squares on Living Record 2000-2019.

2109 Lesser Yellow Underwing *Noctua comes* – Abundant and widespread resident, the larvae feed on herbaceous plants. Corfe River Meadow (1,2) Arne Moors (7,27) Ballard (8,16) Corfe Castle (4,23) Goathorn (4,12) Holton Lee (8,8) Holton Heath (1,1) Slepe Heath (8,11) Canford Heath (5,8) Carey Estate (14,28) Wareham Forest (1,4) Sandford Gardens (1,1) Ham Common (1,1) Hamworthy (24,81). Recorded in 50 x 1km squares on Living Record 2000-2019.

2322 Light Arches *Apamea lithoxylaea* – Common and fairly widespread resident, the larvae feed on grasses. Arne Moors (1,6) Ballard (5,24) Carey Estate (6,11) Longfleet School (1,1) Hamworthy (1,2). Recorded in 14 x 1km squares on Living Record 2000-2019.

2157 Light Brocade *Lacanobia w-latinum* – Common, the larvae feed on herbaceous and woody plants. Arne Moors (5,18) Ballard (2,2) Corfe Castle (3,14) Goathorn (4,11) Slepe Heath (1,2) Hartland Moor (1,1) Grange Heath (1,1) Carey Estate (11,38) Hamworthy (2,3). Recorded in 26 x 1km squares on Living Record 2000-2019.

1961 Light Emerald *Campaea margaritata* – Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. Arne Moors (7,28) Ballard (6,7) Corfe Castle (7,28) Goathorn (2,8) Holton Lee (12,25) Carey Estate (16,33) Hamworthy (12,22). Recorded in 38 x 1km squares on Living Record 2000-2019.

1910 Lilac Beauty *Apeira syringaria* – Uncommon and thinly distributed resident, the larvae feed on Honeysuckle, Ash and Wild Privet. Corfe Castle one on 15th September 2017, Holton Lee one on 15th June 2018, the only records. Corfe Castle (1,1) Holton Lee (1,1). Recorded in 7x 1km squares on Living Record 2000-2019.

1979 Lime Hawk-moth *Mimas tiliae* – Uncommon and fairly widespread resident, the larvae feed on Limes, Elms, Birches and Alder. Corfe Castle one on 2nd June 2018, Carey Estate one on 25th June 2020, Hamworthy one on 2nd June 2020. Corfe Castle (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.



Fig. 52 Lime Hawk

1825 Lime-speck Pug *Eupithecia centaureata* – Common and fairly widespread resident, the larvae feed on many plants. Arne Moors (1,1) Ballard (1,1) Goathorn (1,1) Holton Lee (3,4) Sandford Gardens (1,2) Slepe Heath (1,1) Carey Estate (2,5) Hamworthy (7,17). Recorded in 22 x 1km squares on Living Record 2000-2019.



898 Limnaecia phragmitella – Scarce and thinly distributed or restricted resident, the larvae feed on Reedmace. Arne Moors 3 on 31st July 2019, Holton Lee 2 on 8th July 2018. Arne Moors (1,3) Holton Lee (1,2). Recorded in 9 x 1km squares on Living Record 2000-2019.

Fig. 53 Limnaecia phragmitella ©Chris Fox

1674 Little Emerald *Jodis lactearia* – A scarce and local resident, the larvae feed on Birches, Hazel, Hawthorn, Blackthorn. Goathorn one on 28th June 2018 the sole record. Goathorn (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1108 *Lobesia abscisana* – Uncommon and thinly distributed resident, the larvae feed on Creeping Thistle. Arne Moors (2,2) Ballard (2,3) Holton Lee (2,2) Hamworthy (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

1109 *Lobesia littoralis* – Scarce and thinly distributed resident, the larvae feed on Thrift, Bird's-foot Trefoil. Hamworthy one on 11th September 2019, confirmed by Dr Phil Sterling. Hamworthy (1,1). Apparently, the only record for Poole Harbour this century.

1106 *Lobesia reliquana* – Scarce and thinly distributed or restricted resident, the larvae feed on Oak, Birch and Blackthorn. Carey Estate one on 29th May 2019, the sole record. Carey Estate (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1999 Lobster Moth *Stauropus fagi* – Fairly common and widespread resident, the larvae feed on Birch, Alder, Oak and Beech. Arne Moors (4,5) Ballard (1,1) Goathorn (1,2) Holton Lee (1,1) Canford Heath (1,1) Carey Estate (6,7) Wareham Forest (1,1). Recorded in 22 x 1km squares on Living Record 2000-2019.



Fig. 54 Lobster Moth

1002 *Lozotaenia forsterana* – Uncommon and thinly distributed resident, the larvae feed on various trees and shrubs, especially Ivy. Ballard one on 17th June 2019 the sole record. Ballard (1,1). AG also recorded (and photographed) two individuals in Southbourne (outside project area) on 7th June 2020 attracted to window light. Recorded in 6 x 1km squares on Living Record 2000-2019.

1001 *Lozotaeniodes formosana* – Uncommon and thinly distributed or restricted resident, the larvae feed on Scots Pine. Arne Moors (1,1) Goathorn (1,1) Holton Lee (4,5) Canford Heath (1,2) Carey Estate (3,4) Upton Heath (1,1) Wareham Forest (1,3) Hamworthy (1,1). Recorded in 17 x 1km squares on Living Record 2000-2019.

2015 Lunar Marbled Brown *Drymonia ruficornis* – Fairly common and thinly distributed resident, the larvae feed on Oaks. Goathorn (1,1) Slepe Heath (1,1) Grange Heath (1,1) Creech Heath (2,5) Carey Estate (1,9) Stoborough Heath (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

2270 Lunar Underwing *Omphaloscelis lunosa* – Very common and fairly widespread resident, the larvae feed on grasses. Arne Moors (3,14) Ballard (6,37) Corfe Castle (5,14) Goathorn (3,9) Holton Lee (5,16) Slepe Heath (2,5) Carey Estate (10,74) Hamworthy (15,75). Recorded in 34 x 1km squares on Living Record 2000-2019.

2319 Lunar-spotted Pinion *Cosmia pyralina* – Uncommon and restricted resident, the larvae feed on Blackthorn, Hawthorn, Apple, Elms. Ballard one on 23rd July 2018, Goathorn one on 5th July 2018 the only records. Ballard (1,1) Goathorn (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

2173 *Lychnis Hadena bicruris* – Fairly common and widespread resident, the larvae feed on Red, White and Sea Campion. Arne Moors (1,1) Carey Estate (2,2) Hamworthy (4,5). Recorded in 12 x 1km squares on Living Record 2000-2019.



263 *Lyonetia clerkella* (Apple Leaf Miner) – Fairly common but restricted resident, the larvae feed on fruit trees, especially Apples, also Hawthorn. Carey Estate (2,2) Hamworthy (11,32). Also recorded as leaf-mine on apple at Hamworthy. Recorded in 24 x 1km squares on Living Record 2000-2019.

Fig. 55 *Lyonetia clerkella* mine on Apple

1884 Magpie Moth *Abraxas grossulariata* – Common and widespread resident, the larvae feed on Blackthorn, Hawthorn, Privet, Red and Black Currant. Ballard (1,2) Carey Estate (2,2). Recorded in 16 x 1km squares on Living Record 2000-2019.

1680 Maiden's Blush *Cyclophora punctaria* – Rare and very local resident, the larvae feed on Oaks. Arne Moors (1,1) Sandford Gardens (1,4) Round Island (1,4) Carey Estate (14,30) Ham Common (1,1) Hamworthy (7,10). Recorded in 29 x 1km squares on Living Record 2000-2019.

2293 Marbled Beauty *Cryphia domestica* – Fairly common and thinly distributed resident. Larvae feed on lichens. Holton Lee one on 22nd July 2018, the sole record. Holton Lee (1,1). Recorded in 19 x 1km squares on Living Record 2000-2019.



Fig. 56 Marbled Beauty

2014 Marbled Brown *Drymonia dodonaea* – Fairly common and thinly distributed resident, the larvae feed on Oaks. Goathorn (2,7) Holton Lee (1,2). Recorded in 13 x 1km squares on Living Record 2000-2019.

2295 Marbled Green *Cryphia muralis* – Uncommon and thinly distributed resident, the larvae feed on lichens. Arne Moors one on 11th August 2020 the sole record. Arne Moors (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

2337 Marbled Minor *Oligia strigilis* (aggregate species) – The Dorset status is considered unknown as the majority are undetermined, requiring dissection. The following are all records of aggregate species: Arne Moors (7,12) Ballard (10,81) Corfe Castle (2,9) Sandford Gardens (1,1) Hartland Moor (1,1) Carey Estate (18,75) Hamworthy (10,30). Recorded as aggregate species in 29 x 1km squares on Living Record 2000-2019.

2410 Marbled White Spot *Deltote pygarga* – Uncommon and local resident, the larvae feed on grasses. Corfe River Meadow (1,5) Arne Moors (6,31) Ballard (3,6) Corfe Castle (1,1) Goathorn (3,13) Holton Lee (7,34) Sandford Gardens (2,2) Sleppe Heath (4,5) Canford Heath (2,4) Hartland Moor (1,1) Carey Estate (13,22) Upton Heath (1,6) Wareham Forest (1,11) Ham Common (1,1) Hamworthy (1,1). Recorded in 39 x 1km squares on Living Record 2000-2019.



2485 Marsh Oblique-barred *Hyphenodes humidalis* (Nb) – A scarce and restricted resident, the larvae are thought to feed on sedges and rushes. Arne Moors 2 on 24th July 2019, Slepe Heath one on 28th August 2017 the only records. However, this is a very easy species to overlook. Arne Moors (1,2) Slepe Heath (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

Fig. 57 Marsh Oblique-barred in tube

1451 Matilella fusca – Scarce and thinly distributed or restricted resident, the larvae feed on Heather and Bilberry. Goathorn one on 26th July 2018 the sole record. Goathorn (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1778 May Highflyer *Hydriomena impluviata* – Fairly common and thinly distributed resident, the larvae feed on Alder. Ballard (2,2) Corfe Castle (2,3) Carey Estate (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

2247 Merveille du Jour *Dichonia aprilina* – Fairly common and widespread resident, the larvae feed on Oaks. Ballard (1,1) Goathorn (1,3) Holton Lee (1,2) Carey Estate (5,11) Hamworthy (3,4). Recorded in 18 x 1km squares on Living Record 2000-2019.

642a Metalampra italica – Recent colonist and possible breeding resident, the larvae feed on decaying wood, beneath the bark. Hamworthy one on 15th August 2020, confirmed by Dr Phil Sterling. Hamworthy (1,1). Recorded in 1 x 1km square on Living Record 2000-2019.



Fig. 58 Metalampra italica in tube

724 Metzneria lappella – Scarce and thinly distributed resident, the larvae feed on Greater Burdock. Ballard singles on 9th July 2018 and 8th July 2019. Ballard (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

4 Micropteryx aruncella – Scarce and thinly distributed or restricted resident, the larvae feed on liverworts, detritus. Ballard one on 28th May 2018, confirmed by Dr Phil Sterling. Ballard (1,1). Apparently, the only Poole Harbour record this century.

2340 Middle-barred Minor *Oligia fasciuncula* – Very common and widespread resident, the larvae feed on grasses. Arne Moors (4,16) Ballard (5,49) Corfe Castle (2,4) Goathorn (2,2) Holton Lee (2,2) Carey Estate (2,2). Recorded in 19 x 1km squares on Living Record 2000-2019.

2280 Miller *Acronicta leporina* – Uncommon and thinly distributed resident, the larvae feed on Birches and Alder. Arne Moors (5,5) Ballard (1,1) Slepe Heath (1,1) Canford Heath (1,2) Carey Estate (5,8) Upton Heath (1,1). Recorded in 31 x 1km squares on Living Record 2000-2019.

2225 Minor Shoulder-knot *Brachylomia viminalis* (S41) – Fairly common but thinly distributed and restricted resident, the larvae feed on Grey and other Willows. Sandford Gardens one on 21st July 2018, the sole record. Sandford Gardens (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

792 Mirificarma mulinella – Scarce and thinly distributed resident, the larvae feed on Gorse and Broom. Arne Moors (3,9) Ballard (1,1) Goathorn (2,6) Holton Lee (3,3) Slepe Heath (1,1) Round Island (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.



1676 Mocha *Cyclophora annularia* (Nb) – Uncommon and restricted resident, the larvae feed on Field Maple. Goathorn one on 5th September 2018, Holton Lee one on 22nd July 2018 the only records. Goathorn (1,1) Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 59 Mocha

888 Mompha propinquella – Scarce and thinly distributed resident, the larvae feed on Willowherb species. Sandford Gardens one on 21st July 2017. Carey Estate one on 18th August 2019. Sandford Gardens (1,1) Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

892 Mompha subbistrigella – Scarce and thinly distributed or restricted resident, the larvae feed on Broad-leaved Willowherb, sometimes other Willowherb species. Hamworthy one on 21st June 2020, the sole record. Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

728 Monochroa cytisella – Scarce and thinly distributed resident, the larvae feed on Bracken. Arne Moors (1,1) Ballard (1,1) Goathorn (3,44) Holton Lee (3,16) Slepe Heath (2,3) Carey Estate (3,9). Recorded in 8 x 1km squares on Living Record 2000-2019.

736 Monochroa lucidella – A rare and restricted resident, the larvae feed on Common Spike-rush. Arne Moors one on 3rd July 2018, confirmed by Dr Phil Sterling. This apparently constitutes the only record for Poole Harbour this century. Arne Moors (1,1).

742 Monochroa lutulentella (Nb) – Very rare resident, the larval foodplant is Meadowsweet. Corfe River Meadow one on 7th July 2020, confirmed as a male, by Dr Phil Sterling. The foodplant is common on the site. This is the first Poole Harbour record this century, with only one previous record from VC9 (from Portland Bird Observatory) and coincides with its discovery on the Moors River SSSI close to Bournemouth airport also in 2020. (P. Sterling pers. comm.). Corfe River Meadow (1,1).

737 Monochroa palustrellus (Nb) – Very rare resident, the larvae feed on Dock and Curled Dock. Arne Moors one on 3rd July 2018, confirmed by Dr Phil Sterling. Apparently the first record for Poole Harbour and possibly the first established colony known in Dorset. Arne Moors (1,1).

227 Monopis laevigella (Skin Moth) – Scarce and thinly distributed resident the larvae feed on dead or decaying animal matter, bird's nests, detritus. Ballard (1,3), Slepe Heath (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

228 Monopis weaverella – Uncommon and thinly distributed resident, the larvae feed on dead and decaying animal matter, faeces. Arne Moors (3,3) Ballard (6,11) Carey Estate (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1941 Mottled Beauty *Alcis repandata* – Very common and widespread resident, the larvae feed on woody plants. Ballard (1,1) Hartland Moor (3,6) Carey Estate (7,9). Recorded in 23 x 1km squares on Living Record 2000-2019.

1819 Mottled Pug *Eupithecia exiguata* – Fairly common and fairly widespread resident, the larvae feed on Hawthorn, Blackthorn, Dogwood. Arne Moors (1,1) Ballard (1,2) Goathorn (1,1) Holton Lee (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

2387 Mottled Rustic *Caradrina morpheus (S41)* – Abundant and fairly widespread resident, the larvae feed on herbaceous plants. Arne Moors (5,8) Ballard (5,5) Corfe Castle (1,1) Holton Lee (2,4) Hartland Moor (3,6) Sandford Gardens (1,10) Carey Estate (4,9) Longfleet School (1,1) Hamworthy (3,5). Recorded in 29 x 1km squares on Living Record 2000-2019.



1935 Mottled Umber *Erannis defoliaria* – Uncommon and thinly distributed resident, the larvae feed on broadleaved trees. Hamworthy one on 10th November 2020 the sole record. Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 60 Mottled Umber

2299 Mouse Moth *Amphipyra tragopoginis* (**S41**) – Fairly common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (1,2) Goathorn (1,1) Holton Lee (2,2) Slepe (2,2). Recorded in 13 x 1km squares on Living Record 2000-2019.

2221 Mullein *Cucullia verbasci* – Scarce and thinly distributed or restricted resident, the larvae feed on Mulleins, Figworts and Buddleias. Slepe Heath one on 8th April 2019, Carey Estate singles on 3rd and 13th May 2019. Slepe Heath (1,1) Carey Estate (2,2). Recorded in 16 x 1km squares on Living Record 2000-2019.

1689 Mullein Wave *Scopula marginepunctata* – Local, the larvae feed on herbaceous plants. Ballard (1,2) Corfe Castle (2,3) Holton Lee (2,3) Sandford Gardens (1,1) Carey Estate (2,2) Stoborough Heath (1,1). Recorded in 18 x 1km squares on Living Record 2000-2019.

2063 Muslin Moth *Diaphora mendica* – Fairly common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (5,9) Ballard (1,1) Corfe Castle (2,2) Goathorn (4,10) Holton Lee (2,5) Slepe Heath (2,4) Hartland Moor (1,1) Carey Estate (5,24) Creech Heath (1,3) Stoborough Heath (1,1). Recorded in 30 x 1km squares on Living Record 2000-2019.

1458 Myelois circumvoluta (Thistle Ermine) – Common and widespread resident, the larvae feed on Thistle species. Arne Moors (4,4) Ballard (3,3) Carey Estate (6,7). Recorded in 12 x 1km squares on Living Record 2000-2019.



Fig. 61 Thistle Ermine

1846 Narrow-winged Pug *Eupithecia nanata* – Uncommon and restricted resident, larvae feed on Heather. Arne Moors (3,26) Ballard (1,2) Goathorn (4,4) Holton Lee (1,1) Slepe Heath (13,68) Canford Heath (9,69) Hartland Moor (1,2) Round Island (1,1) Grange Heath (1,8) Godlingstone Heath (2,25) Stoborough Heath (1,3) Carey Estate (3,2) Upton Heath (1,1) Hamworthy (2,2). Recorded in 40 x 1km squares on Living Record 2000-2019.

2132 Neglected Rustic *Xestia castanea* (**S41**) – Scarce and restricted resident, the larvae feed on Heathers. Corfe Castle (1,1) Goathorn (4,6) Holton Lee (4,5) Carey Estate (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

143 Nematopogon metaxella – Uncommon and thinly distributed resident, the larvae feed on leaf-litter. Carey Estate one on 5th June 2020, the sole record. Carey Estate (1,1). Recorded in 1 x 1km square on Living Record 2000-2019.

140 Nematopogon swammerdamella – Uncommon and thinly distributed resident, the larvae feed on leaf-litter. Ballard (1,1) Corfe Castle (1,1) Holton Lee (1,1) Carey Estate (5,6). Recorded in 13 x 1km squares on Living Record 2000-2019.

148 Nemophora degeerella – Fairly common and widespread resident, the larvae feed on leaf-litter. Ballard one on 4th June 2018 the only record. Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

797 *Neofaculta ericetella* – Uncommon and thinly distributed and restricted resident, the larvae feed on Heathers. Arne Moors (2,2) Goathorn (3,28) Slepe Heath (1,3) Hartland Moor (1,1) Grange Heath (1,5) Creech Heath (1,1) Carey Estate (1,2). Recorded in 14 x 1km squares on Living Record 2000-2019.



1465 *Nephopterix angustella* – Uncommon and thinly distributed or restricted resident, the larvae feed on berries of Spindle. Ballard one on 3rd September 2018. The larval foodplant is present on the site. Ballard (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 62 *Nephopterix angustella*

1398 *Nomophila noctuella* (Rush Veneer) – Abundant and widespread migrant, the larvae feed on clover and grasses, though the species is not thought to breed in the UK. Arne Moors (1,1) Ballard (4,10) Corfe Castle (2,2) Goathorn (3,3) Holton Lee (2,2) Slepe Heath (2,4) Canford Heath (1,3) Hartland Moor (1,1) Carey Estate (1,1) Hamworthy (2,2). Recorded in 28 x 1km squares on Living Record 2000-2019.

1174 *Notocelia cynosbatella* – Fairly common and widely distributed resident, the larvae feed on Wild and cultivated Rose. Slepe Heath one on 30th May 2019, Carey Estate one on 21st May 2020 recorded by Joe Parker. Slepe Heath (1,1) Carey Estate (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1177 *Notocelia rosaecolana* – Uncommon and thinly distributed resident, the larvae feed on Wild and cultivated Rose. Ballard singles on 28th May and 4th June 2018, confirmed by Dr Phil Sterling. Ballard (2,2). Recorded in 5 x 1km squares on Living Record 2000-2019.

1176 *Notocelia trimaculana* – Uncommon and thinly distributed resident, the larvae feed on Hawthorn. Ballard 13 on 11th June 2018 and one on 17th June 2019, the sole records. Ballard (2,14). Recorded in 5 x 1km squares on Living Record 2000-2019.

1175 *Notocelia uddmanniana* (Bramble Shoot Moth) – Common and widespread resident, the larvae feed on wild and cultivated Rose. Arne Moors (2,2) Ballard (7,18) Goathorn (2,2) Holton Lee (2,3) Sandford Gardens (1,1) Slepe Heath (1,1) Canford Heath (1,1) Hartland Moor (2,2) Carey Estate (8,14) Upton Heath (2,2) Longfleet School (1,1) Hamworthy (1,1). Recorded in 32 x 1km squares on Living Record 2000-2019.

1795 November Moth *Epirrita dilutata* aggregate – Three species, November Moth, Pale November Moth and Autumnal Moth are treated as aggregates in the absence of genital dissection. The status of the species in Dorset is unknown for this reason. The aggregate species has been recorded as follows: Carey Estate (2,6) Hamworthy (3,3). Recorded as aggregates in 15 x 1km squares on Living Record 2000-2019.

2145 Nutmeg *Discestra trifolii* – Fairly common and thinly distributed or restricted resident, the larvae feed on herbaceous plants and Goosefoots. Arne Moors (2,3) Ballard (7,16) Goathorn (1,1) Holton Lee (1,1) Carey Estate (2,2) Hamworthy (5,10). Recorded in 10 x 1km squares on Living Record 2000-2019.

2425 Nut-tree Tussock *Colocasia coryli* – Fairly common and widespread resident, the larvae feed on Hazel, Birches, Beech, Oaks, other trees. Arne Moors (2,2) Ballard (2,3) Goathorn (2,3) Holton Lee (2,5) Sandford Gardens (2,6) Slepe Heath (3,6) Canford Heath (2,4) Hartland Moor (1,1) Creech Heath (2,2) Carey Estate (10,26) Longfleet School (1,3). Recorded in 34 x 1km squares on Living Record 2000-2019.

1350 *Nymphula nitidulata* (Beautiful China-mark) – Uncommon and thinly distributed or restricted resident, larvae feed on Bur-reed, Yellow water-lily and other aquatic plants. Arne Moors (5,5) Slepe Heath (1,1) Carey Estate (17,210) Ham Common (1,1) Sandford Gardens (1,1) Hamworthy (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1930 Oak Beauty *Biston strataria* – Uncommon and thinly distributed resident, the larvae feed on broadleaved trees. Slepe (2,2) Carey Estate (1,7). Recorded in 16 x 1km squares on Living Record 2000-2019.

1637 Oak Eggar *Lasiocampa quercus* – Fairly common and thinly distributed resident, the larvae feed on Heathers, Bilberry, Bramble and other woody plants. Ballard (1,1) Holton Lee (1,1) Canford Heath (1,1) Carey Estate (3,3) Wareham Forest (1,1) Hamworthy (2,2). Recorded in 16 x 1km squares on Living Record 2000-2019.

1646 Oak Hook-tip *Watsonalla binaria* (**S41**) – Fairly common and widespread resident, the larvae feed on Oaks. Arne Moors (7,10) Ballard (4,5) Corfe Castle (1,1) Goathorn (4,8) Holton Lee (9,18) Slepe Heath (1,3) Carey Estate (5,6) Hamworthy (3,4). Recorded in 27 x 1km squares on Living Record 2000-2019.



Fig. 63 Oak Hook-tip

2423 Oak Nycteoline *Nycteola revayana* – Uncommon and thinly distributed resident, the larvae feed on Oaks. Goathorn (2,2) Slepe (2,2). Recorded in 10 x 1km squares on Living Record 2000-2019.



2022 Oak Processionary Moth *Thaumetopoea processionea* – Uncommon migrant. Recorded twice in 2020 during a notable influx from the continent consisting of male moths (P. Sterling pers. comm.). Not yet known to breed in Dorset. Carey Estate one on 26th August 2020, Hamworthy one on 31st July 2020. Carey Estate (1,1) Hamworthy (1,1). Potentially the first records for Poole Harbour. AG also trapped one male on 7th August 2020 in Fleet, Hampshire. The larvae of Oak Processionary are considered to be a significant pest species due to their venomous setae (hairs) being both a skin and lung irritant. They also cause significant damage to their host plant – Oak. The larvae are a notifiable pest and should be reported to Forest Research using this link:

[Oak processionary moth \(Thaumetopoea processionea\) - Forest Research](#)

Fig. 64 Oak Processionary Moth

1853 Oak-tree Pug *Eupithecia dodoneata* – Uncommon and thinly distributed resident, the larvae feed on Hawthorn and Oak. Carey Estate one on 21st May 2020 (Joe Parker), the sole record. Carey Estate (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1719 Oblique Carpet *Orthonama vittata* (**S41**) – Scarce and local resident, the larvae feed on Marsh and Heath Bedstraw. Arne Moors (14,53) Holton Lee (4,5). Recorded in 7 x 1km squares on Living Record 2000-2019.

2204 Obscure Wainscot *Leucania obsoleta* – Scarce and local resident, the larvae feed on Common Reed. Arne Moors one on 3rd June 2019, Holton Lee 4 on 8th June 2018 and 1 on 22nd June 2018. John Winterbottom recorded one on Slepe Heath on 7th June 2018. Arne Moors (1,1) Holton Lee (2,5) Slepe Heath (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1844 Ochreous Pug *Eupithecia indigata* – Scarce and restricted resident, the larvae feed on Scots Pine, Lodgepole Pine and Larch. Arne Moors one on 28th May 2019, Goathorn one on 7th June 2018, Holton Lee one on 13th May 2018. Arne Moors (1,1) Goathorn (1,1) Holton Lee (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

870 Oegoconia quadripuncta – Uncommon and thinly distributed resident, the larvae feed on leaf-litter. Three *Oegoconia* species are frequently treated as aggregates in the absence of genitalia dissection. A single male was identified by Dr Phil Sterling from Holton Heath on 16th July 2018. Holton Heath (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

2300 Old Lady *Mormo mora* – Scarce and thinly distributed or restricted resident, the larvae feed on herbaceous and woody plants. Hamworthy, 2 on 11th September 2020 is, perhaps surprisingly, the only record. Hamworthy (1,2). Recorded in 12 x 1km squares on Living Record 2000-2019.

1441 Oncocera semirubella (Nb) – Uncommon and thinly distributed and restricted resident, the larvae feed on Bird's-foot Trefoil and Clover species. Arne Moors (1,1) Ballard (1,1) Corfe Castle (1,2) Sandford Gardens (1,1) Slepe Heath (1,1) Carey Estate (1,1) Ham Common (1,1) Hamworthy (5,24). Recorded in 18 x 1km squares on Living Record 2000-2019.

2043 Orange Footman *Eilema sororcula* – Fairly common and widespread resident, the larvae feed on lichen. Arne Moors (1,2) Ballard (1,1) Corfe Castle (3,14) Goathorn (1,7) Holton Lee (1,1) Slepe (1,1) Carey Estate (13,98). Recorded in 24 x 1km squares on Living Record 2000-2019.

15 Orange Swift *Hepialus sylvina* – Common and widespread resident, the larvae feed on herbaceous plants. Ballard (6,22) Holton Lee (16,33) Carey Estate (2,2). Recorded in 20 x 1km squares on Living Record 2000-2019.

378 Orange-tailed Clearwing *Synanthedon andrenaeformis (Nb)* – A very scarce and restricted resident, the larvae feed on Wayfaring Tree and Guelder Rose. Carey Estate one lured to pheromone on 17th July 2020. This is probably the only record for the Poole Harbour area this century. Carey Estate (1,1).



Fig. 65 Orange-tailed Clearwing, Carey Estate 2020



470 Orthotelia sparganella – Rare and very local resident, the larvae feed on Branched Bur-reed and Reed Sweet-grass. Arne Moors singles on 3rd July 2018 and 11th August 2020. Arne Moors (2,2). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 66 Orthotelia sparganella

1375 Ostrinia nubilalis (European Corn-borer) – Recent colonist and migrant, the larvae feed on Mugwort. Arne Moors (2,3) Ballard (4,10) Corfe Castle (1,1) Holton Lee (1,1) Hartland (1,1) Carey Estate (3,3) Wareham Forest (1,2) Hamworthy (2,5). Recorded in 18 x 1km squares on Living Record 2000-2019.

2389 Pale Mottled Willow *Paradrina clavipalpis* – Common and fairly widespread resident, the larvae feed on grass seeds. Ballard (1,1) Corfe Castle (1,1) Hamworthy (6,6). Recorded in 14 x 1km squares on Living Record 2000-2019.

1944 Pale Oak Beauty *Hypomecis punctinalis* – Scarce and restricted resident, the larvae feed on Oak, Birch and other trees. Carey Estate one on 16th July 2020, the sole record. Carey Estate (1,1). Recorded in 1 x 1km square on Living Record 2000-2019.

2236 Pale Pinion *Lithophane socia* – Uncommon and local resident, the larvae feed on Oaks, Birches, Sallow, Hazel and other trees and shrubs. Ballard one on 21st May 2018, Slepe Heath one on 8th April 2019. Ballard (1,1) Slepe Heath (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

2011 Pale Prominent *Pterostoma palpina* – Common and widespread resident, the larvae feed on Aspen, Poplars and Willows. Arne Moors (6,6) Corfe Castle (2,4) Goathorn (3,5) Holton Heath (1,1) Slepe Heath (4,6) Carey Estate (15,18) Hamworthy (1,1). Recorded in 30 x 1km squares on Living Record 2000-2019.

2028 Pale Tussock *Calliteara pudibunda* – Fairly common and widespread resident, the larvae feed on broadleaved trees and shrubs. Arne Moors (4,5) Ballard (2,3) Corfe Castle (3,10) Goathorn (3,6) Holton Lee (4,7) Stoborough Heath (1,1) Carey Estate (10,37) Hamworthy (1,1). Recorded in 29 x 1km squares on Living Record 2000-2019.

2158 Pale-shouldered Brocade *Lacanobia thalassina* – Fairly common and widespread resident, the larvae feed on woody plants. Arne Moors (2,5) Corfe Castle (1,1) Sandford Gardens (1,1) Carey Estate (2,2). Recorded in 5 x 1km squares on Living Record 2000-2019.

1408 Palpita vitrealis – Fairly common and mainly coastal migrant, there is no evidence of breeding in the UK. Hamworthy one on 11th September 2019 the sole record. Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.



Fig. 67 *Palpita vitrealis*

1233 Pammene aurita – Scarce and local resident, the larvae feed on Sycamore. Carey Estate one on 14th September 2020 the sole record. Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1236 Pammene fasciana – Uncommon and thinly distributed resident, the larvae feed on Oak and Sweet Chestnut. Sandford Gardens one on 20th July 2019, Hamworthy one on 21st June 2020, both confirmed by Dr Phil Sterling. Sandford Gardens (1,1) Hamworthy (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

970 Pandemis cerasana (Barred Fruit-tree Tortrix) – Fairly common and widespread resident, the larvae feed on deciduous trees, especially fruit trees. Ballard (8,21) Corfe Castle (1,1) Holton Lee (4,5) Sandford Gardens (1,1) Carey Estate (3,3) Talbot Heath (1,1) Hamworthy (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.



971 Pandemis cinnamomeana – Uncommon and thinly distributed resident, the larvae feed on deciduous trees. Recorded only at Corfe Castle in 2017 and 2018. Corfe Castle (3,6). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 68 *Pandemis cinnamomeana* in tube

969 Pandemis corylana (Chequered Fruit-tree Tortrix) – Fairly common and widespread resident, the larvae feed on a wide range of deciduous trees and shrubs. Ballard (1,1) Goathorn (2,2) Slepe Heath (1,1) Carey Estate (5,8) Longfleet School (1,1). Recorded in 20 x 1km squares on Living Record 2000-2019.

1348 Paraponyx stratiotata (Ringed China-mark) – Uncommon and thinly distributed or restricted resident, the larvae feed on pondweeds and other aquatic plants. Arne Moors (6,20) Holton Lee (2,6) Sandford Gardens (2,7) Slepe Heath (2,12) Canford Heath (1,1) Carey Estate (6,17) Wareham Forest (1,1) Ham Common (1,3) Hamworthy (2,1). Recorded in 18 x 1km squares on Living Record 2000-2019.

440 Paraswammerdamia albicapitella – Uncommon and thinly distributed resident, the larvae feed on Blackthorn. Ballard one on 21st August 2018, confirmed by Dr Phil Sterling. Ballard (1,1). This is apparently the only record for Poole Harbour this century.

441 Paraswammerdamia nebulella – Scarce and thinly distributed resident, the larvae feed on Hawthorn and Rowan. Hamworthy one on 26th July 2020 the sole record. Hamworthy (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

- 303 *Parornix anglicella*** – Uncommon and thinly distributed resident, the larvae feed on Hawthorn. Slepe Heath one on 12th July 2018, verified by Dr Phil Sterling. Recorded as leaf-mine at Ballard, November 2020. Ballard (1, leaf-mine) Slepe Heath (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.
- 301 *Parornix betulae*** – Scarce and restricted resident, the larvae feed on Birch. Arne Moors, one on 11th August 2020, a female, verified by Dr Phil Sterling. Arne Moors (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.
- 304 *Parornix devoniella*** – Uncommon and thinly distributed resident, the larvae feed on Hazel. Leaf-mines found on the foodplant at Hamworthy 17th November 2020. Recorded in 9 x 1km squares on Living Record 2000-2019. Hamworthy (1, leaf-mine).
- 302 *Parornix fagivora*** – Very rare resident, the larvae feed on Beech. Recorded as a leaf-mine at Ballard November 2020. Ballard (1, leaf-mine). Recorded in 5 x 1km squares on Living Record 2000-2019.
- 309 *Parornix torquillella*** – An uncommon and local resident, the larvae feed on Blackthorn. Hamworthy one on 15th August 2020, a male, verified by Dr Phil Sterling. Hamworthy (1,1). Recorded in 1 other x 1km square on Living Record 2000-2019.
- 1652 Peach Blossom *Thyatira batis*** – Fairly common and widespread resident, the larvae feed on Bramble. Ballard (1,1) Holton Lee (1,1) Carey Estate (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.
- 1889 Peacock Moth *Macaria notata*** – Rare and very local resident, the larvae feed on Birch. Arne Moors (2,2) Ballard (1,1) Holton Lee (2,3) Slepe Heath (1,1) Carey Estate (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.
- 2119 Pearly Underswing *Peridroma saucia*** – Uncommon but widely distributed migrant / wanderer, the larvae feed on low growing plants, Dandelions etc. Ballard (1,2) Corfe Castle (1,1) Holton Lee (1,1) Hamworthy (2,2). Recorded in 8 x 1km squares on Living Record 2000-2019.
- 1648 Pebble Hook-tip *Drepana falcataria*** – Common and fairly widespread resident, the larvae feed on Birches. Arne (7,8) Holton Lee (3,3) Holton Heath (1,1) Sandford Gardens (1,2) Slepe Heath (3,7) Round Island (1,2) Carey Estate (10,22) Ham Common (1,1) Hamworthy (3,5). Recorded in 34 x 1km squares on Living Record 2000-2019.
- 2003 Pebble Prominent *Notodonta ziczac*** – Fairly common and widespread resident, the larvae feed on Sallow, Willow, Aspen and other Poplars. Arne Moors (13,19) Ballard (2,2) Corfe Castle (3,6) Goathorn (4,4) Holton Lee (7,7) Sandford Gardens (2,3) Slepe Heath (4,5) Canford Heath (2,2) Carey Estate (10,16) Stoborough Heath (1,1) Wareham Forest (1,1) Hamworthy (1,1). Recorded in 34 x 1km squares on Living Record 2000-2019.
- 1323 *Pediasia contaminella* (Nb)** – Uncommon and thinly distributed and restricted resident, the larvae feed on various grasses such as Sheep's Fescue. Arne Moors (7,31) Holton Lee (1,2) Canford Heath (3,5) Round Island (1,1) Carey Estate (10,74) Hamworthy (2,3). Recorded in 10 x 1km squares on Living Record 2000-2019.
- 1443 *Pempelia genistella* (Nb)** – Uncommon and thinly distributed and restricted resident, the larvae feed on Gorse. Arne Moors (4,6) Ballard (1,1) Goathorn (3,12) Holton Lee (3,3) Holton Heath (1,3) Sandford Gardens (2,3) Slepe Heath (3,21) Canford Heath (3,6) Hartland Moor (1,1) Wareham Forest (1,1) Ham Common (1,1). Recorded in 24 x 1km squares on Living Record 2000-2019.
- 1442 *Pempelia palumbella*** – Fairly common but thinly distributed or restricted resident, the larvae feed on Heather species. Corfe River Meadow (1,1) Arne Moors (7,16) Ballard (2,3) Goathorn (8,25) Holton Lee (4,6) Holton Heath (1,1) Sandford Gardens (1,3) Slepe Heath (1,2) Canford Heath (2,7) Hartland Moor (1,1) Talbot Heath (1,1) Carey Estate (4,6) Upton Heath (1,6). Recorded in 37 x 1km squares on Living Record 2000-2019.
- 1931 Peppered Moth *Biston betularia*** – Very common and widespread resident, the larvae feed on many small plants, trees and shrubs. Corfe River Meadow (1,1) Arne Moors (8,12) Corfe Castle (3,9) Goathorn (2,2) Holton Lee (2,2) Holton Heath (1,1) Sandford Gardens (1,2) Slepe Heath (2,3) Hartland Moor (4,4) Talbot Heath (1,2) Carey Estate (20,63) Upton Heath (1,2) Hamworthy (3,4). Recorded in 39 x 1km squares on Living Record 2000-2019.

932 *Phalonidia affinitana* – Very rare resident, the larvae feed on Sea Aster. Recorded on the salt-marsh at Round Island on 12th August 2018. One at Hamworthy on 28th June 2020, both confirmed by Dr Phil Sterling. Round Island (1,1) Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

921 *Phtheochroa inopiana* – Uncommon and thinly distributed resident, the larvae feed on Common Fleabane. Carey Estate one on 25th June 2020 the sole record. Carey Estate (1,1). Recorded in one other 1km square on Living Record this century, and at Arne in 2019.



Fig. 69 *Phtheochroa inopiana*

1452 *Phycita roborella* – Common and widespread resident, the larvae feed on Oak. Carey Estate (6,6) Hamworthy (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.



1483 *Phycitodes binaevella* – Uncommon and thinly distributed resident, the larvae feed on Spear Thistle. Arne Moors one on 23rd June 2020, Carey Estate one on 2nd June 2020. Arne Moors (1,1) Carey Estate (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 70 *Phycitodes binaevella*

1485 *Phycitodes maritima* – Uncommon and thinly distributed or restricted resident, the larvae feed on Yarrow and Ragwort. Carey Estate one on 25th June 2020, a male, confirmed by Dr Phil Sterling, Hamworthy one on 21st June 2020, a male, confirmed by Dr Phil Sterling. Carey Estate (1,1) Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

1484 *Phycitodes saxicola* – Scarce and thinly distributed and restricted resident, the larvae feed on Ragwort and Chamomile. Holton Lee singles on 8th July 2018 and 31st August 2018 (a male, confirmed by Dr Phil Sterling), Hamworthy one on 31st July 2020, a male, confirmed by Dr Phil Sterling. Holton Lee (2,2) Hamworthy (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

326 *Phyllonorycter blancardella* – Common and thinly distributed and restricted resident, the larvae feed on Apple. Hamworthy one on 20th September 2020, a male, confirmed by Dr Phil Sterling. The sole record, Hamworthy (1,1). Recorded in 1 other x 1km square on Living Record 2000-2019.

342 *Phyllonorycter coryli* (Nut Leaf Blister Moth) – Very common and widespread resident, the larvae feed on Hazel. Carey Estate, recorded as leaf-mine on Hazel, 6th November 2020. Hamworthy, recorded as leaf-mine on Hazel 17th November 2020. Arne Car Park recorded as leaf-mine on 22nd November 2020. Arne (1, leaf-mine), Carey Estate (1, leaf-mine), Hamworthy (1, leaf-mine). Recorded in 11 x 1km squares on Living Record 2000-2019.

364 *Phyllonorycter geniculella* – Very scarce and restricted resident, the larvae feed on Sycamore. Carey Estate, recorded as leaf-mine on Sycamore, 6th November 2020. Carey Estate (1, leaf-mine). Recorded in 6 x 1km squares on Living Record 2000-2019.

363 *Phyllonorycter joannis* – Very rare resident, the larvae feed on Norway Maple. Carey Estate found as leaf-mine on the foodplant on 6th November 2020. Carey Estate (1, leaf-mine). Recorded in 5 x 1km squares on Living Record 2000-2019.

332a *Phyllonorycter leucographella* (Firethorn Leaf Miner) – Scarce and thinly distributed and restricted naturalised resident, the larvae feed on various rosaceous plants but especially *Pyracantha*. Hamworthy found as leaf mine on the foodplant, 17th November 2020. Hamworthy (1, leaf-mine). Recorded in 7 x 1km squares on Living Record 2000-2019.

321 *Phyllonorycter messaniella* – Fairly common and local resident, the larvae feed on Oak, Beech and Sweet Chestnut. Arne Moors (1,1) Ballard (1,2) and as leaf-mine on Beech, Holton Lee (2,2) Holton Heath (1,1) Carey Estate (1, leaf-mine), Hamworthy (2,2). Recorded in 29 x 1km squares on Living Record 2000-2019.

359 *Phyllonorycter nicelli* – Uncommon and thinly distributed resident, the larvae feed on Hazel. Carey Estate, recorded as leaf-mine on foodplant on 6th November 2020. Ballard, leaf-mine on Hazel 11th November 2020. Arne Car Park leaf-mine on Hazel, 22nd November 2020. Arne (1, leaf-mine), Carey Estate (1, leaf-mine). Ballard (1, leaf-mine). Recorded in 7 x 1km squares on Living Record 2000-2019.

356 *Phyllonorycter tristrigella* – Scarce and thinly distributed resident, the larvae feed on Elm. Carey Estate, recorded as leaf-mine on the foodplant 6th November 2020. Carey Estate (1, leaf-mine). Recorded in 5 x 1km squares on Living Record 2000-2019.

2179 Pine Beauty *Panolis flammea* – Uncommon and thinly distributed or restricted resident, the larvae feed on Scots, Corsican and Lodgepole Pines, Larch. Goathorn (1,4) Hartland Moor (1,1) Stoborough Heath (1,1) Godlingstone Heath (1,1) Grange Heath (1,2) Creech Heath (3,6) Carey Estate (1,5). Recorded in 23 x 1km squares on Living Record 2000-2019.

1767 Pine Carpet *Pennithera firmata* – Fairly common and widespread resident, the larvae feed on Scots Pine and Corsican Pine. Arne Moors (3,4) Ballard (1,1) Goathorn (11,17) Holton Lee (5,7) Sandford Gardens (1,1) Slepe Heath (6,11) Canford Heath (3,3) Carey Estate (6,29) Hamworthy (2,2). Recorded in 40 x 1km squares on Living Record 2000-2019.

1978 Pine Hawk-moth *Sphinx pinastri* – Uncommon and restricted resident, the larvae feed on Scots and Corsican Pine, Norway Spruce. Corfe River Meadow (1,1) Arne Moors (9,12) Ballard (3,4) Goathorn (3,4) Holton Lee (1,1) Holton Heath (1,1) Sandford Gardens (1,2) Slepe Heath (3,7) Canford Heath (3,3) Hartland Moor (1,1) Grange Heath (1,1) Carey Estate (19,42) Upton Heath (1,2) Wareham Forest (1,5) Hamworthy (4,4). Recorded in 38 x 1km squares on Living Record 2000-2019.

2484 Pinion-streaked Snout *Schrankia costaestrigalis* – Scarce and local resident, the larval foodplant is unknown. Arne Moors (1,1) Corfe Castle (3,3) Goathorn (5,6) Holton Lee (10,15) Carey Estate (4,5) Ham Common (1,1). Recorded in 23 x 1km squares on Living Record 2000-2019.

1079 *Piniphila bifasciana* – Uncommon and thinly distributed and restricted resident, the larvae feed on Scots Pine. Corfe River Meadow (1,1) Goathorn (2,2) Carey Estate (2,3) Hamworthy (4,4). Recorded in 11 x 1km squares on Living Record 2000-2019.

2273 Pink-barred Sallow *Xanthia togata* – Fairly common and fairly widespread resident, the larvae feed on Sallow, Poplars and herbaceous plants. Corfe Castle (1,1) Goathorn (2,2) Holton Lee (3,3) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (2,9) Hamworthy (2,2). Recorded in 21 x 1km squares on Living Record 2000-2019.

1715 Plain Wave *Idaea straminata* – Scarce and thinly distributed or restricted resident, the larval foodplant is unknown. Arne Moors (2,6) Goathorn (4,13) Holton Lee (2,2) Sandford Gardens (2,3) Slepe Heath (3,8) Canford Heath (1,2) Hartland Moor (2,2) Carey Estate (1,1) Wareham Forest (1,3). Recorded in 24 x 1km squares on Living Record 2000-2019.



808 *Platyedra subcinerea* (Nb) – Scarce and thinly distributed resident, the larvae feed on Common Mallow and Hollyhock. Ballard one on 20th May 2019 the sole record. Ballard (1,1). This is apparently the only record for Poole Harbour this century.

Fig. 71 *Platyedra subcinerea* next to magnified picture in book

1405 *Pleuroptya ruralis* (Mother of Pearl) – Very common and widespread resident, the larvae feed on Nettles. Arne Moors (2,2) Ballard (7,34) Goathorn (1,1) Holton Lee (6,23) Sandford Gardens (1,11) Slepe Heath (2,2) Round Island (1,1) Carey Estate (18,70) Wareham Forest (1,17) Ham Common (1,3) Hamworthy (10,27). Recorded in 34 x 1km squares on Living Record 2000-2019.

654 *Pleurota bicostella* – Scarce and restricted resident, the larvae feed on Bell-heather and Cross-leaved Heath. Slepe Heath one on 30th May 2019, confirmed by Dr Phil Sterling. Slepe (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 72 *Pleurota bicostella*

464 *Plutella xylostella* (Diamond-back) – Very common and widespread migrant / wanderer, the larvae feed on various vegetables and cruciferous plants. Corfe River Meadow (1,1) Arne Moors (5,9) Ballard (15,56) Corfe Castle (2,6) Goathorn (4,48) Holton Lee (9,33) Holton Heath (1,1) Sandford Gardens (2,30) Slepe Heath (3,13) Canford Heath (1,1) Hartland Moor (1,1) Round Island (1,4) Godlingstone Heath (1,1) Carey Estate (11,20) Hamworthy (10,17) Wareham Forest (1,1) Ham Common (1,1). Recorded in 46 x 1km squares on Living Record 2000-2019.

2278 Poplar Grey *Subacronicta megacephala* – Fairly common and widespread resident, the larvae feed on Poplars, Aspens and Willows. Arne Moors (1,1) Slepe Heath (1,1). Recorded in 17 x 1km squares on Living Record 2000-2019.

1981 Poplar Hawk-moth *Laothoe populi* – Very common and widespread resident, the larvae feed on Poplars, Aspen, Willows and Sallow. Corfe River Meadow (1,1) Arne Moors (12,16) Ballard (7,11) Corfe Castle (3,10) Goathorn (2,2) Holton Lee (6,8) Sandford Gardens (1,1) Slepe Heath (2,2) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (27,45) Hamworthy (1,1). Recorded in 36 x 1km squares on Living Record 2000-2019.

1998 Poplar Kitten *Furcula bifida* – Scarce and thinly distributed resident, the larvae feed on Poplars, Aspen, Willows. The following records were all identified using known external identification features. These features are now discredited, so all future Dorset records will now be aggregated with Sallow Kitten. These records should be considered in light of this. Holton Lee (1,1) Slepe Heath (1,1) Carey Estate (3,3). Recorded in 10 x 1km squares on Living Record 2000-2019.

2186 Powdered Quaker *Orthosia gracilis* (S41) – Common and thinly distributed or restricted resident, the larvae feed on herbaceous and woody plants. Slepe Heath (1,1) Creech Heath (1,1) Carey Estate (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

449 *Prays fraxinella* (Ash Bud Moth) – Uncommon and thinly distributed resident, the larvae feed on Ash. Holton Lee one on 8th July 2018 the sole record. Holton Lee (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



448a *Prays ruficeps* (Dark Ash Bud Moth) – Formerly considered a dark form of *Prays fraxinella* this is now considered to be a species in its own right, but distribution is poorly known. Carey Estate one on 28th September 2020 is the sole record. Carey Estate (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 73 *Prays ruficeps*

1784 Pretty Chalk Carpet *Melanthia procellata* (S41) – Scarce and thinly distributed resident, the larvae feed on Traveller’s-joy. Only recorded from Ballard where the foodplant is plentiful. Ballard (8,14). This is the only 1km square where the species has been recorded in Poole Harbour this century.



Fig.74 Pretty Chalk Carpet

1976 Privet Hawk-moth *Sphinx ligustri* – Fairly common and widespread resident, the larvae feed on Wild and Garden Privet, Ash, Lilac and Guelder-rose. Corfe River Meadow (2,4) Arne Moors (5,7) Ballard (8,20) Corfe Castle (3,12) Goathorn (6,14) Holton Lee (1,1) Hartland Moor (5,6) Sandford Gardens (1,1) Slepe Heath (1,1) Carey Estate (14,35) Upton Heath (1,1) Hamworthy (3,4). Recorded in 30 x 1km squares on Living Record 2000-2019.

1011 *Pseudagyrotoza conwagana* – Fairly common and widespread resident, the larvae feed on Wild Privet, Garden Privet and Ash. Arne Moors (1,1) Ballard (2,2) Longfleet School (1,2) Carey Estate (2,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

436 *Pseudoswammerdamia combinella* – Uncommon and thinly distributed resident, the larvae feed on Blackthorn. Ballard singles on 28th May 2018 and 20th May 2019, Corfe Castle one on 1st June 2018, Holton Lee one on 18th May 2018. Ballard (2,2) Corfe Castle (1,1) Holton Lee (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

186 *Psyche casta* – Scarce and thinly distributed resident, the larvae feed on leaf-litter and detritus. Carey Estate one on 5th June 2020 the sole record. Carey Estate (1,1). AG also found one on her car during daylight hours in Southbourne (outside project area) on 8th June 2019. Recorded in 17 x 1km squares on Living Record 2000-2019.

1513 *Pterophorus pentadactyla* (White Plume Moth) – Uncommon and thinly distributed or restricted resident, the larvae feed on Bindweed. Carey Estate one at porch light on 7th July 2019, the sole record. Carey Estate (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

748 *Ptocheuusa paupella* – Scarce and thinly distributed resident the larvae feed on various plants, including Common Fleabane and Golden Samphire. Ballard, singles on 11th June and 6th August 2018, confirmed by Dr Phil Sterling. Ballard (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

1752 Purple Bar *Cosmorhoe ocellata* – Common and widespread resident, the larvae feed on Bedstraws. Arne Moors (1,1) Ballard (5,10) Corfe Castle (1,1) Holton Lee (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

2122 Purple Clay *Diarsia brunnea* – Fairly common and fairly widespread resident, the larvae feed on herbaceous plants. Carey Estate one on 21st June 2019 the sole record. Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

1919 Purple Thorn *Selenia tetralunaria* – Fairly common and thinly distributed resident, the larvae feed on broadleaved trees, Hazel, Birches etc. Holton Lee (2,2) Holton Heath (1,1) Slepe Heath (2,2) Carey Estate (3,3). Recorded in 14 x 1km squares on Living Record 2000-2019.

1698 Purple-bordered Gold *Idaea muracata* (Nb) – Very rare and local resident, the larvae feed on Marsh Cinquefoil. Arne Moors (2,2) Goathorn (1,2) Holton Lee (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1995 Puss Moth *Cerura vinula* – Uncommon and thinly distributed resident, the larvae feed on Poplars and Willows. Arne Moors (1,4) Carey Estate (2,3) Hamworthy (2,2). Recorded in 9 x 1km squares on Living Record 2000-2019.



1417 *Pyralis farinalis* (Meal Moth) – Uncommon and thinly distributed or restricted resident, the larvae feed on grain. Hamworthy, individuals recorded 3 times in June and August 2020. Hamworthy (3,3). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 75 *Pyralis farinalis*

1361 *Pyrausta aurata* – Fairly common and widely distributed resident, the larvae feed on various mint species. Ballard (1,1) Holton Lee (1,2) Sandford Gardens (1,10) Hamworthy (2,6). Recorded in 20 x 1km squares on Living Record 2000-2019.

1367 *Pyrausta cingulata* (Nb) – Scarce and thinly distributed or restricted resident, the larvae feed on Wild Thyme. Goathorn one on 26th July 2018. Apparently, the only record for Poole Harbour this century. Goathorn (1,1).



Fig. 76 *Pyrausta cingulata* in tube

1365 *Pyrausta despicata* – Fairly common and widely distributed resident, the larvae feed on herbs like Wild Thyme and Marjoram. Corfe River Meadow (2,4) Arne Moors (4,26) Ballard (2,3) Round Island (1,1) Hamworthy (3,6). Recorded in 14 x 1km squares on Living Record 2000-2019.

1362 *Pyrausta purpuralis* – Fairly common and widely distributed resident, the larvae feed on Wild Thyme and Corn Mint. Arne Moors (3,3) Ballard (1,1) Goathorn (2,2) Carey Estate (4,4). Recorded in 12 x 1km squares on Living Record 2000-2019.

2139 Red Chestnut *Cerastis rubricosa* – Common and fairly widespread resident, the larvae feed on herbaceous and woody plants. Arne Moors (1,1) Goathorn (1,1) Slepe Heath (4,15) Hartland Moor (1,10) Stoborough Heath (4,23) Godlingstone Heath (3,12) Grange Heath (3,34) Creech Heath (4,37) Carey Estate (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

2241 Red Sword-grass *Xylena vetusta* – Scarce and local resident, the larvae feed on herbaceous and woody plants. Slepe Heath singles on 14th October 2017, 10th April 2018 and 8th April 2019, Hartland Moor one on 18th April 2018. Slepe Heath (3,3) Hartland Moor (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1724 Red Twin-spot Carpet *Xanthorhoe spadicearia* – Common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (1,1) Ballard (7,13) Goathorn (1,1) Holton Lee (1,1) Carey Estate (11,23). Recorded in 22 x 1km squares on Living Record 2000-2019.

2323 Reddish Light Arches *Apamea sublustris* – Scarce and very local resident, the larvae feed on grasses. Ballard one on 25th June 2019, Corfe Castle two on 1st June 2018. Ballard (1,1) Corfe Castle (1,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

2452 Red Underwing *Catocala nupta* – Uncommon and fairly widespread resident, the larvae feed on Black Poplar, White Poplar, Aspen, Willows. Carey Estate one on 21st September 2020, Hamworthy singles on 6th August and 22nd September 2020. Carey Estate (1,1) Hamworthy (2,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

1760 Red-green Carpet *Chloroclysta siterata* – Fairly common and fairly widespread resident, the larvae feed on broadleaved trees. Ballard (1,1) Carey Estate (5,6) Hamworthy (4,6). Recorded in 10 x 1km squares on Living Record 2000-2019.

2263 Red-line Quaker *Agrochola lota* – Common and fairly widespread resident, the larvae feed on Willows. Arne Moors (2,4) Ballard (1,1) Goathorn (1,2) Slepe Heath (1,1) Carey Estate (3,3) Hamworthy (7,19). Recorded in 19 x 1km squares on Living Record 2000-2019.



2039 Red-necked Footman *Atolmis rubicollis* – Uncommon and thinly distributed resident, the larvae feed on lichens. Holton Lee one on 1st July 2018, Carey Estate singles on 5th July 2019 and 29th June 2020. Holton Lee (1,1), Carey Estate (2,2). Recorded in 6 x 1km squares on Living Record 2000-2019.

Fig. 77 Red-necked Footman

380 Red-tipped Clearwing *Synanthedon formicaeformis* (**Nb**) – A rare and local resident, the larvae feed on Osiers and Willows. Hatch Pond 1-3 attracted to pheromone on 3 occasions in July 2020, Pocket Park Broadstone 4 attracted to pheromone in July 2020. Looked for on a number of regular sites without success. Hatch Pond (3,6) Pocket Park, Broadstone (1,4). Recorded in 1 x 1km square on Living Record 2000-2019.



Fig. 78 Red-tipped Clearwing

1211 Rhyacionia pinicolana – Uncommon and thinly distributed resident, the larvae feed on Scots Pine. Goathorn (1,2) Holton Lee (1,1) Sandford Gardens (1,3) Carey Estate (2,2) Hamworthy (2,3). Recorded in 9 x 1km squares on Living Record 2000-2019.

1212 Rhyacionia pinivorana (Spotted Shoot Moth) – Uncommon and thinly distributed resident, the larvae feed on Scots Pine. Goathorn (2,7) Holton Lee (1,1) Slepe Heath (1,11) Hartland Moor (1,1) Carey Estate (1,1) Hamworthy (1,3). Recorded in 13 x 1km squares on Living Record 2000-2019.

1713 Riband Wave *Idaea aversata* – Abundant and widespread resident, the larvae feed on herbaceous plants. Arne Moors (7,15) Ballard (6,21) Goathorn (3,4) Holton Lee (6,22) Sandford Gardens (2,29) Slepe Heath (2,13) Canford Heath (1,1) Hartland Moor (2,7) Carey Estate (19,100) Upton Heath (1,2) Longleet School (1,19) Ham Common (1,1) Hamworthy (13,48). Recorded in 51 x 1km squares on Living Record 2000-2019.



1939 Ringed Carpet *Cleora cinctaria* (**Na**) – Scarce and restricted resident, the larvae feed on Birch, Bog Myrtle. Arne Moors (1,1) Goathorn (1,1) Grange Heath (2,2) Creech Heath (2,6). Recorded in 5 x 1km squares on Living Record 2000-2019.

Fig. 79 Ringed Carpet

1802 Rivulet *Perizoma affinitata* – Fairly common and thinly distributed resident, the larvae feed on Red Campion. Ballard one on 28th May 2018, Corfe Castle one on 1st June 2018. Corfe Castle (1,1) Ballard (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

2037 Rosy Footman *Mitochrista miniate* – Common and widespread resident, the larvae feed on Dog lichen and other lichens. Arne Moors (4,6) Ballard (1,1) Goathorn (3,6) Holton Lee (8,23) Sandford Gardens (2,16) Slepe Heath (3,8) Canford Heath (2,3) Round Island (1,1) Carey Estate (14,70) Wareham Forest (1,7) Hamworthy (2,3). Recorded in 40 x 1km squares on Living Record 2000-2019.

2396 Rosy Marbled *Elaphria venustula* (Nb) – Rare and very local resident / wanderer, the larvae are thought to feed on Tormentil. Recorded from 3 sites with an apparent established breeding population on Goathorn. Corfe Castle one on 1st June 2018, Goathorn 6 on 7th June, 2 on 28th June 2018, Hartland one on 4th July 2019. Corfe Castle (1,1) Goathorn (2,8) Hartland (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 80 Rosy Marbled

2342 Rosy Minor *Mesoligia literosa* (S41) – Fairly common and fairly widespread resident, the larvae feed on grasses. Ballard one on 9th July 2018, Carey Estate singles on 15th and 25th June 2020. Ballard (1,1) Carey Estate (2,2). Recorded in 10 x 1km squares on Living Record 2000-2019.

2361 Rosy Rustic *Hydraecia micacea* (S41) – Abundant and fairly widespread resident, the larvae feed on low growing plants, Broad-leaved Dock, Ribwort Plantain etc. Arne Moors (1,1) Ballard (6,18) Corfe Castle (3,12) Holton Lee (6,6) Carey Estate (12,37) Hamworthy (1,1). Recorded in 18 x 1km squares on Living Record 2000-2019.



2453 Rosy Underwing *Catacola electa* – Very rare migrant, the larvae feed on Sallow and Poplar. Holton Lee one on 24th August 2017. Up until this point the species was extremely rare in the UK but another was reported from Abbotsbury the same week. Since then, a small breeding population has possibly become, at least temporarily, established elsewhere in the county. Attempts to obtain further records from Holton Lee have proved unsuccessful. This is the only record from Poole Harbour this century, the last being in 1898. Holton Lee (1,1).

Fig. 81 Rosy Underwing

1691 Rosy Wave *Scopula emutaria* (Nb) – Scarce and local resident, the larvae feed on Sea-beet. Arne Moors (6,11) Goathorn (2,2) Holton Lee (6,16). Recorded in 13 x 1km squares on Living Record 2000-2019.

2035 Round-winged Muslin *Thumatha senex* – Scarce and restricted resident, the larvae feed on lichens and mosses. Corfe River Meadow (1,1) Arne Moors (14,81) Holton Lee (4,9) Slepe Heath (2,3) Upton Heath (1,1) Carey Estate (3,5). Recorded in 8 x 1km squares on Living Record 2000-2019.

2064 Ruby Tiger *Phragmatobia fuliginosa* – Common and widespread resident, the larvae feed on herbaceous plants. Corfe River Meadow (1,2) Arne Moors (13,43) Ballard (4,10) Corfe Castle (1,1) Goathorn (3,4) Holton Lee (10,23) Holton Heath (1,1) Sandford Gardens (2,10) Slepe Heath (7,33) Canford Heath (6,19) Carey Estate (8,20) Wareham Forest (1,8) Hamworthy (1,1). Recorded in 38 x 1km squares on Living Record 2000-2019.

2381/2 Rustic / Uncertain aggregate *Hoplodrina blanda / octogenaria* (Rustic S41) – Very common and widespread resident, the larvae feed on herbaceous plants. All species were recorded as aggregates due to the difficulty in separating the species on field characteristics alone. Corfe River Meadow (1,4) Arne Moors (15,122) Ballard (8,70) Goathorn (3,6) Holton Lee (4,26) Holton Heath (1,7) Sandford Gardens (2,55) Slepe Heath (8,62) Canford Heath (5,6) Hartland Moor (3,11) Carey Estate (23,178) Longfleet School (1,55) Wareham Forest (1,5) Ham Common (1,1) Hamworthy (12,75).

2334 Rustic Shoulder-knot *Apamea sordens* – Fairly common and thinly distributed and restricted resident, the larvae feed on grasses. Carey Estate one on 29th May 2019 the sole record. Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 82 Rustic Shoulder-knot

2274 Sallow *Cirrhia icteritia* (**S41**) – Fairly common and widespread resident, the larvae feed on Poplars and herbaceous plants. Ballard (1,1) Corfe Castle (1,1) Goathorn (1,1) Slepe Heath (1,2) Carey Estate (4,5) Hamworthy (1,1). Recorded in 24 x 1km squares on Living Record 2000-2019.

1997 Sallow Kitten *Furcula intortie* – Uncommon and thinly distributed resident, the larvae feed on Willows. Arne Moors (7,13) Ballard (2,2) Goathorn (1,1) Holton Lee (1,1) Holton Heath (1,1) Sandford Gardens (1,1) Slepe Heath (4,7) Creech Heath (1,1) Carey Estate (3,6) Wareham Forest (1,1) Ham Common (1,1). Recorded in 25 x 1km squares on Living Record 2000-2019.

1808 Sandy Carpet *Perizoma flavofasciata* – Uncommon and fairly widespread resident, the larvae feed on Red Champion. Carey Estate one on 21st April 2019 the only record. Carey Estate (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

2256 Satellite *Eupsilia transversa* – Uncommon and fairly widespread resident, the larvae are omnivorous feeding on broadleaved trees and shrubs and moth larvae. Ballard (1,1) Goathorn (2,2) Slepe Heath (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.



1940 Satin Beauty *Deileptenia ribeata* – Uncommon and thinly distributed resident, the larvae feed on Scots Pine, Norway Spruce, Larch, Douglas Fir. Only recorded from Carey Estate, with 9 trapped on 5 occasions in July 2019 and June and July 2020. Carey Estate (5,9). Recorded in 5 x 1km squares on Living Record 2000-2019.

Fig. 83 Satin Beauty

1709 Satin Wave *Idaea subsericeata* – Fairly common and thinly distributed resident, the larvae feed on Knotgrass, Dandelions and Chickweed. Arne Moors (1,1) Ballard (1,1) Goathorn (1,2) Holton Lee (2,2) Hartland Moor (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1789 Scallop Shell *Rheumaptera undulata* – Uncommon and thinly distributed resident, the larvae feed on Sallow, Aspen, Bilberry. Arne Moors (1,2) Holton Lee (1,1) Canford Heath (1,1) Talbot Heath (1,1) Carey Estate (6,9) Upton Heath (1,1). Recorded in 18 x 1km squares on Living Record 2000-2019.

1920 Scalloped Hazel *Odontopera bidentata* – Common and fairly widespread resident, the larvae feed on woody plants. Creech Heath (1,2) Carey Estate (3,3). Recorded in 14 x 1km squares on Living Record 2000-2019.

1645 Scalloped Hook-tip *Falcaria lacertinaria* – Fairly common but restricted resident, the larvae feed on Oak. Arne Moors (4,5) Goathorn (1,1) Holton Lee (9,12) Sandford Gardens (2,5) Slepe Heath (7,10) Carey Estate (5,10) Wareham Forest (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

1921 Scalloped Oak *Crocallis elinguaris* – Very common and widespread resident, the larvae feed on broadleaved woody plants, Hawthorn, Blackthorn etc. Corfe River Meadow (1,2) Arne Moors (1,1) Ballard (5,15) Sandford Gardens (2,2) Slepe Heath (1,1) Carey Estate (9,16) Longfleet School (1,2) Hamworthy (3,4). Recorded in 30 x 1km squares on Living Record 2000-2019.

2400 Scarce Bordered Straw *Helicoverpa armigera* – Scarce and local migrant / wanderer, the larvae feed on Scarlet Geranium and Yellow Rattle amongst others. Goathorn one on 18th October 2018, Carey Estate singles on 30th August and 4th October 2019, Hamworthy singles on 11th and 17th September 2019. Goathorn (1,1) Carey Estate (2,2) Hamworthy (2,2). Recorded in 8 x 1km squares on Living Record 2000-2019.

2047 Scarce Footman *Eilema complana* – Fairly common but restricted resident, the larvae feed on lichens. Arne Moors (10,72) Ballard (1,1) Goathorn (4,50) Holton Lee (9,15) Holton Heath (1,87) Sandford Gardens (2,25) Slepe Heath (5,274) Canford Heath (8,41) Hartland Moor (2,5) Carey Estate (11,32) Upton Heath (1,1) Wareham Forest (1,14) Talbot Heath (1,1) Ham Common (1,2) Hamworthy (3,4). Recorded in 43 x 1km squares on Living Record 2000-2019.

2277 Scarce Merveille du Jour *Moma alpium* (RDB3) – Rare and restricted resident, the larvae feed on Oak species. Carey Estate one by the pond area on 7th July 2019 the only record. This may have been the sole Dorset record in that year. Carey Estate (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.



Fig. 83 Scarce Merveille du Jour

2421 Scarce Silver-lines *Bena bicolorana* – Scarce and thinly distributed resident, the larvae feed on Pedunculate Oak. Carey Estate one on 27th June 2019 the sole record. Carey Estate (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

2068 Scarlet Tiger *Callimorpha dominula* – Uncommon and thinly distributed resident, the larvae feed on herbaceous plants including Comfrey, Hemp-agrimony, Common Nettle, Bramble, Honeysuckle and Meadowsweet. Arne Moors (1,5) Ballard (3,3). Recorded in 8 x 1km squares on Living Record 2000-2019.

1328 Schoenobius gigantella – Very rare resident, the larvae feed on Common Reed and Reed Sweet-grass. Holton Lee one recorded on 8th July 2018 was not verified and unfortunately no evidence retained. Holton Lee (1,1). There are no other records in Living Record this century although the species has been recorded on 7 occasions on Brownsea Island.

1334 Scoparia ambigualis – Common and widespread resident, the larvae feed on various mosses. Arne Moors (1,1) Ballard (1,3) Goathorn (2,3) Holton Lee (2,3) Canford Heath (1,1) Hartland Moor (1,1). Recorded in 26 x 1km squares on Living Record 2000-2019.

1334a Scoparia basistrigalis – Scarce and thinly distributed or restricted resident, the larvae feed on the moss *Mnium hornum*. A number of large and dark Scoparia spp. were ascribed to this species but without verification or supporting evidence such as photographs. Goathorn 2 records in August and September 2017, Holton Lee 2 records in August 2017 and June 2018. Goathorn (2,2) Holton Lee (2,3). Recorded in 5 x 1km squares on Living Record 2000-2019.

1333 Scoparia pyralella – Fairly common and widely distributed resident, the larvae feed on mosses and dead or decaying leaves. The records come from the two sites with predominantly chalky soil. Ballard (3,14) Corfe Castle (2,13). Recorded in 6 x 1km squares on Living Record 2000-2019.

1888 Scorched Carpet *Ligdia adustata* – Fairly common and widespread resident, the larvae feed on Spindle. Ballard one on 13th August 2018 is the sole record. Ballard (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

1904 Scorched Wing *Plagodis dolabraria* – Fairly common and widespread resident, the larvae feed on Oaks and Birches. Arne Moors (3,5) Ballard (1,1) Corfe Castle (1,3) Goathorn (1,1) Holton Lee (2,3) Carey Estate (6,9). Recorded in 24 x 1km squares on Living Record 2000-2019.

819 *Scrobipalpa costella* – Fairly common and widespread resident, the larvae feed on Woody Nightshade. Corfe Castle one on 15th September 2018, Goathorn one on 7th June 2018 the only records. Corfe Castle (1,1) Goathorn (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

814 *Scrobipalpa ocellatella* (Nb) – Very rare coastal resident, the larvae feed on Sea Beet. Ballard one on 27th August 2018, a male, confirmed by Dr Phil Sterling, the sole record. Ballard (1,1). This is the only Poole Harbour record this century.

813 *Scrobipalpa salicorniae* (Na) – Very rare resident, the larvae feed on coastal plants such as Sea-blite, Sea Aster and Glasswort. Round Island one from the saltmarsh on 12th August 2018, a male, confirmed by Dr Phil Sterling was the sole record. Round Island (1,1). This is the only Poole Harbour record this century.



450 *Scythropia crataegella* (Hawthorn Moth) – Scarce and restricted resident, the larvae feed on Hawthorn and Blackthorn. Ballard one on 11th June 2018, Hamworthy 2 on 30th August 2020. Ballard (1,1) Hamworthy (1,2). Recorded in 4 x 1km squares on Living Record 2000-2019.

Fig. 84 Hawthorn Moth

667 *Semioscopis steinkellneriana* – Scarce and thinly distributed resident, the larvae feed on Blackthorn and Hawthorn. Hartland Moor one on 18th April 2018 the sole record. Hartland Moor (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

1915 September Thorn *Ennomos erosaria* (S41) – Scarce and thinly distributed or restricted resident, the larvae feed on Oaks and Birches, Limes and Beech. Arne Moors (1,1) Ballard (1,1) Goathorn (3,6). Recorded in 5 x 1km squares on Living Record 2000-2019.

2126 Setaceous Hebrew Character *Xestia c-nigrum* – Abundant and widespread resident, the larvae feed on herbaceous plants, Nettles, Willowherbs etc. Arne Moors (11,32) Ballard (22,351) Corfe Castle (9,138) Goathorn (8,38) Holton Lee (21,157) Slepe Heath (4,6) Canford Heath (3,4) Round Island (1,1) Carey Estate (26,115) Hamworthy (16,49). Recorded in 43 x 1km squares on Living Record 2000-2019.

1840 Shaded Pug *Eupithecia subumbrata* – Scarce and very local resident, the larvae feed on herbaceous plants. Ballard one on 28th May 2018 the sole record. Ballard (1,1). Apparently, the only record for Poole Harbour this century. Ballard (1,1).

2216 Shark *Cucullia umbratica* – Fairly common and thinly distributed resident, the larvae feed on Sow-thistles, Wild Lettuces, Hawkweeds. Ballard (5,9) Hamworthy (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

1890 Sharp-angled Peacock *Macaria alternata* – Common and widespread resident, the larvae feed on Sallow, Willows, Sea Buckthorn, Alder. Arne Moors (3,4) Ballard (6,7) Corfe Castle (2,2) Goathorn (1,1) Holton Lee (6,13) Holton Heath (1,1) Sandford Gardens (2,2) Slepe Heath (3,4) Canford Heath (1,1) Creech Heath (1,1) Carey Estate (10,19) Hamworthy (3,3). Recorded in 37 x 1km squares on Living Record 2000-2019.

2147 Shears *Hada plebeja* – Fairly common and widespread resident, the larvae feed on herbaceous plants. Arne Moors (2,2) Ballard (2,2) Hartland Moor (4,11). Recorded in 11 x 1km squares on Living Record 2000-2019.

2077 Short-cloaked Moth *Nola cucullatella* – Common and fairly widespread resident, the larvae feed on Hawthorns, Blackthorn, Apple, Pear, Plum. Corfe River Meadow (1,1) Ballard (5,7) Holton Lee (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2205 Shoulder-striped Wainscot *Mythimna comma* (S41) – Fairly common and widespread resident, the larvae feed on grasses. Arne Moors (7,12) Ballard (2,5) Corfe Castle (1,2) Holton Lee (1,1) Canford Heath (1,1) Hartland Moor (5,22) Carey Estate (10,57) Hamworthy (3,4). Recorded in 21 x 1km squares on Living Record 2000-2019.

2092 Shuttle-shaped Dart *Agrotis puta* – Very common and widespread resident, the larvae feed on Docks, Dandelion and other herbaceous plants. Arne Moors (2,2) Ballard (4,4) Corfe Castle (1,1) Holton Lee (7,7) Sandford Gardens (1,1) Slepe Heath (3,3) Canford Heath (2,4) Hartland Moor (1,1) Carey Estate (15,22) Longfleet School (1,4) Wareham Forest (1,1) Ham Common (1,7) Hamworthy (22,115). Recorded in 41 x 1km squares on Living Record 2000-2019.

2391 Silky Wainscot *Chilodes maritimus* – Scarce and local resident, the larvae are omnivorous feeding on invertebrates and dead Common Reed stems. Ballard two on 21st August 2018, Holton Lee 6 on 3 occasions in June and July 2018, Hamworthy one on 12th July 2020. Ballard (1,2) Holton Lee (3,6) Hamworthy (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

2441 Silver Y *Autographa gamma* – Abundant and widespread migrant / wanderer, the larvae feed on many plants. Arne Moors (7,11) Ballard (15,116) Corfe Castle (5,73) Goathorn (2,3) Holton Lee (3,12) Sandford Gardens (1,2) Slepe Heath (6,10) Canford Heath (4,10) Round Island (1,2) Godlingstone Heath (1,1) Creech Heath (1,1) Carey Estate (10,21) Wareham Forest (1,1) Hamworthy (35,110). Recorded in 65 x 1km squares on Living Record 2000-2019.

1727 Silver-ground Carpet *Xanthorhoe montanata* – Abundant and widespread resident, the larvae feed on herbaceous plants. Ballard (3,3) Corfe Castle (2,3) Carey Estate (2,5). Recorded in 14 x 1km squares on Living Record 2000-2019.

1708 Single-dotted Wave *Idaea dimidiata* – Very common and fairly widespread resident, the larvae feed on Cow Parsley, Burnet Saxifrage, Hedge Bedstraw. Arne Moors (7,13) Ballard (5,9) Corfe Castle (2,2) Goathorn (3,3) Holton Lee (5,9) Sandford Gardens (2,4) Slepe Heath (3,4) Canford Heath (2,2) Hartland Moor (1,1) Round Island (1,1) Carey Estate (17,33) Longfleet School (1,3) Ham Common (2,2) Hamworthy (3,3). Recorded in 46 x 1km squares on Living Record 2000-2019.

382 Six-belted Clearwing *Bembecia ichneumoniformis* (Nb) – Scarce and restricted resident, the larvae feed on Bird's-foot Trefoil and Kidney Vetch. Attracted to pheromones at Hatch Pond and nearby on Nuffield Industrial Estate. Also, at Christopher Crescent playing field. Looked for unsuccessfully at other sites including Carey Estate and Corfe River Meadow. Hatch Pond (4,20) Nuffield (1,3) Christopher Crescent playing field (1,3). These are apparently the only records for Poole harbour this century.



Fig. 85 Six-belted Clearwing

169 Six-spot Burnet *Zygaena filipendulae* – Fairly common and fairly widespread resident, the larvae feed on Common Bird's-foot Trefoil. Sandford Gardens (1,1) Hatch Pond (3,7) Ham Common (1,4). Recorded in 27 x 1km squares on Living Record 2000-2019.

2133 Six-striped Rustic *Xestia sexstrigata* – Very common and fairly widespread resident, the larvae feed on Hedge Bedstraw, Ribwort Plantain, Bramble, Bluebell. Arne Moors (8,74) Goathorn (1,1) Holton Lee (7,18) Slepe Heath (1,3) Carey Estate (8,59) Hamworthy (1,1). Recorded in 18 x 1km squares on Living Record 2000-2019.

2335 Slender Brindle *Apamea scolopacina* – Uncommon and thinly distributed resident, the larvae feed on woodland grasses. Ballard (1,1) Holton Lee (2,2) Holton Heath (1,1) Slepe Heath (1,1) Carey Estate (3,6). Recorded in 6 x 1km squares on Living Record 2000-2019.

1811 Slender Pug *Eupithecia tenuiata* – Scarce and local resident, the larvae feed on Goat Willow, Grey Willow, Eared Willow. Ballard one on 8th July 2019 the sole record. Ballard (1,1). Recorded in 7 x 1km squares on Living Record 2000-2019.

2305 Small Angle Shades *Euplexia lucipara* – Fairly common and widespread resident, the larvae feed on herbaceous and woody plants. Holton Lee (2,2) Hartland Moor (2,2) Talbot Heath (1,1) Carey Estate (4,4). Recorded in 19 x 1km squares on Living Record 2000-2019.

1690 Small Blood-vein *Scopula imitaria* – Fairly common and thinly distributed or restricted resident, the larvae feed on Garden Privet and Honeysuckle. Arne Moors (1,1) Ballard (6,6) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (2,2) Carey Estate (1,1) Longfleet School (1,1) Hamworthy (2,2). Recorded in 29 x 1km squares on Living Record 2000-2019.



2017 Small Chocolate-tip *Clostera pigra* (Nb) – Rare and very local resident, the larvae feed on Eared Willow and Creeping Willow. Slepe Heath one on 31st July 2017, Arne Moors 2 on 24th July 2019 the only records. Slepe Heath (1,1) Arne Moors (1,2). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 86 Small Chocolate-tip

2331 Small Clouded Brindle *Apamea unanimitis* – Uncommon and thinly distributed or restricted resident, the larvae feed on grasses. Arne Moors 2 on 5th June 1028, one on 17th July 2018, Ballard one on 2nd July 2018. Arne Moors (2,3) Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

2345 Small Dotted Buff *Photedes minima* – Common and fairly widespread resident, the larvae feed on Tufted Hair-grass. Arne Moors (3,7) Ballard (1,1) Carey Estate (3,6). Recorded in 5 x 1km squares on Living Record 2000-2019.



Fig. 87 Small Dotted Buff

1707 Small Dusty Wave *Idaea seriata* – Fairly common and thinly distributed or restricted resident, the larvae feed on plant debris. Sandford Gardens one on 21st July 2018, Hamworthy recorded 4 times in 2020. Sandford Gardens (1,1) Hamworthy (4,4). Recorded in 25 x 1km squares on Living Record 2000-2019.

1992 Small Elephant Hawk-moth *Deilephila porcellus* – Fairly common and widespread resident, the larvae feed on Bedstraws. Arne Moors (3,3) Ballard (7,17) Carey Estate (1,1) Hamworthy (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

1673 Small Emerald *Hemistola chrysoprasaria* (S41) – Uncommon and thinly distributed resident, the larvae feed on Traveller's Joy. Ballard (1,3) Holton Lee (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

2492 Small Fan-foot *Herminia grisealis* – Fairly common and fairly widespread resident, the larvae feed on Pedunculate Oak, Birches, Hazel, Hawthorn and Sallow. Ballard (1,1) Carey Estate (2,2). Recorded in 12 x 1km squares on Living Record 2000-2019.

1702 Small Fan-footed Wave *Idaea biselata* – Very common and widespread resident, the larvae feed on various low-growing plants. Ballard (5,8) Goathorn (3,3) Holton Lee (5,7) Sandford Gardens (1,3) Round Island (1,1) Carey Estate (15,32) Longfleet School (1,1) Ham Common (1,3). Recorded in 28 x 1km squares on Living Record 2000-2019.

1670 Small Grass Emerald *Chlorissa viridata* (Na) – Very scarce and restricted resident the larvae feed on Heather and Birch. Wareham Forest one on 22nd July 2019 the sole record. Wareham Forest (1,1). Recorded in 9 x 1km squares on Living Record 2000-2019.

1759 Small Phoenix *Ecliptopera silaceata* (S41) – Common and widespread resident, the larvae feed on Willowherbs. Holton Lee (1,1) Carey Estate (12,19). Recorded in 17 x 1km squares on Living Record 2000-2019.

2470 Small Purple-barred *Phytometra viridaria* – Scarce and restricted resident, the larvae feed on Common and Heath Milkwort. Ballard (1,1) Holton Lee (1,1) Holton Heath (1,3) Slepe Heath (2,4) Canford Heath (5,19). Recorded in 20 x 1km squares on Living Record 2000-2019.

2182 Small Quaker *Orthosia cruda* – Common and widespread resident, the larvae feed on Oaks, Downy Birch, Sallow, Hazel. Arne Moors (1,1) Slepe Heath (2,2) Hartland Moor (3,3) Stoborough Heath (1,1) Creech Heath (2,2) Carey Estate (1,1). Recorded in 23 x 1km squares on Living Record 2000-2019.

2379 Small Rufous *Coenobia rufa* – Uncommon and local resident, the larvae feed on Jointed Rush, Sharp-flowered Rush and Soft Rush. Arne Moors (13,54) Goathorn (1,2) Holton Lee (6,8) Sandford Gardens (1,1) Carey Estate (4,33) Hamworthy (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1712 Small Scallop *Idaea emarginata* – Rare and very local resident, the larvae feed on Bedstraws and Field Bindweed. Slepe Heath 2 on 17th July 2017, one on 31st July 2017, Ham Common one on 6th August 2019 the only records. Slepe Heath (2,3) Ham Common (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

1882 Small Seraphim *Pterapherapteryx sexalata* – Fairly common and thinly distributed resident, the larvae feed on Sallow. Corfe River Meadow (1,1), Arne Moors (1,1) Ballard (4,6) Goathorn (1,2) Holton Lee (5,7) Hartland Moor (1,1) Carey Estate (1,3) Hamworthy (1,1). Recorded in 20 x 1km squares on Living Record 2000-2019.

2123 Small Square-spot *Diarsia rubi* (S41) – Abundant and widespread resident, the larvae feed on Dandelion, Foxglove and Docks. Arne Moors (9,18) Ballard (5,8) Corfe Castle (5,11) Holton Lee (4,6) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (17,36) Hamworthy (1,1). Recorded in 31 x 1km squares on Living Record 2000-2019.

2350 Small Wainscot *Denticucullus pygmina* – Uncommon and thinly distributed or restricted resident, the larvae feed on sedges and grasses. Arne Moors (12,35) Ballard (2,3) Corfe Castle (2,2) Holton Lee (19,46) Slepe Heath (4,5) Carey Estate (2,2). Recorded in 24 x 1km squares on Living Record 2000-2019.

1781 Small Waved Umber *Horisme vitalbata* – Common, the larvae feed on Traveller's-joy. Ballard (3,4) Corfe Castle (1,3) Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

1876 Small Yellow Wave *Hydrelia flammeolaria* – Fairly common and widespread resident, the larvae feed on Field Maple, Sycamore and Alder. Holton Lee one on 8th July 2018, Carey Estate 4 recorded on 3 occasions in 2019 and 2020. Holton Lee (1,1) Carey Estate (3,4). Recorded in 13 x 1km squares on Living Record 2000-2019.

2198 Smoky Wainscot *Mythimna impura* – Abundant and widespread resident, the larvae feed on grasses. Corfe River Meadow (2,14) Arne Moors (22, 1,004) Ballard (7,63) Goathorn (1,1) Holton Lee (5,37) Sandford Gardens (2,4) Slepe Heath (6,29) Canford Heath (1,1) Hartland Moor (6,29) Carey Estate (17,178) Wareham Forest (1,10) Ham Common (1,1) Hamworthy (2,2). Recorded in 40 x 1km squares on Living Record 2000-2019.

2477 Snout *Hypena proboscidalis* – Abundant and widespread resident, the larvae feed on Common Nettle. Ballard (12,18) Corfe Castle (9,69) Holton Lee (10,18) Slepe Heath (1,1) Canford Heath (1,2) Hartland Moor (1,1) Talbot Heath (1,1) Carey Estate (19,31) Hamworthy (8,9). Recorded in 36 x 1km squares on Living Record 2000-2019.

841 *Sophronia semicostella* – Scarce and restricted resident, the larvae feed probably on Sweet Vernal-grass. Hartland one on 30th June 2019 the sole record. Hartland (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.



2264a Southern Chestnut *Agrochola haematidea* (RDB2) – Very scarce and restricted recent colonist. Found to have extensively colonised heaths across the south side of the Harbour and located in all sites surveyed during late autumn. Known to wander widely. Arne Moors (1,1) Goathorn (4,19) Holton Lee (2,4) Slepe Heath (2,5) Canford Heath (1,15) Hartland Moor (1,1) Carey Estate (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

Fig. 88 Southern Chestnut

2197 Southern Wainscot *Mythimna straminea* – Uncommon and restricted resident, the larvae feed on Common Reed and Reed Canary Grass. Arne Moors (8,18) Ballard (1,1) Holton Lee (8,26) Slepe Heath (1,1) Ham Common (1,2). Recorded in 11 x 1km squares on Living Record 2000-2019.

1012 Sparganothis pilleriana (Na) – Scarce and thinly distributed and restricted resident, the larvae feed on various herbaceous plants in salt-marsh and damp heathland. Arne Moors one on 3rd July 2018, Hamworthy one on 26th July 2020, both confirmed by Dr Phil Sterling. Arne Moors (1,1) Hamworthy (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

2450 Spectacle *Abrostola tripartita* – Very common and widespread resident, the larvae feed on Common Nettle. Arne Moors (5,5) Ballard (9,13) Corfe Castle (4,9) Goathorn (1,1) Holton Lee (8,18) Sandford Gardens (1,1) Slepe Heath (1,1) Cary Estate (16,24) Hamworthy (8,14). Recorded in 33 x 1km squares on Living Record 2000-2019.

1205 Spilonota ocellana (Bud Moth) – Fairly common and widely distributed resident, the larvae feed on various rosaceous trees and shrubs, such as Apple, Pear and Hawthorn. Arne Moors (1,1) Ballard (1,1) Sandford Gardens (1,1) Carey Estate (2,2), one a female, confirmed by Dr Phil Sterling, Hamworthy (2,2). Recorded in 8 x 1km squares on Living Record 2000-2019.

1769 Spruce Carpet *Thera britannica* – Fairly common and widespread resident, the larvae feed on Norway Spruce, Sitka Spruce, Western Hemlock. Arne Moors (1,1) Ballard (1,1) Goathorn (2,16) Carey Estate (6,10). Recorded in 13 x 1km squares on Living Record 2000-2019.

2134 Square-spot Rustic *Xestia xanthographa* – Abundant and widespread resident, the larvae feed on grasses and small herbaceous plants. Arne Moors (4,18) Ballard (11,149) Corfe Castle (6,75) Goathorn (4,8) Holton Lee (11,40) Slepe Heath (3,6) Carey Estate (16,268) Hamworthy (21,175). Recorded in 43 x 1km squares on Living Record 2000-2019.

1507 Stenoptilia zophodactylus (Dowdy Plume) – Scarce and thinly distributed or restricted resident, the larvae feed on Centaury, Yellow-wort and Gentian species. Carey Estate, one on 18th August 2019, confirmed by Dr Phil Sterling, the sole record. Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

50 Stigmella aurella – Very common and widespread resident, the larvae feed on Bramble. Identified from leaf-mines on Bramble from Carey Estate, Arne Moors, Slepe Heath, Ballard and Hamworthy in November 2020. Arne Moors (1, leaf-mine), Slepe Heath (1, leaf-mine), Ballard (1, leaf-mine), Carey Estate (1, leaf-mine), Hamworthy (1, leaf-mine). Recorded in 24 x 1km squares on Living Record 2000-2019.



Fig. 89 *Stigmella aurella* mine on Bramble

75 Stigmella floslactella – Scarce and thinly distributed resident, the larvae feed on Hazel and Hornbeam. Hamworthy, found as leaf-mine on Hazel, 17th November 2020. Recorded in 4 x 1km squares on Living Record 2000-2019.

111 Stigmella microtheriella – Scarce and thinly distributed resident, Carey Estate identified from leaf-mine on Hazel, November 2020. Also recorded as leaf-mine on Hazel at Hamworthy 17th November 2020 and Arne car park 22nd November 2020. Arne (1, leaf-mine), Carey Estate (1, leaf-mine), Hamworthy (1, leaf-mine). Recorded in 12 x 1km squares on Living Record 2000-2019.

67 Stigmella plagicolella – Scarce and thinly distributed resident, the larvae feed on Blackthorn. Ballard, recorded as leaf-mine on foodplant, 11th November 2020. Ballard (1, leaf-mine). Recorded in 5 x 1km squares on Living Record 2000-2019.



77 *Stigmella tityrella* – Scarce and thinly distributed resident, the larvae feed on Beech. Recorded at Carey Estate as leaf-mine on Beech, November 2020. Carey Estate (1, leaf-mine). Recorded in 11 x 1km squares on Living Record 2000-2019.

Fig. 90 Classic *Stigmella tityrella* mine on Beech

2474 Straw Dot *Rivula sericealis* – Very common and fairly widespread resident, the larvae feed on grasses. Arne Moors (15,46) Ballard (9,16) Corfe Castle (5,26) Goathorn (1,4) Holton Lee (15,43) Sandford Gardens (1,5) Slepe Heath (4,7) Canford Heath (2,4) Hartland Moor (1,1) Round Island (1,1) Talbot Heath (1,1) Carey Estate (21,80) Hamworthy (6,9). Recorded in 43 x 1km squares on Living Record 2000-2019.

2303 Straw Underwing *Thalpophila matura* – Fairly common and thinly distributed or restricted resident, the larvae feed on grasses. Ballard (2,3) Goathorn (1,1) Canford Heath (2,2) Carey Estate (1,1). Recorded in 16 x 1km squares on Living Record 2000-2019.

1747 Streamer *Anticlea derivata* – Uncommon and fairly widespread resident, the larvae feed on Dog-rose and other wild roses. Creech Heath one on 11th April 2019, Carey Estate 2 on 21st April 2019 the sole records. Creech Heath (1,1) Carey Estate (1,2). Recorded in 8 x 1km squares on Living Record 2000-2019.

2196 Striped Wainscot *Mythimna pudorina* – Scarce and restricted resident, the larvae feed on broadleaved grasses. Arne Moors (6,10) Goathorn (1,3) Holton Lee (2,5) Slepe Heath (2,7) Canford Heath (2,3) Hartland Moor (2,19) Talbot Heath (1,1) Carey Estate (2,2). Recorded in 21 x 1km squares on Living Record 2000-2019.

2268 Suspected *Parastichtis suspecta* – Scarce and restricted resident, the larvae feed on Birches and Sallow. Arne Moors one on 23rd June 2020 the sole record. Arne Moors (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.



Fig. 91 Suspected

2298 Svensson's Copper Underwing *Amphipyra berbera* – Uncommon and thinly distributed or restricted resident, the larvae feed on Pedunculate Oak. Arne Moors 2 on 24th July 2019 and one on 31st July 2019 the only definite records. Clear views of the hindwing are required amongst other features and the majority of the species were recorded as aggregates. Arne Moors (2,3). Recorded in 3 x 1km squares on Living Record 2000-2019.

2007 Swallow Prominent *Pheosia tremula* – Common and fairly widespread resident, the larvae feed on Aspen, Poplars, Sallow and Willows. Arne Moors (3,4) Corfe Castle (1,1) Sandford Gardens (1,1) Round Island (1,1) Creech Heath (1,1) Carey Estate (13,18) Hamworthy (1,1). Recorded in 21 x 1km squares on Living Record 2000-2019.

1922 Swallow-tailed Moth *Ourapteryx sambucaria* – Common and widespread resident, the larvae feed on broadleaved woody plants, Hawthorn, Blackthorn etc. Ballard (4,12) Carey Estate (2,2) Wareham Forest (1,1). Recorded in 19 x 1km squares on Living Record 2000-2019.

438 Swammerdamia *pyrella* – Scarce and thinly distributed resident, the larvae feed on Hawthorn, Apple and Pear. Ballard (1,1) Goathorn (1,1) Holton Lee (1,1) Hamworthy (2,5). Recorded in 7 x 1km squares on Living Record 2000-2019.

2279 Sycamore *Acronicta aceris* – Common, the larvae feed on Sycamore, Field Maple, Maples and Horse Chestnut. Slepe one on 12th July 2018 is, surprisingly, the only record. Slepe (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

1414 Synaphe punctalis – Fairly common but thinly distributed and restricted resident, the larvae feed on mosses in dry, sandy, shingle or chalky areas. Corfe River Meadow (2,50) Arne Moors (12,122) Ballard (2,11) Goathorn (2,5) Holton Lee (5,14) Holton Heath (1,57) Sandford Gardens (2,129) Slepe Heath (7,53) Canford Heath (9,47) Hartland (2,47) Carey Estate (22, 1,427) Longfleet School (1,18) Wareham Forest (1,2) Hamworthy (9,47). Recorded in 42 x 1km squares on Living Record 2000-2019.

844 Syncopacma larseniella – Rare and very local resident, the larvae feed on Bird's-foot Trefoil. Ballard one on 9th July 2018, Holton Heath one on 16th July 2018, Carey Estate one on 7th July 2019 verified by Dr Phil Sterling. Ballard (1,1) Holton Heath (1,1) Carey Estate (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

986 Syndemis musculana – Uncommon and thinly distributed resident, the larvae feed on many trees, shrubs and grasses, especially Bramble, Birch and Oak. Ballard 2 on 28th May 2018 and 2 on 20th May 2019 the only records. Ballard (2,4). Recorded in 3 x 1km squares on Living Record 2000-2019.

656 Tachystola acroxantha – Uncommon and thinly distributed resident, the larvae feed on leaf litter. Arne Moors (1,20) Ballard (1,1) Corfe Castle (1,1) Goathorn (1,1) Holton Lee (8,10) Sandford Gardens (1,3) Carey Estate (7,7) Hamworthy (23,92). Recorded in 23 x 1km squares on Living Record 2000-2019.

2339 Tawny Marbled Minor *Oligia latruncula* – Local status is unknown as the majority of Minors are aggregated due to genital dissection being required for accurate species identification. The larvae feed on grasses. Corfe Castle 2 on 2nd June 2018 confirmed by Dr Phil Sterling. Corfe Castle (2,2). Recorded in 2 x 1km squares on Living Record 2000-2019.



2167 Tawny Shears *Hadena perplexa* – Fairly common and thinly distributed and restricted resident, the larvae feed on Campions, Nottingham Catchfly, Rock Sea-spurrey. Ballard singles on 9th and 23rd July 2018 the only records. Ballard (2,2). Recorded in 2 x 1km squares on Living Record 2000-2019.

Fig. 92 Tawny Shears, in tube

1838 Tawny Speckled Pug *Eupithecia icterata* – Uncommon and fairly widespread resident, the larvae feed on Yarrow and Sneezewort. Carey Estate one on 26th July 2019 the only record. Carey Estate (1,1). Recorded in 1 other x 1km square on Living Record 2000-2019.

1893 Tawny-barred Angle *Macaria liturata* – Uncommon and fairly widespread resident, the larvae feed on Scots and Corsican Pines, Norway and Sitka Spruce. Arne Moors (2,7) Goathorn (3,6) Holton Lee (9,11) Sandford Gardens (2,5) Slepe Heath (1,1) Round Island (1,4) Grange Heath (1,1) Creech Heath (1,1) Carey Estate (21,50) Upton Heath (1,2) Hamworthy (2,2). Recorded in 33 x 1km squares on Living Record 2000-2019.

774 Teleiodes luculella – Common and thinly distributed resident, the larvae feed on Oak. Carey Estate one on 29th June 2020, Hamworthy one on 2nd August and 2 on 15th August 2020. Carey Estate (1,1) Hamworthy (2,3). Recorded in 7 x 1km squares on Living Record 2000-2019.

765 Teleiodes vulgella – Scarce and thinly distributed resident the larvae feed on a variety of shrubs and trees especially Hawthorn and Blackthorn. Ballard one on 9th July 2018, 3 on 8th July 2019 confirmed by Dr Phil Sterling, Hamworthy one on 2nd June 2020. Ballard (2,4) Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

776 Teleiopsis diffinis – Scarce and thinly distributed resident, the larvae feed on Sheep's sorrel. Arne Moors (1,3) Holton Lee (1,5) Carey Estate (6,10) at least one from Carey confirmed by Dr Phil Sterling. Hamworthy (1,1). Recorded in 2 x 1km squares on Living Record 2000-2019.

246 *Tinea semifulvella* – Uncommon and thinly distributed or restricted resident, the larvae feed on animal matter and bird's nest detritus. Ballard one on 17th June 2019, Carey Estate one on 14th July 2019. Ballard (1,1) Carey Estate (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

247 *Tinea trinotella* – Uncommon and thinly distributed or restricted resident, the larvae feed on animal matter and bird's nest detritus. Ballard (1,1) Creech Heath (1,1) Carey Estate (2,2) Ham Common (1,1). Recorded in 10 x 1km squares on Living Record 2000-2019.

123 *Tischeria ekebladella* – Scarce and thinly distributed resident, the larvae feed on Oak and Sweet Chestnut. Carey Estate 2 on 7th July 2019. Carey Estate (1,2). Recorded in 15 x 1km squares on Living Record 2000-2019.

1033 *Tortrix viridana* (Green Oak Tortrix) – Fairly common and widespread resident, the larvae feed on Oak. Arne Moors (1,3) Corfe Castle (1,3) Holton Lee (2,3) Hamworthy (1,2). Recorded in 9 x 1km squares on Living Record 2000-2019.

1711 Treble Brown Spot *Idea trigeminata* – Fairly common but restricted resident, the larvae feed on Ivy and Knotgrass. Ballard (3,4) Goathorn (1,1) Holton Lee (1,1) Hartland Moor (1,1) Round Island (1,1) Carey Estate (8,18) Longfleet School (1,1) Talbot Heath (1,1) Hamworthy (5,11). Recorded in 31 x 1km squares on Living Record 2000-2019.

2380 Treble Lines *Charanyca trigrammica* – Common and fairly widespread resident, the larvae feed on herbaceous plants. Arne Moors (4,6) Ballard (6,22) Corfe Castle (3,19) Holton Lee (1,1) Slepe Heath (1,7) Carey Estate (14,129) Hamworthy (5,25). Recorded in 35 x 1km squares on Living Record 2000-2019.

1867 Treble-bar *Aplocera plagiata* – Scarce and local resident, the larvae feed on St John's-wort spp. Goathorn (1,1) Carey Estate (1,1) Hamworthy (3,3). Recorded in 16 x 1km squares on Living Record 2000-2019.

2118 True Lover's Knot *Lycophotia porphyrea* – Fairly common but restricted resident, the larvae feed on Heather and Bell Heather. Corfe River Meadow (2,40) Arne Moors (19,162) Ballard (3,6) Corfe Castle (1,1) Goathorn (9,190) Holton Lee (5,14) Holton Heath (1,52) Sandford Gardens (2,31) Slepe Heath (10,454) Canford Heath (11,573) Hartland Moor (6,263) Carey Estate (10,39) Upton Heath (1,5) Longfleet School (1,1) Wareham Forest (1,126) Talbot Heath (1,41) Ham Common (1,6).

2087 Turnip Moth *Agrotis segetum* – Common and widespread resident, the larvae feed on herbaceous plant roots, Turnip, Carrot, Beet etc. Ballard (6,12) Corfe Castle (1,1) Slepe Heath (1,1) Carey Estate (3,3) Hamworthy (19,41). Recorded in 22 x 1km squares on Living Record 2000-2019.

1809 Twin-spot Carpet *Perizoma didyata* – Scarce and thinly distributed resident, the larvae feed on many plants. Ballard one on 6th August 2018 the sole record. Ballard (1,1). Apparently, the only Poole Harbour record this century.

2189 Twin-spotted Quaker *Orthosia munda* – Uncommon and fairly widespread resident, the larvae feed on broadleaved trees, Oak, Birches, Sallow etc. Carey Estate 3 trapped on 21st March 2020 by Joe Parker. Carey Estate (1,3). Recorded in 13 x 1km squares on Living Record 2000-2019.

2370 Twin-spotted Wainscot *Lenisa geminipuncta* – Scarce and restricted resident, the larvae feed on Common Reed. Arne Moors (2,2) Holton Lee (1,5) Ham Common (1,1). Recorded in 11 x 1km squares on Living Record 2000-2019.

1395 *Udea ferrugalis* (Rusty-dot Pearl) – Very common and widespread migrant, the larvae feed on herbaceous plants. Arne Moors (2,2) Ballard (7,9) Corfe Castle (2,2) Goathorn (1,1) Holton Lee (2,2) Slepe Heath (5,8) Canford Heath (1,1) Carey Estate (6,6) Hamworthy (14,21). Recorded in 30 x 1km squares on Living Record 2000-2019.

1389 *Udea fulvalis* – Uncommon, thinly distributed migrant, probable scarce resident. The larvae feed on Black Horehound, Meadow Clary, Red and White Campions. Ballard (2,2) Sandford Gardens (2,2) Ham Common (1,1) Hamworthy (8,12). Recorded in 14 x 1km squares on Living Record 2000-2019.

1388 *Udea lutealis* – Very common and widespread resident, the larvae feed on herbaceous plants including Bramble. Recorded twice on Slepe Heath in 2017 and once on Ballard on 8th July 2018. Slepe Heath (2,2) Ballard (1,1). Recorded in 4 x 1km squares on Living Record 2000-2019.

1392 Udea olivalis – Common and widespread resident, the larvae feed on herbaceous plants. Ballard (1,1) Carey Estate (3,3). Recorded in 7 x 1km squares on Living Record 2000-2019.

1390 Udea prunalis – Fairly common and widely distributed resident, the larvae feed on herbaceous plants. Arne Moors (1,1) Ballard (1,1) also as leaf-mine on Blackthorn there, Sandford Gardens (1,1) Carey Estate (2,2) Talbot Heath (1,1) Hamworthy (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

2381 Uncertain Hoplodrina octogenaria – Very common and widespread resident, the larvae feed on herbaceous plants. Recorded as an aggregate with Rustic (*H. blanda*) except for one at Carey Estate on 25th June 2020, confirmed as this species by Tony Davis. There are records ascribed to this species from 16 x 1km squares on Living Record 2000-2019.

2026 Vapourer Orgyia antiqua – Uncommon and fairly widespread resident, the larvae feed on broadleaved trees and shrubs. Holton Lee one on 22nd August 2017 the sole record. Holton Lee (1,1). Recorded in 12 x 1km squares on Living Record 2000-2019.

1716 Vestal Rhodometra saccharia – Scarce and local migrant / wanderer, the larvae feed on Knotgrass. Ballard (1,1) Goathorn (1,2) Hartland Moor (1,1) Carey Estate (1,1) Hamworthy (1,1). Recorded in 13 x 1km squares on Living Record 2000-2019.

2384 Vine's Rustic Hoplodrina ambigua – Uncommon and local resident, the larvae feed on herbaceous plants. Arne Moors (7,12) Ballard (12,141) Corfe Castle (6,25) Goathorn (6,12) Holton Lee (8,39) Slepe Heath (2,6) Hartland Moor (1,1) Sandford Gardens (1,1) Round Island (1,4) Carey Estate (22,106) Ham Common (1,3) Hamworthy (25,246). Recorded in 38 x 1km squares on Living Record 2000-2019.

1858 V-Pug Chloroclystis v-ata – Fairly common and widespread resident, the larvae feed on many plants. Corfe River Meadow (1,1) Ballard (3,3) Sandford Gardens (2,2) Carey Estate (7,11) Hamworthy (1,1). Recorded in 15 x 1km squares on Living Record 2000-2019.

2373 Webb's Wainscot Globia sparganii (Nb) – Scarce and restricted resident, the larvae feed on Reedmace, Lesser Reedmace, Yellow Iris, Branched Bur-reed. Arne Moors 3 on 20th August 2019 by the pond, one on 11th August 2020. Holton Lee singles on 8th July 2018 and 12th September 2019. Arne Moors (2,4) Holton Lee (2,2). Recorded in 9 x 1km squares on Living Record 2000-2019.

2060 White Ermine Spilosoma lubricipeda (S41) – Very common and widespread resident, the larvae feed on herbaceous plants, nettles and docks. Arne Moors (4,11) Ballard (6,19) Corfe Castle (3,28) Goathorn (2,3) Holton Lee (4,14) Hartland Moor (1,1) Carey Estate (10,21) Hamworthy (1,1). Recorded in 27 x 1km squares on Living Record 2000-2019.

2031 White Satin Leucoma salicis – Uncommon and thinly distributed or restricted resident, the larvae feed on Aspen, Poplars, Sallow and Willows. Ballard one on 2nd July 2018 is, surprisingly, the only record. Ballard (1,1). Recorded in 6 x 1km squares on Living Record 2000-2019.

2081 White-line Dart Euxoa tritici (S41) – Uncommon and local resident, the larvae feed on herbaceous plants. Corfe River Meadow (1,1) Arne Moors (2,5) Ballard (2,2) Goathorn (2,2) Holton Lee (1,1) Sandford Gardens (1,2) Slepe Heath (2,2) Carey Estate (1,1) Hamworthy (2,2). Recorded in 17 x 1km squares on Living Record 2000-2019.

2194 White-point Mythimna albipuncta – Fairly common and widely distributed resident and migrant, the larvae feed on grasses. Arne Moors (3,5) Ballard (11,33) Corfe Castle (5,8) Goathorn (2,3) Holton Lee (9,13) Canford Heath (1,2) Hartland Moor (1,1) Carey Estate (11,20) Hamworthy (9,19). Recorded in 30 x 1km squares on Living Record 2000-2019.

2203 White-speck *Mythimna unipuncta* – Fairly common migrant, probable occasional resident, the larvae feed on grasses. Goathorn one on 31st August 2017, Hamworthy singles on 10th and 16th November 2020. Goathorn (1,1) Hamworthy (2,2). Recorded in 3 x 1km squares on Living Record 2000-2019.



Fig. 93 White-speck

1835 White-spotted Pug *Eupithecia tripunctaria* – Uncommon and thinly distributed or restricted resident, the larvae feed on Elder and Wild Angelica. Carey Estate singles on 26th July 2019 and 23rd July 2020. Carey Estate (2,2). Recorded in 2 x 1km squares on Living Record 2000-2019.

1937 Willow Beauty *Peribatodes rhomboidaria* – Abundant and widespread resident, the larvae feed on various trees. Arne Moors (7,8) Ballard (13,33) Corfe Castle (6,19) Goathorn (2,2) Holton Lee (3,3) Sandford Gardens (2,5) Slepe Heath (1,1) Hartland Moor (1,1) Carey Estate (23,50) Longfleet School (1,9) Ham Common (1,1) Talbot Heath (1,2) Hamworthy (22,44). Recorded in 56 x 1km squares on Living Record 2000-2019.



1739 Wood Carpet *Epirrhoe rivata* – Rare and very local resident, the larvae feed on Lady's and Hedge Bedstraw. Ballard one on 23rd July 2018 the sole record. Ballard (1,1). This is apparently the only Poole Harbour record this century.

Fig. 94 Wood Carpet

1830 Wormwood Pug *Eupithecia absinthiata* – Fairly common and widespread resident, the larvae feed on Mugwort, Yarrow, Wormwood, Golden-rod and others. Ballard (1,1) Goathorn (1,1) Slepe Heath (1,1) Canford Heath (2,4) Hamworthy (1,1). Recorded in 14 x 1km squares on Living Record 2000-2019.

1968 Yellow Belle *Semiaspilates ochrearia* – Scarce and restricted resident, the larvae feed on various low-growing herbaceous plants. Arne Moors one on 11th August 2020, Hamworthy one on 30th August 2020 the only records. Arne Moors (1,1) Hamworthy (1,1). Recorded in 8 x 1km squares on Living Record 2000-2019.

1659 Yellow Horned *Achyla flavicornis* – Scarce and thinly distributed or restricted resident, the larvae feed on Silver and Downy Birch. Hartland singles on 21st and 25th March 2018 are, surprisingly, the only records. Hartland (2,2). Recorded in 14 x 1km squares on Living Record 2000-2019.

1742 Yellow Shell *Camptogramma bilineata* – Fairly common and widespread resident, the larvae feed on Cleavers and Bedstraw. Ballard (2,2) Ham Common (1,1) Hamworthy (2,2). Recorded in 29 x 1km squares on Living Record 2000-2019.

1883 Yellow-barred Brindle *Acasis viretata* – Uncommon and thinly distributed resident, the larvae feed on Holly, Ivy, Privet, Dogwood and Hawthorn. Corfe Castle (1,1) Carey Estate (1,1) Hamworthy (3,3). Recorded in 14 x 1km squares on Living Record 2000-2019.

374 Yellow-legged Clearwing *Synanthedon vespiformis* (Nb) – Rare and local resident, the larvae feed on Pedunculate Oak. Hatch Pond, singles attracted to pheromone on 2 occasions, but not located elsewhere despite a number of attempts. Hatch Pond (2,2). No other records in Living Record for Poole Harbour this century.

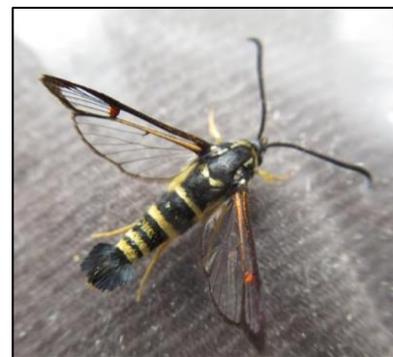


Fig. 95 Yellow-legged Clearwing

2264 Yellow-line Quaker *Agrochola macilenta* – Common and fairly widespread resident, the larvae feed on Oaks, Poplars, Beech, Sallow, Hawthorn and other plants. Arne Moors (1,1) Goathorn (2,3) Holton Lee (3,4) Slepe Heath (1,2) Carey Estate (4,6) Hamworthy (7,24). Recorded in 15 x 1km squares on Living Record 2000-2019.

2030 Yellow-tail *Euproctis similis* – Very common and widespread resident, the larvae feed on broadleaved trees and shrubs. Arne Moors (8,20) Ballard (1,2) Goathorn (1,1) Holton Lee (1,1) Slepe Heath (3,5) Canford Heath (1,1) Carey Estate (14,38) Longfleet School (1,1) Wareham Forest (1,1). Recorded in 34 x 1km squares on Living Record 2000-2019.

424 Yponomeuta evonymella (Bird Cherry Ermine) – Uncommon and thinly distributed resident, the larvae feed on Bird Cherry. Arne Moors (2,5) Ballard (1,1) Goathorn (1,2) Holton Lee (3,7) Sandford Gardens (1,1) Slepe Heath (2,3) Canford Heath (1,1) Talbot Heath (1,1) Carey Estate (1,1). Recorded in 19 x 1km squares on Living Record 2000-2019.

426 / 425 Yponomeuta malinellus / padella (Apple Ermine / Orchard Ermine) – Scarce and thinly distributed resident, the larvae feed on Apple (*malinellus*) and Blackthorn, Hawthorn and Cherry (*padella*). The 2 species are aggregated due to the extreme difficulty in separating their identities. Arne Moors 5 on 11th August 2020, Hamworthy singles twice in July 2020. Arne Moors (1,5) Hamworthy (2,2). No records for the species in Living Record 2000-2019.

428 Yponomeuta rorrella (Willow Ermine) – Uncommon and thinly distributed resident and migrant / wanderer, the larvae feed on Willow species. Arne Moors (2,2) Sandford Gardens (1,1). Recorded in 5 x 1km squares on Living Record 2000-2019.

453 Ypsolopha dentella (Honeysuckle Moth) – Fairly common and widely distributed resident, the larvae feed on Honeysuckle. Holton Lee (2,2) Ham Common (1,2). Recorded in 7 x 1km squares on Living Record 2000-2019.

460 Ypsolopha parenthesella – Uncommon and thinly distributed resident, the larvae feed on Oak and Hazel. Holton Lee singles on 3 occasions in August 2017. Holton Lee (3,3). Recorded in 4 x 1km squares on Living Record 2000-2019.



455 Ypsolopha scabrella – Uncommon and thinly distributed resident, the larvae feed on Apple and Hawthorn. Ballard recorded on 3 occasions in August 2018, Canford Heath one on 4th August 2017. Ballard (3,3) Canford Heath (1,1). Recorded in 3 x 1km squares on Living Record 2000-2019.

Fig. 96 Ypsolopha scabrella

1165 Zeiraphera isertana – Uncommon and thinly distributed resident, the larvae feed on Oak. Ballard singles on 2nd July 2018 and 27th August 2018. Ballard (2,2). Recorded in 7 x 1km squares on Living Record 2000-2019.

SITE ACCOUNTS

Arne Moors

This is one part of the RSPB Arne complex which has been little studied for moths and is scheduled for major habitat alteration via flooding. The site was visited on 22 occasions in 2018 (mid-May to late October), 15 times in 2019 (late April to early September) and on 8 occasions in 2020 (June to mid-August).

Fig. 97 Late October trapping in the frost! Site 1

The site is large and trapping was undertaken from 2 access points; the gate at SY949864 and via the 'plastic road' entering through a gate at SY954868. The 2 areas covered were called Sites 1 and 2 although in reality Site 2 had more variety in trap locations. Significantly the decision on which part of the site to trap on any given date was determined by the presence or absence of grazing cattle. On one occasion significant interference was suffered due to curious cows around the traps. Most of the grasslands between the track at Site 1 and Site 2 were mown in high summer, though this did not affect the availability of the site for trapping.



Site 1, accessed from the layby through 2 gates, has a straight track running centrally across the Moors and immediately adjacent to a ditch with emergent vegetation. The road side of the moors is fringed with secondary woodland and some scrub.



Site 2 consisted of open grassland and also a significant vegetated pond at SY953868, the latter scheduled to be retained when the major managed re-alignment project is undertaken.

A very significant moth fauna was found on the moors with a number of very rare Dorset species located. In addition, the site was clearly drawing species wandering from the nearby heaths.

Permissions and access keys were obtained from RSPB and it was possible to charge the actinic battery at the main car park information hub.

Fig. 98 Summer trapping Site 1

Ballard

The bird ringing station on Ballard is a relatively small c.2ha area of predominantly scrub woodland on the chalk with a number of newly planted trees. Owned by the National Trust it is used as a bird ringing station and has a number of net rides which readily lend themselves to running traps. The site is accessed along a farm track that starts south-east of Studland village at SZ037819. The track goes gently uphill through a further 3 gates. Permissions for access were sought and obtained from the tenant farmer who was informed of planned visits.

This was the main site visited that is on chalk and as a result attracted a large range of species not recorded by the project elsewhere. Despite no obvious water sources nearby a number of 'wetland' species as well as heathland species were recorded suggesting the site was drawing on species lower down on Studland.

Fig. 99 Net ride at Ballard

During 2018 Olly Slessor was actively bird ringing on Ballard and the 2 activities proved to be wholly compatible and un-conflicting. A number of migrant species were trapped at Ballard although the site proved on occasions to be more exposed in windy conditions. That said the network of hedges could frequently be used to mitigate against this.

The fields leading to the site frequently contained cows which could be very inquisitive around vehicles parked up.



Canford Heath

Visits began in the later part of July 2017 with the express intention of looking for target species Speckled Footman last seen on the site in 2004. Areas of Bristle Bent were targeted along the main ridge in 2 places.

The visits were co-ordinated with Jez Martin and Terry Elborn of the Bournemouth Christchurch and Poole (BCP) Council (formerly Borough of Poole) Ranger Service. A key was provided for the access gates off Francis Avenue (SZ04499531) and Steeple Close (SZ019953). From the Francis Avenue access, it was possible to drive on tracks a considerable way along the ridge.

Canford Bottom, one of the last known localities for Speckled Footman, could be reached from the Steeple Close gate with a wheelbarrow, or preferably with a suitable four-wheel drive vehicle. In July to October 2017, 7 visits were made to the eastern end of the ridge and 2 to the central ridge.



Fig. 100 Trapping with members of the Bournemouth Natural Sciences Society (BNSS), Canford Ridge July 2017

In 2018 Canford Bottom was visited once in July. 2019 saw a successful survey for Southern Chestnut at the western end of the site through the gate from Steeple Close in October and 3 further visits were made to look for Speckled Footman in July 2020, 2 to Canford Bottom and one to the central ridge.

Various protocols, such as telephoning Dorset Police to inform them of trapping activity on site, were adhered to. On Canford Bottom a small number of cattle did not prove to be a problem. The site remained well used by members of the public throughout much of the night and for that reason traps were never left unattended.

Carey Estate

Carey was visited from May 2019 until November 2020. The site is a privately owned estate of around 60 hectares located along the Piddle valley west of Wareham. It has a great variety of habitats, including riparian meadows, mixed and ornamental woodland, alder carr and acid grassland. It is located to the very well-recorded Trigon estate and is an immensely rich site for wildlife in general, and this certainly includes moths.

Fig. 101 Moth trapping by the pond, Carey Estate

Initially the main garden and the adjacent wooded pond area were targeted. In 2019 other nature conservation activities preclude much access to the river but this changed for 2020 and the river meadows were a main focus for recording along with the acid grassland area. In autumn 2019 the Victorian walled garden was trapped a number of times prior to the commencement of the restoration work.

In total 58 nights trapping was undertaken at Carey, more than other sites, reflecting its richness and potential importance for moths. Several additional day-time visits were made to look for day-flying species, to survey with pheromones and to look for leaf-mines.



Vehicular access was possible to some locations within Carey.

Corfe Castle

MoPH was invited to trap at Corfe Castle by the National Trust and sessions coincided with public 'show-and-tell' wildlife events. The site proved an excellent one for public engagement with high visitor numbers and good facilities (marquees etc) provided on event days.



The castle is elevated which may account for a decent range of autumnal migrant species but the surrounding habitats are also quite varied with mature riverine habitat and considerable scrub and rank vegetation in the outer ditch and beyond. There was also some indication of species being drawn from surrounding chalk grassland.

It is possible to access inside the main castle grounds with vehicles which makes the logistical side of things far easier. In addition, there are a number of external electricity outlets from which to run traps overnight and avoid necessary use of a petrol generator. The outer ditch can be accessed from a power socket in the lower mill barn though there is a maternity bat roost and care needs to be taken. Using extension leads the traps could be run relatively discreetly in the ditch. The portable actinic trap was placed at various locations on higher ground within the castle, but otherwise the MV traps were sited to utilise the electrical sockets on the main grassy area inside the main gate. Grid reference SY959821.

Fig. 102 Trapping at Corfe Castle

Due to the nature of the public events being over weekends this was the only site (with the exception of a single occasion at Hartland Moor) where trapping was undertaken in the same location on consecutive nights. The site was visited on 2 weekends in September 2017, a 3-day weekend at the beginning of June 2018 and 2 nights in September 2018. 9 nights in total. The main gate can be accessed, outside public opening hours, using a padlock combination lock.

The 2 weekends of public events in September 2017 were considered to have been visited by 3,000+ adults and children.

Corfe River Meadow

This site was visited twice in July 2020. By mid- late July the hay cut had been taken so plans for further trapping were switched elsewhere. The site is accessed by a gate at SY963849 and follows the track down to Sharford footbridge. The meadow proved readily accessible with a wheelbarrow from the road. Different areas of the meadow were surveyed each visit and a number of very

interesting species were found suggesting that this would repay much more moth survey. The flower meadows themselves are edged by riparian habitat and wet woodland and form part of an extensive network of valuable habitat.

Parking overnight was in a layby on the road opposite the access track.

The site was very well used by cyclists and walkers, many of whom were interested in the trapping going on. There is scope for engagement activities here.



Fig. 103 Trapping at Corfe River Meadow

Creech Heath

The Purbeck Mason wasp site on Creech Heath was visited on 4 occasions in 2019 to trap specifically for *Acleris hyemana*, the caterpillars of which are predated by the wasps to feed their own larvae.



Fig. 104 Trapping on Creech Heath

The site is managed by ARC and permissions for the study were obtained by the Back from the Brink project.

Access to the site was along the Imerys Ltd. access track where there are a number of pull-ins in which to park with equipment. The locked gate is at grid reference SY931838. From there the initial access into the site was somewhat undulating, but it was possible to access it with a wheelbarrow. It was also possible to stay in the van overnight in the pull-ins.

Permissions were sought, and obtained, from the Imerys Ltd. china-clay offices and a signing-in and on-site liaison process was established and followed. A key to the

padlocked gate was made available, kept on site. Staff at Imerys Ltd. were very approachable and co-operative.

Goathorn

The heathland mitigation site on Goathorn is owned by Perenco and permissions for access were first obtained through their ecologist Kevin Cook. The heathland site is accessed via a gate at SZ011858 after an extensive drive along private roads on the Goathorn peninsular. From the gateway it was straightforward to run traps up the slope towards the main heath ridge using a wheelbarrow.

Various site protocols were observed when visiting the site including a checking-in procedure at the main site security. A barrier code is required to access beyond the main pumping station.

The site is dry heath with some wet flushes and also drew in a few species apparently from adjacent woodland and nearby coastal habitats. Reptile and Bat surveys are regularly undertaken on the site.



Fig. 105 Entrance to the site on Goathorn

Godlingstone Heath

Visited 3 times in April and early May 2018 as part of the Back from the Brink project looking for *Acleris hyemana*. The known Purbeck Mason Wasp sites are a considerable distance onto the Heath and the only practical means of trapping was to have the kit delivered and collected using a National Trust 4-wheel drive vehicle. The site could be accessed on foot in the mornings for species recording, the walk taking about 25 minutes.

Grange Heath



The Purbeck Mason Wasp habitats at Grange Heath were surveyed on 3 occasions in April 2019. Accessed from the small RSPB car park at SY910832. From there it was some distance to transport the kit by wheelbarrow, but 4-wheel drive would be a preferable option.

Fig. 106 Trapping on Grange Heath

Ham Common

At the request of the BCP Ranger Service a trapping session was held at Ham Common in August 2019 in support of the Ham Common Wildlife day – a public engagement event. Traps were operated in a gated compound to the north of the pond, accessed via a padlocked gate. It was possible to park up overnight here. Grid reference for the gate is SY983906. The ranger service provided the key. The following morning traps were taken to a gazebo on the main event site close to the public viewpoint and a well-attended and very successful event was held. Unfortunately plans to repeat the event in 2020 were shelved due to the international pandemic.

Hamworthy

From late August 2019 a private garden in Hamworthy, within the conurbation, was visited. The site proved to be of exceptional interest and continued to be surveyed in 2020, from early June right through to late November.

The garden is well-established, the estate dating from the 1950's. Close to Hamworthy Park and the harbour shoreline, and a short distance from nearby Ham Common a number of migrant species were recorded. The garden was ample enough to support two MV traps. Notable numbers of L-album Wainscot and a well-established population of Box-tree moth. This was the only site within the conurbation that was regularly surveyed and may be another good indicator of the importance of urban gardens as a wildlife resource.

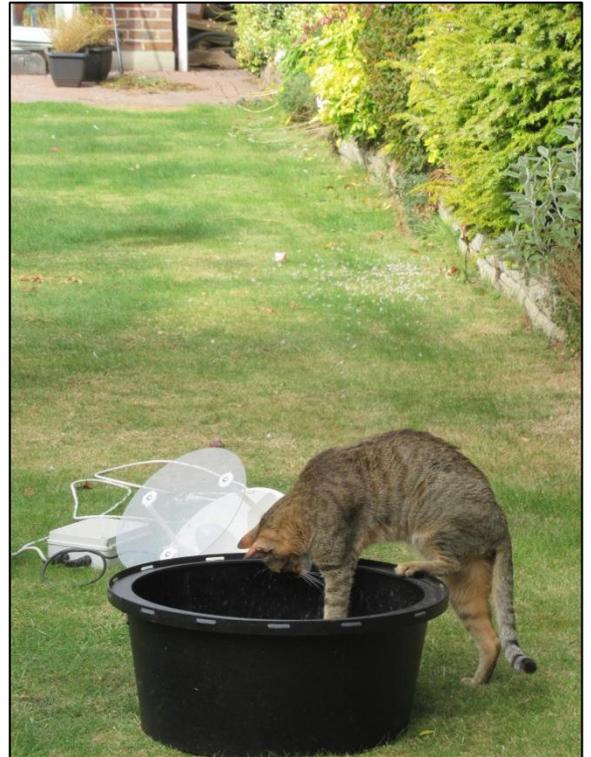


Fig. 107 Rusty the cat *helping* to empty the moth trap

Hatch Pond

This site has been fairly well recorded in the past and was not selected for trapping. It was, however, visited for day-flying survey and pheromone survey for Clearwings. Two areas, the carr woodland area to the north, accessed via the gate at SZ015941 and the small open meadow at SZ016940 were successfully surveyed using pheromone lures.



Fig. 108 Habitat at Hatch Pond

Hartland Moor

The site was primarily visited with 2 different targets in mind. Firstly, early season visits were made to look for adult *Acleris hyemana* as part of the Back from the Brink Purbeck Mason Wasp project. For this the tramway opposite the track to Middlebere Farm was accessed. 6 visits were made from March to early May 2018. One additional visit was made to this area in October 2019 to successfully record Southern Chestnut.

Another project looking at the pollinators of Lesser Butterfly Orchids, also a Back from the Brink project required visits to another part of the Moor accessed from the old TB clinic site opposite the Lectonbury pick-your-own fruit farm. From there traps could be wheelbarrowed to the site. 4 visits were made in June 2018 and 2 in late June and early July 2019.

The whole area contained a free-roaming herd of Devon Red cattle which, whilst often in the general vicinity of the traps, did not provide us with any undue issues.



Fig. 109 Hartland Moor Orchid Site

Holton Heath

Visited once in July 2018. The heath is accessed from the industrial estate roundabout at SY 952909.



Bob Ashington at Natural England is the site manager and arranged a health and safety brief as well as site liaison and access key. The site is closed to public access as it is considered extremely hazardous and the moth recording was restricted to the open heath. A moth fauna broadly similar to Holton Lee was found, albeit from a single visit, but a number of interesting species were recorded including one of only 2 Red Data Book Dingy Mochas for the project.

Fig. 110 Trapping at Holton Heath

Holton Lee

The site is owned and managed by Liveability and access for trapping was readily granted. During the course of the project some tighter security measures were introduced but we were granted padlock combinations for newly locked gates.

The principal interest is in the habitat variety with reed-fringed wetlands grading through woodland with a number of mature trees, notably Oaks and into open dry scrubby heathland.

Three main areas were targeted. The main effort involved trapping in the woodland edge and wetland area at the start of the western edge of the boardwalk at an approximate grid reference of SY 963916. 32 nights trapping effort was undertaken here. The generator was generally sited so that at least one trap would be out on the boardwalk, one on the woodland edge and one up into the woods. Often the actinic trap would be placed on the adjacent heath or on the dipping platform of the heathland pond. This area can, with permission, be accessed by vehicles, and it was also secure enough to leave generator and traps unattended overnight on a number of occasions.

The area of woodland around the 'bird-feeder' hide close to the eastern end of the boardwalk was trapped four times. Grid reference SY963915.

The Flourish Garden was targeted on a few occasions later in the season when it contained a higher concentration of nectaring plants than elsewhere. The garden was trapped on 5 nights.

In addition, a single session was held on the heathland, primarily targeting the Red Data Book species, Southern Chestnut.



Fig. 111 The boardwalk at Holton Lee

Little work was done with pheromones mainly because the site was closed for most of the summer in 2020 due to the Coronavirus pandemic. However, permission was obtained for a single visit and despite extensive luring for a number of Clearwing species, none were recorded. Elsewhere on the site the lights around the toilet block and elsewhere may attract moths and the single record of *Convolvulus* Hawk-moth was recorded here.

Members of the public proved interested in the goings-on but did not cause any issues for the project. The presence of 4 highly mobile cattle also did not present any difficulties.

Longfleet School

In July 2019, at the invitation of Robin Heaward who regularly records at the site, a visit was made to Longfleet Primary School. Traps were put out by Robin and were examined during the course of the following day as part of a wildlife day held at the school.

Round Island



A single trapping visit to Round Island was arranged for August 2018. Arrangements were made through the island caretakers, Steve and Caroline Shepherd who were able to sort out the logistics of boat transport from the Poole marina and kindly provided overnight accommodation. There is electricity on site and cables could reach to the saltmarsh. Consequently, a number of very interesting records were obtained.

Fig. 112 Trapping on Round Island with the Shepherd family

Sandford Gardens

Up to 5 private gardens in Sandford were trapped on 2 occasions, in 2018 and 2019, in conjunction with an annual moth-trapping event co-ordinated by Pam Hunt. Each property ran a single MV trap with one being placed on Sandford Heath immediately behind houses in Miles Avenue. The results are recorded as an amalgamation from all of the gardens.

Slepe Heath

The site was initially targeted following discussions with Mark Parsons at Butterfly Conservation. As the known stronghold for the seriously declined Speckled Footman. From mid-July 2017 the heath was visited regularly. In early spring 2018 and 2019 the known sites for Purbeck Mason Wasp were targeted in a search for *Acleris hyemana*, whose larvae are the food supply of the wasp grubs. This work was assisting the Back from The Brink project.



Slepe Heath is a large site and 3 main areas were regularly visited. The main central heath with the highest concentrations of Bristle bent, the assumed foodplant of Speckled Footman, was best accessed using a 4-wheel drive vehicle and whenever it was possible to liaise with NT staff this was done. However, in mid-summer this is quite a demanding time commitment, late in the evening for assisting staff. Access for the main body of the site – including moving traps towards the wetter heath in the north-east corner was from the locked gate on Soldier's Road. On subsequent visits, in late summer and autumn it proved perfectly feasible to move equipment from this gateway with repeated wheelbarrow journeys. In this way areas of the track and heath within 400m of the gateway were trapped a number of times.

Fig. 113 Early season trapping for *Acleris hyemana*

A number of visits were made in late spring and summer 2018 accessing the site from the eastern side using the gate along the road that runs from Arne triangle to the Middlebere Farm track at grid reference SY957860. The traps were taken up the hill using a wheelbarrow. This part of the site produced a number of significant heathland species including several Grass Eggar, Small Chocolate-tip and Bordered Grey.

The main site for looking for *Acleris hyemana* was accessed from the gateway at SY961856 and it was possible to drive vehicles along the track here.

Along Soldiers Road there is an additional Purbeck Mason Wasp location that was accessible from the road by wheelbarrow and this was visited on 4 occasions in March and April 2018. A lay-by on the road allowed the van to be slept in within sight of the traps and generator.

Stoborough Heath



The site was surveyed on 4 dates in April and early May 2018 specifically to look for *Acleris hyemana* as part of the Purbeck Mason Wasp Back from the Brink project. The site was accessed by wheelbarrow from the layby and gate on Furzebrook Road at SY929844. Muddy terrain in April proved to be the only difficulty encountered. It was possible to stay in the van overnight in lay-bys along the Furzebrook Road.

Fig. 114 Trapping on Stoborough Heath

Talbot Heath

The site was visited once in June 2018 to support a wildlife open day organised by Terry Elborn from the BCP Ranger Service. Accessed from the small car park at the end of Mayford Road, via a locked gate it was possible to drive to the main trapping area on the heath at approximately SZ066925.

Upton Heath

Visited on a single occasion in early July 2019, in conjunction with a number of other moth and Nightjar surveyors. Upton is a fairly well-recorded site. Accessed from the small layby at the corner of Beechbank Avenue and Longmeadow Lane access was provided by 4W-D vehicle by Dorset Wildlife Trust warden Andy Fale.

Wareham Forest

Visited once in late July 2019 as part of a co-ordinated effort to survey for Speckled Footman organised by Durwyn Liley and Footprint Ecology. The area is beyond the boundary of the BoPH recording area and included here for completeness. A number of interesting species were found here and the site recorded on was a short distance to the north of Trigon. Records for this night's trapping were passed to Footprint Ecology for inclusion in their datasets on Living Record. The records are however, amalgamated into the MoPH project totals.

Moths and public engagement

There are a lot of misconceptions around moths, as in ‘they are drab, brown and eat your clothes’ and so, wherever feasible we used the project as an opportunity to dispel some of these myths. We have always found moths to have a high ability to surprise and delight people. Being nocturnal, most moths are asleep or dormant during daylight hours, making them easy to examine in the hand, which is a useful tool when showing members of the public.

MoPH attended public events at Corfe Castle, Ham Common, Talbot Heath, Sandford Gardens and Holton Lee. These were mainly in the form of attendance, with traps full of moths, at wildlife events organised by the National Trust (Corfe Castle) and BCP Council (Ham Common and Talbot Heath). In addition, a ‘Bio-blitz’ was held at Holton Lee in 2018 and a children’s event was held at Longfleet School which we were invited to attend. The two Corfe Castle weekends in September 2017 were estimated to have been attended by over 3,000 people.

From 2019, it was possible to take live moths into the BoPH information hub on Poole Quay on Saturdays. The only real limitation was our own stipulation that all specimens should be released in appropriate habitat and so, locally rare or habitat-specific species were not included in this process.

In the field we frequently encountered considerable interest in what we were doing. The presence of traps and equipment on site was usually sufficient to draw questions from curious passers-by and we considered dealing with this a crucial part of our work.

Extensive plans to increase engagement effort in 2020 were almost entirely curtailed by the outbreak of the Coronavirus pandemic.

Moths are ideal for demonstrating biodiversity, habitat adaptation, camouflage and as indicators of environmental health and climate change amongst a range of other benefits to the natural world. There is a considerable ‘wow’ factor in showing people moths and this is applicable to virtually all ages. Serious consideration should be given to using moths in any ‘show-and-tell’ wildlife events. Many organisations will have their own code of conduct regarding the use of live specimens (ensuring appropriate handling, temporary housing, temperature and release at the end of the event). It should be noted that insect repellent should not be worn when handling moths.

Appendix 1. List of the reports by the MoPH project

1. *Acleris hyemana* on Purbeck Heaths in 2018-2019
2. Arne Moors Moth Report 2018-2020
3. Ballard Moth Report 2018-2020
4. Box-tree Moth Report 2019-2020
5. Brownsea Island Moth Report 1962-2017
6. Canford Heath Moth Report 2017
7. Carey Estate Moth Report 2019-2020
8. Corfe Castle Moth Report 2017
9. Corfe River Meadow Moth Report 2020
10. Goathorn Moth Report 2017-2019
11. Hamworthy Moth Report 2019-2020
12. Holton Lee Moth Report 2017-2020
13. Leaf-mine Report 2020
14. Lesser Butterfly Orchid & Hartland Moor Report 2018-2019
15. Moths of Poole Harbour – Phase 1 Report
16. Moths of Poole Harbour – Phase 2 Report
17. Pheromone Study (Clearwing report) 2020
18. Poole Harbour Moth Report 2017-2020 (*this one*)
19. Poole Harbour Species List
20. Round Island Moth Report 2018
21. Slepe Heath Moth Report 2017-2020
22. Southern Chestnut Moth Report

Additionally: Moths and Larval Food Plants in Gardens and Heathland in Dorset (Lena K. Ward, Chris Thain, Abigail Gibbs and Pamela Hunt). British Journal of Entomology and Natural History Volume 33, pp. 305-310

Many of these reports will appear on the BoPH website: [Surveys - Birds of Poole Harbour](#) However, if you wish to contact us directly about any of the above reports please contact: mothsofpooleharbour@gmail.com

ACKNOWLEDGEMENTS

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Fig. 115 Chris Thain (seated) & Abby Gibbs (standing) at Holton Lee Bioblitz 2018